

Cambridge City and South Cambridgeshire Local Plan Examinations Matters and Issues Statement

Representor Commercial Estates Group

CCLP ID **5423** SCDC ID **17653**

Prepared by Nathaniel Lichfield and Partners

Date **10 October 2014**

Matter 3 Housing Need (Tuesday 11 November 2014)

- A. Do the figures of 14,000 new homes (Cambridge City) and 19,000 new homes (South Cambridgeshire) reflect a robust assessment of the full needs for market and affordable housing, as required by the Framework (paragraphs 47 and 159)?
- Commercial Estates Group (CEG) consider that the combined provision of 33,000 new homes over the period 2011 to 2031 does not reflect a robust assessment of the full needs for market and affordable housing and would fail to meet full objectively assessed development needs as required by the NPPF. A full review and alternative evidence base is contained within the accompanying 'Housing and Economic Technical Assessment Update' (referred to as "HETA Update" as an Appendix to this Statement). In the context of flaws in the Plans' approach to planning for housing, the HETA Update provides a comprehensive objective assessment of need for Cambridge and South Cambridgeshire in light of the NPPF and PPG.
- We set out our response to the key issues regarding the proposed housing requirement as follows in response to Matter 3A, with our main concerns with the evidence base (and objective assessment of need) used to arrive at the housing requirement set out in our response to Matter 3B.

What is the full need for market and affordable housing in the housing market area?

CEG consider that the full needs for market and affordable housing, as required by the NPPF, across the two Local Authority areas is **42,780** dwellings over the period 2011-2031, equivalent to an annual average of

2,139 dwellings per annum. This is based upon the analysis contained within the HETA Update as follows:

- Demographic-led needs These represent the starting point under the PPG. CEG agree with the Councils that the Government's sub-national population projections (SNPP) are implausibly low for Cambridge and should not be relied upon. We therefore consider that the Councils' alternative 'indicative population' population projections may represent a reasonable assessment based only on demographic-trends. Using appropriate household formation rates (as opposed to occupancy ratios, which fail to take account of changing household structures and changes to the profile of the population) demographic-led needs would total up to 38,700 dwellings.
- b Economic needs and alignment The Councils' Plans include a target to deliver 44,100 jobs for the Plan period, a level which CEG consider is a realistic assessment of economic development needs, particularly given the level of growth already committed to Cambridge. In order to support such a level of job growth with a sufficient labour force, and without adversely affecting the resilience of business or creating adverse commuting patterns, an aligned total of 42,780 dwellings would be needed.
- Affordable housing needs Affordable housing need is far in excess of purely demographic-led needs and is indicative of the scale of backlog and affordability pressures faced by the HMA. The affordable housing needs set out within the SHMA indicate 28,500 affordable homes would need to be provided across the two authorities in order to meet needs. The total level of housing needed to deliver this, assuming an optimistic rate of 40% of housing delivery is affordable, would be 71,000 dwellings.
- d Market signals the PPG (ID:2a-020) sets out that where market signals indicate significant affordability constraints and strong demand, then an upward adjustment is required over and above needs led purely by demographic trends. In Cambridge and South Cambridgeshire the majority of market signals indicate supply has not previously kept pace with demand, causing huge affordability pressures. It is considered that upwards adjustment is fully necessary, and particularly as the scale of past under-delivery against Structure Plan and Regional Strategy figures (a market signal in itself) totals c.11,270 dwellings over the period 1999 to 2011.

How does the combined housing requirement figure of 33,000 new homes relate to the full assessment of needs?

The Councils' combined housing requirement has been arrived at through an assessment of needs contained within the Cambridge Sub-Region SHMA (2012) and the accompanying Cambridge County Council Population, Housing

and Employment Forecasts Technical Report (April 2013). This evidence base arrived at an assessment of needs based upon an 'indicative mid-point' population projection for 2031. It is not made explicit how this indicative projection was arrived at beyond a purported triangulation based upon "the balance of available forecasts" which appeared to include both policy-on and policy-off scenarios (see RD/Strat/280).

Critically CEG do not consider that such an approach represents an assessment of <u>full</u> needs for market and affordable housing. An assessment of full needs must be one which includes consideration of affordable housing needs shown within the SHMA to be 28,500 affordable dwellings, a need significantly in excess of the level that could be delivered at an overall housing requirement of 33,000 dwellings. Furthermore, it is unclear that the 33,000 dwellings reflects market signals and would deliver sufficient housing to underpin and align with the economic potential and aspirations for Cambridge.

Is Cambridge City and South Cambridgeshire the relevant housing market area?

CEG consider that Cambridge and South Cambridgeshire is the relevant housing market area. It is considered that the objectively assessed needs for Cambridge and South Cambridgeshire should be met in full within the area, in line with the NPPF (para 47).

How reasonable and appropriate is it to assess housing needs based upon Cambridge and South Cambridgeshire's likely future economic needs?

CEG consider that Cambridge and South Cambridgeshire's likely future economic needs are the most reasonable and appropriate basis for considering likely housing needs over the Plan period. The NPPF is clear (para 19) that planning should do "everything it can" to support sustainable economic growth. Cambridge is a nationally and globally important economic hub, with centres such as Cambridge critical to the driving the economic competitiveness of the country. The NPPF (para 21) clearly indicates that planning policies should recognise and seek to address potential barriers to investment, including any lack of housing. This is a key factor recognised within the Plans which seek to jointly deliver 44,100 jobs over the plan period, an aspiration strongly supported by CEG.

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- 2.0 B. Is the methodology used consistent with the advice in Planning Practice Guidance? (Where technical matters are in dispute, the Inspector will expect the Councils and relevant representors to provide a statement of common ground so as to narrow and/or clarify areas of agreement and dispute. This will enable the examination hearings to focus on the implications of such matters rather than the underlying technical data.)
- 2.1 CEG consider that the methodology used within the evidence base to identify full objectively assessed needs is deficient and is not consistent with the advice contained within the Planning Practice Guidance. A full review and critique of the approach is contained within the accompanying HETA Update. However, we set out our response to the key issues as follows.
- It should be noted that CEG continue to dispute many of the technical matters.

 To this end CEG have contributed to the Council's statement of common ground. Notwithstanding, even within that statement there are areas of dispute. The issues CEG have with the overall approach and some of the underlying technical data go to the heart of why the Councils' evidence is not robust and hence that the plans are not justified and not positively prepared.

Is it reasonable to focus the assessment of need on the requirement to sustain economic growth rather than the Government's most recent population and household projections?

The PPG sets out that Government's projections should form the starting point for establishing need for housing (ID:2a-015). However, for Cambridge these are not considered to be credible; the underlying ONS sub-national population projections estimate future population decline, despite all trends and other corroborating evidence demonstrating continued population growth (see RD/Strat/080 paras 3.1.10 and 3.2.7). The PPG advises that the Government projections can be sensitivity tested, based upon alternative assumptions specific to local circumstances. However, this raises the question of what alternative basis to use. CEG strongly consider, given clear and agreed deficiencies in the Government's projections for the Cambridge area, that the most reasonable alternative would be a housing need derived from a requirement to support economic growth. Such an approach is supported by the policies in the NPPF and the advice in the PPG and would also avoid the clear pitfalls of attempting to 'triangulate' a population projection from a range of other sources which may not reflect the likely drivers of need and demand within the HMA.

What is the basis for the selection of the indicative 'mid-point' population projection within the SHMA?

The 'mid-point' population projection forms the basis for the SHMA's conclusion on objectively assessed needs. It is wholly unclear on what basis

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the selection of the indicative 'mid-point' population projection has been made. Little reasoned justification is provided for the single projection adopted for each District, with the Councils only stating that it reflects a "broad convergence" and "encapsulates the overall outlook" (RD/Strat/280 para 2.2). The Councils included a number of unrealistic, unreasonable and subjective scenarios as part of this triangulation exercise, including 'policy-on' projections (i.e. "no build" and housing target based scenarios), natural change scenarios (i.e. excluding migration) as well as the deficient ONS projections. Individually none of these would be concluded as a robust objective assessment of need, yet they appear to have significantly affected the selection of the 'mid-point' population projection.

Furthermore, by utilising such an approach, a 'mid-point' for one authority area may be inconsistent in its underlying assumptions to a 'mid-point' for another. This is crucial across the HMA as the PPG indicates any cross-boundary migration assumptions must be consistent and agreed (ID:2a-018) which they cannot be through such an approach. CEG consider the approach to selecting the mid-point population projections is not robust and the Plans' subsequent reliance on them is unsound.

What is the basis for the assumed occupancy ratios and how do these relate to the latest evidence on age specific household formation (headship) rates?

The use of occupancy ratios (a measure of total population per dwelling) to translate population to dwellings takes no account of age and household structures in the population. It crudely applies a regional assumption on change in the occupancy ratio (drawn from a pre-recession decade 1996-2007 trend) to Cambridge and South Cambridgeshire. This, however, does not consider or account for how the population in those areas will actually change over time and organise itself into households, nor how population/household change may be different from the 1996-2007 period in the future. No account is taken of age specific dynamics within the population projections, with only overall population change considered. The implication of this is that the impacts of factors such as an ageing population and populations not in households (such as students in halls) are not assessed.

This is recognised in the PPG which advocates using the projected household representative rates as they provide information on both household levels and structures (ID:2a-015). The PPG states these "may require adjustment to reflect factors affecting local demography and household formation rates", however, the use of the occupancy ratios (with assumptions on change drawn from a regional average) fails to reflect the local demography and the scale of constrained household formation across the HMA that will have arisen from the level of past under-supply. CEG do not consider this approach is in accordance with the PPG advice and because of this the household growth

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(and housing need) is significantly underestimated (by as much as 14% as indicated in the HETA Update).

Will the combined figure of 33,000 new homes be sufficient to support the delivery of 44,100 new jobs?

CEG consider the delivery of 33,000 new homes will be wholly insufficient to support delivery of 44,100 new jobs.

The assumed relationship between population and jobs within the Councils' assessment of need is wholly unclear and unsubstantiated. The use of the East of England Forecasting Model (EEFM), a 'black-box' econometric model, appears to suggest that greater levels of job growth will be able to be supported with lower overall levels of population growth, compared to long term demographic trends (e.g. with an ageing population and changes in economic activity). Without being able to interrogate why this is the case within the EEFM model and whether the underlying assumptions it makes are reasonable, CEG conclude that within the Councils' approach there are fundamental flaws in the way population and jobs are linked, meaning there is no alignment between economic needs and housing needs within the strategy. In particular, modelling by NLP, using the transparent and widely adopted POPGROUP model, indicates that to support delivery of 44,100 new jobs, 42,780 dwellings would be required (see HETA Update).

How has the assessment of need been adjusted to reflect worsening trends in market signals?

The PPG states in respect of market signals that "The housing need number suggested by household projections (the starting point) should be adjusted to reflect appropriate market signals, as well as other market indicators on the balance between the demand for and supply of dwellings." (our emphasis) (ID:2a-019)

Both RD/Strat/280 and RD/Strat/290 suggest that the assessment of need reflect market signals with the latter document referencing this requirement in the PPG to the forecasts contained within the SHMA (para 12.2.5) and the Technical Report (Section 5 and 6.1). However, this only presents the forecasts including the 'indicative population total' scenario, which is a demographic-led scenario representing the household projections, albeit the Councils' suggest it 'reflects market and economic signals' (RD/Strat/280 para 12.3).

Although reference to the various market signals is made throughout the SHMA, it does not appear that the housing need number suggested by household projections has been adjusted to reflect market signals. The PPG does not advocate that it is simply enough to assess market signals, there must be a corresponding adjustment or action associated with those market

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signals. The assessment undertaken does not do this, and therefore is inconsistent with the advice in the PPG.

How has the undersupply against the Structure Plan and Regional Strategy requirement been taken into account in the assessment?

The PPG sets out a clear requirement that needs must reflect past undersupply. It states (ID:2a-015) that any assessment will "need to reflect the consequences of past under delivery of housing" and that (ID:2a-019): "If the historic rate of development shows that actual supply falls below planned supply, future supply should be increased to reflect the likelihood of underdelivery of a plan."

Past under-supply against the relevant requirements across the HMA is set out in Table 1 below. This shows that under the Structure Plan and East of England Plan requirements, total undersupply in the HMA over the period 1999 to the 2011 base date of the new Local Plans has been 11,271 dwellings.

Table 1 Historic Delivery against Requirements in Cambridge and South Cambridgeshire (The HMA)

Basis	Period	Requirement (dwellings)	Delivery (dwellings)	Surplus/ Shortfall
Structure Plan (1,911 p.a.)	1999/00 to 2010/11	22,932	14,306	-8,626
East of England Plan (2,440 p.a.)	2006/07 to 2010/11	12,200	6,491	-5,709
SP (1999-06) then EEP (2006-11)	1999/00 to 2010/11	25,577	14,306	-11,271

Source: NLP Analysis, Cambridgeshire Structure Plan, East of England Plan, Annual Monitoring Data (See NLP HETA Update)

The methodology used within the SHMA to identify objectively assessed needs for the HMA does not take into account this shortfall, which is substantial in scale and has been persistent over the long term. This does not accord with the advice contained within the PPG.

The Councils' have pointed towards the judgment in 'Zurich Assurance Ltd v Winchester City Council & Anor [2014] EWHC 758 (Admin)' to justify that there is no requirement to add any 'backlog'. There are two problems with this contention. Firstly, the hearing for "Zurich" pre-dated the PPG and did not consider the guidance contained therein (that backlog is a market signal – the response to which is a matter of judgement). Secondly, "Zurich" does not advocate that 'backlog' should not be taken into account in assessing future need. It merely takes issue with the methodological approach advanced by one party that you should preface any modelled estimate of future need with a 'backlog' figure (para 95). It does not say that you should entirely disregard backlog in arriving at a full objective assessment of need; indeed the judgment

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concludes that in the case of Winchester the Inspector did properly take this into account (para 97).

Will the proposed housing requirement meet the full needs for affordable housing? How have affordable housing needs been taken into account in the assessment?

- The SHMA itself sets out itself that affordable housing needs across the two districts totals 28,500 affordable dwellings 2011-2031 (SHMA Chapter 12, Table 23). To deliver 28,500 affordable homes as part of a total delivery of 33,000 homes over the Plan period would necessitate 86% of all homes to be delivered as affordable tenures. This is clearly not realistic. Conversely, the supply of new homes would need to be considerably in excess of 33,000 to deliver 28,500 homes at 40% of the total.
- The PPG (ID:2a-029) indicates that an increase in the total housing figures should be considered where it could help deliver needed affordable homes. It is clear that this has not been considered within the overall proposed housing requirement. Affordable housing needs appear to have not been integrated into the assessment as required by the NPPF (para 159) and the PPG.

Summary

- In summary, it is concluded that there are a number of significant issues with the approach that has been adopted through the CCC Technical Report and the Cambridge Sub-Region SHMA, with the main flaws in the methodology summarised as follows:
 - a No reasoned justification is provided for the selection of the indicative 'mid-point' population projection as the basis for its concluded need for each district, particularly as a 'mid-point' for one authority area may be inconsistent in its underlying assumptions to a 'mid-point' for another;
 - b No account is taken of age specific dynamics within the population projections, with only overall population change considered. The implication of this is that the impacts of factors such as an ageing population are not assessed;
 - The use of occupancy ratios (a measure of total population per dwelling) to translate population to dwellings takes no account of age and household structures in the population of the HMA;
 - d The assumed relationship between population and jobs is wholly unclear and unsubstantiated, with fundamental flaws in the way they are linked, meaning there is no alignment between economic needs and housing needs within the strategy; and
 - e No account appears to have been taken of affordable housing needs; economic demands; and housing market signals (including past undersupply) in the conclusions on full objectively assessed housing needs.

These issues lead to the conclusion that the evidence and approach to defining an objective assessment of development needs are fundamentally flawed and fail to address the requirements of the NPPF and the advice contained within the PPG. CEG considers the issues with the evidence base render the plan unsound.

APPENDIX – HOUSING AND EMPLOYMENT TECHNICAL ASSESSMENT UPDATE - NLP OCTOBER 2014



Cambridge South East

Housing and Employment Technical Assessment – Update

PARTS A, B & C

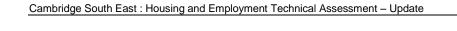
Commercial Estates Group

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Nathaniel Lichfield & Partners 14 Regent's Wharf All Saints Street London N1 9RL

nlpplanning.com



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Registered Office:
14 Regent's Wharf
All Saints Street
London N1 9RL

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Executive Summary

This report provides an updated evidence base underpinning CEG's Matters Statements to the examination into the Local Plans for Cambridge and South Cambridgeshire. It addresses new evidence, data sources and changed circumstances since the original representations were submitted in September 2013.

Cambridge's Economic Potential

- a Recent job growth projections indicate that the future rate of job creation in Cambridge **City** will significantly exceed past rates of growth. It is forecast that total workforce jobs will increase by circa 25% over the Local Plan period 2011 and 2031. This is equivalent to 1,190 net additional jobs each year.
- b These projections may represent an underestimate given that known pipeline developments and investment decisions are likely to yield in the region of 17,690 jobs in the short to medium term. The 17,690 jobs already identified could account for over 40% of the 44,100 additional jobs forecast across both local authority areas. On this basis, should this job growth trajectory continue over the entire plan period 2011-2031, it is likely Cambridge and South Cambridge will exceed their respective targets significantly.
- Job growth is already running significantly ahead of housing delivery in Cambridge, front loading the development need pressures. This shows why there is such acute pressure on the housing market in Cambridge (as demonstrated by the housing market signals) and why reliance on new settlements coming forward at the back end of the plan period does not provide a mechanism for addressing these front-loaded needs.
- d If Cambridge is to continue to attract the best labour and thereby maintain its economic competitiveness on a global level it must ensure that housing growth maintains pace with labour growth to meet the needs of these groups.
- e Similarly, the global success of the Cambridge economy is built on a spatial concentration of activity in the centre and fringe of Cambridge City itself: a pattern typical of clusters of high value, knowledge-based activities. The Councils' proposed spatial strategy does not effectively reflect the characteristics of the local economy. It therefore poses significant risks to the ability of Cambridge to deliver future growth and innovation and thereby fails to meet the requirements of Paragraph 21 of the NPPF.

Cambridge and South Cambridgeshire Objectively Assessed Housing Needs

f The Councils' have sought to retrospectively justify their approach to objectively assessing housing needs. However, NLP does not consider that any of the justifications provided fundamentally address the shortcomings of the evidence base which mean it is not robust. The problems are that:

- no reasoned justification is provided for the choice of the indicative 'mid-point' population projection;
- the assumed relationship between population and jobs is wholly unclear and unsubstantiated meaning there appears to be no alignment between economic needs and housing needs within the strategy; and
- that no account appears to have been taken of affordable housing needs; economic demands; and housing market signals in conclusions on full objectively assessed housing needs.
- g NLP conclude that, <u>full</u> objectively assessed needs for the Cambridge HMA are 42,780 dwellings between 2011-2031 (1,239 per annum) on the basis that:
 - The Government's household and population projections are not realistic for considering needs within Cambridge and as such the 'starting point' demographic-trend-led needs are best represented by a scenario of 1,794 dwellings per annum;
 - To align with economic needs and deliver a labour supply to support 44,000 jobs there is an annual need of 1,987 to 2,139 dwellings, suggesting an uplift on the housing needs indicated by just demographic-led projections;
 - To deliver all affordable housing needs would necessitate delivery of 3,565 dwellings per annum, with 40% of those being affordable tenures; and
 - The market, economic and affordable housing 'signals' all indicate that to meet full housing need and demand in the HMA a level of delivery significantly in excess of purely demographic-led needs is required, with a reasonable upwards adjustment considered to be in line with one that seeks to meet economic needs.

Delivery of the Spatial Strategy

- h The identified necessary 'critical' infrastructure works for the new settlements will not be delivered in a timely manner in order to meet crucial infrastructure tipping points and ensure that the new settlements are delivered in the timescales anticipated.
- There is in fact no certainty over the funding for the necessary 'critical' infrastructure, with funding unallocated and/or not committed and as such there are no defined delivery mechanisms for the infrastructure necessary to support the new settlements.
- The above mean that the spatial strategy set out within the Plans will not be effective in delivering the necessary development in a timely manner to meet needs, with a more sustainable and deliverable strategy one that allocates more development on the edge of Cambridge City.

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Appendix 3 Market Signals Comparator Data

Introduction

1.0

- This Housing and Employment Technical Assessment (HETA) Update has been prepared by Nathaniel Lichfield & Partners (NLP) on behalf of Commercial Estates Group (CEG). It is an update to the HETA prepared in September 2013 and submitted as part of CEG's representations to the submission drafts of the Cambridge and South Cambridgeshire Local Plans respectively.
- The purpose of this HETA Update is to review the assessment previously made in light of new guidance and new data. In particular, since the HETA was undertaken a year ago the Planning Practice Guidance (PPG) was published in March 2014, there have been further data releases from ONS providing newer evidence on housing and employment needs and the Council's themselves have prepared some elements of new evidence to support their emerging Local Plans. The Council has also produced new evidence and the City Deal has been agreed. All of this needs to be reviewed and addressed.
- The HETA Update, therefore, builds upon the previous HETA, but presents a fully up-to-date position on the strategic housing and employment needs in both Cambridge City and South Cambridgeshire combined with an assessment of the deliverability of those in the context of the emerging Local Plans.

Report Structure

- The updated HETA report is structured into three parts, each dealing with a different aspect of the housing and employment requirements in Cambridge City and South Cambridgeshire. The examination into the Cambridge City and South Cambridgeshire Local Plans has been split into separate hearing sessions, with those starting in November 2014 dealing primarily with the spatial strategy and needs, and later sessions, scheduled for January 2015 dealing with delivery. Therefore, similarly, this updated HETA report has been split into two to ensure it remains up-to-date and relevant to the matters at hand. Part D of the HETA will be issued with relevant Matters Statements.
- 1.5 The updated HETA report is set out under the following headings:

Updated HETA Report – PARTS A, B & C (September 2014)

PART A – Potential

Part A assesses the latest evidence on Cambridge's economic role, the potential for economic and employment growth and the likely implications of this. It is set out within the following section:

- Cambridge's Economic Potential (Section 2.0)
- PART B Objectively Assessed Needs

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Part B provides an up-to-date, NPPF and PPG compliant, objective assessment of housing needs for Cambridge and South Cambridgeshire. It is set out within the following sections:

- Updated Review and Critique of the Evidence (Section 3.0)
- Approach to Assessing Housing Needs (Section 4.0)
- Updated Objective Assessment of Development Needs (Section 5.0)
- Duty-to-Cooperate and Unmet Needs (Section 6.0)
- Conclusion on Full Objectively Assessed Need (Section 7.0)

PART C – Spatial Delivery

Part C considers the extent to which the spatial strategy set out within the Plans is deliverable and consistent with meeting identified needs over the plan period. It is set out within the following sections:

- Infrastructure Delivery and supporting the New Settlements (Section 8.0)
- Conclusion on Spatial Delivery (Section 9.0)

Updated HETA Report – PART D (TBC)

Part D – Deliverability and Trajectory

Part D will be prepared for the second tranche of hearings. It will consider the delivery trajectories for the two authorities, providing a review of the deliverable land supply across the plan period and whether it is sufficient to meet identified need.

- Deliverability of Housing Sites (Section 10.0)
- Realistic Trajectories for Housing Delivery (Section 11.0)
- Conclusion on Deliverability and Trajectory (Section 12.0)

The appendices contain the data, assumptions and technical information that underpins NLP's conclusions in respect of the above.

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Part A - Potential

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2.0 Cambridge's Economic Potential

2.1 This section considers the scale and type of future job growth that Cambridge City is forecast to experience over the Local Plan period. Within this context, it identifies committed jobs that are in the pipeline and the contribution these can make towards the meeting the Council's proposed level of job growth. It also considers the implications that barriers to accessing housing have on achieving employment growth in Cambridge and the impact this could have on the future Cambridge economy.

Future Job Growth

- The Cambridge Draft Local Plan draws on the 2012 East of England Forecasting Model (EEFM) to provide estimates for the future growth of the City economy to 2031. This projects that 22,100 jobs will be created in the City over the 2011-2031 Plan period, of which approximately 8,800 will be within B-class sectors (i.e. offices, industrial and warehousing). The equivalent figure included in the South Cambridgeshire Local Plan, Proposed Submission version equates to 22,000 jobs. Combined, forecast job growth for Cambridge and South Cambridgeshire amounts to circa 44,100 jobs.
- 2.3 For the purposes of this study, Oxford Economics (OE) 2014 forecasts for Cambridge City and South Cambridgeshire have been analysed as more upto-date forecasts of future job growth. This dataset has been selected as the EEFM 2014 update has yet to be released; however, OE forecasts use macroeconomic assumptions that broadly align with those that are used for EEFM forecasting. On this basis OE forecasts are deemed to be generally consistent with the Council's evidence base.
- Figure 2.1 plots the level of total employment in Cambridge showing both the historic time series since 1991 and projections to 2031¹. This illustrates that the City's rate of job creation is forecast to increase significantly when compared to past trends. Over the 20-year period between 1991 and 2011, Cambridge generated an average of 585 jobs per annum, equivalent to an overall increase of almost 14% across the period. The OE projections indicate average growth rising to some 1,190 jobs per annum between 2011 and 2031, equivalent to total growth of 25%. This indicates that the scale of future growth of the City's economy could be nearly twice the rate experienced in Cambridge during the past two decades.
- The rate of job growth in South Cambridgeshire increased at a faster rate than experienced in Cambridge between 1991 and 2011. It is estimated that future growth trends to 2031 across both authority areas are likely to be more closely aligned (as shown in Figure 2.1), however, greater percentage increases are expected in Cambridge compared to South Cambridgeshire (25% compared with 19%).

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¹ OE Forecasts provide estimates to 2030, NLP analysis has been used to forecast job growth to 2031

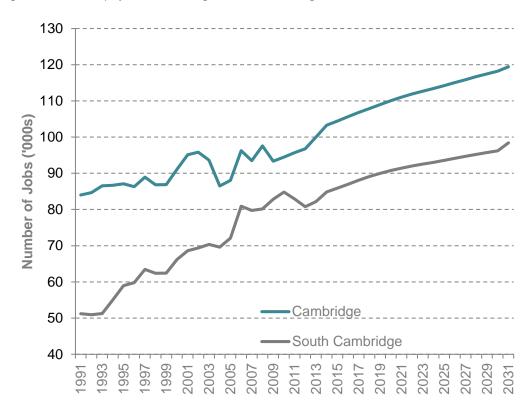


Figure 2.1 Total Employment in Cambridge and South Cambridgeshire, 1991-2031

Source: Oxford Economics, 2014/ NLP analysis

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There is potential for the forecasts to represent an underestimate if committed employment schemes are taken into account, as discussed in further detail below.

Historic and future job growth within Cambridge centres around higher value knowledge-based sectors including high tech and research-intensive sectors (defined as chemicals, pharmaceuticals, electronics, publishing and media, telecoms, computing and R&D), health and care (recognising Cambridge's role as a leading centre for health and bioscience) and the financial and business services sectors that provide the support network for high tech businesses. This highlights the continued economic importance of specialist technology sectors (and those sectors that support them) to the Cambridge economy and the sustenance of the Cambridge cluster in the long-term.

Employment Trajectory

Table 2.1 identifies major developments with committed occupiers that are currently in the pipeline in the Cambridge City Urban Area. A number of these schemes have already acquired planning permission and are likely to come forward in the short to medium term, including: Cambridge Biomedical Campus, Cambridge Science Park and CB1. Job numbers have been estimated by applying average employment densities to the assumed floorspace areas, where job numbers are known, these have been included. Based on this high level assessment, it is estimated that over 17,690 jobs

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could be accommodated in the Cambridge Urban Area in the early stages of the local plan period.

Development Proposal	Committed Occupier	Floorspace (sqm)	Number of Jobs ²
Cambridge Biomedical Campus	AstraZeneca	Unknown	2,000
Cambridge Biomedical Campus – Papworth Hospital	Papworth Hosital R&D	130,000	5,200
CB1 Station Area	Multiple occupier	53,560	4,300
North West Cambridge – Cambridge University	Cambridge University	40,000	1,600
Shaftesbury Road	Cambridge Assessment	42,000	3,000
Peterhouse Technology Park	ARM	19,500	1,300
Cambridge Business Park	CSR	9,300	290
Total Jobs			17,690

Source: NLP analysis

The 17,690 jobs already identified account for over 40% of the 44,100 jobs target, showing that:

- a if this job growth trajectory were to continue over the entire plan period 2011-2031, it is likely Cambridge and South Cambridge could exceed their respective targets significantly.
- b job growth is already running significantly ahead of housing delivery, front loading the development need pressures into the first five and ten years of the Plans. This shows why there is such acute pressure on the housing market in Cambridge, and why reliance on new settlements coming forward at the back end of the plan period does not provide a mechanism for addressing these front-loaded needs.
- c the focus of growth is almost overwhelmingly concentrated on the Cambridge urban area, reflecting the focus of knowledge-based activity within the Cambridge identified in CEG's original representations and reflected in the *Cambridge Cluster at 50* study.
- This job growth figure is likely to increase further as confidence in the economy continues to grow. In 2013 there was a record number of company registrations in Cambridge with a total of 1,875 new companies formed. Cambridge is also a competitive location on a national scale and ranks eighth in a list of leading UK cities attracting foreign direct investment (FDI), according to a UK attractiveness survey by Ernst & Young (EY). It was the best performing location in East Anglia, attracting eight investment projects to the city in 2013 alone.
- 2.11 At the other end of the scale, small and medium enterprises (SMEs) form a large and important part of the local Cambridge economy. Recent research by

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² Total figures rounded

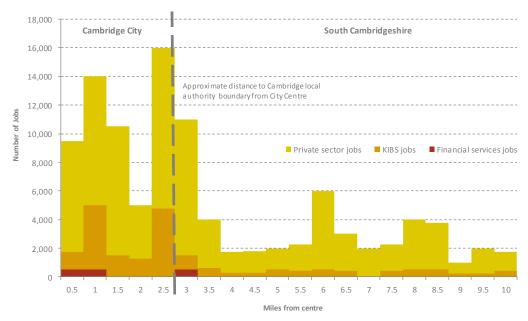
Centre for Cities³ indicates that a higher proportion of Cambridge's SME are adopting a high growth strategy, than any other city nationally. This would suggest that employment generated by SMEs is likely to increase overall job growth in the Cambridge Urban Area.

Latest Evidence on Spatial Concentration and Distribution of Growth

Analysis of the location of jobs within Cambridge and South Cambridgeshire indicates the significant concentration of jobs within, or immediately adjoining, the Cambridge City boundary (Figure 2.2). By comparison, job levels diminish considerably with increasing distance away from Cambridge across the wider South Cambridgeshire area.

The pattern of jobs within Cambridge City itself is relatively decentralised, reflecting the geography of a constrained historic city centre and the development of various business parks and single-occupier sites around the edge of the City (Figure 2.3). This indicates that sites on the edge of Cambridge perform a key role in accommodating the City's growth over and beyond what can realistically be located within the historic core.





Source: Centre for Cities/ NLP analysis

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³ Small Businesses Outlook 2014

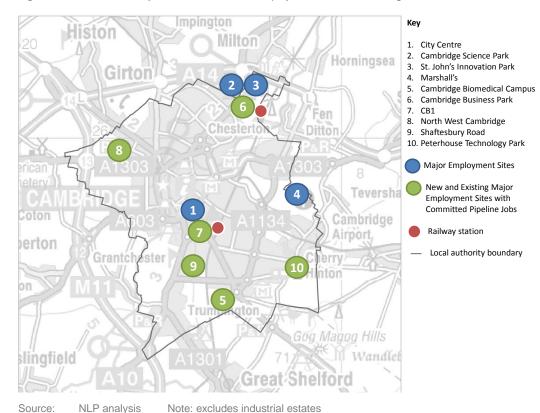


Figure 2.3 Location of Major Business Park and Employment Sites in Cambridge Urban Area

Implications for Businesses in Cambridge

This decentralised pattern of business development has implications for businesses in Cambridge. The global success of the Cambridge economy is built on a spatial concentration of activity in the centre and fringe of Cambridge City itself: a pattern typical of clusters of high value, knowledge-based activities. The Councils' proposed spatial strategy does not effectively reflect the characteristics of the local economy. It therefore poses significant risks to the ability of Cambridge to deliver future growth and innovation and thereby fails to meet the requirements of Paragraph 21 of the NPPF, which requires local planning authorities to:

'plan positively for the location, promotion and expansion of clusters or networks of knowledge driven, creative or high technology industries'.

Recent evidence points to significant shifts in the geography of high-tech startups and venture capital (which as stated previously comprise a large part of Cambridge's local economy). They appear to be gradually shifting from their traditional locations in suburban business parks toward denser urban locations⁴. This is a trend that is also evident in Cambridge; for example Microsoft chose to relocate from a prime site in West Cambridge to a central location at CB1.

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⁴ High-Tech Challengers to Silicon Valley, The Atlantic Cities, July 2013

It is widely recognised that the supply of suitable premises in Cambridge are limited; the Council's ELR Update suggests that:

'the market signals are very clear... more has to be done to increase supply in those locations where firms want to be'.

Therefore, in order to plan positively, facilitate the 'promotion and expansion' of the Cambridge cluster and provide employment land 'where firms want to be', proposed new employment allocations should be maximised and the spatial distribution of these allocations should ensure the economic competitiveness of Cambridge is maintained and the economy achieves its potential.

Immediate Housing Barriers to Employment Growth

- 2.18 The local presence of a skilled and educated workforce is widely seen as being of key significance for local economic growth and competitive advantage. An educated workforce is likely to be more innovative, more creative and more flexible⁵.
- Cambridge has a better qualified workforce than either the Eastern region or the UK as a whole⁶. Some 65.6% of the working age population is qualified NVQ4 level or above (HND, Degree, or Higher Degree). This is almost double the proportion found in the Eastern region more generally and the UK as a whole. This reflects the concentration of graduates, scientists and technicians in Cambridge's labour market, and the high number of high-tech jobs in the City. Conversely, a particularly low proportion of the City's working-age population has no qualifications; around half the proportion found nationally.
- This highlights that Cambridge has a clear competitive advantage in terms of its workforce, a factor that contributes significantly to its economic performance. However, this does rely upon attracting and retaining an increasingly global talent pool of highly skilled individuals as earlier studies have highlighted:

"Cambridge needs to be a place where globally mobile and wealthy workers can and will choose to live, and the housing offer needs to reflect this".

- A persistent problem in Cambridge, partially owing to spatial constraints, is the failure of housing growth to keep in line with the growth in demand for labour. Therefore, in order for the City to maintain its competitiveness and its relative competitive advantage on an international and national scale, it must increase its supply of housing in the short term.
- 2.22 Recent analysis of labour market geography in Cambridge indicates that younger, professionals known as 'the bicycle economy' tend to live in the City Centre and want to work there too⁸.

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⁵ The Cambridge economy: retrospect and prospect, SQW, 2011

⁶ ONS Annual Population Survey 2013

⁷ SQW Cambridge Cluster at 50, The Cambridge economy: retrospect and prospect

⁸ SQW Cambridge Cluster at 50, The Cambridge economy: retrospect and prospect

Market signals including; house prices, rents, affordability and overcrowding (which will be considered in further detail in Part B) show that the Cambridge housing market area faces some significant challenges. Under each of the indicators Cambridge and South Cambridge record averages that exceed national levels. The market signals point towards a housing market which is failing to match demand with supply, which is causing problems of affordability, pushing up prices and generating adverse outcomes for people who still need to access the housing market (e.g. through increased overcrowding within the existing stock).

The market signals provide a strong indication of demand and suggest that there needs to be a relatively large improvement in affordability within Cambridge and South Cambridgeshire.

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Conclusion on Cambridge's Economic Potential

Cambridge is a leading high-technology cluster and competes internationally for investment, jobs and skilled labour. The City is therefore of national and international economic significance.

The most recent OE projections indicate that the City's future rate of job creation over the next two decades (i.e. over the Plan period to 2031) will significantly exceed past rates of growth, with job creation expected to almost double between 2011 and 2031. These projections may represent an underestimate given that pipeline developments and investment decisions are likely to yield in the region of 17,690 jobs. This underlines the continued economic importance of specialist sectors (and those sectors that support them) to the Cambridge economy in the long-term, and the efficacy of a jobs-led approach to the City's future planning strategy.

In spatial terms, the pattern of jobs within Cambridge City itself is relatively decentralised, reflecting the geography of a constrained historic city centre and the development of various business parks and single-occupier sites around the edge of the City. However, concurrently the demand for employment land and premises is highly concentrated within Cambridge and the immediate boundary with South Cambridgeshire as there is an increasing desire for firms to locate within or close to the city centre.

It is widely acknowledged that Cambridge performs poorly in terms of market signals relating to accessibility to housing. House prices and rents are high, housing is relatively expensive when compared to wage levels (despite relatively high wage levels) and overcrowding is acute. The market signals point towards a housing market which is failing to match demand with supply, which is causing problems of affordability, pushing up prices and generating adverse outcomes for people who still need to access the housing market. If Cambridge is to continue to attract the best labour and thereby maintain its competitiveness at a global level it must ensure that housing growth maintains pace with labour growth to meet the needs of these groups.

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Part B – Objectively Assessed Needs

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Updated Review and Critique of the Evidence

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- The substantive evidence on objectively assessed needs for housing and economic development for Cambridge and South Cambridgeshire continues to be primarily contained within two key documents:
 - Cambridge County Council Population, Housing and Employment Forecasts Technical Report (April 2013) (Examination Ref: RD/Strat/080); and
 - Cambridge Sub-Region Strategic Housing Market Assessment (SHMA) (Examination Ref: RD/Strat/090) and particularly Chapter 12 (updated May 2013).
- Fundamentally the approach adopted by the Councils has not changed since NLP's HETA in September 2013, with the strategies still reliant on the objectively assessed needs set out in the SHMA. As such the criticisms previously made of that as an evidence base continue to be applicable. However, the approach to objectively assessing the need for jobs and homes, and how this has subsequently informed the strategy contained within the emerging Local Plans, has sought to have been clarified by the Council's in several further documents. We summarise the continued flaws in the evidence base before we review the new papers produced by the Councils as follows.

Summary of HETA Critique

- A full critique of the objectively assessed needs evidence base was contained in NLP's September 2013 HETA (Section 2.0) and continues to be applicable. This concluded that the evidence and approach to defining objectively assessed needs within the Cambridge and South Cambridgeshire Local Plans lacks coherency and transparency. In particular it concluded that there are a number of significant issues with the approach that has been adopted through the CCC Technical Report and the Cambridge Sub-Region SHMA, with the main flaws in the methodology summarised as follows:
 - a Little reasoned justification is provided for the population projections adopted. In particular the SHMA does not adequately justify its selection of the indicative 'mid-point' population projection as the basis for its concluded need for each district, particularly as a 'mid-point' for one authority area may be inconsistent in its underlying assumptions with a 'mid-point' for another;
 - b No account is taken of age specific dynamics within the population projections, with only overall population change considered. The implication of this is that the impacts of factors such as an ageing population are not assessed;
 - The use of occupancy ratios (a measure of total population per dwelling) to translate population to dwellings takes no account of age and

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household structures in the population. It crudely applies a regional assumption on projected change in the occupancy ratio to Cambridge and South Cambridgeshire, without considering how the population in those areas will actually change over time and organise itself into households;

- d The assumed relationship between population and jobs is wholly unclear and unsubstantiated, with fundamental flaws in the way they are linked, meaning there is no alignment between economic needs and housing needs within the strategy; and
- e No account appears to have been taken of affordable housing needs; economic demands; and housing market signals in conclusions on <u>full</u> objectively assessed housing needs.
- These issues lead to the conclusion that the evidence and approach to defining an objective assessment of development needs are deficient. The Councils' proposed targets are, therefore, not sound because they are not justified, effective nor positively prepared in the context of meeting needs.

New Evidence and Background Reports

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Since the HETA in September 2013, the Councils (Cambridge City, South Cambridgeshire and Cambridgeshire County) have published a number of new documents which seek to explain and justify their approach to objectively assessing development needs. These include:

- Topic paper on joint working and development (March 2014, Ref: RD/Top/010);
- Approach to Establishing Objectively Assessed Need for Additional Housing (March 2014, Ref: RD/Strat/280); and
- Assessing the Cambridge Strategic Housing Market Assessment against the final National Planning Practice Guidance (March 2014, Ref: RD/Strat/290).
- Whilst none of these alter the evidence on objectively assessed needs set out in the earlier CCC Technical Report and SHMA they do seek to explain and rebut some of the criticisms outlined above. We have reviewed each of these as follows.

Topic Paper on Joint Working and Development (March 2014)

This Topic Paper briefly sets out the policy background and chronology for the objective assessment of needs for jobs and homes (see Section 3 of the Topic Paper). It simply confirms that the objective assessment of need, and the subsequent housing requirement, was informed primarily through the CCC Technical Report and the subsequent SHMA. The Topic Paper sets out that the assessment was undertaken in light of the NPPF, albeit pre-dating any guidance, and focussed on establishing (para 3.4) "the anticipated increase in population across the housing market area". The Topic Paper presents a brief

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summary of the methodology, which remains as previously reviewed, but points to the paper 'Approach to Establishing Objectively Assessed Need for Additional Housing' as a more detailed description of the approach taken.

Approach to Establishing Objectively Assessed Need for Additional Housing (March 2014)

This paper describes the approach taken to objectively assessing development needs within the Cambridge Sub-Region SHMA. Although only a short note it seeks to elaborate on why particular assumptions and approaches were adopted within the SHMA and justify why it remains a robust basis for the assessment of need. The paper particularly appears to attempt to address some of the criticisms within a-e above, which were made by NLP and others to the September 2013 submission consultation.

We critically review these as follows, set out under the same headings as within the paper (as relevant).

Identifying a 2031 population total

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The paper sets out that a range of relevant demographic and economic-led population projections were brought together, rebased to the Census 2011 population and then compared to identify outliers and broad convergences. In respect of how the chosen 'mid-point' population projection was arrived at for each District, the paper states:

"By considering all of the forecasts together, an indicative population figure for each district was determined which encapsulates, within a single figure, the overall outlook for the district's population in 2031, on the balance of the available forecasts."

This explanation, however, doesn't appear to pin down exactly how a mid-point population projection for each local authority area was actually concluded upon. It also doesn't explain how a 'single figure' based upon the 'balance of available forecasts' for each district would represent a consistent set of underlying assumptions (e.g. around migration, job growth or commuting) for each district. A forecast which may be an outlier for one District may be within the broad convergence of all forecasts for another District, despite being based upon complementary assumptions. This appears to confirm the approach to defining a population projection in the SHMA has been somewhat arbitrary.

Identifying employment growth

The paper confirms that employment growth was determined using the outputs of the East of England Forecasting Model (EEFM). The appendix to the paper provides a brief and high level overview of how the EEFM works, with the key principles being that it starts with 'a professional assessment of the national economic outlook' across numerous industry sectors but then distributes this down to local levels reflecting the existing sector mix in the area and the outlook for those sector. It then outlines that:

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"Population forecasts are an output of the model. The EEFM forecasts population growth in line with employment growth, and uses the level of net commuting to maintain the geographic relationship between jobs and employed residents, providing a forecast for the total population, of all ages, which is consistent with the level of employment growth."

Whilst this reflects the CCC Technical Report description of what the EEFM does, it remains the case that the population forecasts are an output derived from a large number of assumptions embedded within the model that are not made explicit. The reasonableness of variables such as economic activity, unemployment, economic migration factors and how the population fill employment positions directly affect how robust a population output from the model is. Furthermore, as set out within NLP's 2013 HETA, the ratio between population and jobs within the EEFM is projected to increase, which would be at odds with trends towards an increasing ageing population (whereby there will be fewer jobs per person rather than more). It is unclear whether the EEFM reflects how housing markets actually operate, with many people moving within housing markets for reasons outside of employment (e.g. retirees).

Why population was used as a starting point

The paper sets out that population, rather than households, is used as the starting point in line with the way the government's own household projections are produced. This is considered reasonable. The paper goes on to state (para 5.2):

"However, the Technical Report shows that ONS SNPP population projections for Cambridge are implausibly low, due to the migration methodology. While for other areas in the Cambridge HMA ONS population projections look more reasonable, the fact that the same methodology produces such unrealistic projections for one district caused concern about the consistency of data and approach across the HMA."

For reasons previously set out within NLP's 2013 HETA, NLP agree that for Cambridge City the SNPP methodology yields results that are neither credible nor robust and would therefore not represent an appropriate starting point for considering housing needs. The paper goes on to state:

"In order to identify consistent housing demand figures across the HMA, including Cambridge, it is important to follow the same methodology for all districts, using the same evidence sources." (NLP Emphasis)

It is agreed that it is important to follow the same methodology and same evidence for assessing housing needs, albeit such a methodology must have the flexibility to account for specific local circumstances as set out within the PPG. This does, however, appear to contradict the approach taken within the SHMA which mixes different scenarios to arrive a 'mid-point' projection, meaning the concluded single projection for each district is not necessarily based upon the same evidence and assumptions (as explained above).

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Addressing historic under-supply and ensuring constraints are not applied to assessing housing need

The PPG sets out that household formation rates may have been suppressed historically by under-supply and worsening affordability of housing. The paper acknowledges this and concludes (para 6.1) that the SHMA by "using a Census-based assessment of total expected population provides a basis for determining a housing demand figure that is free from such constraints." This assertion is baseless and incorrect. The Census 2011 data itself would have been affected by past under-supply and worsening affordability; a household cannot form unless it has a house to form into. Simply basing a population projection on Census data does not mean it is free from the constraints and implications placed on demographics through past under-supply and affordability.

The paper also states:

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"The indicative 2011-31 population and employment growth figures are based on jobs-led population forecasts rather than solely on demographic-led forecasts. Therefore, the identified population total reflects market and economic signals."

This is significant, as it is an approach incompatible with the guidance contained within the PPG. The PPG is clear that demographic-led (household) projections should form the starting point for assessing needs. These should then be adjusted to reflect market signals (through an uplift where such signals suggest an imbalance between supply and demand), economic and employment trends and affordable housing needs. Such factors may indicate more housing needs to be planned for than just that based on demographic-led needs, in order to meet full objectively assessed needs.

Arriving at the "identified total population" (i.e. a projection to 2031) through a triangulation exercise, does not mean that such a projection reflects the specific factors associated with housing markets, including the implications of changing age structures and how this will affect local labour supply. The single 'indicative population' projection utilised in the SHMA is not commensurate and aligned to a level of growth which would adequately support jobs-led population forecasts (the majority of which are identified as involving greater population growth than the indicative population scenario). Therefore, such a population does not reflect economic signals in the way the paper suggests it does.

The Councils' have stated in respect of addressing historic under supply (Statement of Common Ground – Matter 3b document):

"In assessing future housing need, there is no requirement to add any 'backlog' where past housing development under-delivered against previous plan targets, in accordance with the High Court judgement Zurich Assurance Ltd vs. Winchester City Council and South Downs National Park Authority..."

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This statement is misleading. Firstly, the hearing for 'Zurich Assurance Ltd v Winchester City Council & Anor [2014] EWHC 758 (Admin)' pre-dates (11th/12th February 2014) the publication of the Planning Practice Guidance (6th March 2014) which sets out clear guidance on how backlog should be taken into account. Secondly, "Zurich" does not in fact advocate that 'backlog' should not be taken into account in assessing future need. It merely takes issue with the methodological approach advanced by one party that you should add the 'backlog' figure onto any modelled estimate of future need (para 95). It does not to say that you should entirely disregard backlog in arriving at a full objective assessment of need; indeed the judgment concludes that in the case of Winchester the Inspector did properly take this into account (para 97).

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In this context, the issue of past-undersupply, or 'backlog', is specifically covered within the PPG as a market signal. The 'rate of development' market signal states (ID:2a-019):

"Supply indicators may include the flow of new permissions expressed as a number of units per year relative to the planned number and the flow of actual completions per year relative to the planned number. A meaningful period should be used to measure supply. If the historic rate of development shows that actual supply falls below planned supply, future supply should be increased to reflect the likelihood of under-delivery of a plan." (NLP emphasis)

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The PPG goes on to identify (ID: 2a-020) that the appropriate response to market signals is an upward adjustment to planned housing numbers compared to ones based solely on household projections, with that adjustment of a level that is reasonable. Whilst backlog might not need to be added to future need (e.g. as identified by household projections), as a market signal, it is clear that backlog, and the scale of that backlog, must be fully reflected in any full objective assessment of need. In this respect, the Councils' approach has wholly failed to account for backlog as a market signal, which would support upwards adjustment. Any upwards adjustment would need to be viewed in the context of other market signals, and alongside other indicators as to full objectively assessed needs, such as affordable housing need or economic-led needs. In such circumstances, the scale of backlog may help to quantify, or at least provide an indication supporting other judgements, as to what a reasonable uplift would be.

Translating 2031 population to housing demand: occupancy ratios

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The paper confirms that the approach taken to translating the 2031 population to housing was to utilise changes in occupancy ratios based upon a regional assumption drawn from past changes to the ratio seen in 1996 to 2007. The Councils indicate that the regional geography is appropriate for this assumption because (para 7.2) it: "reflects the national trend of an ageing population, but does not reflect issues of suppressed household formation... and is based on observed data at a regional, rather than national, level."

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The paper does not indicate why such an approach is more appropriate than a local geography for considering future changes in household formation.

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Indeed, it appears to be formed on the assumption that trends in ageing population are uniform across the country and region; which they are not, with the changing age profile dynamics different across many areas. Such a simplistic approach wholly fails to reflect how the age structure (and associated household formation characteristics) have previously changed at a local level and will continue to do so in the future. We consider that this is not an appropriate nor robust approach to translating population to households and housing demand.

Why an approach based on occupancy ratios was used rather than relying on national household projections

The Councils' indicate that they have disregarded the household formation rates that underpinned the CLG household projections because the 2011-based ones perpetuate a supressed household formation rate, whereas the 2008-based ones do not account for the effect of the much larger proportion of recent immigrants in the population, citing the 'Holmans' paper.

Whilst the above is not incorrect, it doesn't follow that the appropriate recourse is to adopt assumptions based upon regional occupancy ratios which fail to take into account local dynamics in household formation, including age structure changes. The PPG sets out that the government projections should form the starting point and there are numerous approaches to overcome the shortcomings of both the 2011 and 2008 projected household formation rates, whilst still reflecting specific local demographic circumstances, as adopted by NLP.

How this approach differs from using headship rates to understand household formation and occupancy levels

The paper asserts that the occupancy ratio summarises all age structure and household components to provide an overall measure. It elaborates that the 2011 occupancy ratios used in the methodology reflect differences in the characteristics of the different areas, including household age structures. Whilst this is true of the 2011 occupancy ratio starting point (drawn from the Census), by adopting such an 'overall measure' as occupancy ratios as an assumption, it implicitly assumes that the household structure of the population will always change in the same way, irrespective of the underlying population dynamics.

Occupancy ratios are blunt instrument that fail to reflect the dynamics of population change. By way of quantifying the impact that their use has in comparison to more widely used methods of assessing household formation, Table 3.1 compares the Councils' approach using occupancy ratios with two sets of comparable household representative rates drawn from CLG household projections (see Section 6 for a description). Applying this to the same scenario of population growth, this highlights that an approach using occupancy ratios arrives at household growth between 7.9% and 14.0% lower than an approach using suitable household representative rates.

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Table 3.1 Occupancy Ratios vs. Household Representative Rate on Indicative Population Scenario (Scenario B) for South Cambridgeshire

	2011	2031	Change							
Approach: Occupan	cy Ratio									
Population	149,842	187,842	+38,000							
Occupancy Rate	2.42	2.31	~							
Households	61,918	81,317	+19,399							
Approach: CLG Age Specific Household Representative Rates (with allowance for population not in households) - 2011-based then Indexed to 2008-based										
Population	149,842	187,842	+38,000							
Households	60,394	81,459	+21,064							
Di	fference (% Occupan	cy different to HRR):	-1,666 (-7.9%)							
	Specific Household l useholds) - 2011-bas									
Population	149,842	187,842	+38,000							
Households	60,394	82,950	+22,556							
Di	Difference (% Occupancy different to HRR): -3,157 (-14.0%)									

Source: NLP HETA - Update

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How the age structure of the population is addressed

There is no explicit projection of how the age structure of the population will change under the 'indicative total population' scenario. However, the Councils indicate that as this has been derived from forecasts which do have an identified age structure, a population figure in the range of these forecasts must have a "reasonable age structure" (para 10.1).

Whether the scale of population growth would result in a reasonable age structure is not at issue. The issue is how the Councils can sufficiently plan for services, infrastructure and housing, when the age structure of the population has not been taken into account when trying to estimate need and demand for such factors. For example, it is unclear how, without an age structure from the indicative population scenario, the Councils can evidence and plan for:

- a Sufficient labour force (and working age people) to support economic growth, given likely changes in the labour market (including economic activity rates across different age cohorts);
- b Infrastructure provision such as school places, without knowing how many pupils/school age persons there might be, and health and care facilities, with elderly people particularly affecting such services, among others; and
- c Housing and accommodation needs, with increases in student populations, elderly populations, young adults and family populations all having acutely different housing and accommodation needs, which may not be captured without considering age specific (and household formation) factors.

A full and integrated approach to assessing development needs, flowing from the same demographic evidence to ensure alignment, should have been carried out as advocated in the PPG and without consideration of the age structure of the population, this will not have been robust.

Approach taken to commuting

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The paper sets out that the approach to commuting is based upon a continuation of commuting patterns as set out in the Census 2001. No adjustment to such patterns is made as it would constitute a policy/strategy choice and would not necessarily be commensurate with objectively assessed needs. We concur it is important that housing demand and the prospects for local economic growth in an area reflect the commuting relationship. Notwithstanding, it is important that this is based upon up to date data, and the Councils should verify this position in respect of the Census 2011 commuting data now available.

Assessing the Cambridge Strategic Housing Market Assessment against the final National Planning Practice Guidance (March 2014)

This document produced by the Councils sets out, in a table format, the requirements of the Planning Practice Guidance (PPG) and where the relevant assessment can be found within the SHMA. It does not, however, present any assessment of whether the approach taken in the SHMA matches the approach advocated in the PPG. It therefore presents a 'tick-box' exercise on whether the SHMA presents data or analysis that is similar to the discrete outputs and analysis required by the PPG. It is not an analysis of whether the approach to objectively assessing development needs within the Cambridge SHMA matches that advocated by the PPG.

By way of highlighting this we take market signals as an example. The PPG states in respect of market signals that (ID: 2a-019-20140306): "The housing need number suggested by household projections (the starting point) should be adjusted to reflect appropriate market signals, as well as other market indicators of the balance between the demand for and supply of dwellings." (our emphasis)

The document references this requirement in the PPG to the forecasts contained within the SHMA (para 12.2.5) and the Technical Report (Section 5 and 6.1). When going to this reference it presents the forecasts including the 'indicative population total' scenario, which is a demographic-led scenario representing the household projections. Although reference to the various market signals is made throughout the SHMA, it is not clear that the housing need number suggested by household projections has been adjusted to reflect market signals. The PPG does not advocate that it is simply enough to assess market signals; there must be a corresponding adjustment or action associated with those market signals. The SHMA does not appear to do this. The Councils' assessment of the SHMA against the PPG wholly fails to recognise

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the actual approach required and therefore has failed to pick up those areas where the SHMA is deficient.

Conclusions on the Councils' Approach

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- Since NLP's September 2013 HETA, the Councils' have sought to clarify their approach to objectively assessing full development needs across the relevant market area. However, whilst the various documents above seek to retrospectively justify the approach in light of the NPPF and PPG requirements, we do not consider that any of the justifications provided fundamentally address the concerns previously set out. The approach within the SHMA and the Technical Report remain subject to the same criticisms set out at para 3.3. above, with the Councils' clarifications failing to address why they have sought to deviate from the methodology required by the NPPF and PPG.
- On this basis, we continue to conclude that the CCC Technical Report and the Cambridgeshire SHMA are significantly flawed. They do not form a sound and robust basis for deriving full objectively assessed development needs in Cambridge City and South Cambridgeshire and therefore the housing requirements identified within the respective plans are not justified.

Approach to Assessing Housing Needs

Changes to Policy and Data Sources

There have been a number of data releases since the production of NLP's September 2013 HETA as well as the introduction of the PPG. These changes are summarised below along with an explanation of their relevance to the HETA Update.

National Planning Practice Guidance

- The PPG was formally introduced in March 2014. It clarifies the position on how the NPPF should be interpreted and applied, including with regards to assessing housing need. It confirms that an assessment of need must fulfil the following criteria and be based upon:
 - a Relevant market area:

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- b Facts and unbiased evidence. Plan makers should not apply constraints to the overall assessment of need:
- Up-to-date household projections published by the Department for Communities and Local Government should provide the starting point estimate of overall housing need; and that
- d The housing need number suggested by household projections (the starting point) should be adjusted to reflect local demographic factors, employment trends as well as appropriate market signals including market indicators of the balance between the demand for and supply of dwellings.
- This clarifies the steps to an objective assessment of need which have informed the conclusions to this HETA Update.

2012 Sub National Population Projections

The 2012 Sub National Population Projections (SNPP) were released by ONS on the 29th of May 2014. These are the first full set of population projections to be released since the 2011 Census and form the most up to date and robust projections on population in the last three releases. At a national level these projections have shown a reduced rate of increase in the projected population of the country in comparison to both the 2010 and 2011 based SNPP. At a Local Authority level the consistency of these new projections with past population projections vary. A new 2012 SNPP scenario has been run to utilise these projections. The profile of population based on this population projection is also implicit within all of the other modelled scenarios.

2011 Census Travel to Work Data

Origin destination data was released on the 25th July 2014 and included information on commuting from the 2011 Census. This updates the commuting

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data used previously in the September 2013 HETA which dated back to the 2001 Census. This has informed an update to the local area matrix undertaken previously to establish the Cambridge HMA.

Defining the Housing Market Area

- With the availability of new data since the production of the HETA report (2013) it is necessary to re-asses the housing market area of Cambridge and South Cambridgeshire. This is compliant with the NPPF which sets out (para 47) that local planning authorities should:
 - "...ensure their Local Plan meets the full objectively assessed needs for market and affordable housing in the housing market area..." (NLP emphasis)
- Patterns of migration are a function of a range of housing market factors combined with household circumstances. Key factors which influence migration patterns and the geography of housing markets include affordability, which itself is influenced by a range of factors, and accessibility, particularly related to place of work and ease of commuting.
- Figure 4.1 illustrates the migratory relationships Cambridge and South Cambridgeshire have with the wider area, showing how Cambridge City interacts in housing market terms with surrounding districts.

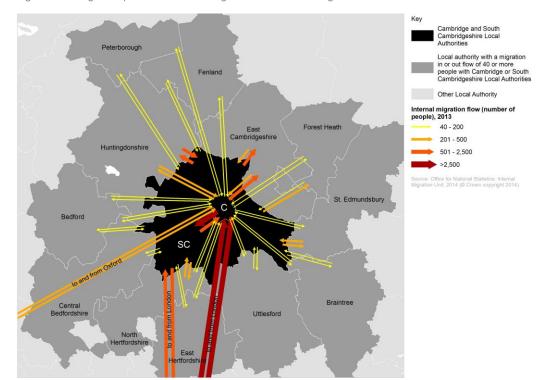


Figure 4.1 Migration patterns for Cambridge and South Cambridgeshire 2013

Source: ONS Migration Statistics Unit

As with the 2011 migration map in the September 2013 HETA, the migration map shows a very high level of interdependency between Cambridge City and South Cambridgeshire, which is significantly greater than the surrounding

authorities. Both Cambridge City and South Cambridgeshire also have a high level of interdependency with London and to a slightly lesser extent Oxford. Potentially this reflects the economic linkages Cambridge has beyond its subregion.

A further way to consider housing market linkages is commuting flows and travel to work areas. Figure 4.2 illustrates in proportional terms where workers in Cambridge and South Cambridgeshire live (i.e. the commuting inflows to the two Districts from different wards of residence). This shows that the highest proportions of workers in Cambridge and South Cambridgeshire also live in these two authorities.

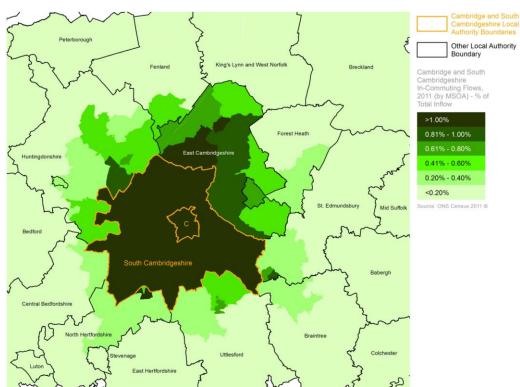


Figure 4.2 Place of residence for commuters working in Cambridge and South Cambridgeshire 2011

Source: Census 2011

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These linkages evidenced in both migration flows and commuting flows clearly demonstrate the degree of housing market interdependency between Cambridge and South Cambridgeshire. The high levels of moves between the two and the commuting dynamic observed illustrates how the housing and economic balance in the area is inter-dependent. Whilst these two authority areas experience the greatest level of housing market inter-dependency, which is unsurprising given the proximity and geographic ties between the two, there is also some inter-dependency with other districts in the sub-region. These wider linkages therefore provide a basis for considering the extent of the HMA surrounding Cambridge City.

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Latest Sub Regional Migration Patterns

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The September 2013 HETA report produced a local area matrix of origin and destination across the sub-region; this was based on data on people's movements over the last year from data in the 2001 Census. This same analysis has been undertaken using the updated 2011 Census results and is displayed below in Table 4.1. The analysis indicates that the level of self-containment of migratory movements in Cambridge and South Cambridgeshire is particularly high with supply side self-containment totalling 83.2% of all those moving out of a dwelling moving within Cambridge or South Cambridgeshire and demand side self-containment totalling 86% of all those moving into a dwelling in Cambridge or South Cambridge moving from those same areas. These are both significantly higher than the 70% self-containment rate set out in the CLG guidance. It would appear that Cambridge has a greater degree of housing market interdependence with Greater London and Oxford than with a number of the other districts defined as being within the Cambridge sub-region.

Table 4.1 Local area matrix of migratory origin and destination across the Sub-Region in 2011

		Destinat	tion													Cambs &	S. Cambs
		Bedford	Cambridge	Central Bedfordshire	East Cambridgeshire	Fenland	Forest Heath	Huntingdonshire	North Hertfordshire	Peterborough	South Cambridgeshire	St Edmundsbury	Uttlesford	Grand Total	% Containment Across Sub- regional HMA	Destination Cambridge & S.	% Containment across Sub-
Origin	Bedford	10,564	51	698	10	18	7	272	63	57	27	14	7	11,788	89.6%	78	0.3%
	Cambridge	55	11,159	44	498	56	195	294	96	113	2,593	193	91	15,387	72.5%	13,752	55.6%
	Central Bedfordshire	1,044	63	11,624	23	28	21	288	635	39	160	13	10	13,948	83.3%	223	0.9%
	East Cambridgeshire	17		31	4,136	178	630	142	43	61	369	114	24	6,086	68.0%	710	2.9%
	Fenland	31		20	143	5,869	29	322	11	457		16	7	7,076	82.9%	171	0.7%
	Forest Heath	10	132	5	492	18	3,546	54	14	14		373	10	4,759	74.5%	223	0.9%
	Huntingdonshire	250		171	149	334	45	9,850	44	656	471	52	23	12,291	80.1%	717	2.9%
	North Hertfordshire	79		935	22	18	13	124	5,903	21	354	38	35	7,630	77.4%	442	1.8%
	Peterborough	71	135	64	75	415	29	665	17	15,072	76	35	4	16,658	90.5%	211	0.9%
	South Cambridgeshire	57	1,616	162	682	70	242	692	266	68	5,910		210	10,190	58.0%	7,526	30.4%
	St Edmundsbury	17		12	117	25	430	47	20	46		6,168	34	7,231	85.3%	315	1.3%
	Uttlesford	12		21	52	6	47	24	19	11		92	3,347	3,992	83.8%	361	1.5%
	Grand Total	12,207	14,198	13,787	6,399	7,035	5,234	12,774	7,131	16,615	10,531	7,323	3,802	117,036		24,729	100.0%
	Containment across Sub-Regional HMA	86.5%	78.6%	84.3%	64.6%	83.4%	67.7%	77.1%	82.8%	90.7%	56.1%	84.2%	88.0%				
Cambs & S. Cambs	Origin Cambridge & S. Cambs	112	12,775	206	1,180	126	437	986	362	181	8,503	408	301	25,577			86.0%
S. C	% Containment across Sub-region HMA	0.4%	49.9%	0.8%	4.6%	0.5%	1.7%	3.9%	1.4%	0.7%	33.2%	1.6%	1.2%	100.0%		83.2%	

Source: Census 2011

- Based on this analysis, it is clear that the Cambridge City and South Cambridgeshire District housing and labour markets are integrally linked and effectively function as one and the same. This is a function of their geographies, with South Cambridgeshire enveloping Cambridge City. The linkages with Cambridge's tightly drawn boundaries lead to any growth on the edge of, or close to, Cambridge but not within the City, rather falling within South Cambridgeshire. Focussing on these two local planning authority areas, the analysis of the two LPAs linkages indicate they actually form a relatively self-contained area in terms of household movements.
- Based on the evidence, it is concluded that the appropriate housing market area against which to consider the housing needs of Cambridge as a settlement comprises Cambridge City and South Cambridgeshire. Housing needs from Cambridge would not be able to be substantially met in Districts beyond this area. The two authorities form a single HMA, and within the context of the NPPF, form the appropriate geography for objectively assessing housing needs.

Updated Objective Assessment of Development Needs

Demographic-led Needs

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- Before considering wider factors such as job growth and housing costs, it is necessary to identify the baseline demographic need of housing within a population. This considers projections in fertility, mortality and migration to project a population, then, given household formation rates, arrive at a required number of dwellings to accommodate growth. NLP has used specialist demographic modelling tool POPGROUP to project future population growth which is an industry standard software package used by Government Agencies, County Councils and Local Authorities. In addition to the number of houses, POPGROUP also produces projections for the number of jobs supported by a population (or population required to support a given number of jobs). This is explored later.
- 5.2 The models are calculated over the period 2011-2031 and assumptions applied in the modelling are set out in Appendix 1. Full model output sheets are found in Appendix 2.
 - NLP has assessed three different demographic scenarios. These are:
 - Scenario A: 2012-based Sub National Population Projections (SNPP) – based on the updated 2012 SNPP which takes into consideration the 2011 census:
 - Scenario B: CCC Technical Report Demographic a demographic-led scenario which constrains the population increase between 2011 and 2031 as forecast in the CCC Technical Report, an increase of 65,000 people for Cambridge City and South Cambridgeshire; and
 - Scenario C: Long Term Migration Trend a demographic-led scenario which constrains the migration figures to those observed in the Mid-Year Estimates Series 2003 to 2013.
 - The sources of the data used for each input are listed below and full explanations of the assumptions around each input are included in Appendix 1.
 - a Fertility rates ONS 2012-based Sub National Population Projections (SNPP).
 - b Mortality rates ONS 2012-based SNPP.
 - c Migration ONS 2012-based SNPP (for past migration scenarios these are taken from the ONS Mid-Year Estimates 2004-2013).
 - d Vacant and second homes CLG Council Tax Base data 2010 to 2013.
 - e Population not in households CLG 2011-based Interim Household Projections.

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CLG 2011-based Interim Household Projections and Household Formation

As identified in the September 2013 HETA the CLG 2011-based interim household projections were published in April 2013 by CLG and provide up to date projections for household formation rates for Cambridge and South Cambridgeshire. These projections of headship rates (the proportion of population that will form a head of household) are applied to different scenarios of population growth.

As discussed in the September 2013 HETA the rates of household formation projected for South Cambridgeshire over the next ten years (to 2021) are only showing marginal increases in household formation, at a much slower rate than experienced in the 1990's. In Cambridge a different trend is projected with household formation falling until 2018 before then increasing again, despite having hit its lowest level for three decades.

Appropriate rates of long term household formation to adopt

For the purposes of an objective assessment of needs in line with the NPPF, it is not appropriate to simply trend forward the interim projections beyond 2021 given the period and circumstances upon which they are based. Instead, it is reasonable to assume that beyond 2021 rates of household formation (and therefore trends in average household size) will reflect a change in line with long term trends. This is likely to occur in particular as the wider economy returns to growth and peoples' circumstances improve, with more confidence and ability to form a new household. Therefore, as a baseline projection of household formation, beyond 2021, NLP has applied the rate of annual change in household formation from the 2008-based household projections, to reflect such long term trends and in the absence of other long-term projections of household formation, an 'indexed' projection. Such an approach has been explicitly supported by Planning Inspectors previously, including at the South Worcestershire Development Plan examination.

Even then, this may be considered a conservative estimate as the Cambridge Centre for Housing & Planning Research (CCHPR – the academics and demographic experts behind the collaborative "What homes Where" toolkit) have expressed the view that formation rates would be expected to rise as a result of economic growth in the short term, and that therefore there is merit in not following the CLG projections all the way to 2021. Instead, they consider that economic growth before 2021 would result in pent-up demand being realised and new household formation occurring and on this basis suggest that, for the purposes of assessing housing needs, CLG 2011-based interim headship rates should only be followed to 2015 but then should deviate to an accelerated rate for a 10 year 'catch up' period, before rates settle down to a level that follows historic patterns.

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⁹ Inspector's Interim Conclusions on Stage 1 (23 October 2013) http://www.swdevelopmentplan.org/wp-content/uploads/2013/02/EX-401.pdf (Paras 26-34)

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Furthermore, the Town and Country Planning Association (TCPA) Tomorrow Series Paper 16 entitled New Estimates of Housing Demand and Need in England 2011 to 2031 by Alan Holmans' states the following with regards to projecting forward household formation rates post 2021 (page 5).

"The central question for the household projection is whether what happened in 2001-11 was a structural break from a 40-year trend; or whether household formation was forced downwards by economic and housing market pressures that are likely to ease with time. At the time of the 2011 Census, the British economy was still in recession and the housing market was depressed. The working assumption in this study is that a considerable part but not all of the 375,000 shortfall of households relative to trend was due to the state of the economy and the housing market. 200,000 is attributed to over-projection of households due to the much larger proportion of recent immigrants in the population, whose household formation rates are lower than for the population as a whole. This effect will not be reversed. The other 175,000 is attributed to the economy and the state of the housing market and is assumed to gradually reverse."

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This report identifies that half of the suppression seen in household formation rates between 2001 and 2011 is attributable to the economic downturn with the other half attributed to the culture of recent immigrants forming larger households than seen historically in England.

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Furthermore, research by the NHPAU found that cohorts who are less able to access home ownership earlier in their housing career due to 'boom' or 'recession' factors impacting on affordability are nevertheless able to 'catch-up' 80% of the gap at the age of 30 and are fully 'caught-up' by the age of 40. There is every reason to believe this finding is broadly analogous to household formation, and supports the resumption of long term trends. To plan towards an alternative hypothesis would not be consistent with the spirit of 'positive planning' so clearly articulated in the NPPF.

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Drawing upon the above evidence, beyond 2021, NLP have applied a further sensitivity in the modelling in the form of a 'catch up' household projection. As it is indisputable that both Cambridge and South Cambridgeshire were impacted by the economic downturn, like the rest of the country, it is clear that at least some of the suppression seen in household formation rates between 2001 and 2011 (compared to the 2008 household projections) was as a result of these recessionary impacts. As such, as these authorities grow out of recession it is plausible that household formation will be made up post 2021, in accordance with the aforementioned research by the NHPAU.

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With regards to the remaining half of supressed household formation over the period 2001 to 2011 (compared to the 2008 household projections) the Alan Holmans' paper for the TCPA, acknowledges that at the national level half the difference is a result of the culture of recent immigrants forming larger households than seen historically in England, and not the recession. However, data obtained from the Census 2011 clearly identifies that this has not been a driving factor in Cambridge and South Cambridgeshire.

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5.14 The Institute of Race Relations defines Black and Minority Ethnic (BME) populations as follows:

"Black and Minority Ethnic or Black, Asian and Minority Ethnic is the terminology normally used in the UK to describe people of non-white descent".

The Census shows that there has been an increase in the BME population in the Cambridge and South Cambridgeshire HMA (those of non-white decent) but not so significant an increase as seen nationally. This is set out below in Table 5.1.

Table 5.1 BME population change

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Location	BME population 2001	BME population 2011	Change	Total population change	BME % of population change
HMA	15,315	31,630	16,315	33,648	48.49%
England	4,459,470	7,731,314	3,271,844	3,873,625	84.46%

Source: Census 2001, Census 2011 and NLP analysis

It is clear from the analysis above that the proportionate increase of the BME population has not been as significant in Cambridge and South Cambridgeshire as it has in England between 2001 and 2011, in fact it is nearly half that seen nationally. As such, Alan Holmans' assumpton that half of the difference between the 2008-based household projections and 2011 counterparts is due to immigrant families forming larger households has not been the case in Cambridge and South Cambridgeshire. This justifies the use of full catch up headship rates for this HMA as supressed household formation has been as a result of recessionary impacts. Importantly, this avoids rolling forward the impact of recessionary (and constrained housing supply) factors upon household formation into the future, thereby avoiding an assessment of housing need that would be commensurate with a policy that plans towards such adverse household and housing outcomes continuing (contrary to the NPPF).

Furthermore, in the market signals section of this report, an assessment of the past backlog of housing delivery in Cambridge and South Cambridgeshire is set out. Neither authority has met their target since 1999/00. As such even the 2008 based household projections are likely to be based on supressed household formation because the level of housing identified to be delivered up until the commencement of the 2008 projections had not been met. Therefore, by catching up to the 2008 based projections, this is still not a mechanism for meeting the total backlog of housing need and addressing the negative market signals associated with that acute and persistent under-delivery. In simple terms, adjusting the household formation rates addresses the recent recessionary impacts that have suppressed household formation, it still continues to exclude any adjustment necessary to address those market signals associated with the long term under-delivery of housing.

Demographic Scenario Outputs

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As previously set out in Section 3 of this report, in CCC's modelling no account has been taken of age specific dynamics within the population projections, with only overall population change considered. The implication of this is that the impacts of factors such as an ageing population are not assessed. In NLP's modelling the 2012 SNPP components of change and 2013 Mid-Year Estimates Population data have altered the profile of the population in accordance with these new data releases. As such, under the same scenarios modelled in the September 2013 HETA report, notably Scenario B, there will be different population, housing and employment outcomes resulting from this updated profile of population.

Scenario A. 2012 Sub National Population Projections

The Cambridgeshire County Council report 'Population housing and employment forecasts Technical Report' set out the following concern for the use of the Sub National Population Projections:

"For Cambridge are implausibly low, due to the migration methodology. While for other areas in the Cambridge HMA ONS population projections look more reasonable, the fact that the same methodology produces such unrealistic projections for one district caused concern about the consistency of data and approach across the HMA". Paragraph 5.2

- The report considers that the low population change for Cambridge under SNPP projections results from unsound migration methodology. As such CCC do not consider these projections to be realistic for Cambridge, and this draws into question how realistic the projections are for the whole HMA.
- None-the-less, the 2012 SNPP have been modelled as their own scenario for Cambridge and South Cambridgeshire because they are the most up to date population projections available. The NPPF and PPG state that assessments of housing demand should start with household projections; these projections rely upon SNPPs.
- Using the data for fertility, mortality and migration from the 2012 SNPP for the Cambridge and South Cambridgeshire Housing Market Area, over the period 2011-2031 there is projected to be population growth of 43,461. The use of indexed projections for household formation post 2021 equates to a need for 24,824 additional houses in total. Using the full catch up headship rates equates to a need for 27,203 additional dwellings in the HMA.

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Table 5.2 Outcomes of Scenario A.

	Population	Jobs	i. Dwellings (under indexed headship projections)	ii. Dwellings (under catch-up headship projections)
Cambridge	10,366	5,884	7,027	8,064
South Cambridgeshire	33,095	10,874	17,797	19,139
Cambridge & S. Cambs	43,461	16,758	24,824	27,203

Source: NLP Analysis

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Scenario B. CCC Technical Report Demographic

This scenario constrains the population increase between 2011 and 2031 as forecast in the CCC Technical Report, an increase of 65,000 people for Cambridge City and South Cambridgeshire. The CCC report's methodology has its limitations, as set out in the critique section. However it is a more robust basis for a demographic projection than the 2012 SNPP.

NLP's modelling outputs for jobs differ from the outcomes of the CCC Technical Report. Under NLP's demographically modelled scenario the forecast increase in jobs is 36,168 as opposed to CCC's forecast of 44,000. The reason for this disparity is not clear. The methodology used in the EEFM model to calculate this jobs figure has not been made explicit.

The dwelling requirement under this scenario equates to 35,889 additional dwellings required in the HMA when utilising indexed headship rates. Using full catch up headship rates the number of additional dwellings increases to 38,714.

Table 5.3 Outcomes of Scenario B.

	Population	Jobs	i. Dwellings (under indexed headship projections)	ii. Dwellings (under catch-up headship projections)
Cambridge	27,000	19,231	14,160	15,446
South Cambridgeshire	38,000	16,938	21,729	23,268
Cambridge & S. Cambs	65,000	36,168	35,889	38,714

Source: NLP Analysis

Scenario C. Long Term Migration Trend

This scenario models the migration trend from the ONS revised Mid-Year Estimates series seen in Cambridge and South Cambridgeshire over the past ten years (2003/04 to 2012/13). As set out in the September 2013 HETA report, the migration figure is adjusted to include 50% of unattributed population growth to international migration, 25% for gross international in migration and 25% for gross international out migration.

The dwelling requirement under this scenario equates to 31,825 additional dwellings required in the HMA when utilising indexed headship rates. Using full catch up headship rates the number of additional dwellings increases to 34,513.

Table 5.4 Outcomes of Scenario C.

	Population	Jobs	i. Dwellings (under indexed headship projections)	ii. Dwellings (under catch-up headship projections)
Cambridge	23,769	16,143	11,980	13,193
South Cambridgeshire	36,222	14,548	19,845	21,320
Cambridge & S. Cambs	59,991	30,691	31,825	34,513

Source: NLP Analysis

Market Signals

The PPG indicates (ID: 2a-019-20140306) that once an assessment of need based upon household projections is established, this should be adjusted to reflect appropriate market signals and indicators of the balance between the demand for and supply of housing. The guidance explicitly sets out six market signals:

- a land prices;
- b house prices;
- c rents:

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- d affordability;
- e rate of development; and
- f overcrowding.

It goes on to indicate that appropriate comparison of these should be made with upward adjustment made where such market signals indicate an imbalance in supply and demand and need to increase housing supply to meet demand and tackle affordability issues (ID 2a-020-20140306):

"Appropriate comparisons of indicators should be made. This includes comparison with longer term trends (both in absolute levels and rates of change) in the: housing market area; similar demographic and economic areas; and nationally. A worsening trend in any of these indicators will require upward adjustment to planned housing numbers compared to ones based solely on household projections. Volatility in some indicators requires care to be taken: in these cases rolling average comparisons may be helpful to identify persistent changes and trends.

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In areas where an upward adjustment is required, plan makers should set this adjustment at a level that is reasonable. The more significant the affordability constraints (as reflected in rising prices and rents, and worsening affordability ratio) and the stronger other indicators of high demand (e.g. the differential between land prices), the larger the improvement in affordability needed and, therefore, the larger the additional supply response should be." (NLP emphasis)

The guidance sets out a clear and logical 'test' for the circumstances in which objectively assessed needs (including meeting housing demand) will be in excess of demographic-led projections.

Housing Market Indicators

In the context of the NPPF and the PPG, each of the housing market signals have been reviewed and updated to assess the extent to which they indicate a supply and demand imbalance in Cambridge and therefore indicate that upwards adjustment should be made over the demographic-led baseline already identified.

Land Prices

There is no more up to date data on land prices than was previously set out in the HETA (2013). As such it is still the case that the significant land price premium in Cambridge is an indicator of exceptionally high demand for residential building land and is illustrative of a shortage of land for such use.

House Prices

The PPG identifies that longer term changes in house prices may indicate an imbalance between the demand for and supply of housing (ID: 2a-019-20140306). Although it suggests using mix-adjusted prices and/or House Price Indices, these are not available at local authority level on a consistent basis, and therefore for considering market signals in the Cambridge housing market area, price paid data is the most reasonable indicator.

Since the HETA (2013) data on house prices from 2013 have been released. Figure 5.1 shows how median house prices in Cambridge, South Cambridge and England have changed between 1996 and 2013. Median house prices in both Cambridge and South Cambridgeshire have been consistently higher than the national average. In addition, median prices in Cambridge have increased at a faster rate than nationally, rising 311% from £75,000 in 1996 to £308,000 in 2013 compared to a rise of 225% seen nationally. This means that in 2013, the median house price in Cambridge was 64% higher than in England overall.

South Cambridgeshire has seen a rate of increase lower than in Cambridge of 220%, closer to the national average. However, house prices were still 34% higher than the national average at £249,950 in 2013.

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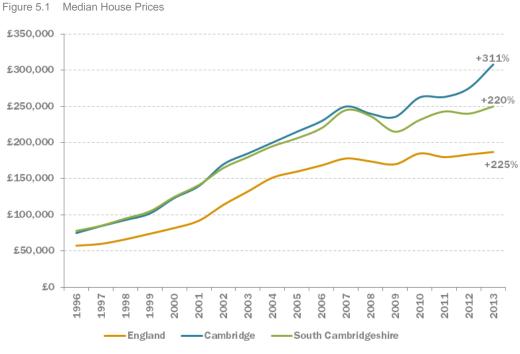
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Source: CLG Live Table 586, Land Registry Data

With a median house price of £308,000 Cambridge is ranked the 32nd most expensive Local Authority in England in terms of house prices. With a median house price of £249,950 South Cambridgeshire is ranked 70th in terms of house prices; this means that both Cambridge and South Cambridge are within the top 25% most expensive Districts in England in terms of house prices. In addition, Cambridge has also increased at one of the fastest rates, ranking 17th out of 326 in terms of per cent change from 1996 to 2013.

Rents

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On a similar basis, high and increasing rents in an area are a further market signal of stress in the housing market. Although data for median monthly rent by District are only available for recent years, patterns are still apparent. Similarly to house prices, median monthly rents in both Cambridge and South Cambridge have been higher than those seen nationally. In the 12 months to Q1 2014 median monthly rent in Cambridge was £850 and South Cambridgeshire £795. This is compared to £595 nationally. This means Cambridge and South Cambridgeshire are, in terms of median monthly rent, in the top 25% most expensive Local Authorities in England.

Furthermore, rents over the three year period have increased at a rate significantly higher than in England, with Cambridge increasing by 6.9% and South Cambridgeshire by 8.5%. Over the same period increases in median monthly rents nationally were 4.4%. This is shown in Figure 5.2. This highlights that affordability within the private market rental sector has, in the last couple of years, substantially worsened in Cambridge and South Cambridgeshire, indicating there has been much greater demand for housing in this tenure than there has been supply during this period.

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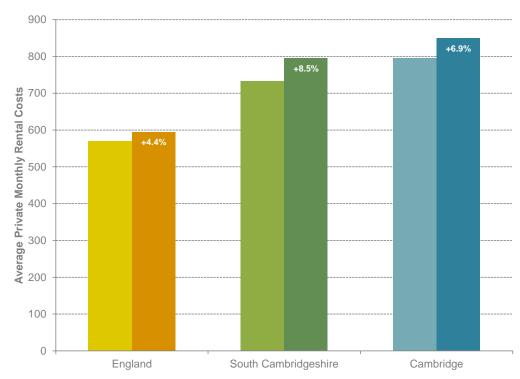


Figure 5.2 Median Rent and Change (Q2 2011 to Q1 2014)

Source: VOA Rental Market Statistics

Affordability

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As with house prices, since the HETA (2013) data on house prices from 2013 have been released. The PPG identifies that assessing affordability involves comparisons between the cost of housing and ability to pay. The indicators for this are lower quartile house prices to lower quartile earnings, which together form an affordability ratio which can be tracked over time. The affordability ratio is indicative of housing supply not keeping pace with demand. This forces prices up, and in the absence of wage growth which keeps pace with house prices, affordability ratios worsen.

As with other market signals, the affordability ratio in Cambridge and South Cambridgeshire has been consistently worse than in England. Even including the dip seen immediately after the start of recession when house prices nationally fell, Cambridge still saw an increase in the lower quartile affordability ratio from 4.49 to 10.33, an increase of 130%. South Cambridgeshire also saw a high level of increase of 103%, to 8.79 in 2013. Nationally, the affordability ratio in 2013 was 6.45 representing an 81% increase since 1997. This is shown in Figure 5.3 which illustrates that housing affordability in Cambridge and South Cambridgeshire is clearly an issue for the Local Authorities.

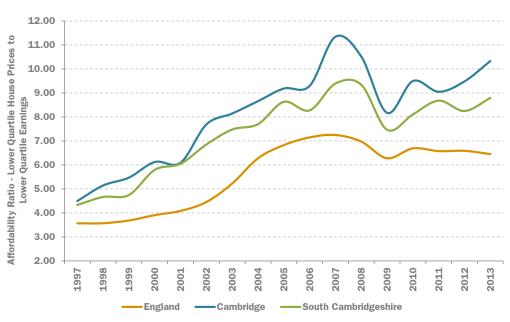


Figure 5.3 Affordability Ratio

Source: CLG Live Table 576

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The affordability ratio highlights a significant constraint on people being able to access housing in Cambridge and is indicative of housing market stress, with house price increases far outstripping earnings increases. This is a function of housing demand outstripping housing supply in Cambridge; a market signal that housing delivery in the Cambridge housing market area (and particularly in Cambridge where affordability problems are much more acute) should be increased.

Rate of Development

The rate of development is intended to be a supply-side indicator of previous under-delivery. The PPG sets out that (ID: 2a-019-20140306):

"if the historic rate of development shows that actual supply falls below planned supply, future supply should be increased to reflect the likelihood of underdelivery of a plan"

The rate of development is therefore a market signal relating to the quantity of past under-supply, which will need to be made up. Against this there are two relevant 'planned supply' figures which could be considered: the target within the Cambridge & Peterborough Structure Plan; and the target within the East of England Plan Regional Strategy.

The Cambridgeshire Structure Plan (2003) planned for 32,500 dwellings between 1999 and 2016 (1,911 per annum) in Cambridge and South Cambridgeshire. The East of England Plan (2008) set out a target totalling 36,680 dwellings between 2006 and 2021 (c.2,440 per annum) in Cambridge and South Cambridgeshire.

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The performance of Cambridge and South Cambridgeshire against these relevant housing targets is set out below in Table 5.5.

Table 5.5 Completions against relevant housing target in Cambridge and South Cambridgeshire 1999/00 to 2010/11

		1999/00+ 2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14
	Relevant target	1,470	735	735	735	735	735	1,110	1,110	1,110	1,110	1,110	798	798	798
Cambridge	Completions	325	159	287	505	601	731	629	521	588	288	390	331	482	1208
Samb	Shortfall/ surplus	-1,145	-576	-448	-230	-134	-4	-481	-589	-522	-822	-720	-467	-316	410
	Cumulative shortfall/ surplus		-1,721	-2,169	-2,399	-2,533	-2,537	-3,018	-3,607	-4,129	-4,951	-5,671	-6,138	-6,454	-6,044
<u>e</u>	Relevant target	2,352	1,176	1,176	1,176	1,176	1,176	1,330	1,330	1,330	1,330	1,330	1,341	1,341	1,341
South mbridgeshire	Completions	1,602	525	653	979	571	877	924	1,274	610	611	656	671	587	565
South nbridge	Shortfall/ surplus	-750	-651	-523	-197	-605	-299	-406	-56	-720	-719	-674	-670	-754	-776
Car	Cumulative shortfall/ surplus		-1,401	-1,924	-2,121	-2,726	-3,025	-3,431	-3,487	-4,207	-4,926	-5,600	-6,270	-7,024	-7,800
	Relevant target	3,822	1,911	1,911	1,911	1,911	1,911	2,440	2,440	2,440	2,440	2,440	2,139	2,139	2,139
	Relevant target		1,911	1,911		, , , , , , , , , , , , , , , , , , ,			2,440		2,440	2,440		2,139	2,139
HMA	Completions	1,927	684	940	1,484	1,172	1,608	1,553	1,795	1,198	899	1,046	1,002	1,069	1,773
Ī	Shortfall/ surplus	-1,895	-1,227	-971	-427	-739	-303	-887	-645	-1,242	-1,541	-1,394	-1,137	-1,070	-366
	Cumulative shortfall/ surplus		-3,122	-4,093	-4,520	-5,259	-5,562	-6,449	-7,094	-8,336	-9,877	-11,271	-12,408	-13,478	-13,844

Source: Various AMR's and NLP analysis

The clear implication of this is that the rate of delivery in the Cambridge housing market area has fallen significantly short of planned supply, by some 13,844 units since 1999/00. This has fundamentally contributed towards the other housing market signals which indicate that there has been increasing stress in the housing market as a product of demand not being met. It is reasonable to assume that the scale of previous under-supply should be added on to future supply in order to reverse trends in the housing market.

Overcrowding

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Indicators on overcrowding, sharing households and homelessness remain unchanged since the previous HETA (2013). As previously identified overcrowding against the occupancy rating in Cambridge is acute, with 14.1% of households living in a dwelling that is too small for their household size and composition. This compares to 8.7% nationally and is an increase on the 12.1% recorded in Cambridge a decade earlier in 2001. Data on homelessness (rates per 1,000 households) show that Cambridge performs worse than nationally in terms of the rate of households in priority need.

Such levels of overcrowding are likely to be implications associated with the scale of affordability problems in Cambridge. Such is the scale of demand for housing within the City, people are either willing to accept sub-optimal living conditions (e.g. living in smaller houses to manage costs) or are forced into accepting such housing outcomes (e.g. are priced out and have to share with friends/family, such as couch-surfing etc.).

Synthesis of Market Signals

Drawing together the individual market signals above begins to build a picture of the current housing market in and around Cambridge, the extent to which demand for housing is not being met and the adverse outcomes that are occurring because of this.

The Cambridge Housing Market

It is clear from this analysis that the Cambridge housing market area faces some significant challenges. The market signals point towards a housing market which is failing to match demand with supply, which is causing problems of affordability, pushing up prices and generating adverse outcomes for people who still need to access the housing market (e.g. through increase overcrowding within the existing stock).

The market signals provide a strong indication of demand and suggest that there needs to be a relatively large improvement in affordability within Cambridge and South Cambridgeshire. The PPG suggests that in such circumstances, there would need to be a larger additional supply over and above demographic-led projections in order to respond to this.

Comparisons with Similar Centres

- 5.52 To update the HETA (2013) the comparison of similar centres research has been updated to take account of updated data on market signals as set out in this chapter. It uses the same comparator locations.
- Table 5.6 sets out a comparison across the range of market signals, with the data underpinning this analysis set out in Appendix 3.

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Table 5.6 Comparison of Cambridge Market Signals

	Land Prices	House Prices		Rents		Affordability R	Ratio	Rate of Development	Overcrowding	J
Rank	£ per ha Bulk Residential Land 2010	Median (2013)	Change % (1996-2013)	Median Monthly Rent Q1 2014	Change % (Q2 2011-Q1 2014)	Ratio 2013	Change (1998-2012)	Shortfall of Supply	% of Housing Over- Occupied	Change 2001-2011 (% points)
1	Cambridge	Cambridge	Cambridge	Oxford	Crawley	Cambridge	Southend	Harlow	Cambridge	Peterborough
2	Oxford	Oxford	Southend	Cambridge	Reading	Oxford	Chelmsford	Ashford	Oxford	Reading
3	Chelmsford	Chelmsford	Norwich	Crawley	Crawley Milton Keynes Chelmsford Norwich Chelmsford		Reading	Ipswich		
4	Norwich	Basingstoke	Chelmsford	Reading	Reading Norwich Ashford Peterborough Cambridge		Harlow	Crawley		
5	Ipswich	Reading	Milton Keynes	Basingstoke	Basingstoke Stevenage Basingstoke Cambridge Peterborough		Crawley	Oxford		
6	Stevenage	Crawley	Oxford	Milton Keynes	Ashford	Reading	Milton Keynes	Stevenage	Southend	Cambridge
7	Basingstoke	Ashford	England	Chelmsford	helmsford Cambridge Harlow Harlow England Mil		Milton Keynes	Milton Keynes		
8	England	England	Peterborough	Harlow	Harlow Ipswich Crawley Stevenage C		Oxford	England	Southend	
9	Peterborough	Southend	Ipswich	Stevenage	Southend	Southend	Ashford	Milton Keynes	Ipswich	Harlow
10	~	Milton Keynes	Reading	Ashford	Peterborough	Stevenage	Reading	Norwich	Peterborough	England
11	~	Harlow	Stevenage	Southend	Oxford	Milton Keynes	England	Southend	Stevenage	Stevenage
12	~	Stevenage	Ashford	England	England	England	Ipswich	Ipswich	Norwich	Chelmsford
13	~	Norwich	Crawley	Norwich	Harlow	Norwich	Crawley	Reading	Chelmsford	Basingstoke
14	~	Ipswich	Basingstoke	Peterborough	Basingstoke and Deane	Ipswich	Basingstoke	Basingstoke	Basingstoke	Norwich
15	~	Peterborough	Harlow	Ipswich	Chelmsford	Peterborough	Oxford	Crawley	Ashford	Ashford
•										
Source:	VOA Property Market Report (Note some areas not covered)	CLG Live Table 5	86	VOA Private Marke	VOA Private Market Rental Statistics		CLG live Table 576		CLG Live Table 122 / Regional Strategy Target for 2006-2012 Census 2001/2011	

The comparative assessment of market signals highlights the scale of housing market stress within Cambridge and the Cambridge housing market area.

Across the ten indicators presented in Table 5.6, Cambridge is performing worse than the national average on all of them. This provides a strong justification for increasing the baseline demographic assessment of need within Cambridge in order to address consistently poorly performing market signals.

Overall, Cambridge performs worst of all comparator centres within five of the ten indicators, and second worst on another (only behind Oxford). Fundamentally the market signals taken together indicate a significant affordability constraint in Cambridge and much greater demand than previous and current supply. The PPG, as well as general economic principles, point towards such factors meaning additional supply, over and above that solely needed by demographic change, should be delivered in order to address affordability and reverse such adverse housing market trends in the housing market area.

The amount that supply should be increased by is not definitive. The PPG indicates that it should be "an amount that, on reasonable assumptions and consistent with the principles of sustainable development, could be expected to improve affordability" (ID: 2a-020-20140306).

Affordable Housing Needs

This scenario remains unchanged from the HETA (2013) report. Based purely on the need for affordable housing in Cambridge and South Cambridgeshire, the 2013 SHMA indicates that Cambridge alone has an affordable housing need of 17,131 dwellings between 2011 and 2031 with South Cambridgeshire requiring 11,383 over the same period. This totals a need for 28,514 affordable dwellings in the two authorities between 2011 and 2031. If we use the generous assumption that affordable housing is delivered at 40% of total housing completions, this equates to need to deliver 3,565 dwellings per annum in total, or 71,300 over the plan period 2011 to 2031.

Economic-led Needs

A further component of the HEaDROOM framework is based upon an understanding of the relationship between housing and employment. Although there are a complex set of issues involved in matching labour markets and housing markets (with different occupational groups having a greater or lesser propensity to travel to work), there are some simple metrics that can explore the basic alignment of employment, demographic and housing change, notably the amount of housing needed to sustain a given labour force assuming certain characteristics of commuting and employment levels.

Ensuring a sufficient supply of homes within easy access of employment opportunities represents a central facet of an efficiently functioning economy and can help to minimise housing market pressures and unsustainable levels of commuting (and therefore congestion and carbon emissions). If the objective

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of employment growth is to be realised, then it will generally need to be supported by an adequate supply of suitable housing. The challenge of meeting employment needs is clearly given a heightened importance as a result of the need to secure economic growth out of recession, and the NPPF highlights this by stating that planning should "do everything it can" to support economic growth.

The economical led (job growth) scenarios are based around a given jobs target which is constrained in the POPGROUP modelling. Migration is adjusted so that the labour force is sufficient to support the required level of job growth, taking into account changes in age-specific economic activity rates associated with the increase in pension age and assuming current levels of commuting remain constant. Unemployment rates are also accounted for. This population is translated into households to arrive at a total dwelling requirement under the given job scenario. The level of housing produced from the scenarios is therefore the number required to sustain the job/economic growth.

Economically Led Scenarios

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In this report the following two jobs-led scenarios are modelled:

- Scenario D: CCC Technical Report Jobs based on the delivery of 44,000 jobs in Cambridge and South Cambridgeshire between 2011 and 2031 as identified in the CCC Technical Report; and
- **Scenario E: Oxford Economics** taken from an Oxford Economic Job forecast for each District from 2011-2031 (annualised job growth).

Scenario D. CCC Technical Report Jobs

This scenario is an update to the previously modelled Scenario C in the HETA (2013) report. The scenario constrains the jobs figure over the period 2011 to 2031 to the job forecast in the CCC Technical Report (44,000 jobs in the HMA). The outputs of the modelling indicate that a level of job growth akin to 44,000 would require a significantly greater population increase and as such a greater quantity of additional housing. In NLP's modelling, to underpin this level of job growth in the HMA there would need to be an increase in population of 79,750 people between 2011 and 2031, compared to CCC's projected 65,000 increase. As described in the previous HETA (2013) report, it is assumed that different methodologies have been used in relation to the calculation between population and jobs.

The dwelling requirement under this scenario equates to 39,739 additional dwellings required in the HMA when utilising indexed headship rates. Using full catch up headship rates the number of additional dwellings increases to 42,783.

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Table 5.7 Outcomes of Scenario D.

	Population	Jobs	i. Dwellings (under indexed headship projections)	ii. Dwellings (under catch-up headship projections)
Cambridge	30,694	22,005	14,616	15,969
South Cambridgeshire	49,056	21,997	25,123	26,814
Cambridge & S. Cambs	79,750	44,003	39,739	42,783

Source: NLP Analysis

Scenario E. Oxford Economics

The September 2013 HETA modelled an EEFM (2013) economic forecast. As a new iteration of the EEFM forecast are yet to be published, and Oxford Economics Forecast has been used as an update to this scenario. Oxford Economics has been selected in the absence of an EEFM 2014 update because the forecasts use macro-economic assumptions that broadly align with those that are used for EEFM forecasting.

Similarly to Scenario D above, this scenario uses a figure for additional jobs as the starting point; the Oxford Economics assumes average job growth between 2014 and 2031 of 1,899 across the HMA. Data on the level of job growth in 2012 and 2013 has already been ascertained. This forecast represents an unconstrained estimate of how the HMA could perform in the future based on Oxford Economics projections.

The population required under the NLP modelling to support this level of job growth surpasses that which the CCC Technical Report deemed necessary to support 44,000 jobs by circa 5,500 people, despite representing a more conservative job growth scenario. This highlights the flaws in the CCC Technical Report's assumptions on translating jobs to population to housing.

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Table 5.8 Outcomes of Scenario E.

	Population	Jobs	i. Dwellings (under indexed headship projections)	ii. Dwellings (under catch-up headship projections)
Cambridge	33,233	24,273	15,629	17,041
South Cambridgeshire	35,214	13,645	19,714	21,200
Cambridge & S. Cambs	68,447	37,919	35,344	38,241

Source: NLP Analysis

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Full Objectively Assessed Housing Needs in the Cambridge and South Cambridgeshire HMA

The scenarios outlined above present a range of different housing outcomes based on their principal drivers. The outputs are summarised in Table 5.9. These can be considered together, alongside the analysis of market signals, in order to arrive at a conclusion of demographic-led needs and a further conclusion on full objectively assessed needs.

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Table 5.9 Cambridge and South Cambridgeshire modelling outputs 2011-2031

Scenario:	Demographic Led						Economic Led			
	A. 2012	2 SNPP	в. ссс	Report	C. Long Term Migration Trend		D. 44,000 Jobs		E. Oxford Economics	
Headship Rate:	'Index'	'Catch- up'	'Index'	'Catch- up'	'Index'	'Catch- up'	'Index'	'Catch- up'	'Index'	'Catch- up'
Pop. Change	+43	,461	+65,000 +59,991		,991	+79,750		+68,447		
of which Natural Change	+24,174		+24	,174	+27,384		+30,121		+28,280	
of which Net Migration	+19,287		+40,826		+32,607		+49,629		+40,167	
Household Change	+23,940	+26,227	+34,539	+37,255	+30,638	+33,222	+38,262	+41,189	+33,984	+36,767
Dwelling Change	+24,824	+27,203	+35,889	+38,714	+31,825	+34,513	+39,739	+42,783	+35,344	+38,241
Dwellings p.a.	+1,241	+1,360	+1,794	+1,936	+1,591	+1,726	+1,987	+2,139	+1,767	+1,912
Labour Force	+14	+14,003 +28,716		,716	+24,318		+35,602		+28,650	
Jobs	+16	,758	+36,168		+30,691		+44,003		+37,919	
Jobs p.a.	+8	338	+1,808 +1,535		+2,200		+1,896			

Source: NLP Analysis using POPGROUP

- Drawing upon the above scenarios and analysis of market signals, we can arrive at a conclusion on full objectively assessed needs for The Cambridge and South Cambridgeshire HMA. In line with the PPG we consider the various steps as follows:
 - The Starting Point: Demographic Needs The CLG 2011-based а household projections indicate household growth of 972 per annum in South Cambridgeshire but a decline of 145 dwellings per annum in Cambridge. It is clearly not realistic to assume households declining at such a rate in Cambridge. As such we have updated this to take account of more recent data, including the 2012-based SNPP. The outputs produced by NLP indicate that the baseline demographic needs for the HMA point towards a 1,241 dwellings per annum under the indexed approach and 1,360 under the full catch up projections. However, CCC's own research questions the reliability of these projections for the HMA. It is clear that the 2012 SNPP projects that migration will be lower in the HMA than has been seen in the last ten years, so planning towards this figure should be assessed with caution. As such, due to the more realistic local demographic factors underpinning the CCC Report scenario, this scenario is considered to represent a more realistic baseline demographic need. This requires the delivery of 1,794 dwellings per annum under the indexed approach to sustain the modelled level of demographic growth.
 - b **Economic needs and Alignment** The NPPF highlights the importance of supporting economic growth by stating that planning *should "do everything it can"* to support growth. It is considered that Scenario D (drawn from the CCC Technical Report Jobs figure and as targeted within the emerging Plans) represents a realistic assessment of the economic potential of the HMA. Under this scenario there is an annual need of 1,987 to 2,139 dwellings, suggesting an uplift on the housing needs indicated by just demographic-led projections.
 - Affordable Housing Needs Affordable housing need is far in excess of purely demographic-led needs and is indicative of the scale of backlog and affordability pressures faced by the HMA. The affordable housing scenario indicates 1,426 affordable dwellings per annum would need to be provided. The total level of housing needed to deliver sufficient housing for all housing needs, if we assume delivery of affordable housing at a generous 40%, would be 3,565 per annum.
 - d Market Signals The market, economic and affordable housing 'signals' all indicate that to meet full housing need and demand in the HMA a level of delivery in excess of purely demographic-led needs is required. On this basis it is considered an upward adjustment above demographic-led needs is appropriate in identifying a full objective assessment of need. A reasonable uplift factor on purely demographic needs (1,794) is considered to be outputs of the CCC Technical Report Jobs figure scenario. This equates to between 1,987 and 2,139 dwellings per annum. The level of housing required to support forecast job growth in this area

would suggest that target figures should be aimed towards the top of this range. Modelling a full catch up rate implicitly assumes that all households which have been unable to form in recent years will be caught up. As such, NLP concludes that the full objective assessment of housing need for the HMA over the period 2011-2031 is considered to be 2,139 dwellings per annum. This would also help contribute to the requirement of affordable housing within the HMA.

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The market, economic and affordable housing 'signals' all indicate that to meet full housing need and demand in the Cambridge and South Cambridgeshire HMA a level of delivery in excess of purely demographic-led needs will be necessary. On this basis it is considered an upward adjustment above demographic-led needs is appropriate in identifying a full objective assessment of need. A reasonable uplift factor is considered to be to the CCC Technical Report Jobs figure scenario. The level of housing required to support forecast job growth in this area would suggest that target figures should be aimed towards the top of this range and as such the full objective assessment of housing need for the HMA over the period 2011-2031, is considered to be 2,139 dwellings per annum. This would also help contribute to the requirement of affordable housing within the HMA. By way of comparison, if the backlog of housing need at the start of the modelling (11,271 dwellings) was combined with the purely demographic led needs (1,794 dwellings per annum), this would equate to a need for 2,358 dwellings per annum, a figure which is not too far removed from NLP's concluded objective assessment of housing need for the HMA.

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Duty to Co-Operate and Unmet Need

Unmet needs in Cambridgeshire

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The adequacy of the Cambridge sub-region SHMA (May 2013) has been examined as part of the East Cambridgeshire Local Plan examination. The Interim Conclusions of the Inspector (July 2014) set out at paragraph 16, 17 and 18 set out that it was acceptable for East Cambridgeshire to not be planning to meet its objectively assessed housing needs because of the following intention of the SHMA:

"In summary, the intended approach seeks to secure sustainable development by locating new homes in and close to Cambridge and Peterborough and other main centres of employment, while avoiding dispersed development that could increase unsustainable travel patterns and restrict access to key services and facilities. Implementation of the strategy is already underway, with new urban extensions being delivered in Cambridge and Peterborough.

In practical terms, the MoC includes an agreement that two of the authorities concerned (East Cambridgeshire and Fenland District Councils) should not provide for the full need identified in the SHMA. In the case of East Cambridgeshire, this represents a reduction of 1,500 dwellings from the 13,000 dwelling total (2011-2031): the corresponding figure for Fenland is 1,000. The MoC states that an equivalent figure of 2,500 dwellings has already been provided for outside the Cambridge HMA in Peterborough's Local Plan."(NLP emphasis)

- Peterborough City Council confirmed as part of the examination that they were 'willing to accommodate a proportion of the need arising in the Cambridge HMA namely 2,500 dwellings'.
- It is clear from the above that Peterborough City Council is planning to deliver more than its own objectively assessed housing needs and as such is stating it will meet some of the unmet housing needs of East Cambridgeshire and Fenland. There is no indication that the city is planning to accommodate the needs of any other location within the Cambridge sub-region.
 - In addition to the fact that Peterborough are not explicitly planning to meet any of Cambridge and South Cambridgeshire's housing needs, it would also not be plausible for them to do so. This is because the economic led needs of Cambridge should only be met within the Cambridge HMA, including Cambridge and South Cambridgeshire. However, this is not to say that the Cambridge and South Cambridgeshire HMA is not impacted by other HMAs, including London.

London Unmet Housing Needs

The draft Further Alterations to the London Plan (FALP) sets out a planned provision of 42,000 dwellings per annum within London. But this falls short of

the 49,000 to 62,000 dwellings per annum needs identified within the 2013 London Strategic Housing Market Assessment (SHMA) as required to meet future needs and address the backlog of housing needs. The draft FALP is therefore planning for an unmet need of between 9,000 and 20,000 homes per annum. This unmet need may manifest itself in Local Authority areas near to London as households unable to meet their needs in London itself seek to move elsewhere in the housing market area which London influences. Recognising this, the NPPF requires such needs to be met in accordance with the duty to cooperate, with areas surrounding London having to meet London's unmet needs.

Defining London's Housing Market Area

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In defining London's housing market area, consideration has been given to functional linkages between places where people live and work. These commuting and migration linkages have been quantified to establish the different degree of relationship that local authorities have with London. The analysis undertaken for commuting and migration patterns has been quantified to establish individual local authority links with London and defines a 'base share' of London's modelled unmet needs as a result.

In total over 720,000 of London's 3.8 million jobs at the time of the Census 2001 were filled by in-commuters (19%). Through this dynamic, London's continued growth and economic vitality is placing pressures on local housing markets in areas where there is good commuter access. The areas highlighted in Figure 6.1 below broadly show the extent of London's reach, showing the proportion of a Local Authority's population that commutes to London for work. It is clear from the map below and NLP's above housing market area analysis, that Cambridge and South Cambridgeshire's commuting relationship with London is significant.

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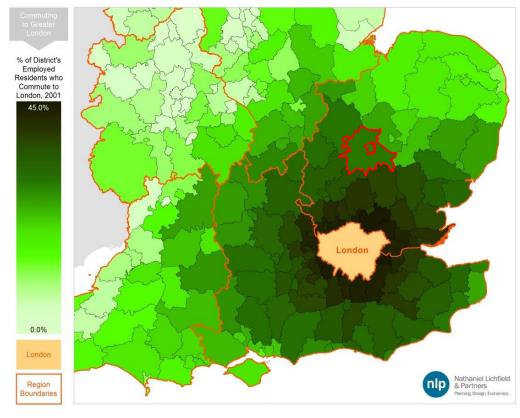


Figure 6.1 Proportion of District's employed residents commuting to London

Source: Census 2001

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London and the wider South East have a distinct pattern of migration. Whilst inner London attracts in-migration from far and wide (including internationally) thereafter there is a radial shift outwards from inner London as people move to outer London, the traditional 'home counties' and then beyond reflecting different stages of life and living preferences. Net migratory patterns with London are shown in Figure 6.2. Broadly, net outwards shifts in migration from London are experienced to a boundary which includes Cambridge and South Cambridgeshire. This net migratory pattern provides an indicator of the extent of London's HMA and the spatial extent of the geography which London's unmet housing needs might impact upon.

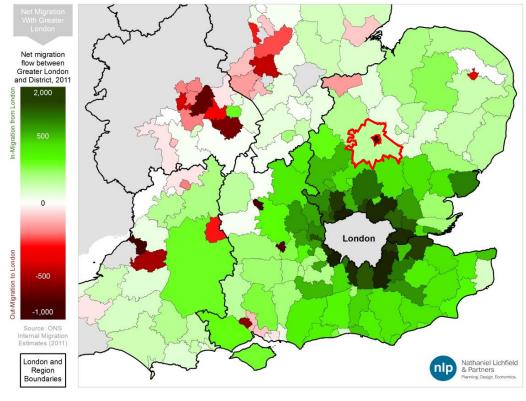


Figure 6.2 Net Migration Flows with London

Source: ONS

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Quantifying the degree of housing market interdependence between Cambridge, South Cambridgeshire and London

In simple terms, unmet housing needs from within London will place additional pressures on those areas that are linked in housing market terms to London. This is because an undersupply of housing within a London Borough will mean, compared to past trends, either more migration out of the London Boroughs (as people move to seek a home) or less migration to the London Boroughs (as people cannot find a home in London to move to, and therefore choose a different location but commute to a place of work). Areas that are heavily related to London will face greater pressures from London's unmet needs. Identifying how interdependent a location is with the housing market within London is a function of movement, both to live (migration) and to work (commuting). As shown above all three authorities have strong linkages in both respects.

These functions of movement have been converted into a simple percentage of what proportion of the migration flow into the HMA from London or commuting flow out of the HMA to London is with that District. Averaging these gives a percentage for each District in the wider London HMA, adding up to 100% for the whole HMA. This percentage represents the baseline degree of housing market linkage an area has with London, and therefore is representative of its 'starting share' of London's unmet needs which will need to be met in the London HMA. This is illustrated in Figure 6.3. Based on the above migration

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and commuting analysis Cambridge should proportionately be taking 1.1% of London's unmet housing needs and South Cambridgeshire 0.5%. With London's unmet need noted in the draft FALP to be anywhere between 9,000 and 20,000 per annum, this would put pressure on Cambridge to supply an additional 990 (99 p.a.) to 2,200 (220 p.a.) dwellings each and South Cambridgeshire to supply an additional 450 (45 p.a.) to 1,000 (100 p.a.) dwellings; based on accommodating their respective share over the 10 year plan period of the FALP (2015-2025). This would be in addition to the authorities own objectively assessed housing needs, which themselves already account for ambient migration flows from London, which would increase if London cannot meet its own needs.

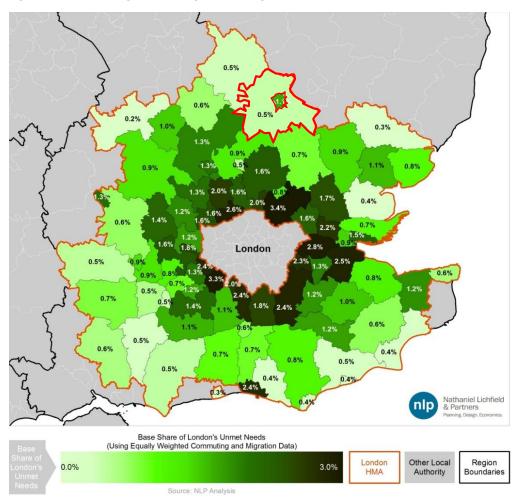


Figure 6.3 Baseline degree of housing market linkage - 'base share'

Source: NLP analysis

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The above figures of unmet needs from London are in fact likely to be an underestimate. The London SHMA's adoption of the Central Variant, represents a reduction on the equivalent migration assumptions underpinning the SNPP, this essentially means that London's objectively assessed needs are founded on a different basis to those elsewhere. The key to this is that adopting lower migration trends for London will commensurately inflate migration trends in those locations beyond London with a migratory

relationship to the Capital. This is recognised in the PPG which states (ID: 2a-018-20140306):

"Any cross-boundary migration assumptions, particularly where one area decides to assume a lower internal migration figure than the housing market area figures suggest, will need to be agreed with the other relevant local planning authority under the duty to cooperate. Failure to do so will mean that there would be an increase in unmet housing need."

The SHMA does not appear to assess the implications of this, and it brings into question the consistency of the SHMA as an evidence base to be considered alongside SHMAs produced for localities on the fringes of London. The outcome is that:

a London is reducing its migration trend;

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- b Other areas are not commensurately increasing their migration trends; and
- Therefore population (and thus housing needs) get 'lost' between the gaps in the respective methodologies adopted.

Implications of Wider Factors

This clearly demonstrates that the level of housing need which Cambridge and South Cambridgeshire could need to plan for may be influenced significantly by wider factors and relationships with areas beyond its own administrative boundaries, notably that with London.

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Conclusion on Full Objectively Assessed Need

A variety of scenarios have been presented to assess the objective need for housing within both Cambridge and South Cambridgeshire. The 2012 SNPP scenario indicates lower housing requirements as estimates of migration are significantly lower than was seen across the HMA over the previous 10 years (evidenced by Scenario C). Therefore adoption of this as the demographic-led need for Cambridge and South Cambridgeshire should be considered with caution. Finally, the market signals would suggest further upward adjustment on the purely demographic based housing need figure. This adds further justification to the conclusion of an objective assessment of housing need figure for the HMA comparable with the 44,000 jobs figure.

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As the PPG states that development should do 'everything it can' to support economic growth, and given the CCC Technical Report Jobs Forecast projects 44,000 jobs growth across the HMA (a figure which a realistic assessment of the economic potential for the HMA), the housing requirement should be akin to the outputs of this scenario. This would also go some way to meeting the affordable housing needs across the Districts.

This would meet demographic need, support economic growth, help meet affordable housing need, and help improve market signals, dealing with the significant backlog of housing needs that has been identified. On this basis it is considered full objectively assessed for the District are 2,139 dwellings per annum over the period to 2031.

The outputs of the 44,000 jobs scenario indicates that under the indexed projection there is a need for circa 2,000 dwellings per annum to sustain this level of job growth (between the indexed and partial catch up headship rates which are fairly similar). Using full catch up headship rates the requirement increases to 2,139 dwellings per annum. Modelling a full catch up rate allows all of the previously supressed household (between the 2008 and 2011 based household projections) to be made up. this does not implicitly include all backlog identified in this report because the 2008 based household projections were themselves based on a period of undersupply and therefore supressed household formation. As such NLP conclude that the objective assessment of housing need for Cambridge and South Cambridgeshire is 2,139 dwellings per annum.

In addition, NLP would advocate a stepped trajectory which, overall, averaged delivery of 2,139 dwellings per annum over the 20 year period between 2011 and 2031 but front loaded delivery. Although our objective assessment of housing need figure implicitly includes backlog of housing need, as required by the PPG, this must be met in the first five years of the plan period. As such the first five years of the plan period should have a target which is commensurately greater than the remaining 15 years to take account of both the backlog of

hosing need as well as to support the immediate economic potential of the area with a front-loading of job creation across the period apparent (see Part A).

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Part C – Delivery of the Spatial Strategy

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Infrastructure Delivery and Supporting the New Settlements

The NPPF sets out that LPAs should identify land supply in order to meet their objectively assessed need and that this should be based upon (para 159) realistic assumptions about the availability, suitability and economic viability of land over the plan period. The NPPF is clear that plans should be deliverable (para 173), and national policy states that in plan-making it is 'important to ensure that there is a reasonable prospect that planning infrastructure is deliverable in a timely fashion.' (para 177). Critically the overall soundness of the spatial strategy set out for Cambridge and South Cambridgeshire is directly related to its ability to deliver the growth necessary to meet needs in a timely and sustainable manner.

Over 1/3 of the 33,000 dwellings for the Cambridge HMA are planned to be provided within new settlements. These encompass planned delivery at:

- Northstowe 9,500 dwellings of which 3,535 dwellings to be provided within the Plan Period to 2031, with first start in 2014/15;
- Cambourne 2,193 dwellings to be provided within the Plan Period across the original permission, the permission of 950 additional dwellings (first start in 2012/13) and a 1,200 dwelling strategic site on land West of Cambourne (first start in 2016/17);
- Waterbeach 8,000 dwellings of which 1,400 dwellings to be provided within the Plan Period to 2031, with first start in 2026/28; and
- Bourn Airfield 3,500 dwellings of which 1,700 dwellings to be provided within the Plan Period to 2031, with first start in 2022/23.

However, new settlements in particular face a range of deliverability challenges, including long lead-in times, reliance on 'big-ticket' up front infrastructure items and limits to build-out rates. These are considered as follows.

Lead Times and Build out Rates

The key issues of lead-in times and build out rates were explored within the original HETA (September 2013), but remain highly pertinent to the deliverability of the spatial strategy, which places a great reliance on being able to deliver new settlements quickly and at sustained levels of high delivery.

New settlements typically experience long lead-in times, with long periods between initial identification/promotion, allocation and then development getting off the ground, with houses being completed on site. They are not a short-term or quick solution to housing land supply. This is usually as a result of the new or major upgrades required to the surrounding infrastructure. By way of example both Northstowe and Cambourne faced lead-in times of between 10 and 12 years between identification and delivery. The implication

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for the Plans is that it is unlikely they will be able to expedite delivery of the new settlements, albeit their ultimate delivery will be linked to key infrastructure triggers, discussed below.

The rate at which a scheme is built out is dependent on a number of factors, including the type/mix of the scheme, how many developers are active on the site and the market capacity of an area (i.e. how quickly the housebuilder can sell the homes built). Assumptions about future rates of delivery therefore need to be realistic in the context these factors. It was concluded in the HETA (September 2013) as part of CEG's original representations that there was no evidence that build-rates substantially in excess of 250 dwellings per annum would be achievable within any single site or location within the Local Plan period (a rate comparable to what has been achieved historically in Cambourne). This remains the case and is imperative as the most recent trajectories for South Cambridgeshire's housing delivery continue to assume build-out rates for the new settlements substantially in excess of this (at up to 400 per annum).

Infrastructure Delivery and Trigger Points

The Cambridge and South Cambridgeshire Infrastructure Delivery Study (IDS) Update (Final Report – Amended), August 2013 identifies a significant number of high cost transport and access infrastructure schemes that are 'critical' to the delivery of the proposed development strategies with the Cambridge and South Cambridgeshire plans. However, whilst the IDS identifies these items are needed, there is no correlating technical evidence in the emerging Transport Strategies for Cambridgeshire that demonstrates that these schemes deliver the necessary sustainable transport outcomes or indeed that they can be delivered in the timescales needed. By way of illustrating this, evidence in Figure 9.1 below prepared by Bryan G Hall, sets out the proposed delivery trajectory for the four new settlement proposals contained within the submission South Cambridgeshire Local Plan (SCLP Figure 3, p39), updated by reference to the SCDC Annual Monitoring Report 2012-2013 (February 2014, Figure 4.7, p31).

Against that it plots the key items of infrastructure and their phasing. This is drawn from the Councils' own existing evidence contained within the Cambridge and South Cambridgeshire Infrastructure Delivery Study (IDS) Update (August 2013). This, however, assumes that the A14 Cambridge to Huntingdon improvement scheme is to be delivered by 2019, however due to the complexity of the scheme, it is considered that a more realistic delivery timescale for the project is 2022/2023.

The main trigger point for that infrastructure within each of the new settlement developments illustrated by the dashed line. In essence, an infrastructure item to the left of the line will be provided in time for the trigger point, however, an infrastructure item to the right of the line will not be provided in time to support the delivery of the development trajectory.

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Figure 8.1 Infrastructure Delivery - Tipping Points and Development Trajectory

Total (Excluding A14 scheme)

Housing Completion Projectory (Ref: SCLP Housing Trajectory (SCLP Figure 3, p39), updated by reference to the SCDC Annual Monitoring Report 2012-2013 (February 2014, Figure 4.7, p31)

£537,000,000

	Strategic New Settlement Sites		14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	Total
																			\longrightarrow	
	Northstowe		0	64	230	254		400	400	400		400	400	400	400	400	400	400	400	5681
	Waterbeach New Town		0	0	0	0	0	0	0	0	0	_	0	0	100	200	300	400	400	
	Bourn Airfield New Village		0	0	30	70	100	150	0	150	60 150		220 150	220 100	220	220	220	220	220	1700 1200
	Cambourne West Projected Completions Total		0	64		324		150 550	150 550	150 550		150 650	770	720	720	820	920	1020	1020	9981
	Cumulative total		223			871	1304	1854	2404	2954	3564	4214	4984	5704	6424	7244	8164	9184	10204	9901
	Cumulative total		223	207	347	8/1	1304	1034	2404	2334	3304	4214	4304	3704	0424	- /244	8104	3104	10204	
IDS Appendix C	Critical Transport and Access Infrastructure							!								1				
Reference	Scheme	nfrastructure Costs														-				
																I				
60	A14 Silicator A - Aditor Incompany	£1 F00 000 000																		
60	A14 Ellington to Milton Improvements ¹ Oakington Bypass (Northstowe) ²	£1,500,000,000 £15,000,000														-			$\overline{}$	
n/a n/a	Northstowe Access Works ²	£6,000,000														-				
		,,														-				
n/a	Busway Extension to Northstowe ²	£10,000,000														_			$\overline{}$	
1001	1,000 space P&R at Waterbeach ³	£12,000,000														-				
1006	Milton Road bus lane ³ A14/A10 Milton Interchange works, including free flow slips between A10 north and A14	£29,000,000												0(((((_				
1004	west ³	£86,000,000																		
2001	A 2 platform 12 carriage railway station to serve Waterbeach village and the new town at													5111511151115111511151115		1				
1000	Waterbeach Barracks ³	£42,000,000																		
	Dual carriageway, Waterbeach Barracks (Cambridge Research Park) to A14 Milton																			
1003	Interchange ³	£79,000,000											1							
	8-10 km segregated busway - from new station to town centre and on to north Cambridge,							•												
1002	with spur to Park and Ride Site ³	£125,000,000											1			l l				
1005	High quality pedestrian and cycle links to Cambridge and surrounding villages ³	£16,000,000											1			ı				
1502	Relocated railway station ³	£20,000,000														1				
	A1303 inbound bus priority, A428 to M11 in Cambourne West, Cambourne and Bourn															_			811811811181181181	
1008	Airfield ³	£14.000.000																		
1000	A1303 Madingley Road inbound bus priority, M11 to Quuens Road in Cambourne and	224,000,000																		
1009	Bourn Airfield ³	£31,000,000						:												
1010	1000 space Park & Ride site, Bourn Airfield/Cambourne area 3	£12.000.000						•												
1010	Busway/bus priority links from the A428/A1198 Caxton Gibbet junction through West	112,000,000												+					\longrightarrow	
	Cambourne, Cambourne and Bourn Airfield, linking to the A1303 at its junction with the																			
1007	A428 ³	£30,000,000																		
	High quality pedestrian and cycle links to Cambridge and surrounding villages (Cambourne																			
1011	West, Cambourne and Bourn Airfield) ³	£10,000,000																		
	Total (Evaluding A14 cehomo)	CE 27 000 000																	$\overline{}$	

Key

Estimated Earliest Opening dates of Transport and Access Infrastructre taken from Cambridge and South Cambridgeshire Infratructure Delivery Study Update (Final Report - Amended)

Schemes required to support major development allocations at Northstowe that come forward <u>before</u> the trigger point Schemes required to support major development allocations at Waterbeach that come forward <u>before</u> the trigger point	
Schemes required to support major development allocations at Cambourne West and Bourn Airfield that come forward b	efore the trigger point



Estimated Housing Completion Trigger Points for supporting Transport and Access Infrastructure based upon development requiring planning permission adding greater than 30 two-way vehicle trips per hour to the network with severe capacity contraints 4 30 two way trips is the threshold above which it is recommended a Transport Assessment is carried out (Ref: Department for Transport Assessment)

⁴ Pg 42 Of Appendix 3







Northstowe

Waterbeach

Cambourne West & Bourn Airfield

Source: Bryan G Hall

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¹ Infrastructure Costs taken from Highways Agency Website - A14 Cambridge to Huntingdon Improvement Scheme

² Infrastructure Costs taken from Table 6 Traffic Management and Infrastructure Assessment Note prepared by Bryan G Hall at Appendix F of Cambridge South East, Transport Evidence Base Appendices dated September 2013

³ Infrastructure Costs taken from Cambridge and South Cambridgeshire Infratructure Delivery Study Update (Final Report - Amended) dated August 2013 prepared by PBA

^{*} Further explanatory text to this table is provided in paras 2.6 to 2.12 of Matter 5 Statement

- What the above shows is that across all the new settlements, there is infrastructure which the Councils deem 'critical' to the delivery of these new settlements (as evidenced in the IDS) which will not be delivered until after the relevant trigger point within the currently assumed delivery trajectory of the schemes. The outcome is that either:
 - The spatial strategy will lead to unsustainable patterns of development, overloading the existing infrastructure at critical 'pinch-points'; or
 - The delivery of new settlements will be delayed in order that the 'critical' infrastructure is delivered in a timely fashion, which will mean that the spatial strategy will fail to meet the overall developments needs of the Plans.
- Thus it appears to demonstrate an inherent contradiction between the Councils' own evidence on the deliverability of critical infrastructure and the timescales for delivering the new settlements which the spatial strategy is reliant upon.

Uncertainty on Funding and Delivery

- The above analysis is predicated on the assumptions that all of the identified infrastructure schemes face no problems with funding. It essentially assumes a best case scenario that all schemes will be ultimately delivered. Notwithstanding, there remain significant uncertainty of the availability of funding to deliver these 'critical' infrastructure items.
- The Cambridgeshire County Council Long Term Transport Strategy
 Consultation Draft (LTTS) (April 2014) acknowledges that securing funding to
 deliver the Transport Infrastructure Strategy may be difficult and will be
 challenging (Page 5-1). An important element of this funding strategy is the
 City Deal funding that could be delivered in three tranches with £100 million
 available in the period 2015-2020, up to £200 million available 2020-2025 and
 up to £200 million available post 2025. (Ref p 3-5, Transport Strategy, Pg 5-2
 LTTS). The Greater Cambridge City Deal aims to create an infrastructure
 investment fund to accelerate delivery of planned houses and create new jobs
 by providing borrowing powers for the local authorities to invest in transport
 infrastructure and housing which is to be repaid through local retention of a
 share of additional tax revenue generated.
- The various tranches of funding will be dependent upon meeting targets and there is no guarantee that funding will be granted for Tranches 2 and 3. The published City Deal documents are vague and there is a lack of transparency and detail on the triggers for obtaining funding. An example of this was recently presented by Graham Hughes of Cambridgeshire County Council at the Chartered Institute of Highways and Transportation (CIHT) 'Growth for Recession' conference held on 11 September 2014.¹⁰

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http://www.ciht.org.uk/en/document-summary/index.cfm/docid/CBADC296-F7E0-4D96-85C704EEEC18CF2E

8.15 The key points on City Deal funding delivery risks are:

- The methodology for establishing the targets to be met to secure funding Tranches 2 and 3 is yet to be determined and agreed between Cambridge City, South Cambridgeshire, Cambridge County Council and Central Government. Meeting trigger points to secure tranches 2 and 3 funding will be challenging as it will be necessary to demonstrate, through economic assessment evidence, that the City Deal has delivered economic growth that would not have occurred in the absence of the City Deal. This methodology is likely to be complex and increases the uncertainty over the chances of Tranches 2 and 3 funding being secured.
- The Tranche 1 funding of £100m (i.e. £20m per year in the period 2015-2020) is still to be allocated to specific schemes. The 5 year period is a relatively short timescale for the delivery of major complex infrastructure schemes that will require a significant amount of resources, further feasibility work, demonstrating scheme value for money, planning permission, acquisition of land and construction programmes. For these reasons there is a high degree of risk and uncertainty that it will not be feasible to deliver infrastructure funded by Tranche 1 yet alone the housing that is dependent upon this infrastructure in the five year period. Hence achieving the challenging Tranche 1 funding deliverables substantially increases the uncertainty of achieving tranche 2 & 3 funding.
- The three Authorities party to the City Deal are Cambridge City, South Cambridgeshire and Cambridgeshire County Council and therefore joint decision making is needed on issues such as strategic planning and transport. It is understood that the proposal is to form a Combined Authority for City Deal decision making and this requires legislative changes.
- Page 5-3 of the LTTS acknowledges that future funding through the Local Growth Fund (LGF) will be subject to competing against other schemes at a national level and demonstrating a case of value for money, delivery and risk. The LGF is a much higher risk funding strategy than the City Deal and this alignment with the higher risk schemes associated with development outside of Cambridge, such as Waterbeach Barracks does not provide a sound evidence base to demonstrate how transport infrastructure will be funded and delivered in a co-ordinated manner.
- The City Deal funding still includes a number of uncertainties over targets, trigger points and governance that will significantly increase the risk that this funding mechanism will not be effective in delivering 'critical' infrastructure in time to deliver the necessary housing and job trajectories that will deliver economic growth and hence increased tax revenues to offset against the borrowing for funding infrastructure. Furthermore the vagueness and lack of detail will not lead to an acceleration in the delivery of new houses under the current spatial strategy that is dependent upon highly complex 'critical' transport infrastructure.

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Implications for the Spatial Strategy

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The spatial strategy for Cambridge and South Cambridgeshire is predicated on the delivery of several new-settlement options which are wholly reliant on some 'big-ticket' infrastructure items in order to deliver them. Over the Plan periods, these new settlements are planned to deliver more than 1/3 of the total development needs of the area and therefore they are fundamental to the spatial strategy.

However, there remain significant uncertainties over their deliverability, which goes to the heart of whether the spatial strategy will effectively deliver the development needed. The main issues can be summarised as being twofold:

- The identified necessary 'critical' infrastructure works for the new settlements will, based on the Councils' own evidence, not be delivered in a timely manner in order to meet crucial infrastructure tipping points and ensure that the new settlements can be delivered at the phasing necessary to meet the development needs; and
- b In any case, there is in fact no certainty over the funding for the necessary 'critical' infrastructure. Funding through the City Deal and Local Growth Fund is unallocated and/or not committed and as such there are no defined delivery mechanisms for the infrastructure necessary to support the new settlements (which are not self-funding in terms of infrastructure).
- The implication of this for the spatial strategy is that is unclear that it is wholly deliverable within the timescales of the respective Plans. The spatial strategy places over-reliance on new settlements as a source of supply over other forms of development which have lower infrastructure thresholds and greater certainty over delivery.

Conclusions on Delivering the Spatial Strategy

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- The Plans reliance upon a spatial strategy which has exceptionally high hurdles for ensuring delivery poses significant questions over whether it is an effective means to meet development needs. The evidence above, combined with that in the original NLP HETA (September 2013), indicates that an alternative strategy involving a greater level of land supply on the edge of Cambridge would represent a more sustainable and deliverable approach to the spatial strategy. This is because:
 - Evidence on the housing market indicates that there are substantial demand pressures upon Cambridge City, with this stemming from the employment growth in the City and peoples desires to live close to where they work and their lifestyle preferences;
 - Urban extension sites provide far better sustainability benefits over new settlements or a dispersal strategy, with development on the fringe of Cambridge minimising travel distances for employment and higher order services and also reduces car borne trips;
 - There is an acute need for affordable housing which can only be achieved by the early delivery of market and affordable housing from sites which do not require significant up front infrastructure; and
 - 4 There are particular deliverability questions over the new settlements as:
 - They face long lead-in times and the current assumptions over the pace of delivery and build-out rates assumed in the Councils' trajectories are overly optimistic, surpassing the rate of delivery achieved in such locations previously;
 - They require a range of 'critical' infrastructure to be delivered up front or early on, albeit these infrastructure items are scheduled to be delivered after key tipping points; and
 - Even then, there is currently no certainty over funding for the critical infrastructure items.
- Overall, it is not considered that the spatial strategy set out within the Plans will be effective in delivering the necessary development in a timely manner to meet needs. Additional allocations on the edge of Cambridge would be able to contribute to supply in the short and medium term and would not face the same reliance on critical infrastructure that the new settlements do.

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Appendix 1 Model Inputs and Assumptions

Component	Scenario A: Demographic-led (2012- based SNPP)	Scenario B: Demographic-led (CCC Technical Report Population Growth)	Scenario C: Demographic-led (10 year Migration trend)	Scenarios D: Economic-led (CCC Technical Report Job Growth)	Scenario G: Economic-led (Oxford Economics Forecast)
Population					
Baseline Population	A 2012 baseline population is taken from the Sub-National Population Projections. This population is split by single year of age and gender.	A 2012 baseline population is taken from the Sub-National Population Projections. This population is split by single year of age and gender. The total population over the projection period is constrained to the total number of people as in the CCC Technical Report.	A 2012 baseline population Projections. This population		
Births	The number of projected births in Horsham from the ONS 2012-based SNPP for 2012 to 2031 is used.		o the population forecast usin onal Population Projections (\$		for Horsham from the
Deaths	The number of projected deaths in Horsham from the ONS 2012-based SNPP for 2012 to 2031 is used.		o the population forecast usin onal Population Projections (\$		s for Horsham from the
Internal Migration	Gross domestic in and out migration flows are adopted based on forecast migration in Cambridge and South Cambridgeshire from the ONS 2012-based SNPP for 2012 to 2031.	Forecast migration from the ONS 2012-based SNPP for 2012 to 2031, albeit this is adjusted to take into account the constraints.	Gross domestic in and out migration flows are adopted based on average gross past trends over the ten year period 2003-2013.	Internal in-migration and (inflated or deflated) to ac number of economically a the level of job growth.	chieve the necessary
International Migration	As above but for international flows	As above but for international flows	As above but for international flows	As above but for internat	onal flows

Component	Scenario A: Demographic-led (2012- based SNPP)	Scenario B: Demographic-led (CCC Technical Report Population Growth)	Scenario C: Demographic-led (10 year Migration trend)	Scenarios D: Economic-led (CCC Technical Report Job Growth)	Scenario G: Economic-led (Oxford Economics Forecast)
Propensity to Migrate (Age Specific Migration Rates)	Cambridge/South Cambrid flows separately) which is a	geshire in the 2012-based S	SNPP. These identify a mig re providing an Age Specific	based upon the age profile of ration rate for each age cohor Migration Rate. This then do for migrants).	ort (for both in and out
Housing					
Headship Rates	government data which wa each year as output by the most up-to-date headship r	s used to underpin the 2011 PopGroup model. These has rates available at the time of sehold projections with full c	-based CLG household fore eadship rates are split by ag writing. Beyond 2021 this is	re forecast over the period to ecasts and applied to the der ge cohort and by household to assumed to resume the loned projections applied to the 2	mographic forecasts for typology. These are the g term trends identified
Population Not in Households		not in households (e.g. those ld forecasts. No change is a		ilarly taken from the assumptor from the CLG identified rate.	tions used to underpin the
Vacancy / 2 nd Home Rate	homes which occur within to vacancy and second home Base (CTB) Data over the	the housing market and mea rate in Cambridge totals 4.8	an that more dwellings than 34% and for South Cambrid . Vacancy data totals from I	enting the natural vacancies/ households are required to r geshire 3.06% - this is estimations 12, 14 and A to L for year en from Line 11.	neet needs. The total ated using Council Tax
Economic					
Economic Activity Rate	At 2011 these have been re Cambridge and South Cam take account of changing p	ebased to the Census 2011 obridgeshire. These are ass	economic activity rates by a sumed to remain the same a ready taken into account in t	ONS 2006-based National I age cohorts to meet current to sthe projection with the exc the ONS 2006-based project	otal economic activity in eption of an adjustment to
Commuting Rate	and South Cambridgeshire each of the areas in 2011,	based on Oxford Economic	s Employment Estimates fo onwards an average of thes	number of jobs in area') is ca r 2011, 2012 and 2013 and t se is taken and trended forwa	the employed people in

Unemployment The unemployment rate uses an ILO base definition using data from the ONS Annual Population Survey estimate of economically active people not in employment. This is estimated at 5.4% in Cambridge and 3.6% in South Cambridgeshire in 2012. A reduction in unemployment to the past average model based unemployment (APS) is assumed on the basis that as the economy grows out of recession unemployment will fall back to a similar rate as seen during the pre-recession period.



Appendix 2 Model Outputs

Scenario A: 2012 SNPP, All Areas

	ation E											artners												
	onents			Change	•		All Are	as																
	Year begin 2011-12			2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
rths	2011 12	2012 10	2010 14	2014 10	2010 10	2010 17	2017 10	2010 10	2010 20	LOLU L	LOLILL	LULL LU	2020 24	202720	LULU LU	2020 27	2027 20	LOLO LO	2020 00	2000 07	LUUT UL	2002 00		
ile	1,697	1,709	1,715	1,695 1,614	1,681	1,682	1,677	1,665 1,586	1,652		1,634			1,609 1,532		1,594		1,581	1,575			1,566 1,491		
male Il Births	3,313	1,628 3,338	1,633 3,348	3,309	1,601 3,282	3,284	1,597 3,275	3,251	3,226		3,190							1,505 3,086	1,500		1,493			
R	1.65	1.68	1.70	1.69	1.69			1.71	1.71		1.71													
irths input	t																							
eaths																								
fale	885	956	926	920	929	929	945	955	958	971	983	997	1,013	1,030	1,049	1,064	1,082	1,105	1,126	1,149	1,172	1,196		
emale	933	1,029	955	955	943		959	961	964		977			1,003				1,062		1,100				
III deaths MR: male	1,818	1,984	1,881	1,876	1,873			1,916	1,922		1,960					2,092								
MR: male MR: femal	86.2 86.9	90.0	84.7 85.4	81.6 83.6	79.7 80.6		75.9 78.0	74.2 76.4	72.0 74.6		69.1 71.7			65.5 67.7				61.4				58.5 60.5		
MR: perso	86.5	91.8	85.1	82.6	80.2	78.4	76.9	75.3	73.3	71.8	70.4	69.1	67.7	66.5	65.4	64.2	63.2	62.3	61.5	60.7	60.1	59.5		
xpectation	81.4	80.7	81.5	81.9	82.2			83.1	83.4		83.9			84.6										
pectatior pectatior	85.0 83.3	84.3 82.6	85.2 83.5	85.4 83.8	85.8 84.1	86.0 84.4	86.2 84.6	86.4 84.8	86.6 85.1	86.8 85.3	87.1 85.6	87.2 85.8		87.7 86.2				88.4 86.9	88.5 87.1	88.7 87.2	88.7 87.3	88.9 87.5		
eaths inp		02.0	03.3	65.0	04.1	04.4	04.0	04.0	00.1	00.0	00.0	00.0	00.0	00.2	. 00.4	00.0	00.7	00.5	07.1	07.2	07.3	07.5		
n-migrati lale	on from th	e UK 11.601	11.331	11.378	11.430		11.461	11.455	11.437	11.429	11.481	11.540	11.597	11.696	11.800	11.912	11.978	12.080	12.197	12.291	12.336	12.411		
emale	11,946	11,601	11,331	11,378	11,430		11,461	11,455	11,437		11,481			11,513		11,912		12,080		12,291	12,336	12,411		
II .	23,392	23,381	22,786	22,837	22,911	22,908	22,906	22,861	22,810		22,835			23,209										
MigR: ma		0.2		0.2	0.2			0.2	0.2									0.2						
MigR: fem		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
figrants in	pat																							
_	ition to the																							
fale	11,818	11,677	11,243	11,229	11,314		11,381	11,374	11,386		11,395			11,453		11,651	11,754	11,863			12,140	12,222		
emale	11,676 23,493	12,060 23,737	11,521 22,763	11,469 22.698	11,464 22,779	11,411 22,780	11,380 22,761	11,338 22,712	11,328 22,714		11,265 22,660			11,286 22,740										
™ MigR:ma	71.1	69.5	66.9	66.6	66.8	66.8	66.7	66.5	66.5		66.4			66.1			66.4	66.6		23,963	66.8	66.8		
MigR: fem	73.7	75.7	72.7	72.5	72.6	72.2	72.0	71.8	71.8	71.7	71.6	71.4	71.1	71.0	71.0	71.1	71.3	71.4	71.6	71.6	71.7	71.8		
figrants in	put																							
n-migrati	on from O	verseas																						
fale	3,055	2,727	2,734	2,727	2,856		2,789	2,724	2,724		2,724			2,724				2,724				2,724		
emale "	2,523	2,160	2,165	2,160	2,241	2,187	2,199	2,158	2,158	2,158	2,158			2,158										
∭ MigR:mai	5,578	4,887	4,898	4,887	5,097	4,956		4,881 0.0	4,881	4,881	4,881	4,881		4,881		4,881	4,881		4,881			4,881		
MigR: fem		0.0	0.0	0.0	0.0			0.0	0.0		0.0			0.0								0.0		
figrants in	put																							
	ition to Ove																							
out-migra Nale	1.911	2.345	2.347	2.349	2.347	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349	2.349		
emale	1,405	1,882	1,884	1,886	1,884	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886	1,886		
M/	3,316	4,227	4,231	4,235	4,231	4,235		4,235	4,235															
MigR: ma MigR: fem	194.9 193.3	236.8 258.3	237.9 261.9	238.2 263.7	237.6 264.9	237.4 266.4	237.3 267.5	237.0 268.5	237.2 269.6		237.6 272.4			237.1 273.7		235.2 272.2		232.4 269.5	231.0 268.2	229.6	228.1 265.0	226.7 263.5		
figrants in		200.0	201.5	200.7	204.5	200.4	207.0	200.0	200.0	210.0	272.4	210.4	270.0	210.7	270.1	272.2	270.0	200.0	200.2	200.7	200.0	200.0		
ligration IK	- Net Flow -101	' S -356	+22	+139	+132	+128	+145	+149	+96	+82	+176	+311	+385	+469	+479	+499	+396	+385	+378	+388	+323	+309		
Overseas	+2,262	+661	+668	+652	+132	+721	+753	+646	+646		+646													
	of popula																							201
latural cha let migrati	+1,495	+1,353	+1,467 +690	+1,433 +791	+1,409			+1,335 +795	+1,304		+1,230			+1,107										+2 +1
let change		+1,658	+2,157	+2,224	+2,408		+2,269	+2,130	+2,046		+2,052			+2,223				+1,951				+1,672		+4
rude Birth	12.07	12.05	12.00	11.77	11.58	11.49	11.37	11.20	11.03		10.76			10.37		10.13		9.91	9.82			9.60		
rude Dea	6.63 7.88	7.16	6.74 2.47	6.67 2.81	6.61 3.52	6.60 2.97	6.61 3.12	6.60 2.74	6.57 2.54	6.59 2.48	6.61 2.77	6.64	6.67 3.43	6.71 3.68	6.76	6.81 3.73	6.88	6.96	7.04	7.14	7.24	7.35 3.00		
idde Neti	7.00	1.10	2.41	2.01	3.52	2.97	3.12	2.74	2.54	2.40	2.11	3.21	3.43	3.00	3.09	3.73	3.37	3.31	3.21	3.20	3.06	3.00		
Summ	ary of F	opulat	ion esti	mates/	orecas	sts																		
	Population																							
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2026	2027	2028	2029	2030	2031	2032	2033	
-4	16,045	16,391	16,528	16,549	16,642			16,605	16,527														15,610	
-10 1-15	16,985 14,252	17,699 14,232	18,277 14,270	18,958 14,201	19,412 14,346		20,250 14,964	20,477 15,470	20,632 16,019		20,734 16,920			20,685 17,634				20,412 17,790				20,090 17,666	20,014 17,610	
6-17	6,242	6,123	6,028	6,038	6,060		5,932	5,964	5,972		6,344			7,021				7,377	7,395			7,391	7,387	
8-59Fema	171,946	173,222	173,071	173,298	173,699	174,280	174,727	175,132	175,476	175,656	175,741	175,934	176,247	176,629	177,243	177,894	178,528	179,051	179,502	179,988	180,389	180,824	181,351	
0/65 -74	27,643	28,678	29,437	30,229	30,873		32,302	32,616	32,921	33,191	33,560			34,099				36,731				39,745	40,178	
5-84 5+	13,269 6,185	13,516 6,362	13,769 6,502	14,001 6,764	14,235 6,994		14,627 7,483	15,191 7,732	15,795 7,975		17,019 8,648			19,819 9,706		21,125 10,264				22,175		22,133 14,272	22,227 15,058	
otal	272,567	276,223	277,881	280,038	282,261			289,186	291,316					301,743								-	319,436	4
						. ,		., .*	. ,														., .,	
	ncy ratios,																							
-15 / 16-6: 5+ / 16-65		0.26	0.26	0.27	0.27		0.28	0.28	0.28		0.29			0.28				0.28				0.27	0.27	
-15 and 6		0.48	0.49	0.50	0.51			0.54	0.54					0.29									0.62	
fedian age	34.5	34.5	34.7	34.8	35.0	35.1	35.3	35.5	35.7	35.8	36.0	36.2	36.4	36.5	36.7	36.9	37.0	37.2	37.4	37.6	37.7	37.9	38.1	
ledian age		37.0	37.3	37.5	37.7			38.4	38.7		39.2			39.9								41.5	41.7	
ex ratio m	101.2	101.6	101.9	102.2	102.4	102.7	102.8	103.0	103.1	103.2	103.3	103.4	103.5	103.5	103.6	103.7	103.8	103.9	104.0	104.1	104.2	104.3	104.4	
	n impact o																							
umber of	persons	-178	-40	-37	-45	-39	-17	-14	+6	+13	+7	+9	+19	+22	+32	+40	+28	+14	+3	-17	-29	-33	-18	
lousehold	ds																							201
lumber of		108,512	109,431	110,613	111,798	112,998	114,107	115,244	116,380	117,490	118,601	120,130	121,649	123,183	124,675	126,118	127,543	128,949	130,379	131,797	133,250	134,745	136,220	
	Households	+1,489	+919	+1,183	+1,185	+1,200	+1,109	+1,137	+1,136		+1,111			+1,533				+1,406				+1,494	+1,475	
umber of hange in	111,301 over previou	112,850 +1,549	113,797 +947	115,021 +1,224	116,248 +1,227	117,490 +1,242	118,638 +1,147	119,815 +1,177	120,992 +1,177		123,294 +1,152			128,049 +1,592		131,097 +1,499		134,036 +1,460				140,057 +1,553	141,590 +1,533	- 1
yel III	- vo. previol	+1,549	+947	T1,224	Ŧ1,221	±1,242	Ŧ1,14/	Ŧ1,1//	Ŧ1,177	+1,100	+1,102	- 1,06b	+1,017	+1,092	-1,549	+1,499	T1,419	±1,40U	+1,465	+1,473	+1,510	+1,003	+1,000	
abour Fo					,	400	484 11	450	400 11		481.71	480 **		486	486 ***			486 ***		486	107	400	404.000	
umber of hange in l	146,095 Labour Forc	147,530 +1,435	148,140 +610	148,993 +853	149,806 +813	150,725 +919	151,430 +705	152,247 +817	153,122 +875		154,522 +548			156,373 +644				158,639 +525	159,120 +481	159,601 +481	160,098 +498	160,579 +481	161,098 +519	
		177,447	182,115	183,000	183,871	184,878	185,637	186,539	187,520		189,015		190,280										196,466	. :
lumber of				+885	+871	+1,007	+759	+902	+981	+956	+539	+589	+676	+718	+699	+656	+621	+602	+550	+549	+588	+577		

Scenario A: 2012 SNPP, Cambridge

pula	ation E	stimate	s and	roreca	asts			watnar	niel Lic	ntield	and Pa	tners											
ompo	nents c	of Popu	lation C	Change			Cambri	dge															
	Year beginn																						
ths	2011-12 2	2012-13 2	013-14 2	2014-15 2	2015-16	2016-17	2017-18 2	2018-19	2019-20 2	2020-21	2021-22 2	022-23 2	023-24 2	024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32 2	032-33	
e nale	782 745	789 752	778 741	758 722	739 704	735 700	723 689	711 677	700 666	690 657	683 651	676 644	671 639	666 634	661 630	658 627	655 624	652 621	650 619	648 617	646 616	645 615	_
Births	1,527	1,541	1,518	1,479	1,443	1,434	1,412	1,389	1,366	1,347	1,334	1,321	1,309	1,299	1,291	1,285	1,279	1,274	1,269	1,265	1,262	1,260	
	1.31	1.34	1.36	1.35	1.35	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.34	1.33	1.33	1.32	1.31	1.30	1.29	1.28	1.28	
s input									-	-		•		•	•	•	•	•	•				_
ths																							
ale	391 448	416 449	389 415	387 412	389 405	388 410		388 401	388 399	390 398	392 398	395 399	399 400	403 402	407 404	412 407	418 412	425 416	431 422	439 430	447 435	455 443	-
eaths	839	865	804	799	794	798	791	789	786	789	790	794	798	805	812	819	830	841	853	869	883	898	
: male:	99.2	102.0 99.8	93.8 91.7	91.3	89.6 87.3	87.2 87.0		83.1 82.6	80.8 80.7	79.3 79.2	77.4 77.7	75.9 76.2	74.4 74.7	72.9 73.3	71.6 72.0	70.3 70.6	69.2 69.6	68.2 68.3	67.2 67.4	66.4 66.7	65.6 65.8	64.7 65.0	_
: perso	99.2 99.2	100.8	91.7	89.9 90.6	88.4	87.0	84.2	82.8	80.7	79.2	77.5	76.2	74.7	73.3	71.8	70.6	69.4	68.2	67.3	66.6	65.7	64.9	
tation	79.7	79.2	80.3	80.6	80.8	81.1	81.4	81.7	82.0	82.3	82.6	82.8	83.1	83.3	83.5	83.7	83.9	84.1	84.3	84.4	84.6	84.8	
ctation ctation	83.6 81.8	83.5 81.5	84.4 82.4	84.6 82.7	85.0 83.0	85.0 83.2	85.3 83.5	85.5 83.7	85.8 84.0	86.0 84.2	86.2 84.5	86.4 84.7	86.7 84.9	86.9 85.1	87.1 85.4	87.3 85.6	87.4 85.7	87.6 85.9	87.7 86.1	87.9 86.2	88.0 86.3	88.2 86.5	
s inp	•	•	•	•	•	•		•	•	•	•	•	•				•	•	•	•	•		
aratio	on from the	LIK																					
grauc	7,082	6,759	6,757	6,785	6,815	6,812	6,808	6,782	6,751	6,731	6,772	6,822	6,867	6,950	7,033	7,122	7,163	7,237	7,326	7,394	7,414	7,462	
ile	6,563	6,578	6,546	6,546	6,564	6,541	6,526	6,484	6,451	6,417	6,438	6,482	6,515	6,587	6,656	6,750	6,789	6,865	6,938	7,006	7,031	7,075	
R: mal	13,645	13,336	13,303	13,331	13,379	13,353 0.2	13,333	13,266	13,202	13,149	13,211	13,304	13,382	13,536	13,688	13,872	13,953	14,103 0.2	14,264	14,400	14,445	14,537	
R: fem	0.2	0.2	0.2	0.2	0.2	0.2		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
nts in	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
nigra	tion to the	UK																					
	6,962	7,463	7,259	7,202	7,242	7,261	7,250	7,230	7,205	7,175	7,145	7,111	7,097	7,109	7,156	7,218	7,287	7,368	7,447	7,499	7,546	7,594	
ale	6,909 13,871	7,437 14,900	7,126 14,386	7,053 14,255	7,044 14,286	6,973 14,234	6,927 14,177	6,880 14,110	6,844 14,049	6,797 13,972	6,749 13,894	6,694 13,805	6,655 13,752	6,675 13,785	6,729 13,884	6,792 14,010	6,873 14,159	6,961 14,329	7,031 14,478	7,085 14,584	7,132 14,678	7,181 14,776	
R: ma	76.6	80.4	78.9	78.5	79.0	79.1	79.2	79.1	79.1	79.1	79.1	78.9	78.6	78.5	78.6	78.6	78.7	79.0	79.2	79.2	79.2	79.2	
R: fem nts in	80.8	86.0	84.0	83.8	84.3	83.9	83.7	83.5	83.7	83.8	83.8	83.3	82.7	82.5	82.4	82.4	82.5	82.9	83.1	83.2	83.1	83.3	
ino III																							
igratio	on from Ov		0.0-	0.000	0.0				0.55-	0.000	0.00	0.00	0.0									0.0	
ale	2,601 2,148	2,268 1,757	2,274 1,760	2,268 1,757	2,375 1,821	2,303 1,778	2,319 1,787	2,265 1,755															
	4,749	4,025	4,034	4,025	4,196	4,081	4,107	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	
R: ma	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	_
R: fem	0.0	• 0.0	• 0.0	• 0.0	0.0	• 0.0	0.0	• 0.0	• 0.0	• 0.0	• 0.0	0.0	0.0	• 0.0	• 0.0	0.0	• 0.0	0.0	0.0	• 0.0	• 0.0	• 0.0	
migra	tion to Ove	rseas 1,970	1,972	1,974	1,972	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	1,974	_
ale	1,175	1,579	1,580	1,582	1,580	1,582		1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	1,582	
D. ma	2,781	3,548 344.4	3,552 349.7	3,555 352.3	3,552	3,555 354.1	3,555	3,555 356.3	3,555 357.8	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555 347.5	3,555	_
R: ma R: fem	286.4 286.4	382.0	393.5	399.8	353.3 404.8	410.0	355.4 413.8	416.9	420.4	359.6 424.4	361.4 428.5	362.8 431.7	363.1 433.1	362.8 432.5	361.5 430.8	359.6 428.7	357.1 425.4	354.7 422.4	352.4 419.7	350.0 417.0	413.9	345.2 411.3	
nts in	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
ation	- Net Flows																						_
	-226	-1,563	-1,082	-924	-907	-881	-844	-844	-847	-824	-684	-501	-370	-248	-196	-138	-207	-226	-215	-184	-233	-238	
eas	+1,968	+477	+482	+469	+644	+525	+551	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	
	of populati																						2
al cha igrati	+688	+676	+715 -600	+681 -455	+649 -263	+636 -355	+621	+600	+580	+559	+544 -219	+527	+511	+495	+480 +269	+466	+449 +258	+433 +239	+415 +250	+395	+379	+362	
hange	+2,430	-411	+115	+226	+386	+281	+328	+221	+198	+200	+325	+490	+606	+711	+749	+793	+707	+672	+666	+676	+612	+588	•
e Birth	12.32	12.34	12.17	11.84	11.52	11.42		11.00	10.81	10.64	10.51	10.38	10.24	10.11	9.99	9.88	9.78	9.69	9.61	9.53	9.46	9.40	
e Dea	6.77 14.06	6.93 -8.70	6.44 -4.81	6.39 -3.64	6.34 -2.10	6.35 -2.83	6.28 -2.33	6.25 -3.00	6.22 -3.02	6.23 -2.83	6.23 -1.72	6.24 -0.29	6.25 0.74	6.26 1.69	6.28 2.08	6.30 2.52	6.35 1.97	6.40 1.82	6.46 1.89	6.55 2.11	6.62 1.74	6.70 1.69	
	ary of P		on estir	nates/f	orecas	ts																	_
	Population a																						
	2011 6,622	2012 6,962	2013 6,967	2014 6,902	2015 6,839	2016 6,766	2017 6,645	2018 6,565	2019 6,471	2020 6,387	2021 6,315	2022 6,243	2023 6,178	2024 6,122	2025 6,073	2026 6,032	2027 5,995	2028 5,963	2029 5,935	2030 5,911	2031 5,890	2032 5,873	2033 5,859
	6,040	6,483	6,741	7,075	7,251	7,447	7,615	7,646	7,663	7,612	7,568	7,510	7,416	7,349	7,277	7,213	7,159	7,102	7,050	7,003	6,962	6,926	6,894
	5,073 2,424	5,136 2,287	5,189 2,214	5,082 2,255	5,166 2,314	5,218 2,292	5,357 2,290	5,606 2,231	5,859 2,202	6,053 2,298	6,215 2,409	6,340 2,469	6,414 2,601	6,443 2,690	6,429 2,744	6,418 2,767	6,381 2,767	6,316 2,813	6,278 2.806	6,232 2,774	6,191 2,764	6,154 2,741	6,114 2,729
Fema	2,424 85,406	2,287 86,768	2,214 85,885	2,255 85,442	2,314 85,147	2,292 85,080		2,231 84,767	2,202 84,533	2,298 84,203	2,409 83,886	2,469 83,743	2,601 83,769	2,690 83,917	2,744 84,234	2,767 84,605	2,767 84,998	2,813 85,319	2,806 85,589	2,774 85,880	2,764 86,103	2,741 86,330	2,729 86,571
-74	9,398	9,747	9,929	10,214	10,422	10,672	10,868	10,989	11,095	11,234	11,347	11,374	11,497	11,612	11,793	11,991	12,217	12,428	12,662	12,890	13,155	13,345	13,482
1	5,026 2,736	5,059 2,713	5,068 2,752	5,056 2,835	5,060 2,886	5,047 2,950		5,217 3,057	5,344 3,134	5,469 3,241	5,612 3,345	5,911 3,431	6,089 3,549	6,334 3,653	6,537 3,743	6,731 3,822	6,911 3,944	7,018 4,119	7,118 4,312	7,210 4,516	7,303 4,724	7,282 5,052	7,347 5,295
	122,725	125,155	124,744	124,859	125,085	125,471	125,752	126,079	126,300	126,498	126,698	127,023	127,513	128,119	128,830	129,578		131,078	131,749	132,415	133,091	133,703	134,291
nden / 16-6	cy ratios, n	nean age a	nd sex ra	tio 0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20
16-65	0.16	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.25	0.25
and 6	0.36	0.37	0.38	0.38	0.39	0.40		0.41 30.6	0.41	0.42	0.42 31.1	0.43 31.3	0.43	0.43 31.5	0.43	0.43	0.44 31.7	0.44 31.7	0.44	0.44 31.8	0.45	0.45 31.9	0.45 32.0
in age in age	30.0 31.4	30.0 31.5	30.1	30.2 32.3	30.3 32.5	30.4 32.8		30.6	30.8	30.9	31.1	31.3	31.4	31.5	31.6 34.4	31.6 34.5	31.7 34.6	31.7 34.7	31.8 34.7	31.8 34.8	31.9 34.9	31.9 35.0	32.0 35.1
itio m	104.2	105.1	105.7	106.2	106.6	107.1	107.3	107.6	107.7	107.9	108.1	108.2	108.3	108.4	108.4	108.6	108.7	108.8	108.9	109.1	109.2	109.3	109.5
																							_
lation	n impact of	constraint																					
er of p	persons	+10	-272	-266	-264	-250	-218	-212	-189	-178	-182	-176	-165	-159	-148	-138	-150	-163	-175	-194	-207	-211	-196
ehold	ls																						2
ber of	46,629	47,317	47,274	47,482	47,712	47,957		48,384	48,646	48,909	49,186	49,649	50,135	50,649	51,174	51,684	52,198	52,705	53,224	53,756	54,302	54,872	55,446
ge in F	douseholds 49,001	+688 49,724	-43 49,679	+208 49,897	+230 50,139	+245 50,396	+190 50,596	+237 50,845	+261 51,120	+263 51,397	+277 51,688	+464 52,175	+486 52,685	+514 53,225	+525 53,777	+510 54,312	+515 54,853	+506 55,385	+519 55,931	+533 56,490	+546 57,064	+570 57,663	+574 58,266
	over previou	+723	-45	49,897 +218	+242	+257	+200	+249	+275	+276	+291	+487	+510	+540	+552	+536	+541	+532	+545	+560	+574	+599	+603
ur Fo	rce																						
	62,946	64,010	63,669	63,618	63,610	63,656	63,634	63,668	63,738	63,802	63,795	63,819	63,913	64,055	64,201	64,355	64,500	64,645	64,774	64,903	65,072	65,252	65,449
oer of			0.40	-50	-8	+46	-22	+34	+71	+64	-7	+25	+94	+142	+146	+154	+146	+144	+129	+129	+169	+180	+197
	abour Forc 95,063	+1,064 96,680	-342 98,697	98,629	98,627	98,709	98,685	98,747	98,868	98,977	98,965	99,003	99,149	99,369	99,596	99,834	100,060	100,284	100,484	100,685	100,947	101,225	101,532

Scenario A: 2012 SNPP, South Cambridgeshire

-opula	tion E	stimat	es and	Forec	asts			Natha	niei Li	cntield	and P	artners	•											
Compor	nents	of Popu	ulation	Change	•		South	Cambr	idgesh	ire														
		nning July 1:		2014-15	2015.16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	-	
irths																								
lale emale	915 871	920 876	937 893	937 892	942 897	948	954 909		953		951	950	947	943 898			932 888	928 884	925		921	921		
II Births	1,786		1,830	1,830	1,839	1,850	1,863	1,862	1,860	1,858	1,856	1,854	1,848	1,841	1,834	1,827	1,819	1,812	1,806	1,801	1,798	1,797		
FR irths input	2.02	2.03	2.05	2.04	2.04	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.05	2.05	2.04		
eaths ale	494	539	537	533	541	541	556	567	570	581	591	602	614	628	641	652	665	680	695	709	725	742		
male	485		540		538		557		565				592	601			633	645						
I deaths VIR: male	979 78.0		1,077 79.1	1,077 75.7	1,079 73.8	1,087	1,113 70.4		1,136		1,170		1,206 62.3	1,229 61.4			1,297 58.4	1,326 57.8			1,411			
MR: fema	78.0		81.2	79.4	76.2	75.0	74.1	72.5	70.9		68.1	67.0	65.5	64.4			61.4	60.6			58.5			
MR: perso pectation	78.0 82.7	85.9 81.7	80.1 82.2	77.5 82.8	75.0 83.0	73.1 83.4	72.2 83.6		68.9 84.2		66.2 84.7	65.1	63.8 85.2	62.8 85.4			59.8 86.0	59.1 86.1	58.3 86.3		57.1 86.5			
pectation	86.3		85.7	86.0	86.3		86.7					87.7	87.9	88.1	88.4			88.8			89.2			
pectation eaths inp	84.6	83.3	84.1	84.4	84.8	85.1	85.2	85.4	85.7	86.0	86.2	86.4	86.6	86.8	87.0	87.2	87.3	87.5	87.7	87.8	87.9	88.1		
		,																						
-migratior ale	4,865	4,843	4,573	4,593	4,616	4,636	4,653	4,673	4,686	4,698	4,708	4,718	4,730	4,747	4,767	4,791	4,815	4,843	4,871	4,897	4,921	4,949		
male	4,882	5,202	4,909	4,913	4,916	4,919	4,920	4,923	4,921	4,918	4,916	4,915	4,917	4,926	4,943	4,966	4,990	5,019	5,047	5,074	5,100	5,130		
/ligR:ma	9,747	10,044	9,482	9,506	9,532	9,555	9,573	9,595	9,607		9,624		9,647	9,673			9,805	9,862	9,918		10,021			
/ligR: fem	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
grants in(•		•	•	•	•	•	· •	•		•		•			•	•	•						
ıt-migrati																								
male	4,856 4,766	4,214 4,623	3,983 4,395		4,072 4,421	4,108 4,439	4,131 4,453	4,144 4,458	4,181 4,484		4,250 4,515		4,311 4,581	4,344 4,611			4,468 4,735	4,495 4,756			4,595 4,871			
I	9,622	8,837	8,378	8,443	8,493	8,546	8,584	8,603	8,665	8,710	8,765	8,820	8,892	8,955	9,035	9,120	9,202	9,251	9,326	9,399	9,466	9,531		
MigR: ma MigR: fem	64.5 65.3	56.1 63.5	52.4 59.8	52.4 59.7	52.4 59.4	52.4 59.3	52.3 59.2		52.2 59.0		52.4 58.8		52.5 59.0	52.6 59.1	52.7 59.2		53.0 59.5	53.0 59.4			53.1 59.6	53.2 59.7		
igrants in	•	•	•	•	•		•	•	•				•			•		•				•		
-migratior	from O	verseas																						
ale	454	459	460	459	482	466	470		458		458		458	458			458	458			458			
male /	375 829	404 862	405 864	404 862	420 902	409 875	412 881	403 861	403 861		403 861	403 861	403 861	403 861			403 861	403 861	403 861		403 861			
/ligR: ma	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0	0.0		0.0	0.0	0.0		
vligR: fem grants in	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ut-migratio	on to Ov		375	376	375	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376		
emale	230	303	304	304	304	304	304	304	304	304	304	304	304	304		304	304	304	304		304	304		
// MigR: ma	535 72.7	678 89.7	679 88.8		679 87.4		680 86.4		680 85.6				680 84.4	680 84.1			680 83.1	680 82.7			680 81.3			
MigR: fem	72.7	96.2	95.6	95.2	94.6	94.3	94.2		94.1			94.0	94.0	94.0			93.7	93.5			92.3			
igrants in	•	•	•	•	•	•	•	•	•				•			•	•	•				•		
igration -																								
K verseas	+125	+1,207 +184	+1,105 +185	+1,063 +183	+1,039	+1,009	+989	+992	+942		+859		+755 +182	+718 +182			+603	+611	+593		+555			
immary o itural cha	f popula +807	tion chang +677	e +752	+752	+760	+763	+751	+735	+724	+707	+687	+665	+642	+612	+583	+554	+522	+486	+453	+422	+387	+354	2	201 :
et migrati	+419		+1,290	+1,245	+1,262	+1,204	+1,191	+1,174	+1,124		+1,041	+994	+936	+899			+785	+793			+737			+2
et change rude Birth	+1,226	+2,068	+2,042	+1,998	+2,022	+1,967	+1,942	+1,909	+1,848		+1,727	+1,659	+1,579	+1,512			+1,307	+1,279	+1,227		+1,124			+3
ude Dear	6.51	7.36	6.99	6.90	6.82	6.79	6.86	6.87	6.84	6.86	6.90	6.94	6.98	7.05	7.12	7.18	7.26	7.37	7.47	7.56	7.69	7.82		
rude Net I	2.78	9.15	8.37	7.97	7.98	7.52	7.34	7.16	6.77	6.48	6.14	5.81	5.42	5.16	4.87	4.62	4.39	4.41	4.27	4.13	4.02	3.95		
umma	ry of F	opulat	ion est	imates/f	forecas	sts																		
P		at mid-yea																						
4	2011 9,423	2012 9,429	2013 9,560	2014 9,647	2015 9,803	2016 9,891	2017 9,987	2018 10,040	2019		2021 10,076	2022	2023	2024 10,029			2027 9,941	2 <i>0</i> 2 <i>8</i> 9,904			2031 9,798	2032	2033 9,751	
10	10,945	11,216	11,536	11,884	12,161	12,416	12,635	12,831	12,969	13,037	13,166	13,233	13,301	13,335	13,337	13,336	13,329	13,310	13,278	13,242	13,204	13,164	13,120	
-15 -17	9,179 3,818	9,096 3,836	9,081	9,119 3,783	9,180 3,746		9,608 3,642				10,705		11,087 4,176	11,191 4,331				11,475 4,564			11,517 4,651		11,496 4,657	
-59Fema	86,540	86,454	87,186	87,856	88,551	89,200	89,848	90,365	90,943	91,453	91,854	92,191	92,478	92,713	93,009	93,288	93,530	93,731	93,913	94,108	94,286	94,494	94,780	
1/65 -74 i-84	18,245 8,243		19,507 8,701	20,016 8.945	20,451 9,176	21,095 9,219	21,434 9,501	21,626 9.973			22,213		22,189 12.982	22,488 13,485				24,304 14.824			25,937 15,100		26,696 14,880	
i+	3,449	3,649	3,750	3,929	4,109	4,317	4,510	4,675	4,841	5,081	5,303	5,536	5,782	6,053	6,304	6,442	6,733	7,144	7,560	8,012	8,444	9,220	9,763	
tal	149,842	151,068	153,136	155,179	157,176	159,198	161,166	163,107	165,016	166,865	168,659	170,387	172,046	173,625	175,136	176,576	177,948	179,255	180,534	181,761	182,937	184,061	185,145	3
ependenc	y ratios,	mean age	and sex r	atio																				
15 / 16-6! i+ / 16-65	0.31	0.31	0.32	0.32	0.32		0.33				0.34		0.34	0.34			0.33	0.33					0.33	
+ / 16-65 15 and 6!	0.26 0.57	0.28	0.29	0.30	0.30		0.32		0.33		0.34		0.35	0.36			0.38	0.39			0.42		0.43 0.76	
edian age	39.2		39.7		39.9													41.6					42.7	
xratio m	41.0 98.8		41.6 98.9	41.8 99.1	42.0 99.2		42.3 99.4				42.8 99.8			43.4 100.1				44.3 100.5			45.0 100.7		45.4 100.9	
pulation	impact o	of constrain	nt																					
mber of pe		-188	+232	+229	+219	+211	+201	+198	+195	+191	+188	+185	+184	+181	+180	+179	+178	+178	+178	+177	+178	+178	+178	
useholds																							2	201.
mber of	60,394		62,156	63,131	64,086		65,960				69,415			72,534				76,244			78,948		80,774	,
ange in Ho	useholds 62,301	+801 63,126	+961 64,118	+975 65,124	+955 66,109	+955 67,094	+918 68,042		+875		+834 71,606		+1,034 73,772	+1,020 74,824			+910 77,723	+900 78,651			+907 81,440		+902 83,324	
			+992	+1,006	+985	+985	+947	+928	+902		+861		+1,066	+1,052			+938	+928			+936		+930	
mber of																							_	
imber of																								
ange in over	e e																							
amber of hange in on hange in on hange in on hange in La	e 83,149		84,472 +952	85,375 +903	86,196 +821	87,068 +873	87,796 +728		89,384 +804		90,727		91,816	92,318			93,613	93,994	94,346		95,026		95,649	. 1

Scenario D: CCC Technical Report Population Growth, All Areas

Popula	tion E	stimate	s and	Forec	asts		ļ.	Nathan	iel Lic	hfield a	and Pa	rtners												
		of Popu		Change			All Area	ıs																
		ning July 1st 2012-13 2		2014-15	2015-16 2	2016-17 2	017-18 2	018-19 2	2019-20 2	2020-21	2021-22 2	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31 2	2031-32	2032-33	_	
Births																								
Male Female	1,697 1,616	1,709	1,715	1,695 1,614	1,681	1,682	1,677	1,665 1,586	1,652	1,642 1,564	1,634 1,556	1,626 1,549	1,617	1,609 1,532	1,601 1,525	1,594 1,518	1,587 1,511	1,581 1,505	1,575	1,570	1,567 1,493	1,566		
All Births	3,313	3,338	3,348	3,309	3,282	3,284	3,275	3,251	3,226	3,206	3,190	3,175	3,158	3,141	3,126	3,112	3,098	3,086	3,075	3,066	3,060	3,057		
TFR Births input	1.65	1.67	1.68	1.66	1.64	1.64	1.63	1.62	1.60	1.59	1.58	1.57	1.55	1.54	1.53	1.52	1.51	1.49	1.48	1.47	1.46	1.46		
Deaths																							_	
Male	885	956	926	920	929	929	945	955	958	971	983	997	1,013	1,030	1,049	1,064	1,082	1,105	1,126	1,149	1,172	1,196		
Female All deaths	933 1.818	1,029	955 1.881	955 1.876	943	956 1.885	959 1.903	961 1.916	964 1.922	968 1.939	977 1.960	986 1.983	992 2.005	1,003	1,015 2.063	1,028	1,045 2,127	1,062 2,166	1,081	1,100 2,249	1,121	1,145 2.341	_	
SMR: male:	86.2	89.5	84.6	81.7	80.0	77.7	76.6	75.0	72.9	71.5	69.9	68.6	67.3	66.1	64.9	63.6	62.4	61.5	60.4	59.5	58.7	58.0		
SMR: femal	86.9 86.5	92.8 91.2	84.8 84.7	83.1 82.4	80.2 80.1	79.4 78.6	77.8 77.2	76.2 75.6	74.4 73.6	72.7 72.1	71.2 70.6	69.9 69.2	68.2 67.8	66.9 66.5	65.6 65.2	64.2 63.9	63.1 62.8	62.0 61.7	60.9 60.7	60.0 59.7	59.2 58.9	58.5 58.2		
Expectation	81.4	80.8	81.5	81.9	82.1	82.4	82.6	82.8	83.1	83.4	83.7	83.9	84.1	84.3	84.6	84.8	85.0	85.2	85.4	85.7	85.8	86.0		
Expectation Expectation	85.0 83.3	84.4 82.7	85.3 83.5	85.5 83.8	85.9 84.1	86.0 84.3	86.2 84.5	86.4 84.7	86.7 85.0	86.9 85.3	87.1 85.5	87.3 85.7	87.6 86.0	87.8 86.2	88.0 86.4	88.2 86.6	88.4 86.8	88.6 87.0	88.8 87.2	89.0 87.4	89.1 87.5	89.3 87.8	_	
Deaths input		U.	00.0	00.0	04.1	04.0	04.0	04.1	00.0	00.0	00.0	00.7	00.0	00.2	00.4	00.0	00.0	07.0	07.2	07.4	07.0	01.0		
In-migratio	n from the	e UK																						
Male	11,183	11,763	11,370	11,405	11,414	11,484	11,494	11,528	11,534	11,541	11,568	11,598	11,643	11,723	11,832	11,946	12,050	12,163	12,293	12,395	12,100	12,170		
Female All	11,363 22,546	11,989 23,752	11,544 22,913	11,538 22,943	11,514 22,928	11,544 23,028	11,526 23,020	11,528 23,055	11,512 23,046	11,485 23,026	11,486 23,054	11,502 23,101	11,527 23,169	11,596 23,319	11,690 23,522	11,808 23,753	11,914 23,965	12,028 24,192	12,145 24,438	12,249 24,644	11,956 24,057	12,025 24,194		
SMigR: mal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
SMigR: fem Migrants inp	0.2 ut	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Out-migrati Male	11,807	UK 11,015	10,711	10,720	10,853	10,877	10,899	10,862	10,855	10,854	10,859	10,872	10,901	10,951	11,026	11,127	11,194	11,282	11,383	11,455	11,870	11,954		
Female	11,246	11,501	11,088	11,057	11,100	11,021	10,996	10,925	10,891	10,834	10,821	10,817	10,817	10,872	10,955	11,042	11,138	11,225	11,319	11,402	11,831	11,913		
All SMigR: ma	23,053 71.1	22,516 67.0	21,798 64.9	21,778 64.5	21,953 64.8	21,898 64.3	21,894 63.9	21,787 63.2	21,747 62.6	21,688 62.2	21,680 61.8	21,689 61.4	21,719 61.1	21,823 60.9	21,981 60.7	22,169 60.6	22,332 60.4	22,507 60.2	22,702 60.1	22,858 59.8	23,701 61.3	23,867 61.6	_	
SMigR: fem	70.9	73.0	70.3	69.9	69.8	69.0	68.4	67.6	67.1	66.5	66.1	65.7	65.2	64.9	64.8	64.6	64.5	64.3	64.2	64.0	65.7	66.1		
Migrants inp	ut																							
In-migratio																								
Male Female	3,055 2,523	2,727	2,734	2,727	2,856	2,769	2,789	2,724	2,724	2,724	2,724	2,724	2,724	2,724 2.158	2,724 2.158	2,724 2.158	2,724 2.158	2,724	2,724	2,724	2,724	2,724	_	
All	5,578	4,887	4,898	4,887	5,097	4,956	4,988	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881	4,881		
SMigR: ma SMigR: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Migrants inp		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Out-migrat	ion to Ove	rseas																						
Male	1,911	2,345	2,347	2,349	2,347	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349		
Female All	1,405 3,316	1,882 4,227	1,884 4,231	1,886 4,235	1,884 4,231	1,886 4,235	1,886 4.235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4.235	1,886 4,235	_									
SMigR: mal	194.9	241.0	241.6	241.7	240.4	239.3	237.8	236.1	234.5	232.9	231.5	230.1	228.6	227.1	225.3	223.4	221.2	218.9	216.6	214.2	211.7	210.8		
SMigR: fem Migrants inp	193.3	259.0	261.5	262.9	262.9	263.0	262.4	261.5	260.6	259.9	259.2	258.5	257.5	256.2	254.7	253.0	250.9	248.6	246.3	243.8	241.2	240.9	_	
Migration - UK	Net Flow -507	s +1,236	+1,115	+1,165	+974	+1,130	+1,126	+1,269	+1,300	+1,337	+1,373	+1,412	+1,451	+1,497	+1,541	+1,584	+1,632	+1,684	+1,735	+1,786	+356	+327		
Overseas	+2,262	+661	+668	+652	+867	+721	+753	+646	+646	+646	+646	+646	+646	+646	+646	+646	+646	+646	+646	+646	+646	+646		
Summary of	of populat	ion change																						2011-20
Natural cha	+1,495	+1,353	+1,467	+1,433	+1,409	+1,399	+1,371	+1,335	+1,304	+1,266	+1,230	+1,192	+1,153	+1,107	+1,063	+1,019	+971	+919	+868	+817	+767	+716		+24,1
Net migration Net change	+1,755	+1,897 +3,250	+1,783	+1,817	+1,841	+1,851	+1,879	+1,915	+1,946	+1,984	+2,020	+2,058	+2,097	+2,143	+2,187	+2,231	+2,279	+2,331	+2,382	+2,433	+1,002	+974	_	+40,8
Crude Birth	12.08	12.03	11.93	11.65	11.43	11.31	11.15	10.95	10.75	10.56	10.40	10.24	10.08	9.92	9.78	9.63	9.50	9.37	9.24	9.13	9.04	8.99		
Crude Dear Crude Net I	6.63	7.15 6.84	6.70	6.61	6.52	6.49	6.48	6.45	6.40	6.39 6.54	6.39	6.40	6.40	6.43 6.77	6.45 6.84	6.48	6.52 6.99	6.58 7.07	6.63 7.16	6.69 7.24	6.78 2.96	6.88 2.86	_	
_																								
	•	opulation	on esti	mates/f	orecas	ts																		
	2011	at mid-year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
0-4	16,045	16,625	16,745	16,795	16,828	16,806	16,734	16,688	16,594	16,510	16,431	16,340	16,243	16,153	16,070	15,993	15,917	15,845	15,777	15,715	15,659	15,593	15,541	
5-10 11-15	16,985 14,252	17,666 14,353	18,321 14,619	19,009 14,523	19,553 14,650	20,067 14,923	20,518 15,252	20,776 15,783	20,915 16,407	20,970 16,959	21,010 17,415	20,987 17,831	20,916 18,133	20,867 18,251	20,778 18,357	20,697 18,435	20,620 18,434	20,535 18,378	20,443 18,380	20,355 18,338	20,274 18,298	20,131 18,200	19,994 18,099	
16-17	6,242	6,164	6,721	7,267	7,493	7,343	7,306	7,270	7,277	7,465	7,705	7,926	8,226	8,534	8,738	8,802	8,920	9,057	9,064	9,030	9,062	9,002	8,963	
18-59Fema 60/65 -74	171,946 27,643	172,065 29,003	172,529 29,801	173,275 30,618	174,424 31,315	175,815 32,248	177,215 32,822	178,562 33,188	179,921 33,511	181,152 33,838	182,328 34,262	183,564 34,137	184,794 34,458	186,099 34,944	187,537 35,561	189,094 36,291	190,569 37,115	192,142 37,953	193,689 38,886	195,346 39,805	196,907 40,643	197,408 41,371	197,943 41,904	
75-84	13,269	13,511	13,820	14,105	14,380	14,470	14,890	15,511	16,186	16,853	17,532	18,841	19,735	20,511	21,206	21,938	22,484	22,791	23,058	23,271	23,577	23,335	23,435	
85+ Total	6,185 272,567	6,429 275,817	6,511 279,067	6,726 282,317	6,922 285,567	7,146 288,817	7,328 292,067	7,538 295,317	7,756 298,567	8,071 301,817	8,384 305,067	8,692 308,317	9,063	9,458 314,817	9,821 318,067	10,067 321,317	10,508 324,567	11,116 327,817	11,770 331,067	12,456 334,317	13,147 337,567	14,295 339,336	15,147 341,025	65,0
					,				,	. ,	,	,	,		,,,	, ,	,	,,,,,,	. ,		. ,	,	,	,,,
Dependent 0-15 / 16-6	cy ratios, 1 0.25	mean age a	ind sex ra	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.25	
65+/16-65	0.21	0.23	0.23	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.32	0.32	0.33	
0-15 and 6! Median age	0.47 34.5	0.49 35.0	0.50 35.0	0.51 35.0	0.51 35.1	0.52 35.3	0.52 35.4	0.53 35.5	0.53 35.6	0.54 35.8	0.54 35.9	0.55 36.0	0.55 36.2	0.55 36.3	0.55 36.5	0.55 36.7	0.56 36.9	0.56 37.1	0.56 37.3	0.57 37.4	0.57 37.6	0.57 37.9	0.58 38.1	
Median age	36.9	37.2	37.3	37.5	37.6	37.7	37.9	38.1	38.3	38.5	38.7	38.9	39.1	39.3	39.5	39.7	39.8	40.0	40.3	40.5	40.7	40.9	41.3	
Sex ratio m	101.2	100.8	101.1	101.4	101.7	102.0	102.2	102.3	102.5	102.6	102.7	102.9	103.0	103.1	103.2	103.3	103.4	103.5	103.6	103.7	103.8	103.9	104.0	
Population Number of p		f constraint	+1,552	+1,056	+981	+803	+985	+966	+1,126	+1,217	+1,262	+1,207	+1,120	+1,088	+1,059	+1,102	+1,113	+1,251	+1,303	+1,340	+1,369		_	
		304	,002	,000	.301	.303	.303	.300	71,120	11,217	,202	, 207	,120		,009	,102	,113	11,201	,303	11,340	, 303			
Household: Number of		108,875	110,328	111,925	113,507	115,050	116,576	118,150	119,736	121,327	122,957	125,043	127,127	129,234	131,323	133,400	135,483	137,611	139,788	141,997	144,278	146,145	147,981	2011-2 0 37,2
Change in H	ouseholds	+1,852	+1,454	+1,597	+1,581	+1,544	+1,526	+1,573	+1,587	+1,591	+1,630	+2,085	+2,085	+2,107	+2,089	+2,076	+2,084	+2,127	+2,177	+2,209	+2,281	+1,867	+1,836	+1,8
Number of Change in o	111,301 ver previou	113,234 +1.933	114,743 +1.508	116,401 +1,658	118,043 +1.642	119,646 +1,603	121,230 +1,583	122,862 +1,633	124,510 +1,647	126,162 +1.653	127,856 +1,693	130,023 +2,167	132,189 +2,166	134,379 +2,190	136,551 +2,171	138,708 +2,158	140,874 +2,166	143,085 +2,211	145,348 +2.263	147,645 +2.296	150,016 +2,371	151,958 +1,942	153,868 +1,910	38,7 +1,9
unge III U	premot	. 1,533	,000	. 1,000	. 1,042	,003	,505	,033	,047	. 1,003	. 1,053	.2,107	.2,100	12,100	-2,171	rz,130	rz, 100	72,211	72,203	-2,200	1 10,21	1,542	. 1,510	71,5
Labour For	rce																							
Number of	146,095	148,370	149,748	151,175	152,590	154,025	155,291	156,609	158,067	159,572	160,844	162,175	163,557	164,956	166,341	167,706	169,062	170,476	171,876	173,318	174,811	175,452	176,079	28,7
Change in L	abour Forc 178,506	+2,275 178,404	+1,378 184,120	+1,427 185,772	+1,414 187,467	+1,436 189,214	+1,266 190,765	+1,318 192,370	+1,458 194,177	+1,506 196,055	+1,272 197,610	+1,330 199,231	+1,383 200,918	+1,398 202,631	+1,386 204,317	+1,365 205,981	+1,356 207,624	+1,414 209,350	+1,400	+1,443 212,835	+1,493 214,674	+641 215,547	+627 216,403	+1,4 36,1
Number of								104,010		100,000	107,010	103,201	200,010	202,001	204,017	£00,001	201,024	205,000	211,000	4.4,000				

Scenario D: CCC Technical Report Population Growth, Cambridge

. opuic	L	Junia	JJ GIIC	Fored	-4010			·····	=10		and r	artners												
-			ulation st	Change	е		Cambr	idge																
			2013-14		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
fale	782	789	778						700	690				666								645		
emale VI Births	745 1,527	752 1,541	741 1,518					1,389	1,366	1,347											1,262	615 1,260		
FR Births input	1.31	1.36	1.36					1.31	1.29												1.12	1.11		
eaths																								
Male	391	416	389		389	388	389		388					403						439	447	455		
emale III deaths	448 839	449 865	415 804					401 789	399 786	398 789				402 805				416 841				443 898		
MR: male:	99.2	101.8	93.9	91.6	90.2	88.1	86.5	84.3	82.1					73.7	72.2	70.7	69.4	68.1	66.8	65.8	64.7	63.6		
MR: femal MR: perso	99.2 99.2	97.3 99.4	89.5 91.5		85.2 87.6	84.9		80.4 82.3	78.5 80.2	76.8 78.6								64.6			61.6	60.8		
xpectation	79.7	79.3	80.3						81.7	82.0				83.0				83.9		84.3		84.8		
xpectation	83.6	83.8	84.7						86.1	86.3				87.3								88.9		
xpectation eaths inp	81.8	81.7	82.6	82.9	83.1	83.3	83.6	83.8	84.1	84.3	84.6	84.8	85.1	85.3	85.6	85.8	86.0	86.2	86.5	86.6	86.8	87.0		
n-migratio Male	on from the	e UK 6.967	6.837	6.841	6.833	6.869	6.855	6.861	6.839	6.821	6.820	6.824	6.836	6.884	6.954	7.028	7.092	7,171	7.259	7.323	7.225	7.267		
emale	6,281	6,829	6,669					6,606	6,576	6,538				6,570							6,900	6,939		
4//	12,462	13,796	13,506						13,415	13,359								14,021				14,207		
SMigR: mal SMigR: fem	0.2	0.2	0.2					0.2	0.2	0.2											0.2	0.2		
figrants in	•	•			•			•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	tion to the		0.00	0.000		0.750	0.75-		0.000	0.000				0.700			0.071	0.000	70	7.00	7.000	7.000		
Male Female	7,091 6,677	6,762 6,837	6,694 6,659			6,753 6,567	6,757 6,534	6,715 6,467	6,686 6,423	6,658				6,700			6,871 6,557	6,938		7,067 6,755	7,233 6,915	7,283 6,966		
W	13,768	13,599	13,353	13,289	13,402	13,320	13,292	13,181	13,109	13,032		12,990	12,988	13,063	13,177	13,315	13,428	13,569	13,714	13,823	14,148	14,249		
MigR: mal MigR: fem	78.1 78.1	77.3 83.2	76.8 81.9		76.7 81.5	75.8 79.9		73.8 77.5	72.8 76.5	71.9 75.5							69.2 72.6	69.0 72.5		68.5 72.2	69.3 73.1	69.3 73.5		
ligrants in	•	•	•	•	• 01.5						. ,4.5				. ,29				. 12.4		*			
	on from O																							
Male emale	2,601 2,148	2,268 1,757	2,274 1,760		2,375 1,821	2,303 1,778	2,319	2,265 1,755	2,265 1,755	2,265 1,755				2,265			2,265 1,755	2,265		2,265	2,265 1,755	2,265 1,755		
-emaie W	2,148 4,749	4,025					4,107	4,020	4,020													4,020		
MigR: mal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MigR: fem Migrants in	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	ion to Ove																							
Male emale	1,606 1,175	1,970 1,579	1,972 1,580					1,974 1,582	1,974 1,582	1,974											1,974	1,974 1,582		
W	2,781	3,548	3,552	3,555	3,552	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555		
MigR: mai MigR: fem	286.4 286.4	361.3 394.1	367.1 406.6	370.9 414.2			368.1 420.1	365.2 418.7	362.1 416.8	359.1 415.0				347.6				332.4		323.7 380.5	319.2 375.8	316.6 373.9		
Vigrants in		•	•	• • •	• • • •	•	•	• 10.7	• 10.0	•	•	•	•	•	•	• 390.2		•	•	•	•	•		
Migration	- Net Flow																							
JK	-1,306	+197	+153	+200	+57	+189	+178	+285	+305	+326	+342	2 +358	+374	+391	+406	+420	+436	+452	+470	+490	-22	-42		
Overseas	+1,968	+477	+482	+469	+644	+525	+551	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465		
	of populat																							20.
Natural cha Net migrati	+688 +662	+676	+715 +635		+649 +701	+636		+600 +750	+580 +770	+559 +791				+495				+433		+395	+379	+362		. 1
Net change	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+1,350	+822	+785		٠,
Crude Birth Crude Dear	12.37 6.80	12.36 6.94	12.04	11.61	11.20	11.02	10.73	10.45 5.94	10.18 5.86	9.94 5.82				9.22		8.94 5.70		8.70 5.75		8.49 5.83	8.41 5.88	8.35 5.95		
Crude Net I	5.36	5.40	5.04			5.49			5.74	5.84				6.07				6.27				2.80		
		-		imates/	foreca	sts																		
	Population 2011	at mid-yea 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
0-4	6,622	7,282	7,473	7,567	7,565	7,520	7,389	7,276	7,151	7,041				6,679				6,467			6,378	6,352	6,332	
5-10 11-15	6,040 5,073	6,696 5,260	7,030 5,620					8,609 6,201	8,774 6,511	8,850 6,769				8,554 7,723				8,104 7,752		7,935 7,593	7,868 7,511	7,800 7,417	7,740 7,331	
16-17	2,424	2,328	3,088						3,979	4,129				4,724			5,068	5,193				5,137	5,099	
18-59Fema	85,406	84,623	84,047		84,183	84,822	85,456	86,142	86,800	87,353	87,933			89,916	90,666			93,114	93,991	94,939	95,784	96,237	96,654	
60/65 -74 75-84	9,398 5,026	10,028 5,090	10,239 5,150		10,789 5,232			11,448 5,535	11,563 5,708	11,718 5,884				12,212				13,248 7,706			14,172 8,075	14,430 8,063	14,651 8,135	
35+ Fotal	2,736 122,725	2,767	2,777	2,834	2,867	2,903	2,912	2,970	3,038	3,133	3,234	3,317	3,447	3,569	3,670	3,758	3,902	4,091	4,304	4,526	4,752	5,112 150.547	5,390 151,332	
					120,125	129,4/5	130,025	132,1/5	133,525	134,075	130,225	137,5/5	130,825	140,275	141,025	142,975	144,325	140,0/5	147,025	140,3/5	149,725	150,547	101,332	
Dependen 1-15 / 16-6	cy ratios, 0.20	mean age 0.21	and sex r		0.23	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.22	0.22	0.22	0.21	0.21	0.21	0.20	
5+/16-65	0.16	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	0.23	0.24	
0-15 and 6 Median age	0.36 30.0	0.39	0.40			0.41			0.43	0.43												0.44 31.4	0.44 31.5	
∧edian ag∈ ∧edian ag∈	31.4	32.3	32.5					33.2	33.3	33.4												34.7	34.9	
Sex ratio m	104.2	103.5	104.2	104.6	105.1	105.6	105.9	106.2	106.4	106.6	106.8	106.9	107.1	107.2	107.3	107.4	107.6	107.7	107.9	108.0	108.2	108.4	108.5	
opulation	impact o	f constrain	nt +1,489	+970	+860	+714	+851	+810	+941	+975	+968	8 +849	+695	+585	5 +491	+463	+407	+480	+504	+490	+467			
		-1,070	+1,489	+9/0	+860	+/14	+851	+810	+941	+975	+968	+849	+695	+585	+491	+463	+407	+480	+504	+490	+467			
lousehold		47,833	48,277	48,853	49,436	49,989	50,480	50,965	51,509	52,085	5 52,711	53,533	54,366	55,214	56,067	56,906	57,743	58,599	59,479	60,391	61,328	62,159	62,997	20
humber or Change in F		+1,204	+444					+485	+544	+577								+856				+832	+837	•
lumber of	49,001	50,266	50,732						54,129													65,321	66,201	
nange in	over previou	+1,266	+466	+605	+613	+581	+516	+510	+572	+606	+658	8 +864	+876	+890	+897	+882	+880	+899	+925	+959	+984	+874	+880	
abour Fo	rce 62.946	64.279	64.411	64.713	65.112	65.562	65.962	66.362	66.871	67.422	67.946	68.483	69.046	69.629	70.185	70.738	71,269	71.848	72.435	73.036	73.675	74.098	74.517	
hange in L	abour Forc	+1,332	+133	+302	+399	+450	+399	+400	+510	+551	+524	+538	+563	+583	+557	+553	+531	+579	+587	+601	+639	+423	+419	
Number of	95,063 over previou	97,085 +2,023	99,848 +2,763						103,728	104,593								111,458			114,293	114,949 +656	115,599 +650	
			+2,763	+4/8	+029	+/09	+030	+031	+002	+065	+612	+034	+0/3		+054	+05/	+024	+098						

Scenario B: CCC Technical Report Population Growth, South Cambridgeshire

opula	tion Es	,act	Janu	. 0166	agið			-uillal	.ici Lib	·····GIU	and Pa												-
	nents o			hange	•		South 0	Cambri	dgeshi	re													
2	011-12 2			2014-15	2015-16	2016-17	2017-18 2	2018-19	2019-20	2020-21	2021-22	2022-23 2	023-24 2	024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31 2	2031-32 2	2032-33	
rths	915	920	937	937	942	948	954	954	953	952	951	950	947	943	940	936	932	928	925	923	921	921	-
male	871	876	893	892	897	902	909	908	907	906	906	904	902	898	895	891	888	884	881	879	877	877	
Births R	1,786 2.02	1,796	1,830	1,830	1,839 1.95	1,850 1.94	1,863	1,862	1,860 1.92	1,858 1.91	1,856	1,854	1,848	1,841	1,834	1,827	1,819	1,812	1,806 1.82	1,801	1,798	1,797	
hs input		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
aths e	494	539	537	533	541	541	556	567	570	581	591	602	614	628	641	652	665	680	695	709	725	742	
nale	485	579	540	544	538	546	557	561	565	570	578	587	592	601	610	621	633	645	658	670	686	702	
deaths R: male:	979 78.0	1,119 82.0	1,077 78.9	1,077 75.7	1,079 74.0	1,087 71.6	1,113 70.9	1,127 69.7	1,136 67.7	1,151 66.5	1,170 65.2	1,189 64.0	1,206 63.0	1,229 62.0	1,251 61.0	1,273 59.8	1,297 58.7	1,326 57.9	1,353 57.0	1,379 56.2	1,411 55.5	1,443 55.0	
R: femal	78.0	89.6	81.6	79.9	76.8	75.7	74.9	73.4	71.7	70.0	68.8	67.6	66.0	64.8	63.6	62.4	61.4	60.4	59.4	58.3	57.7	57.1	
R: perso	78.0	85.7	80.2	77.8	75.4	73.6	72.9	71.5	69.6	68.2	66.9	65.7	64.4	63.4	62.2	61.0	60.0	59.1	58.2	57.2	56.6	56.0	
ectation ectation	82.7 86.3	81.9 84.8	82.3 85.7	82.8 85.9	83.0 86.2	83.4 86.4	83.5 86.5	83.7 86.8	84.0 87.0	84.3 87.2	84.5 87.4	84.7 87.6	85.0 87.8	85.2 88.1	85.4 88.3	85.6 88.5	85.8 88.6	86.0 88.8	86.2 89.0	86.4 89.3	86.5 89.3	86.8 89.5	
ctation	84.6	83.4	84.1	84.4	84.7	85.0	85.1	85.3	85.6	85.8	86.0	86.2	86.5	86.7	86.9	87.1	87.3	87.5	87.7	87.9	88.0	88.2	
hs inp	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
nigratio	n from the	UK																					
	5,002	4,795	4,533	4,564	4,581	4,616	4,639	4,667	4,695	4,720	4,747	4,774	4,807	4,839	4,877	4,918	4,958	4,992	5,034	5,072	4,875	4,902	
ale	5,082 10,084	5,160 9,955	4,875 9,407	4,890 9,454	4,887 9,468	4,903 9,519	4,911 9,550	4,922 9,589	4,936 9,631	4,947 9,667	4,962 9,709	4,978 9,752	5,000 9,806	5,026 9,866	5,062 9,939	5,101 10,019	5,142 10,101	5,178 10,171	5,220 10,253	5,260 10,332	5,056 9,931	5,085 9,988	-
gR: mal	0.1	0.1	0.1	0.1	0.1	0.1	9,550	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
R: fem	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
ants in	-	-	-	-	-	-	-	-	-	•	-		-					•	-	-	- +		
migrati	on to the U																						
ale	4,715 4.570	4,253 4,664	4,017 4,428	4,051 4,438	4,102 4,449	4,124 4,454	4,141 4,461	4,147 4,458	4,169 4,468	4,196 4,460	4,208 4,469	4,217 4,482	4,233 4,497	4,250 4,509	4,274 4,530	4,306 4,549	4,324 4,581	4,344 4,594	4,369 4,618	4,388 4.647	4,638 4,915	4,671 4,947	
idle	9,285	8,917	4,428 8,445	4,438 8,489	4,449 8,551	4,454 8,578	4,461 8,603	4,458 8,605	4,468 8,637	4,460 8,656	8,677	4,482 8,699	8,730	4,509 8,760	4,530 8,804	4,549 8,854	4,581 8,904	4,594 8,939	4,618 8,988	9,035	9,553	9,618	
gR: mal	62.6	55.3	51.6	51.5	51.6	51.5	51.4	51.2	51.2	51.2	51.1	50.9	50.8	50.6	50.5	50.4	50.2	50.0	49.9	49.7	52.1	52.4	
gR: fem	62.6	61.8	58.0	57.7	57.6	57.4	57.3	57.1	57.0	56.8	56.6	56.5	56.4	56.1	56.0	55.7	55.6	55.3	55.1	54.9	57.6	58.0	-
nigratio	n from Ove	rseas 459	460	459	482	466	470	458	458	458	458	458	458	458	458	458	458	458	458	458	458	458	_
nale	454 375	404	405	404	482	409	412	403	403	403	403	403	403	403	403		403	403	403	403	403	403	
	829	862	864	862	902	875	881	861	861	861	861	861	861	861	861	861	861	861	861	861	861	861	
gR: mal	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
gR: fem rants in	• 0.0	•	•	•	•	• 0.0	• 0.0	•	•	•	•	• 0.0	• 0.0	•	• 0.0	• 0.0	•	•	•	• 0.0	• 0.0	• 0.0	
t-migrati e	on to Over	seas 375	375	376	375	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	-
nale	230	303	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	304	
	535	678	679	680	679	680	680	680	680	680	680	680	680	680	680		680	680	680	680	680	680	
gR: mal gR: fem	72.7 72.7	87.7 93.0	86.4 91.6	85.4 90.6	84.4 89.8	83.8 89.3	83.2 88.8	82.7 88.5	82.3 88.4	81.9 88.3	81.5 88.2	81.2 88.1	80.9 88.1	80.5 87.9	80.0 87.7	79.5 87.3	79.0 86.8	78.4 86.3	77.8 85.6	77.1 85.0	76.5 84.2	76.5 84.5	-
rants in		•	•	•	•	•	• ' '	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
gration -	Net Flows																						-
	+799	+1,039	+962	+965	+917	+941	+948	+983	+994	+1,011	+1,032	+1,053	+1,076	+1,106	+1,135	+1,165	+1,196	+1,232	+1,266	+1,296	+378	+369	
rseas	+294	+184	+185	+183	+223	+195	+201	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	
mmary c	f population	on change																					
ural cha	+807	+677	+752	+752	+760	+763		+735	+724	+707	+687	+665	+642	+612	+583		+522	+486	+453	+422	+387	+354	
change	+1,093	+1,223	+1,148	+1,148	+1,140	+1,137	+1,149	+1,165	+1,176	+1,193	+1,213	+1,235	+1,258	+1,288	+1,317	+1,346	+1,378	+1,414	+1,447	+1,478	+559	+551 +905	-
ide Birth	11.84	11.76	11.84	11.69	11.61	11.54	11.49	11.35	11.20	11.07	10.93	10.80	10.65	10.49	10.34	10.19	10.04	9.90	9.76	9.64	9.55	9.50	
de Dea	6.49	7.33	6.97	6.88	6.81	6.78	6.86	6.87	6.84	6.85	6.89	6.93	6.95	7.00	7.05	7.10	7.16	7.24	7.31	7.38	7.49	7.63	
ide Net I	7.25	8.01	7.42	7.33	7.20	7.09	7.09	7.10	7.08	7.10	7.15	7.19	7.25	7.34	7.42	7.51	7.60	7.72	7.82	7.91	2.97	2.91	
ımma	ry of Po	pulatio	n estir	nates/f	orecas	ts																	
F	Population a	t mid-year																					
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0	9,423 10,945	9,343 10,970	9,272 11,290	9,228 11,595	9,263 11,825	9,285 11,996	9,345 12,122	9,412 12,168	9,442 12,141	9,470 12,120	9,487 12,163	9,493 12,189	9,485 12,245	9,473 12,314	9,457 12,352	9,436 12,388	9,410 12,415	9,378 12,431	9,345 12,429	9,312 12,420	9,282	9,241 12,332	9,209 12,254
15	9,179	9,093	8,999	8,979	9,010	9,209		9,582	9,896	10,190	10,351	10,511	10,571	10,528	12,352		12,415	10,626	10,699	10,745	10,787	10,783	10,767
17	3,818	3,836	3,633	3,492	3,372	3,235	3,224	3,278	3,298	3,336	3,429	3,531	3,642	3,810	3,895	3,855	3,851	3,864	3,839	3,847	3,875	3,865	3,864
59Fema 55 -74	86,540 18,245	87,442 18,975	88,483 19,561	89,364 20,078	90,241 20,526	90,993 21,168	91,759 21,528	92,419 21,740	93,120 21,949	93,799 22,120	94,396 22,399	94,996 22,228	95,585 22,403	96,183 22,732	96,871 23,122	97,618 23,597	98,319 24,140	99,028 24,705	99,697 25,336	100,407 25,959	101,123 26,471	101,172 26,942	101,289 27,253
B4	18,245 8,243	8,421	8,670	8,914	9,148	9,213		9,976	10,478	10,969	11,467	12,420	13,095	13,613	14,072		14,918	15,085	25,336 15,231	15,322	15,502	15,272	15,300
·	3,449	3,662	3,734	3,892	4,056	4,243	4,416	4,568	4,718	4,938	5,150	5,374	5,615	5,889	6,150	6,308	6,606	7,025	7,466	7,931	8,395	9,183	9,757
al	149,842	151,742	153,642	155,542	157,442	159,342	161,242	163,142	165,042	166,942	168,842	170,742	172,642	174,542	176,442	178,342	180,242	182,142	184,042	185,942	187,842	188,788	189,693
pendenc	y ratios, m	ean age a	nd sex ra	tio																			
16-6	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29
/ 16-65 5 and 6	0.26	0.28	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33 0.64	0.33	0.34	0.34	0.35	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.42
lian age	39.2	39.3	39.5	39.6	39.8	39.9	40.0	40.1	40.2	40.3	40.5	40.7	40.8	41.0	41.2	41.4	41.6	41.8	42.0	42.2	42.4	42.7	43.0
an age atio m	41.0 98.8	41.2 98.6	41.4 98.8	41.6 98.9	41.8 99.0	42.0 99.1	42.2 99.2	42.3 99.3	42.4 99.4	42.5 99.6	42.7 99.6	42.8 99.7	43.0 99.8	43.2 99.9	43.4 100.0	43.6 100.0	43.8 100.1	44.0 100.2	44.2 100.2	44.4 100.3	44.6 100.4	44.9 100.4	45.2 100.5
aud III	a0.0	a0.0	0.00	90.9	au.U	99.1	89.2	au.3	<i>3</i> 9.4	99.0	d9.0	1.66	ad.0	89.9	100.0	100.0	100.1	100.2	100.2	100.3	100.4	100.4	100.5
ude#	lmw																						
uiation	impact of ersons	+486	+63	+86	+121	+89	+134	+156	+185	+243	+293	+358	+424	+503	+568	+639	+706	+771	+799	+850	+902		-
ber of pe					.=/					5			-										
		64.011	00.054	00.07	0103	00.00	00.000	67.10-	60.00-	60.01-	70.040	74 ***	70.704	74.00	75.05	70.45	77.74	70.04	00.00-	04.004	00.050	02 000	04.004
useholds	60,394	61,041 +647	62,051 +1,010	63,072 +1,021	64,071 +998	65,061 +990	66,096 +1,035	67,185 +1,088	68,227 +1,043	69,242 +1,015	70,246 +1,004	71,510 +1,264	72,761 +1,251	74,021 +1,260	75,256 +1,236	76,493 +1,237	77,740 +1,247	79,012 +1,272	80,309 +1,297	81,606 +1,297	82,950 +1,345	83,986 +1,036	84,984 +998
seholds	ouseholds	62,968	64,010	65,063	66,093	67,115	68,183	69,305	70,381	71,428	72,464	73,767	75,058	76,357	77,632	78,908	80,194	81,506	82,844	84,182	85,569	86,637	87,667
nseholds nber of nge in He	62,301		4 0 40	+1,053	+1,030	+1,022	+1,068	+1,123	+1,076	+1,047	+1,036	+1,304	+1,291	+1,299	+1,275	+1,276	+1,286	+1,312	+1,338	+1,338	+1,387	+1,068	+1,030
seholds ber of nge in Ho		+668	+1,042	,																			
seholds ber of nge in He ber of	62,301		+1,042	,																			
seholds ber of nge in Ho ber of nge in o	62,301 ver previou	+668																					
seholds ber of nge in He ber of nge in o	62,301 ver previou		85,337 +1,246	86,462 +1,125	87,478 +1,015	88,463 +985	89,329 +866	90,247	91,195 +948	92,150 +955	92,898 +748	93,691 +793	94,511	95,327 +816	96,156 +829	96,968 +812	97,793 +825	98,628 +835	99,440 +812	100,282	101,136 +853	101,354 +218	101,561

Scenario C: 10 Year Migration, All Areas

Popul	ation E	Stima	tes and	Forec	casts			Natha	niel Lic	hfield	and Pa	artners	3											
Compo	onents	of Pop	ulation	Change	е		All Are	as																
	Year begin	nning July 1	st																					
Births	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
Male Female	1,697 1,616	1,721	1,728	1,717	1,715	1,726		1,729 1,647	1,728	1,736		1,740	1,747	1,743 1,660		1,735 1,652	1,731	1,727 1,644	1,723	1,714	1,712 1,630	1,710 1,629		
All Births	3,313		3,374		3,349	3,369		3,376	3,373			3,398		3,403		3,387	3,379	3,371	3,363	3,347	3,342	3,339		
TFR Births input	1.65	1.68	1.70	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.70	1.70	1.69	1.69	1.69	1.68	1.67	1.67	1.66		
Deaths Male	885	956	924	920	930	932	948	960	963	978	991	1,005	1,022	1,039	1,058	1,074	1,093	1,116	1,137	1,161	1,185	1,211		
Female	933			954	944	959		966	970			994		1,011		1,036	1,052	1,069	1,087	1,107	1,129	1,153		
All deaths SMR: male:	1,818	1,985	1,874	1,874 81.5		1,890 77.0		1,926 74.1	1,933 71.9	1,954 70.5		2,000		2,050 65.3		2,110 63.1	2,145 62.0	2,185 61.3	2,225 60.4	2,268 59.7	2,314 59.1	2,364 58.4		
SMR: femal				83.6 82.6		79.7 78.3		76.3	74.6	73.0		70.4		67.6		65.2 64.1	64.3 63.1	63.3 62.3		61.6	61.0			
Expectation				82.6	82.4	78.3 82.8		75.2 83.3	73.2 83.7	83.9		69.0 84.4		66.4 84.9		85.3	85.5	85.7	85.9	60.6 86.0	86.1	59.4 86.3		
Expectation Expectation	85.0	84.2 82.6	85.2 83.5	85.5 83.9	85.9 84.2	86.0 84.5		86.5 85.0	86.8 85.3	87.0 85.5		87.4 86.0		87.9 86.4		88.3 86.8	88.5 87.0	88.6 87.2	88.8 87.4	89.0 87.5	89.1 87.6	89.2 87.8		
Deaths inp		02.0	63.3	03.5	04.2	04.0	04.7	00.0	60.3	00.0	00.0	00.0	00.2	00.4	30.0	00.0	67.0	07.2	07.4	07.3	67.0	07.0		
In-migrati	on from th	ne UK																						
Male	11,946	11,071	11,041	11,061	11,077	11,098		11,131	11,141	11,157		11,185		11,197		11,202	11,200	11,198	11,201	11,200	11,199	11,202		
Female All	11,446 23,392	11,127 22,198	11,237 22,278	11,216 22,277	11,201 22,278	11,183 22,281	11,165 22,280	11,149 22,280	11,136 22,277	11,120 22,277	11,105 22,280	11,098 22,283		11,080 22,277	11,078 22,282	11,081 22,283	11,080 22,280	11,083 22,281	11,079 22,280	11,079 22,279	11,079 22,278	11,085 22,287		
SMigR: ma		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.2		0.2		0.2	0.2	0.2	0.2	0.2	0.2	0.2		
SMigR: fem Migrants in		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
	tion to the	IIK																						
Out-migra Male	11,818	12,227	11,027	11,050	11,096	11,152	11,175	11,195	11,208	11,242	11,250	11,258	11,270	11,270	11,263	11,271	11,256	11,255	11,258	11,251	11,251	11,245		
Female All	11,676 23,493	11,578 23,805	11,412 22,439	11,392 22,442	11,345 22,441	11,292 22,444	11,263 22,438	11,248 22,443	11,233 22,441	11,204 22,446		11,183 22,441	11,170 22,440	11,172 22,442		11,170 22,441	11,184 22,440	11,185 22,440	11,184 22,442	11,189 22,440	11,192 22,443	11,192 22,437		
SMigR: ma	71.1	72.8	65.8	65.6	65.5	65.4	65.0	64.7	64.3	64.1	63.7	63.3	62.9	62.5	61.9	61.4	60.7	60.2	59.6	59.1	58.6	58.1		
SMigR: fem Migrants in		72.7	71.1	71.1	70.8	70.4	69.9	69.7	69.4	69.1	68.8	68.5	68.0	67.6	67.1	66.5	66.0	65.6	65.1	64.7	64.3	63.9		
In-migrati Male	on from O	verseas 2,583	3,553	3,551	3,568	3,558	3,561	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551	3,551		
Female	2,523	2,133	2,802	2,802	2,792	2,797	2,793	2,802	2,802	2,802		2,802	2,802	2,802		2,802	2,802	2,802	2,802	2,802	2,802	2,802		
All SMigR: ma	5,578			6,353				6,353	6,353			6,353		6,353		6,353	6,353	6,353		6,353	6,353	6,353		
SMigR: fem				0.0				0.0				0.0		0.0			0.0	0.0		0.0	0.0	0.0		
Migrants in	put																							
	ition to Ov																							
Male Female	1,911	1,617	2,506	2,506 2,012	2,506 2,012	2,506 2,012		2,506 2,012	2,506 2,012			2,506 2,012		2,506		2,506 2,012	2,506 2,012	2,506 2,012		2,506 2,012	2,506 2,012	2,506 2,012		
All	3,316	2,795	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518	4,518		
SMigR: mail SMigR: fem		163.3	254.8 276.0	253.8 276.7	252.8 277.5	251.9 278.2		249.4 278.4	248.0 278.4	246.7 278.6		244.4 279.2		242.1 278.7	240.6 278.0	238.9 277.1	237.1 275.8	235.1 274.3	233.1 272.9	231.1 271.3	229.2 269.7	227.3 268.2		
Migrants in	put																							
	- Net Flow																							
UK Overseas	-101 +2.262	-1,607 +1,921	-161 +1.837	-165 +1,835	-163 +1.842	-163 +1,837		-163 +1.835	-164 +1.835	-169 +1.835		-158 +1,835		-165 +1.835		-158 +1,835	-160 +1.835	-159 +1.835	-162 +1,835	-161 +1.835	-165 +1,835	-150 +1.835		
Natural cha	of popula +1,495	+1,375		+1,477	+1,475	+1,479	+1,471	+1,451	+1,440	+1,435	+1,418	+1,398	+1,389	+1,353	+1,314	+1,277	+1,234	+1,186	+1,138	+1,079	+1,027	+976		2011-20 +27,38
Net migration	+2,161	+314		+1,670 +3,147		+1,674		+1,672	+1,671	+1,666		+1,677	+1,675	+1,670		+1,677 +2,954	+1,675 +2,909	+1,676 +2,862	+1,673	+1,674 +2,753	+1,670 +2,697	+1,685 +2,661		+32,60
Crude Birth		12.12		11.86	11.72	11.66		11.44	11.31	11.24		11.04		10.85		10.59	10.47	10.35		10.11	10.01	9.92		+35,55
Crude Dea	6.63	7.16		6.63 5.91	6.56 5.87	6.54 5.79		6.52 5.66	6.48 5.60	6.48 5.53		6.50 5.45		6.53 5.32		6.60 5.24	6.65 5.19	6.71 5.15	6.77 5.09	6.85 5.05	6.93 5.00	7.02 5.01		
Summ	ary of F			imates/	forecas	sts																		
	2011	at mid-yea 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
0-4	16,045	16,391	16,440	16,493	16,678	16,761	16,859	17,083	17,093	17,116	17,153	17,178	17,195	17,230	17,260	17,268	17,263	17,249	17,213	17,177	17,134	17,092	17,056	
5-10 11-15	16,985 14,252		18,301 14,253	19,045 14,469		19,994 14,959		20,527 15,801	20,729 16,395	20,809 16,962		21,086 17,727		21,386 18,006		21,479 18,285	21,533 18,370	21,577 18,458	21,618 18,660	21,654 18,719	21,681 18,777	21,690 18,834	21,689 18,882	
16-17 18-59Fema	6,242 171,946							7,239 177,576				7,920 181,699		8,473 183,612				8,893 188,112		8,836 190,261	8,977 191,180	8,988 192,270	9,018 193,452	
60/65 -74	27,643	28,678	29,419	30,196	30,807	31,660	32,187	32,502	32,792	33,047	33,446	33,290	33,598	34,038	34,582	35,272	36,057	36,822	37,684	38,546	39,342	40,068	40,607	
75-84 85+	13,269 6,185	13,516 6,362		13,994 6,754	14,244 7,007	14,259 7,308		15,164 7,800	15,756 8,050			18,166 9,049		19,710 9,800		20,949 10,380	21,404 10,795	21,656 11,366	21,872 11,963	22,010 12,601	22,248 13,219	22,019 14,294	22,131 15,079	
Total	272,567							293,691	296,813			306,115		312,254				324,132		329,805	332,558	335,255	337,916	59,9
Depender	ncy ratios,	mean age	and sex r	atio																			-	
0-15 / 16-6	0.25	0.26	0.26	0.27	0.27	0.27		0.28	0.28	0.28		0.28		0.28		0.28	0.28	0.28		0.28	0.28	0.27	0.27	
65+ / 16-65 0-15 and 65		0.22		0.24	0.24	0.24		0.25	0.26	0.26		0.27		0.28		0.28	0.29	0.30	0.30	0.31	0.31	0.32	0.33	
Median age	34.5	34.5	34.8	34.8	34.9	35.0	35.1	35.1	35.2	35.3	35.3	35.5	35.6	35.7	35.9	36.0	36.2	36.5	36.7	36.9	37.1	37.2	37.4	
Median age Sex ratio m				37.3 101.6	37.4 101.9	37.6 102.3		37.9 102.8	38.1 103.1	38.3 103.3		38.7 103.7		39.0 104.0		39.3 104.4	39.4 104.6	39.6 104.7	39.8 104.9	40.0 105.1	40.2 105.3	40.5 105.4	40.7 105.6	
Populatio Number of	n impact o	of constrai																						
		.70	2,410																					2011
Househole Number of		108,512	109,276	110,718	112,235	113,787	115,285	116,751	118,208	119,650	121,112	123,051	124,973	126,907	128,814	130,714	132,602	134,487	136,400	138,309	140,245	142,245	144,242	2 011-20 33,2
Change in	Households	+1,489	+764	+1,442	+1,517	+1,551	+1,498	+1,466	+1,457	+1,442	+1,462	+1,939	+1,923	+1,933	+1,908	+1,899	+1,888	+1,885	+1,913	+1,909	+1,937	+2,000	+1,997	+1,6
Number of Change in	111,301 over previou	112,850 +1,549	113,645 +795	115,141 +1,496	116,717 +1,575	118,329 +1,612		121,408 +1,522	122,920 +1,512	124,416 +1,496		127,948 +2,014		131,953 +2,008		135,910 +1,974	137,872 +1,962	139,831 +1,959	141,819 +1,988	143,802 +1,983	145,814 +2,012	147,892 +2,078	149,967 +2,075	34,5: +1,7
Labour Fo	orce																							
Number of	146,095 Labour Ford			149,144 +1,368			153,742 +1,521	155,214 +1,473	156,694 +1,479	158,138 +1,445		160,454 +1,160		162,802 +1,179		165,065 +1,119	166,137 +1,072	167,208 +1,071	168,266 +1,058	169,334 +1,068	170,413 +1,079	171,485 +1,073	172,590 +1,104	24,3 +1,2
Number of			182,242	183,843		187,558	189,463	191,279	193,101	194,857	196,205	197,549		200,262	201,583	202,879	204,127	205,381	206,640	207,908	209,197	210,504	211,852	30,69
01	over previou	-1,059	+4,796	+1,600	+1,713	+2,001	+1,905	+1,816	+1,822	+1,756	+1,348	+1,344	+1,346	+1,367	+1,321	+1,297	+1,248	+1,253	+1,259	+1,268	+1,289	+1,307	+1,348	+3

Scenario C: 10 Year Migration, Cambridge

Popul	ation E	stimate	es and	Forec	asts			Natha	niel Lic	hfield	and Pa	artners	:											
Comp	onents			Change			Cambri	dge																
		ning July 1s 2012-13		2014-15 2	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
irths																								
ale male	782 745	804 766	803 765	786 749	776 739	775 738	770 733	761 725	759 723	757 721	754 718	750 715	747	737		722 688	713 679	703 670	695 661	687 654	680 648	679 647		
Births	1,527	1,570	1,568	1,536	1,516	1,512	1,503	1,487	1,482	1,478	1,472	1,465	1,458	1,439	1,419	1,410	1,391	1,373	1,356	1,341	1,327	1,327		
R ths inpu	1.31	1.34	1.36	1.35	1.35	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.34	1.33	1.33	1.32	1.31	1.30	1.29	1.28	1.28		
aths	391	416	389	386	387	385	385	384	383	386	387	390	393	397	401	405	411	417	424	432	439	447		
male	448	449	414	410	402	406	397	395	393	393	392	392	393	394		398		405	411	417	422	429		
deaths	839	866	803	796	789	791	782	779		779	780	782	786 74.4	791		803		823 68.2	834		862	876		
iR: maie IR: fema	99.2	102.0 99.8	93.8 91.7	91.3 89.9	89.6 87.3	87.2 87.0	85.4 84.2	83.1 82.6	80.8 80.7	79.3 79.2	77.4	75.9 76.2	74.7	72.9 73.3				68.3	67.2 67.4		65.6 65.8	64.7 65.0		
//R:pers		100.8	92.7	90.6	88.4	87.1	84.8	82.8	80.7	79.2	77.6	76.1	74.5	73.1				68.2	67.3		65.7	64.8		
pectation pectation	79.7 83.6	79.4 83.5	80.4 84.5	80.8 84.7	81.0 85.0	81.3 85.0	81.6 85.4	81.9 85.6	82.3 85.9	82.5 86.1	82.8 86.3	83.0 86.5	83.3 86.8	83.5 87.0		84.0 87.4		84.4 87.8	84.5 87.9	84.7 88.0	84.8 88.2	85.0 88.3		
pectation		81.5	82.5	82.8	83.1	83.3	83.6	83.8		84.4	84.6		85.1	85.3			85.9	86.1	86.3		86.6	86.7		
aths inp	•																						_	
-migrati	ion from the	e UK																						
ale	7,082	6,780	6,434	6,446	6,453	6,463	6,470	6,479		6,490	6,500	6,502	6,505	6,508		6,508		6,505	6,509		6,506	6,508		
male	6,563 13,645	6,340 13,121	6,283 12,717	6,271 12,717	6,265 12,718	6,257 12,720	6,250 12,720	6,241 12,720	6,236 12,718	6,226 12,716	6,221	6,219 12,721	6,214 12,719	6,210 12,718			6,211 12,718	6,216 12,721	6,211 12,720	6,212 12,720	6,213 12,719	6,215 12,723		
/ligR: ma	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
figR: ferr grants in		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
_	ation to the			0.000																				
ale male	6,962 6,909	7,140 7,075	6,895 6,857	6,905 6,851	6,929 6,824	6,976 6,779	6,993 6,759	7,008 6,748	7,015 6,739	7,027 6,728	7,037 6,720	7,046 6,707	7,059 6,695	7,054 6,699			7,038 6,717	7,032 6,721	7,034 6,721	7,032 6,721	7,032 6,723	7,028 6,723		
V	13,871	14,216	13,752	13,756	13,753	13,755	13,752	13,756	13,754	13,755	13,757	13,753	13,754	13,753	13,753	13,753	13,755	13,753	13,755	13,753	13,755	13,751		
MigR: ma MigR: fen		76.9 81.8	73.2 78.6	73.5 79.7	73.8 80.0	74.0 79.8	73.9 79.6	73.7 79.5	73.4 79.5	73.2 79.6	73.1 79.6	72.9 79.4	72.6 79.0	72.2 78.7				69.8 77.0	69.2 76.6		68.1 75.9	67.5 75.5		
grants in				•	•			•	•	•	•	•		•	•	•	•	•	•					
-migra+	ion from Ov	/erseas																						
ale	2,601	2,182	3,051	3,050	3,064	3,055	3,057	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050	3,050		3,050	3,050		
male I	2,148 4,749	1,802 3,984	2,361 5,412	2,362 5,412	2,351 5,415	2,357 5,412	2,355 5,412	2,362 5,412	2,362 5,412	2,362 5,412	2,362 5,412	2,362 5,412	2,362 5,412	2,362 5,412		2,362 5,412								
v VligR: ma		0.0	5,412	0.0	5,415	0.0	0.0	5,412	5,412	5,412	0.0	5,412	5,412	5,412				5,412	5,412		0.0	0.0		
MigR: fen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
grants in	•	•	•	•	•		•	•	•	•		•	•	•	•	•	•	•	•		•	•		
ut-migra	ation to Ove	erseas																						
ale emale	1,606	1,317 951	2,178 1,746	2,178 1,746	2,178 1.746	2,178 1,746	2,178 1,746	2,178 1,746		2,178 1,746	2,178 1,746	2,178 1,746	2,178 1,746	2,178 1.746				2,178 1,746	2,178 1,746		2,178 1,746	2,178 1,746		
II II	2,781	2,268	3,924	3,924	3,924	3,924	3,924	3,924	3,924	3,924	3,924	3,924	3,924	3,924		3,924	3,924	3,924	3,924		3,924	3,924		
MigR: ma		230.2	375.5	376.7	378.0	378.8	378.9	378.2	377.3	376.4	375.7	375.3	374.6	373.7		370.4	368.0	365.3	362.4		356.4	353.4		
MigR: fen igrants in		230.2	421.2	427.4	433.9	439.2	442.4	445.1	447.6	450.4	453.4	456.2	457.9	458.3	458.1	457.4	456.0	454.4	452.9	451.3	449.3	447.3		
igration K	- Net Flow -226	s -1,095	-1,035	-1,039	-1,035	-1,035	-1,032	-1,036	-1,036	-1,039	-1,036	-1,032	-1,035	-1,035	-1,033	-1,032	-1,037	-1,032	-1,035	-1,033	-1,036	-1,028		
verseas	+1,968	+1,716	+1,488	+1,488	+1,491	+1,488	+1,488	+1,488		+1,488		+1,488	+1,488	+1,488				+1,488			+1,488	+1,488		
ıımmarı	of populat	ion change																						2011
atural cha	+688	+704	+765	+740	+727	+721	+721	+707	+706	+699	+693	+683	+672	+648		+607	+578	+550	+522		+466	+450		+1
et migrati		+621	+453	+449	+456	+453	+456	+452	+452	+449	+452	+456	+453	+453		+456		+456	+453		+452 +918	+460		+1 +2
et change rude Birth		12.48	+1,218 12.34	+1,189	+1,183	+1,174 11.58	11.40	+1,159	+1,158	10.92	+1,145	+1,139	+1,125	+1,101		9.93		+1,006 9.53	9.35		9.03	+910 8.97		+2
rude Dea		6.88	6.32	6.20	6.09	6.05	5.93	5.86	5.78	5.75	5.71	5.68	5.67	5.65				5.71	5.75		5.87	5.93		
rude Net	1 14.06	4.94	3.56	3.50	3.52	3.47	3.46	3.40	3.37	3.32	3.31	3.31	3.27	3.24	3.23	3.21	3.15	3.17	3.12	3.12	3.08	3.11		
umm	ary of P	opulati	on esti	mates/f	orecas	sts																		
	Population	at mid-year																						
4	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		2026	2027	2028	2029	2030	2031	2032	2033	
4 10	6,622 6,040	6,962 6,483	7,047 6,894	7,237 7,293	7,418 7,504	7,552 7,793	7,577 8,084	7,682 8,212		7,564 8,656	7,528 8,828	7,490 8,949	7,452 8,987	7,423 9,063			7,262 8,956	7,191 8,924	7,110 8,892		6,956 8,803	6,877 8,749	6,816 8,684	
1-15	5,073	5,136	5,205	5,446	5,563	5,632	5,814	6,106	6,406	6,628	6,855	7,052	7,253	7,372	7,561	7,739	7,865	7,910	8,012	7,997	7,987	7,973	7,957	
6-17 3-59Fem	2,424 85,406	2,287 86,768	2,190 87,408	2,970 86,666	3,703 86,365	4,008 86,456	3,999 86,831	3,931 87,250	3,905 87,644	4,070 87,933		4,326 88,579	4,516 88,905	4,634 89,290		4,773 90,210		4,970 91,120	4,983 91,607	5,015 92,153	5,121 92,552	5,115 93,122	5,115 93,694	
0/65 -74	9,398	9,747	9,920	10,216	10,420	10,664	10,872	11,015	11,107	11,226	11,345	11,357	11,490	11,610	11,793	12,008	12,243	12,460	12,705	12,959	13,253	13,463	13,645	
5-84 5+	5,026 2,736	5,059 2,713	5,080 2,736	5,073 2,797	5,084 2,830		5,183 2,882	5,278 2,947		5,560 3,102		6,014 3,265	6,195 3,374	6,440 3,464				7,111 3,879			7,394 4,428	7,381 4,732	7,454 4,958	
otal	122,725	125,155	126,480	127,698	128,886	130,069	131,244	132,421	133,580	134,738	135,887	137,031	138,170	139,295				143,566			146,494	147,412	148,322	2
	neu re*!	maan	and c	al a																				
e pende 15 / 16-6	ncy ratios, i	mean age a	and sex ra	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.23	0.23	
+/16-65	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22	0.23	
15 and 6 edian ag		0.37 30.0	0.37 29.9	0.39 29.8	0.39	0.40 29.7	0.40 29.7	0.41 29.8	0.42 29.9	0.42 30.0		0.43	0.44 30.6	0.44				0.45 31.1	0.45 31.1		0.45 31.3	0.45	0.46 31.4	
edian ag		31.5	31.6	31.7	31.8	31.9	32.0	32.1	32.1	32.3		32.6	32.7	32.9				33.8	34.0		34.3	34.5	34.6	
x ratio m	104.2	105.1	105.8	106.5	107.2	107.8	108.3	108.7	109.1	109.4	109.8	110.1	110.4	110.7	110.9	111.2	111.5	111.8	112.1	112.5	112.8	113.1	113.4	
	on impact o																							
ımber of	persons	+10	-413																					
ousehol																								201
umber of		47,317	47,653	48,085	48,625		49,811	50,331	50,820	51,276		52,475	53,195	53,927				56,934			59,183	59,960	60,747	
hange in umber of	Households 49,001	+688 49,724	+336 50,077	+432 50,531	+540 51,098		+575 52,344	+520 52,891	+489 53,405	+456 53,884		+717 55,144	+720 55,900	+733 56,670				+742 59,830			+746 62,193	+777 63,010	+786 63,836	
	over previou		+353	+454	+567		+605	+547	+514	+479			+756	+770				+779			+784	+817	+826	
abour F																								
umber of	62,946 Labour Forc	64,010 +1,064	64,535 +525	64,853 +318	65,230 +377	65,793 +562	66,375 +583	66,881 +505	67,383 +503	67,825 +442	68,184	68,530 +346	68,863 +334	69,215 +352				70,548 +341	70,922 +374		71,685 +390	72,119 +434	72,570 +451	
ange in		96,680	100,040	100,544	101,139		102,936	103,731	104,521	105,218	105,775	106,311	106,829	107,375				109,443	110,023		111,206	111,879	112,579	1
umber of	95,063	50,000														+516		+529						-

Scenario C: 10 year Migration, South Cambridgeshire

	tion Es										and Pa												
	nents o		ation C	hange			South (Cambri	dgeshi	re													
	Year beginni 2011-12 20		013-14 2	014-15 20	015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24 2	024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32 2	032-33	
ths																							
nale	915 871	916 873	925 881	930 886	939 894	951 906	962 916	968 922	969 922	979 932	984 937	990 943	1,000 953	1,006 958	1,012 964	1,013 964	1,018 970	1,023 975	1,028 979	1,027	1,032 983	1,031 982	
Births	1,786	1,789	1,806	1,816	1,833	1,857	1,879	1,890	1,891	1,911	1,922	1,933	1,953	1,964	1,976	1,977	1,988	1,998	2,007	2,006	2,014	2,013	
s input	2.02	2.03	2.05	2.04	2.04	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.05	2.05	2.04	
ths	494	539	534	534	543	547	563	575	580	592	604	615	628	642	657	669	682	699	713	729	746	764	
nale	485	580	537	545	542	553	566	571	577	583	593	602	607	617	627	638	650	664	677	690	707	724	
eaths : male:	979 78.0	1,119 82.5	1,071 79.1	1,078 75.7	1,085 73.8	1,099 71.2	1,129 70.4	1,146 69.1	1,157 67.0	1,176 65.8	1,196 64.5	1,217 63.3	1,236 62.3	1,259 61.4	1,284 60.5	1,307 59.4	1,332 58.4	1,363 57.8	1,390 57.0	1,419 56.3	1,452 55.8	1,488 55.3	
femal	78.0	89.3	81.2	79.4	76.2	75.0	74.1	72.5	70.9	69.3	68.1	67.0	65.5	64.4	63.3	62.3	61.4	60.6	59.7	58.9	58.5	58.0	
: perso	78.0 82.7	85.9 82.0	80.1 82.5	77.5 83.1	75.0 83.4	73.1 83.8	72.2 84.0	70.8 84.2	68.9 84.6	67.5 84.8	66.2 85.1	65.1 85.3	63.8 85.5	62.8 85.7	61.8 85.9	60.8 86.1	59.8 86.3	59.1 86.4	58.3 86.6	57.5 86.8	57.1 86.9	56.6 87.0	
ctation	86.3	84.8	85.8	86.1	86.5	86.7	86.8	87.1	87.3	87.6	87.8	88.0	88.3	88.5	88.7	88.8	89.0	89.2	89.3	89.5	89.6	89.7	
ctation	84.6	83.4	84.3	84.6	85.0	85.3	85.5	85.7	86.0	86.3	86.5	86.7	86.9	87.1	87.3	87.5	87.7	87.8	88.0	88.2	88.3	88.4	
ns inp																							
gratio	n from the																						
ale	4,865 4,882	4,291 4,787	4,607 4.954	4,615 4.945	4,624 4,936	4,635 4,926	4,645 4.915	4,652 4,908	4,659 4,900	4,667 4,894	4,675 4,884	4,683 4,879	4,685 4,876	4,689 4,870	4,693 4,869	4,694 4.868	4,693 4,869	4,693 4.867	4,692 4,868	4,692 4,867	4,693 4.866	4,694 4.870	
	9,747	9,078	9,561	9,560	9,560	9,561	9,560	9,560	9,559	9,561	9,559	9,562	9,561	9,559	9,562	9,562	9,562	9,560	9,560	9,559	9,559	9,564	
R: mal R: fem	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	_
nts in	•	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	•	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	• 0.1	
niera	ion to the U	ık																					
myrai	4,856	5,087	4,132	4,145	4,167	4,176	4,182	4,187	4,193	4,215	4,213	4,212	4,211	4,216	4,217	4,224	4,218	4,223	4,224	4,219	4,219	4,217	
ale	4,766	4,502	4,555	4,541	4,521	4,513	4,504	4,500	4,494	4,476	4,473	4,476	4,475	4,473	4,470	4,464	4,467	4,464	4,463	4,468	4,469	4,469	
R: mal	9,622 64.5	9,589 67.7	8,687 56.4	8,686 55.7	8,688 55.2	8,689 54.6	8,686 54.1	8,687 53.7	8,687 53.2	8,691 53.0	8,686 52.5	8,688 52.0	8,686 51.4	8,689 51.0	8,687 50.5	8,688 50.0	8,685 49.4	8,687 48.9	8,687 48.4	8,687 48.0	8,688 47.6	8,686 47.2	
R: fem	65.3	61.8	62.2	61.2	60.4	59.7	59.2	58.8	58.3	57.7	57.2	56.8	56.3	55.8	55.3	54.6	54.1	53.6	53.1	52.7	52.2	51.8	
ints in	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
igratio	n from Ove	rseas																					
ale	454	401	502	501	504	503	504	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	
ile	375 829	331 732	441 943	440 941	441 945	440 943	438 942	440 941															
R: mal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
R: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	_
migra	ion to Over	seas 301	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	_
ale	230	226	328 266	266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	328 266	
D. a.	535	527	594	594	594	594	594	594	594	594	594	594	594	594	594	594	594	594	594	594	594	594	
R: mal R: fem	72.7 72.7	71.9 71.9	81.3 84.6	80.2 83.5	79.0 82.5	78.1 81.7	77.2 81.0	76.4 80.5	75.7 80.0	75.0 79.5	74.4 79.1	73.7 78.7	73.1 78.4	72.5 78.0	71.8 77.7	71.2 77.2	70.5 76.7	69.8 76.2	69.2 75.6	68.6 75.0	68.0 74.4	67.4 73.9	
ints in	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		•	
ation -	Net Flows																						
	+125	-512	+874	+874	+872	+872	+874	+873	+872	+870	+873	+874	+875	+870	+875	+874	+877	+873	+873	+872	+871	+878	
seas	+294	+205	+349	+347	+351	+349	+348	+347	+347	+347	+347	+347	+347	+347	+347	+347	+347	+347	+347	+347	+347	+347	
	of population																						
al cha	+807	+671	+735 +1,223	+738 +1,221	+748	+758 +1,221	+750 +1,222	+743	+734 +1,219	+735 +1,217	+725 +1,220	+715 +1,221	+717 +1,222	+705 +1,217	+691	+670 +1,221	+656 +1,224	+635	+617	+587 +1,219	+562	+525 +1,225	
hange	+1,226	+364	+1,223	+1,959	+1,223	+1,221	+1,222	+1,963	+1,219	+1,217	+1,220	+1,936	+1,222	+1,922	+1,913	+1,891	+1,224	+1,220	+1,837	+1,219	+1,780	+1,750	
e Birth	11.87	11.83	11.85	11.76	11.73	11.73	11.72	11.65	11.52	11.50	11.43	11.36	11.36	11.29	11.23	11.12	11.07	11.01	10.95	10.83	10.77	10.67	
e Deal e Net I	6.51 2.78	7.40 -2.03	7.03 8.02	6.99 7.91	6.94 7.82	6.94 7.71	7.04 7.62	7.06 7.52	7.05 7.42	7.07 7.32	7.12 7.26	7.16 7.18	7.19 7.11	7.24	7.30 6.95	7.35 6.87	7.42 6.81	7.51 6.72	7.58 6.65	7.66 6.58	7.77 6.51	7.88 6.49	
	ry of Po		n estin	nates/fo	recas	its																	_
	Population a	t mid-year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	9,423	9,429	9,393	9,256	9,260	9,208	9,282	9,401	9,480	9,552	9,626	9,689	9,743	9,808	9,881	9,946	10,002	10,058	10,103	10,146	10,178	10,215	10,240
	10,945	11,216	11,407	11,752	11,992	12,201	12,300	12,315	12,252	12,153	12,167	12,137	12,205	12,323	12,403	12,492	12,577	12,653	12,726	12,799	12,878	12,941	13,005
7	9,179 3,818	9,096 3,836	9,048 3,799	9,023 3,620	9,073 3,423	9,327 3,229	9,482 3,227	9,695 3,308	9,989 3,350	10,334 3,384	10,482 3,482	10,675 3,594	10,729 3,676	10,634 3,838	10,547 3,976	10,546 3,935	10,505 3,930	10,548 3,922	10,648 3,828	10,722 3,821	10,790 3,856	10,861 3,873	10,925 3,903
Fema	86,540	86,454	85,880	86,880	87,875	88,754	89,600	90,327	91,101	91,850	92,497	93,120	93,734	94,322	94,998	95,716	96,376	96,992	97,566	98,109	98,627	99,148	99,758
5 -74 4	18,245 8,243	18,931 8,457	19,499 8.672	19,980 8.921	20,388 9.161	20,997 9,170	21,315 9,422	21,487 9.886	21,684 10.341	21,821	22,101 11,254	21,933 12,152	22,108 12,782	22,428 13.270	22,788 13.674	23,264 14,131	23,814 14,417	24,362 14.545	24,979 14.666	25,587 14,715	26,089 14,853	26,606 14.637	26,963 14,678
	3,449	3,649	3,734	3,957	4,177	4,433	4,670	4,852	5,036	5,292	5,530	5,784	6,043	6,337	6,615	6,764	7,067	7,486	7,905	8,358	8,791	9,562	10,122
	149,842	151,068	151,432	153,390	155,348	157,320	159,298	161,270	163,233	165,186	167,139	169,084	171,020	172,959	174,881	176,795	178,686	180,566	182,421	184,258	186,064	187,844	189,594
enden	cy ratios, m	ean age a	nd sex rat	io																			_
16-6	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
16-65 and 6	0.26 0.57	0.28	0.29	0.30	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.34	0.35	0.35	0.36	0.36	0.37 0.68	0.38	0.39	0.40	0.40	0.41	0.42
and 6: an age	39.2	39.5	40.2	40.4	40.5	40.6	40.8	40.8	40.9	40.9	41.0	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.2	42.3	42.5
ın age	41.0	41.4	41.7	41.9	42.1	42.3		42.6	42.8	42.9	43.0	43.1	43.3	43.5	43.7	43.8	44.0	44.2	44.3	44.5	44.6	44.7	44.9
itio m	98.8	98.7	97.4	97.6	97.8	97.9	98.1	98.2	98.4	98.5	98.6	98.7	98.9	99.0	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.9
	impact of e	constraint	-997																				_
on UI	CIOUIIO	-100	-991																				
sehold									ar														20.00
er of ge in F	60,394 louseholds	61,195 +801	61,623 +428	62,633 +1,010	63,611 +977	64,551 +941	65,474 +923	66,420 +946	67,388 +968	68,373 +985	69,354 +981	70,576 +1,222	71,779 +1,203	72,980 +1,201	74,135 +1,156	75,278 +1,143	76,410 +1,132	77,553 +1,143	78,715 +1,162	79,871 +1,156	81,062 +1,191	82,285 +1,223	83,495 +1,211
ber of	62,301	63,126	63,568	64,610	65,619	66,589	67,541	68,517	69,515	70,532	71,543	72,804	74,045	75,283	76,476	77,654	78,822	80,001	81,200	82,393	83,621	84,882	86,131
ge in o	over previou	+826	+442	+1,042	+1,008	+971	+952	+976	+998	+1,017	+1,012	+1,260	+1,241	+1,238	+1,192	+1,179	+1,167	+1,179	+1,199	+1,193	+1,228	+1,261	+1,249
ur Fo		00.50	00.00	0.00									00.0								60 F		400.4
er of	83,149 abour Forc	83,520 +371	83,241 -279	84,290 +1,049	85,359 +1,069	86,428 +1,069	87,366 +938	88,334 +968	89,310 +977	90,313 +1,003	91,110 +797	91,924 +814	92,760 +835	93,586 +827	94,400 +814	95,187 +786	95,929 +743	96,659 +730	97,344 +685	98,038 +695	98,728 +689	99,366 +639	100,019 +653
nge in L ber of	83,443 over previou	80,767 -2,676	82,203 +1,436	83,299 +1,097	84,417 +1,118	85,536 +1,119	86,526 +991	87,548 +1,021	88,580 +1,032	89,639 +1,059	90,430 +791	91,238 +808	92,067 +829	92,888 +821	93,696 +808	94,476 +780	95,213 +737	95,938 +724	96,617 +679	97,307 +689	97,991 +684	98,625 +634	99,273 +648

Scenario D: CCC Jobs Forecast, All Areas

0 0 0000	tion Es	stimat	es and	Forec	asts			Nathai	niei Lic	htield	and Pa	artners											
ompo	nents c	of Popu	ılation	Change	,		All Area	as															
	ear beginn																						
irths 2	2011-12 2	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	
ale	1,697	1,706	1,723	1,726	1,738	1,756	1,775	1,783	1,790	1,806	1,824	1,841	1,861	1,868	1,875			1,898			1,914	1,922	
male Il Births	1,616 3,313	1,625 3,331	1,641 3,364	1,644 3,370	1,655 3,393	1,672 3,429	1,691 3,466	1,698 3,481	1,705 3,495	1,720 3,527	1,737 3,562	1,753 3,594	1,772 3,633	1,779 3,648	1,786 3,661	1,794 3,677	1,801 3,691	1,808 3,705			1,823 3,737	1,831 3,753	
R	1.66	1.68	1.70	1.69	1.69	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.71	1.70	1.70	1.70	1.69	1.69	1.68	1.67	1.67	1.67	
irths input																							
eaths																							
lale	885	956	924	922	933	936	954	967	973	989	1,004	1,021	1,040	1,059	1,081	1,099		1,146			1,224	1,253	
emale II deaths	933	1,029	951 1,874	955 1,877	946 1,879	961 1,897	967 1,921	972 1,939	977 1,950	985 1,974	997 2,001	1,009 2,030	1,017 2,057	1,031 2,090	1,046 2,126		1,082	1,101 2,248			1,171 2,396	1,199 2,452	
MR: male	86.2	90.0	84.7	81.6	79.7	77.1	75.8	74.1	71.9	70.6	69.0	67.7	66.5	65.4	64.3		62.1	61.3	60.4	59.7	59.1	58.4	
MR: fema MR: perso	86.9 86.5	93.6 91.8	85.5 85.1	83.6 82.6	80.6 80.1	79.7 78.4	78.0 76.9	76.3 75.2	74.6 73.2	73.0 71.8	71.7 70.3	70.4 69.0	68.9 67.6	67.6 66.5	66.4 65.3	65.3 64.2		63.3 62.3		61.6	61.1 60.0	60.4 59.4	
xpectation	81.4	80.9	81.6	82.1	82.4	82.8	83.0	83.3	83.7	83.9	84.2	84.4	84.7	84.9	85.1	85.3		85.7			86.1	86.3	
xpectation	85.0	84.2	85.2	85.5	85.9	86.0		86.5	86.8	87.0	87.2	87.4	87.7	87.9	88.1	88.3		88.6			89.1	89.2	
xpectation eaths input	83.3	82.6	83.5	83.9	84.2	84.5	84.7	85.0	85.3	85.5	85.7	86.0	86.2	86.4	86.6	86.8	87.0	87.2	87.4	87.5	87.6	87.8	
baaro inpa																							
	n from the																						
fale emale	11,070 11,893	11,121	12,039 12,217	11,830 11,978	11,683 11,797	11,997 12,069	11,987 12,027	11,972 11,980	11,976 11,960	12,226 12,181	12,206 12,135	12,186 12,102	12,195 12,092	12,295 12,180	12,439 12,309			12,792 12,673		12,949 12,821	13,014 12,894	13,083 12,961	
II .	22,963	23,052	24,255	23,808	23,480	24,066	24,015	23,952	23,936	24,407	24,341	24,288	24,286	24,475	24,748	25,045	25,249	25,465	25,655	25,770	25,908	26,044	
MigR: ma	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			0.2		0.2	0.2	0.2	
MigR: fem ligrants inpi		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
		IIIZ																					
out-migrati Nale	11,085	UK 11,679	10,974	10,965	11,055	11,125	11,142	11,146	11,162	11,172	11,163	11,153	11,173	11,214	11,300	11,403	11,504	11,605	11,715	11,794	11,870	11,954	
emale	11,980	11,692	11,352	11,303	11,300	11,265	11,235	11,204	11,193	11,147	11,121	11,095	11,089	11,138	11,233	11,323	11,453	11,553	11,657	11,748	11,831	11,913	
// MigR: ma	23,064 66.7	23,370 69.5	22,326 65.5	22,268 64.6	22,355 64.5	22,390 64.3	22,378 63.7	22,350 63.1	22,355 62.7	22,319 62.2	22,284 61.5	22,249 60.9	22,263 60.3	22,352 59.9	22,532 59.6	22,726 59.4		23,159 58.9			23,701 58.2	23,867 58.0	
MigR: ma MigR: fem	75.6	69.5 73.4	65.5 70.7	69.8	69.4	68.9	63.7	67.5	62.7	62.2	65.7	64.9	60.3	59.9 63.8	59.6 63.6			58.9 62.9		62.5	58.2 62.2	58.0 62.1	
ligrants inpo	ut																						
)-migratio	n from Ov	erseas																					
fale	3,117	2,727	2,734	2,727	2,856	2,769	2,789	2,724	2,724	2,724	2,724	2,724	2,724	2,724	2,724			2,724			2,724	2,724	
emale	2,461	2,160	2,165	2,160	2,241	2,187	2,199	2,158	2,158		2,158	2,158	2,158	2,158	2,158						2,158	2,158	
// MigR: ma	5,578	4,887	4,898	4,887	5,097	4,956	4,988	4,881	4,881	4,881	4,881	4,881	4,881 0.0	4,881	4,881	4,881	4,881	4,881		4,881	4,881	4,881	
MigR: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
figrants inpu	ut																						
ut-migrat	ion to Ove	rseas																					
fale	1,829	2,345	2,347	2,349	2,347	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349	2,349			2,349			2,349	2,349	
emale //	1,487 3,316	1,882 4,227	1,884 4,231	1,886 4,235	1,884 4,231	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235	1,886 4,235			1,886 4,235		1,886	1,886 4,235	1,886 4,235	
MigR: ma	186.6	236.8	238.6	236.5	234.2	232.9	230.8	228.8	227.2	225.6	223.6	221.7	219.8	217.9	215.8	213.5		208.5		203.7	201.4	199.3	
MigR: fem	204.6	258.3	258.4	256.8	255.2	255.1	253.6	252.3	251.3	250.5	249.1	247.7	246.1	244.3	242.3	240.1	237.5	234.9	232.5	230.1	227.8	225.7	
figrants inpo	ut																						
igration -	Net Flows	3																					
Verseas	-101 +2,262	-318 +661	+1,929 +668	+1,540 +652	+1,125 +867	+1,676	+1,637 +753	+1,602 +646	+1,581 +646	+2,088	+2,057 +646	+2,039 +646	+2,024 +646	+2,122 +646	+2,216 +646	+2,319		+2,307 +646			+2,207 +646	+2,177 +646	
verseas	+2,202	+001	+000	+632	+00/	+/21	+/53	+040	+040	+040	+646	+040	+040	+046	+040	+040	+646	+646	+040	+040	+040	+040	
	of populati																						
atural cha et migrati	+1,495 +2,161	+1,346	+1,490 +2,597	+1,493	+1,514 +1,992	+1,532	+1,545 +2,390	+1,542 +2,248	+1,545 +2,227	+1,553 +2,734	+1,561 +2,704	+1,564 +2,685	+1,576 +2,670	+1,558 +2,769	+1,535 +2,862			+1,458 +2,953			+1,341	+1,301 +2,823	
let change	+3,656	+1,689	+4,087	+3,684	+3,505	+3,928	+3,935	+3,791	+3,773	+4,287	+4,265	+4,250	+4,246	+4,327	+4,397	+4,481	+4,428	+4,411	+4,355	+4,255	+4,194	+4,124	
rude Birth	12.07 6.63	12.02 7.16	12.02 6.69	11.87 6.61	11.80 6.54	11.78 6.52	11.75 6.51	11.65 6.49	11.55 6.44	11.50 6.44	11.45 6.43	11.40 6.44	11.37 6.44	11.26 6.45	11.16 6.48	11.05 6.50	10.95	10.85 6.58		10.63	10.54 6.76	10.47 6.84	
rude Net I	7.88	1.24	9.27	7.72	6.93	8.23	8.10	7.52	7.36	8.91	8.69	8.52	8.36	8.55	8.72		8.72				8.05	7.87	
umma	ry of P	opulat	ion esti	mates/f	orecas	sts																	
F	opulation a	at mid-yea 2012	r 2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
-4	16,045	2012 16,391	2013 16,440	2014 16,464	2015 16,651	2016 16,759	2017 16,907	2018 17,209	2019 17,331	2020 17,456	17,596	17,735	2023 17,869	18,025	2025 18,180			2028 18,540			2031 18,759	2032 18,822	2033 18,886
-10	16,985	17,699	18,301	19,072	19,542	20,048	20,464	20,616	20,803	20,887	21,136	21,301	21,500	21,813	21,992	22,186	22,384	22,579	22,774	22,960	23,137	23,299	23,439
1-15 6-17	14,252 6,242	14,232 6,123	14,253 5,989	14,301 6,251	14,483 6,411	14,827 6,346	15,185 6,362	15,708 6,422	16,317 6,450	16,916 6,633	17,325 6,882	17,753 7,098	18,039 7,348	18,084 7,637	18,191 7,890	18,406 7,909		18,718 8,102		19,206 8,081	19,382 8,250	19,556 8,322	19,726 8,408
8-59Fema	171,946	173,222	173,288		176,406	177,799		181,297	182,931	184,426		188,018	189,785	191,538	193,525						205,749	207,710	209,750
0/65 -74	27,643	28,678	29,419	30,220	30,853	31,728	32,281	32,626	32,950	33,238	33,700	33,604	33,972	34,480	35,096		36,736	37,589	38,547	39,503	40,388	41,201	41,821
5-84 5+	13,269 6,185	13,516 6.362	13,752 6.470	14,037 6,758	14,322 7.016	14,360 7.322	14,737 7,583	15,321 7.852	15,934 8,128	16,563 8,495	17,198 8.854	18,439 9,218	19,282 9,619	20,051	20,688			22,185			22,914 13,738	22,714 14,887	22,869 15,736
otal	272,567	276,223	277,912	281,999	285,683	289,189	.,	297,052	300,842	304,615		313,166	317,416	321,662	325,989			339,296	,	10,011	352,317	356,511	360,634
ependend -15 / 16-6:	y ratios, n	nean age 0.26	and sex ra	0.26	0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27
5+/16-65	0.25	0.20	0.28	0.26	0.24	0.24	0.27	0.25	0.25	0.26	0.26	0.26	0.28	0.28	0.28			0.29			0.27	0.27	0.27
-15 and 6	0.47	0.48	0.49	0.50	0.51	0.51	0.52	0.52	0.53			0.54	0.55	0.55	0.55						0.58	0.58	0.59
ledian age ledian age	34.5 36.9	34.5 37.0	34.8 37.1	34.8 37.2	34.8 37.3	34.9 37.4		35.0 37.7	35.1 37.8	35.2 38.0		35.4 38.2	35.5 38.3	35.6 38.4	35.8 38.5			36.3 38.9			36.8 39.4	37.0 39.6	37.1 39.8
ex ratio m	101.2	101.6	101.2		101.7	102.0		102.3	102.5	102.6		102.8	102.9	103.0	103.0						103.6	103.7	103.7
opulation	impact of	constrair	nt																				
lumber of p		-178	-2	+1,870	+1,356	+954	+1,531	+1,477	+1,459	+1,499	+2,012	+1,891	+1,747	+1,661	+1,685	+1,777	+1,848	+1,910	+1,925	+1,887	+1,811	+1,851	+1,850
abour For	ce																						
lumber of	146,095	147,530	147,776	149,625	151,473	153,319	155,162	157,004	158,844	160,682	162,592	164,503	166,413	168,324	170,234	172,145	174,055	175,966	177,876	179,787	181,697	183,608	185,518
hange in La	abour Forc	+1,435	+246	+1,849	+1,848	+1,846	+1,844	+1,842	+1,840	+1,838	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911	+1,911
umber of	178,506	177,447	182,242 +4.796	184,479 +2,237	186,716 +2,237	188,953 +2,237	191,190 +2.237	193,427 +2.237	195,664 +2.237	197,901	200,138	202,375	204,612 +2.237	206,849	209,086	211,323 +2,237		215,797		220,271	222,508 +2.237	224,745 +2,237	226,982 +2,237
hange in -	wei biewor	-1,059	+4,796	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237	+2,237
hange in o																							
ousehold		108 510	100 270	111 016	112 700	114 400	116 245	118 004	110 705	101 000	122 202	125 704	128 114	130 550	133 000	135 405	137 000	140 504	143.050	145 600	148 242	150 005	153 547
louseholds	107,023	108,512 +1,489	109,276 +764	111,016 +1,739	112,792 +1,776	114,492 +1,701	116,245 +1,752	118,001 +1,757	119,705 +1,703			125,704 +2,412	128,114 +2,410	130,552 +2,438	133,009 +2,457	135,485 +2,476					148,213 +2,592	150,885 +2,672	153,547 +2,662

Scenario D: CCC Jobs Forecast, Cambridge

		4 D	.1-4!	Ob a			C-1:-1:	lalan c															
	nents o			Change	•		Cambr	idge															
	Year beginn. 2011-12 2			2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	
hs																							
ale	782 745	786 749	799 761	793 755	789 752	791 753	792 754	787 750	789 751	791 753	794 756	796 758	798 760	793 756	788 751	789 751	784 746	779 742	774 737	770 733	765 729	767 730	
irths	1,527	1,535	1,560	1,548	1,541	1,544	1,545	1,537	1,540	1,544	1,550	1,555	1,558	1,549	1,539	1,540	1,530	1,521	1,511	1,503	1,494	1,497	
	1.33	1.34	1.36	1.35	1.35	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.34	1.33	1.33	1.32	1.31	1.30	1.29	1.28	1.28	
input																							
hs																							
	391	416	389	388	390	388		389	389	393		399	403	407	413	418	424	431	439	447	456	464	
le aths	448 839	449 866	414	411 799	404	408		400 789	399 788	399		401 800	403 806	405	409	412	418 842	422	429 867	436 884	443	451	
male	99.2	102.0	803 93.8	91.3	794 89.6	797 87.2	790 85.4	83.1	80.8	792 79.3		75.9	74.4	813 72.9	822 71.6	830 70.3	69.2	853 68.2	67.2	66.4	899 65.6	915 64.7	
fema	99.2	99.8	91.7	89.9	87.3	87.0	84.2	82.6	80.7	79.2	77.7	76.2	74.7	73.3	72.0	70.6	69.6	68.3	67.4	66.7	65.8	65.0	
persc	99.2	100.8	92.7	90.6	88.4	87.1	84.8	82.8	80.7	79.2		76.1	74.5	73.1	71.8	70.4	69.4	68.2		66.5	65.7	64.8	
tation	79.7 83.6	79.4 83.5	80.4 84.5	80.8 84.7	81.0 85.0	81.3 85.0		81.9 85.6	82.3 85.9	82.5 86.1	82.8 86.3	83.0 86.5	83.3 86.8	83.5 87.0	83.8 87.2	84.0 87.4	84.2 87.6	84.4 87.8	84.5 87.9	84.7 88.0	84.8 88.2	85.0 88.3	
tation	81.8	81.5	82.5	82.8	83.1	83.3	83.6	83.9	84.2	84.4	84.6	84.9	85.1	85.3	85.5	85.7	85.9	86.1	86.3	86.4	86.6	86.7	
s inp	•																						
gratic	n from the	UK																					
grane	6,514	6,981	7,305	6,995	6,867	7,068	7,074	7,044	7,028	7,057	7,018	6,982	6,944	7,003	7,082	7,155	7,213	7,266	7,340	7,360	7,354	7,403	
le	6,702	6,876	7,126	6,797	6,660	6,833	6,826	6,782	6,758	6,764	6,713	6,676	6,630	6,683	6,751	6,827	6,887	6,941	7,002	7,025	7,023	7,069	
	13,216	13,857	14,431	13,791	13,527	13,902	13,900	13,826	13,785	13,821	13,731	13,658	13,575	13,686	13,833	13,982	14,101	14,207	14,341	14,385	14,377	14,472	
t: mal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
nts in				•	•	•		•	•	•	•	•	•	•	•		•	•			•	•	
		11/																					
ııgrat	ion to the U	JK 6.756	6.937	6.885	6.932	6.969	6.963	6.954	6.935	6.905	6.868	6.834	6.818	6.826	6.870	6.926	6.994	7.067	7.139	7.187	7.233	7.283	
le	6,901	6,921	6,901	6,833	6,828	6,777	6,734	6,697	6,662	6,611	6,560	6,504	6,463	6,482	6,539	6,593	6,674	6,754	6,821	6,870	6,915	6,966	
	13,442	13,678	13,838	13,719	13,759	13,746	13,697	13,652	13,597	13,516	13,427	13,338	13,281	13,309	13,409	13,518	13,668	13,821	13,959	14,056	14,148	14,249	
t: mal	72.0 80.7	72.8 80.0	73.7 79.1	72.3 77.8	72.3 77.7	72.2 77.2	71.6 76.3	71.0 75.6	70.4 75.0	69.7 74.3	68.9 73.5	68.1 72.5	67.5 71.6	67.1 71.2	66.9 71.1	66.7 70.9	66.6 71.0	66.6 71.1	66.6 71.2	66.4 71.0	66.2 70.9	66.1 71.0	
nts in	•	•			•	•		*	•				* 11.0	•	• 1.1		•	•	•	•		• 1.0	
gratic	n from Ove	2,268	2,274	2,268	2,375	2,303	2,319	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	2,265	
le	2,073	1,757	1,760	1,757	1,821	1,778	1,787	1,755	1,755	1,755		1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	
	4,749	4,025		4,025	4,196	4,081	4,107	4,020	4,020	4,020		4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	4,020	
R: ma R: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
nts in	•	• 0.0	•	•	•	• 0.0	•	•	•	• 0.0	• 0.0	•	• 0.0	•	• 0.0	•	• 0.0	•	• 0.0	•	•	•	
nigrat	ion to Over		4.000		4.000																		
le	1,533 1,248	1,970 1,579		1,974 1,582	1,972 1,580	1,974 1,582		1,974 1,582	1,974 1,582	1,974 1,582		1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	1,974 1,582	
	2,781	3,548	3,552	3,555	3,552	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	
R: ma	273.4	344.4 382.0	340.0	338.2	336.8	336.4 384.2	334.9 384.2	332.9	331.5	330.1 383.9	328.5 383.7	327.0 383.5	325.3 382.5	323.7	321.6	319.0	316.0	312.9	310.0	307.0	304.1	301.6	
R: fem	304.1	382.0	381.2	380.7	381.1	384.2	384.2	383.6	383.6	383.9	383.7	383.5 •	382.5	380.8	378.6	376.1	372.9	369.9	367.2	364.5	361.8	359.6	
ation -	Net Flows	+179	+593	+73	-232	+156	+203	+174	+188	+305	+303	+321	+294	+378	+424	+464	+433	+387	+382	+329	+230	+223	
eas	+1,968	+477	+482	+469	+644	+525	+203	+465	+465	+465		+321	+465	+376	+465	+464	+455	+367	+362	+329	+465	+465	
mary al cha	of population +688	on chang +669	e +757	+749	+748	+747	+755	+748	+752	+751	+754	+754	+752	+736	+717	+711	+689	+667	+644	+619	+595	+582	
igrati	+1,742	+656	+1,076	+542	+412	+681	+754	+639	+653	+770		+785	+758	+843	+889	+929	+897	+851	+847	+793	+694	+688	
nange	+2,430	+1,325	+1,833	+1,291	+1,159	+1,428	+1,509	+1,387	+1,406	+1,521	+1,522	+1,540	+1,510	+1,579	+1,606	+1,639	+1,586	+1,519	+1,491	+1,412	+1,290	+1,270	
Birth Dear	12.32	12.20	12.25 6.30	12.00 6.19	11.84 6.10	11.74	11.62 5.94	11.44 5.87	11.34 5.80	11.25 5.77	11.17 5.73	11.08 5.70	10.99 5.69	10.80 5.67	10.61 5.67	10.51 5.66	10.33 5.68	10.15 5.70	9.99 5.73	9.84 5.79	9.70 5.83	9.64 5.89	
Net	14.06	5.21	8.44	4.20	3.16	5.18	5.67	4.76	4.81	5.61	5.73	5.60	5.35	5.88	6.13	6.33	6.06	5.69	5.60	5.79	4.51	4.43	
nma	ry of Po	opulat	ion esti	mates/	forecas	sts																	
	Population a	t mid-yea	r																				
	2011 6,622	2012 6,962	2013 7,047	2014 7,207	2015 7,374	2016 7,507	2017 7,544	2018 7,679	2019 7,665	2020 7,664	2021 7,669	2 <i>0</i> 22 7,679	2023 7,690	2024 7,712	2025 7,722	2026 7,719	2027 7,711	2028 7,689	2029 7,654	2030 7,618	2031 7,582	2032 7,537	2033 7,505
	6,622	6,962 6,483		7,207 7,302	7,374 7,506	7,507		7,679 8,184	7,665 8,420	7,664 8,588		7,679 8,903	7,690 8,967	7,712 9,085	7,722 9,104	7,719 9,126	7,711 9,151	7,689 9,177	7,654 9,202	7,618 9,222	7,582 9,226	7,537 9,226	7,505 9,211
	5,073	5,136	5,205	5,194	5,309	5,374	5,568	5,868	6,163	6,386	6,614	6,810	7,001	7,113	7,283	7,458	7,590	7,661	7,792	7,826	7,857	7,883	7,910
Fema	2,424 85,406	2,287 86,768	2,190 87.408	2,464 88,022	2,670 88,351	2,727 88,662	2,713 89,252	2,655	2,636 90,513	2,779		2,994	3,158	3,249	3,325	3,374	3,435	3,558	3,577	3,617 98,587	3,721 99,269	3,742	3,765
-74	85,406 9,398	9,747	87,408 9,920	10,226	10,435	10,683	89,252 10,893	89,946 11,039	90,513	91,008 11,266	91,585 11,405	92,250 11,442	92,895 11,599	93,564 11,741	94,368 11,946	95,212 12,178	96,075 12,434	96,923 12,670	97,734 12,940	98,587 13,218	99,269 13,529	100,016 13,747	100,765 13,937
	5,026	5,059	5,080	5,087	5,105	5,117	5,220	5,321	5,459	5,604	5,755	6,064	6,249	6,501	6,703	6,901	7,084	7,218	7,322	7,422	7,538	7,533	7,617
	2,736	2,713		2,811	2,853	2,906	2,927	3,008	3,093	3,198		3,396	3,519	3,622	3,715	3,804	3,931	4,100		4,497	4,698	5,023	5,268
	122,725	125,155	126,480	128,313	129,604	130,763	132,191	133,700	135,088	136,493	138,014	139,537	141,076	142,587	144,166	145,772	147,411	148,997	150,516	152,006	153,419	154,708	155,978
nden	cy ratios, m	ean age	and sex ra	itio																			
16-6	0.20	0.20	0.21	0.21	0.22	0.22		0.23	0.23	0.23		0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23
16-65 ind 6!	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.18	0.18 0.41	0.18		0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.21	0.22	0.22
n age	30.0	30.0	29.9	29.8	29.7	29.7	29.8	29.9	30.0	30.1	30.3	30.5	30.6	30.7	30.8	30.8	30.9	30.9		31.0	31.1	31.2	31.2
n age	31.4	31.5	31.6	31.6	31.7	31.8	31.8	31.9	31.9	32.1	32.2	32.3	32.5	32.7	32.9	33.1	33.2	33.3	33.5	33.6	33.7	33.9	34.0
tio m	104.2	105.1	105.8	106.3	106.8	107.2	107.5	107.8	108.0	108.1	108.3	108.5	108.6	108.6	108.7	108.9	109.0	109.1	109.2	109.4	109.5	109.7	109.8
	impact of																						
er of p	ersons	+10	+1,470	+1,410	+733	+425	+819	+835	+830	+858	+947	+811	+657	+504	+478	+482	+452	+477	+438	+402	+306	+252	+265
ur Fo	rce																						
er of	62,946	64,010	64,535	65,138	65,742	66,345	66,948	67,551	68,153	68,756	69,366	69,976	70,585	71,195	71,805	72,415	73,025	73,634	74,244	74,854	75,464	76,074	76,683
	abour Forc	+1,064	+525	+603	+603	+603	+603	+603	+603	+603		+610	+610	+610	+610	+610	+610	+610	+610	+610	+610	+610	+610
er of	95,063 over previou	96,680 +1,617	100,040 +3,360	100,986 +946	101,932 +946	102,878 +946	103,824 +946	104,770 +946	105,716 +946	106,662 +946	107,608 +946	108,554 +946	109,500 +946	110,446 +946	111,392 +946	112,338 +946	113,284 +946	114,230 +946	115,176 +946	116,122 +946	117,068 +946	118,014 +946	118,960 +946
e in	a. proviot	,017	10,000	7040	1040	F040	7040		7040	T040	F040		1040	1040	7040	7040	1040	7040	7040	1040	7040	. 340	. 540
e in o																							
ehold		A7 04=	47.050	40 070	40 000	40 400	E0 040	E0 047	E4 40 *	E4 70-	E2 400	E2 227	EA OFO	EE 400	EC 400	E7 070	E0 000	E0 070	E0 000	60 000	£4 00F	62 770	63 300
ehold er of	s 46,629 louseholds	47,317 +688	47,653 +336	48,278 +625	48,908 +629	49,483 +575		50,617 +574	51,184 +567	51,765 +581	52,428 +663	53,337 +909	54,252 +915	55,168 +916	56,123 +954	57,078 +955	58,033 +955	58,976 +943	59,922 +946	60,880 +957	61,825 +945	62,778 +953	63,733 +955

Scenario D: CCC Jobs Forecast, South Cambridgeshire

Compo	nents	of Popu	ılation	Change	9		South	Cambri	idgeshi	ire														
	Year begin	ning July 1:	st									2022-23												
Births	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
Male Female	915 871	920 876	924 880	933 889	948		984	996	1,001 954	1,016	1,031	1,045			1,087	1,094	1,107 1,054	1,119	1,131			1,155 1,100		
All Births	1,786	1,796	1,804	1,822	1,852	1,885	1,921	1,944	1,955	1,983			2,074	2,099	2,123	2,136	2,161	2,185			2,242	2,255		
TFR Births input	2.00	2.03	2.05	2.04	2.04	2.05	2.06	2.06	2.05	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.06	2.06	2.06	2.05	2.05	2.04		
Deaths																								
Male	494	539	534	534	544	548	565	578	584	596	609	622	636	652	668	681	696	715	732	749	768	789		
Female All deaths	485 979	580 1,119	537 1,071	544 1,078	542 1,085				579 1,162		597 1,205					650 1,331	664 1,360	679 1,394	694 1,426			748 1,537		
SMR: male	78.0	1,119 82.5	79.1	75.7	73.8		70.4		67.0	1,182						1,331	1,360		1,426					
SMR: fema	78.0	89.3	81.2	79.4	76.2		74.1		70.9	69.3	68.1	67.0				62.3	61.4							
SMR: perso Expectation	78.0 82.7	85.9 82.0	80.1 82.5	77.5 83.1	75.0 83.4		72.2 84.0		68.9 84.6	67.5 84.8	66.2 85.1	65.1 85.3				60.8 86.1	59.8 86.3	59.1 86.4	58.3 86.6			56.6 87.0		
Expectation Expectation	86.3 84.6	84.8 83.4	85.8 84.3	86.1 84.6	86.5 85.0		86.8 85.5		87.3 86.0	87.6 86.3	87.8 86.5	88.0			88.7 87.3	88.8 87.5	89.0 87.7	89.2 87.8	89.3 88.0			89.7 88.4		
Deaths inp	• 04.0	63.4	04.3	04.0	65.0	05.3	60.5	00.7	00.0	00.3	00.5	00.7	00.9	07.1	67.3	67.5	01.1	07.0	00.0	00.2	00.3	00.4		
In-migratio	on from th	o IIK																						
Male	4,556	4,140	4,733	4,835	4,816	4,929	4,913	4,928	4,948	5,168	5,188	5,204	5,250	5,292	5,356	5,430	5,473	5,526	5,554	5,589	5,660	5,680		
Female All	5,191 9,747	5,056 9,196	5,090 9,824	5,181 10,016	5,137 9,953		5,202 10,115		5,203 10,151	5,417 10,585	5,422 10,610			5,496 10,788	5,558 10,915	5,633 11,063	5,676 11,149	5,732 11,258	5,759 11,313			5,892 11,572		
SMigR: ma	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1		0.1	0.2	0.2	0.2		0.2			0.2		
SMigR: fem Migrants in	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Out-migra Male	tion to the 4,543	UK 4.922	4,037	4.080	4,123	3 4,156	4,179	4,192	4.227	4.267	4.295	4.320	4.355	4.388	4,429	4,477	4,511	4,538	4,576	4.607	4.638	4,671		
Female	5,079	4,770	4,451	4,470	4,473	4,488	4,502	4,506	4,531	4,535	4,561	4,591	4,626	4,656	4,694	4,730	4,779	4,800	4,837	4,879	4,915	4,947		
All SMigR: ma	9,622 60.3	9,693 65.5	8,488 55.1	8,550 54.8	8,596 54.5		8,681 53.8	8,698 53.3	8,758 53.1	8,803 53.0	8,856 52.5	8,911 52.0		9,044 51.4	9,123 51.1	9,207 50.8	9,290 50.4	9,338 49.9	9,413 49.6			9,618 48.6		
SMigR: fem		65.5	60.7	60.3	59.7		58.7		57.9							54.9	54.6		53.7			52.7		
Migrants in	•	•	•	•	•	•	•	•	•	•	•							•	•			•		
In-migratio																								
Male Female	441 388	459 404	460 405	459 404	482		470		458 403	458 403	458 403					458 403	458 403	458 403	458			458 403		
All	829	862	864	862	902	875	881	861	861	861	861	861	861	861	861	861	861	861	861	861	861	861		
SMigR: ma SMigR: fem	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0						0.0	0.0							
Migrants in	•	•	•															٠						
Out-migra	tion to Ove	erseas																						
Male	296	375	375	376	375		376		376	376	376					376	376	376	376					
Female All	239 535	303 678	304 679	304 680	304 679				304 680	304 680	304 680					304 680	304 680	304 680	304 680					
SMigR: ma	70.5	89.7	93.0	91.7	90.1		87.7		85.6	84.7	83.5					78.1	76.9		74.6					
SMigR: fem Migrants in		96.3	96.6	95.3	93.9	92.8	91.6	90.7	89.9	89.2	88.2	87.1	86.2	85.3	84.3	83.3	82.2	81.0	79.9	78.8	77.8	76.8		
Migration UK	+125		+1,336	+1,467	+1,357	+1,520	+1,434	+1,428	+1,392	+1,783	+1,754	+1,718	+1,730	+1,745	+1,791	+1,855	+1,859	+1,920	+1,900	+1,899	+1,977	+1,954		
Overseas	+294	+184	+185	+183	+223	+195	+201	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182	+182		
Summary	of popula	tion chang	е																					2011
Natural cha Net migrati	+807	+677 -313	+733 +1,521	+744	+766		+790		+793 +1,574	+801	+807	+810				+806	+801	+790 +2,102						+1 +3
Net change	+1,226	+364	+2,254	+2,393	+2,346	+2,500	+2,426	+2,404	+2,367	+2,765	+2,742	+2,710	+2,736	+2,748	+2,791	+2,842	+2,842	+2,892	+2,865	+2,843	+2,904	+2,854		+4
Crude Birth Crude Dea	11.87	11.87 7.40	11.83 7.02	11.77	11.77		11.85	11.81	11.71	11.70	11.68 7.00	7.03		11.63 7.08	11.59 7.12	11.48 7.15	11.44 7.20	11.39 7.27	11.35 7.33			11.10 7.56		
Crude Net	2.78	-2.07	9.97	10.65	10.05		10.09		9.43	11.59	11.24				10.77	10.95	10.80		10.70			10.51		
Summa	arv of F	Populati	ion esti	imates/	foreca	ete																		
- Cuillini	Population	at mid-yea	,	matco,		0.0																		
	2011	2012	2013	2014	2015				2019	2020	2021	2022			2025	2026	2027	2028	2029			2032	2033	
0-4 5-10	9,423 10,945	9,429 11,216	9,393 11,407	9,257	9,276		9,362	9,531 12,432	9,665 12,383	9,792	9,927					10,599	10,726		10,965 13,572				11,381 14,227	
11-15	9,179	9,096	9,048	9,108	9,174	9,453	9,616	9,839	10,153	10,530	10,711	10,943	11,038	10,971	10,908	10,948	10,958	11,057	11,229	11,380	11,525	11,672	11,816	
16-17 18-59Fema	3,818 86,540	3,836 86,454	3,799 85,880	3,786 86,874	3,741 88,054		3,649 90,345		3,814 92,418	3,855 93,418	3,969 94,625			4,388 97,974	4,566 99,158	4,534 100,437	4,531 101,709	4,544 102,919	4,455 104,150			4,580 107,693	4,642 108,985	
60/65 -74	18,245	18,931	19,499	19,994	20,418	21,045	21,388	21,587	21,810	21,973	22,295	22,162	22,373	22,739	23,150	23,685	24,302	24,919	25,608	26,285	26,859	27,454	27,884	
75-84 85+	8,243 3,449	8,457 3,649	8,672 3,734	8,950 3,947	9,217 4,163		9,517 4,657		10,475 5,035	10,959 5,297	11,443 5,549					14,479 6,872	14,802 7,196		15,123 8,089				15,252 10,468	
Total	149,842	_	151,432		156,079		_		165,755			_	_					_					204,656	4
Dependen	cy ratios.	mean age	and sex r	atio																				
0-15 / 16-6	0.31	0.31	0.32	0.32	0.32		0.32			0.32						0.31	0.31	0.31	0.31				0.31	
65+ / 16-65 0-15 and 6		0.28	0.29	0.30	0.31		0.32		0.32	0.33						0.35	0.36		0.37				0.40	
Median age	39.2	39.5	40.2	40.4	40.5	40.6	40.6	40.6	40.6	40.7	40.7	40.8	40.9	40.9	40.9	41.0	41.1	41.2	41.2	41.3	41.5	41.6	41.7	
Median age Sex ratio m	41.0 98.8	41.4 98.7	41.7 97.4	41.9 97.6	42.0 97.7		42.3 97.9		42.4 98.2	42.5 98.3						43.0 98.8	43.1 98.9	43.2 99.0					43.6 99.4	
Population	n impact o	of constrain	ıt																					
Number of		-188	-1,472	+460	+623	+529	+712	+643	+630	+641	+1,065	+1,080	+1,090	+1,157	+1,207	+1,295	+1,397	+1,434	+1,487	+1,485	+1,505	+1,599	+1,585	
Labour Fo	orce																							2011
Number of	83,149	83,520	83,241	84,487	85,731				90,690							99,730	101,031	102,331	103,632				108,835	2
Change in I Number of			-279 82,203	+1,246 83,494	+1,244 84,785				+1,237 89,949	+1,235 91,240					+1,301 97,695	+1,301 98,986	+1,301 100,277	+1,301 101,568	+1,301			+1,301 106,732	+1,301 108,023	2
Change in			+1,436	+1,291	+1,291		+1,291	+1,291	+1,291	+1,291	+1,291	+1,291		+1,291	+1,291	+1,291	+1,291	+1,291	+1,291			+1,291	+1,291	4
Household																								
Number of	60,394 Households	61,195 +801	61,623 +428	62,738 +1,114	63,884 +1,146		66,202 +1,192		68,521 +1,136	69,623 +1,102	70,864 +1,241	72,367 +1,503			76,886 +1,502	78,407 +1,521	79,955 +1,547	81,525 +1,570	83,137 +1,612				89,814 +1,707	2
		7001																						
Number of Change in		63,126 +826	63,568 +442	64,718 +1,150	65,901 +1,183		68,291 +1,230	69,511 +1,220	70,684 +1,172	71,821 +1,137	73,101 +1,280	74,651			79,313 +1,550	80,882 +1,569	82,478 +1,596		85,761 +1,663				92,649 +1,761	26 +1

Scenario E: Oxford Economics Job Forecast, All Areas

Popula	tion E	stimate	s and	Forec	asts			Natha	niel Lic	hfield	and Pa	artners	3											
Compo	nents o	of Popu	lation (Change	•		All Area	as																
)	ear begini	ning July 1s	t																					
Births 2	011-12	2012-13 2	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
Male	1,697	1,706	1,723	1,718	1,721			1,741	1,741	1,750		1,771					1,795	1,798	1,802	1,801	1,804			
Female All Births	1,616 3,313	1,625 3,331	1,641 3,364	1,636 3,353	1,639 3,359		1,659	1,659 3,400	1,658 3,399	1,666 3,416	1,677 3,438	1,686 3,457	1,699	1,701 3,487		1,706 3,498	1,709 3,504	1,712 3,510	1,716 3,518	1,715 3,516	1,719 3,523	1,724 3,534		
TFR	1.66	1.68	1.70	1.68	1.68	1.69	1.70	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68	1.68	1.67	1.67	1.66	1.65	1.65	1.64		
Births input																								
Deaths																								
Male	885	956	924	921	931			963		982		1,012		1,048			1,105	1,130	1,153	1,177	1,204			
Female All deaths	933	1,029	951 1,874	954 1,875	944 1,875		962 1,913	966 1,929	971 1,938	977 1,960	988	999 2,011	.,	1,019 2,067		2,133	1,066 2,171	1,085 2,215	1,105 2,258	1,127 2,304	1,151 2,354	1,177 2,407		
SMR: male:	86.2	90.0	84.7	81.6	79.7	77.1	75.9	74.2	72.0	70.6	69.1	67.7		65.4			62.1	61.4	60.5	59.8	59.2	58.5		
SMR: femal	86.9	93.6	85.5	83.6	80.6			76.4		73.0		70.4		67.7				63.4		61.7	61.1			
SMR: person Expectation	86.5 81.4	91.8	85.1 81.6	82.6 82.1	80.1 82.4		76.9 83.0	75.3 83.3		71.8 83.9		69.1 84.4	67.7 84.6	66.5 84.8		64.2 85.3	63.2 85.5	62.4 85.7	61.5 85.8	60.7 86.0	60.1 86.1	59.5 86.3		
Expectation	85.0	84.2	85.2	85.5	85.9			86.5	86.7	87.0		87.4		87.9		88.3	88.4	88.6	88.8	88.9	89.0	89.2		
Expectation	83.3	82.6	83.5	83.9	84.2	84.5	84.7	84.9	85.3	85.5	85.7	86.0	86.2	86.4	86.6	86.8	87.0	87.2	87.3	87.5	87.6	87.7		
Deaths input																								
In-migratio	n from the	UK																						
Male	11,070	11,121	11,802	11,590	11,439		11,740	11,721	11,722	11,967	11,946	11,926		12,034			12,426	12,533	12,636	12,693	12,759	12,830		
Female All	11,893 22,963	11,931 23,052	11,954 23,756	11,714 23,304	11,530 22,969	11,802	11,759	11,709 23,430	11,688 23,410	11,905 23,873	11,859 23,805	11,826 23,751	11,816 23,750	11,904 23,939		12,186	12,290 24,716	12,399 24,932	12,489 25,125	12,551 25,244	12,625 25,384	12,695 25,525		
SMigR: mal	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
SMigR: fem Migrants inpu	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
granto IIIPI																								
Out-migrati																								
Male Female	11,085 11,980	11,679 11,692	10,974 11,352	10,965 11,303	11,055			11,146 11,204		11,172 11,147		11,153 11,095					11,504 11,453	11,605 11,553		11,794 11,748	11,870 11,831			
All	23,064	23,370	22,326	22,268	22,355		22,378	22,350	22,355	22,319		22,249		22,352			22,957	23,159	23,372	23,542	23,701	23,867		
SMigR: mal	66.7	69.5	65.5	64.7	64.7	64.6	64.2	63.7	63.4	63.0	62.4	61.8		61.1			60.6	60.4	60.3	60.1	59.9	59.8		
SMigR: fem Migrants inpu	75.6 ut	73.4	70.7	70.0	69.7	69.3	68.8	68.2	67.9	67.4	66.8	66.1	65.6	65.2	65.1	64.9	64.8	64.7	64.6	64.5	64.4	64.3		
In-migratio																								
Male Female	3,117 2,461	2,727 2,160	2,734 2,165	2,727 2,160	2,856	2,769		2,724 2,158	2,724 2,158	2,724	2,724	2,724 2,158		2,724 2,158			2,724 2,158	2,724	2,724 2,158	2,724 2,158	2,724 2,158	2,724 2,158		
All	5,578	4,887	4,898	4,887	5,097	4,956		4,881	4,881	4,881	4,881	4,881	4,881	4,881		4,881	4,881	4,881	4,881	4,881	4,881	4,881		
SMigR: mal	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0					0.0	0.0	0.0	0.0	0.0	0.0		
SMigR: fem Migrants inpu	0.0 ut	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Out-migrati							2010												0.010					
Male Female	1,829	2,345 1,882	2,347 1,884	2,349 1,886	2,347 1,884	2,349	2,349 1,886	2,349 1,886	2,349 1,886	2,349 1,886	2,349 1,886	2,349 1,886		2,349 1,886			2,349 1,886	2,349 1,886	2,349 1,886	2,349 1,886	2,349 1,886	2,349 1,886		
All	3,316	4,227	4,231	4,235	4,231			4,235		4,235				4,235			4,235	4,235		4,235	4,235			
SMigR: mal	186.6	236.8	238.6	237.0	235.3		232.8	231.2		228.8	227.1	225.6					216.3	213.9	211.7	209.5	207.4	205.4		
SMigR: fem Migrants inpu	204.6 ut	258.3	258.4	257.5	256.7	257.3	256.5	255.8	255.4	255.2	254.3	253.3	252.2	250.8	249.1	247.2	244.9	242.6	240.5	238.3	236.2	234.3		
Migration - UK	Net Flows	s -318	+1.430	+1.036	+614	+1.162	+1.122	+1.080	+1.055	+1.554	+1.521	+1.503	+1.488	+1.586	+1.680	+1.785	+1.759	+1.773	+1.753	+1.702	+1.683	+1.658		
Overseas	+2,262	+661	+668	+652	+867	+1,102	+1,122	+1,080	+646	+1,554		+1,503		+1,500			+646	+1,773	+1,753	+1,702	+1,003	+1,656		
Summary of Natural cha	of populati +1,495	ion change +1,346	+1,490	+1,478	+1,485	+1,488	+1,488	+1,471	+1,462	+1,456	+1,453	+1,446	+1,447	+1,420	+1,390	+1,365	+1,333	+1,295	+1,260	+1,211	+1,169	+1,127		2011 +2
Net migrati	+2,161	+343	+2,098	+1,688	+1,481			+1,726	+1,701	+2,200	+2,167	+2,149					+2,405	+2,419		+2,348	+2,329	+2,304		+4
Net change	+3,656	+1,689	+3,588	+3,166	+2,965		+3,362	+3,197	+3,163	+3,656	+3,621	+3,595		+3,653			+3,738	+3,715	+3,659	+3,560	+3,498	+3,431		+6
Crude Birth Crude Dear	12.07 6.63	12.02 7.16	12.03 6.70	11.85 6.62	11.74	11.68	11.62	11.49 6.52	11.36	11.29	11.23	11.16		11.00			10.68	10.58	10.48	10.36	10.28	10.21		
Crude Net I	7.88	1.24	7.50	5.96	5.17	6.51	6.40	5.83	5.69	7.27	7.08	6.94	6.81	7.04			7.33	7.29	7.15	6.92	6.80	6.65		
_																								
Summa			on estil	mates/	rorecas	sts																		
F	opulation 2011	at mid-year 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
0-4	16,045	16,391	16,440	16,451	16,611			17,006		17,095		17,223					17,608	17,661	17,695	17,729	17,757		17,819	
5-10	16,985	17,699	18,301	19,032	19,465			20,445		20,663		20,976					21,636	21,746	21,859	21,969	22,073		22,248	
11-15 16-17	14,252 6,242	14,232 6,123	14,253 5,989	14,284 6,249	14,446			15,597 6,395	16,172 6,415	16,735 6,590		17,506 7,029					18,165 7,831	18,282 7,958	18,519 7,882	18,628 7,923	18,731 8,072		18,930 8,172	
18-59Fema	171,946	173,222	173,288	174,515	175,642			179,370		181,711								193,906		197,191	198,635		201,864	
60/65 -74	27,643	28,678	29,419	30,195	30,801			32,486		33,033							36,236	37,034		38,828			40,952	
75-84 85+	13,269 6,185	13,516 6,362	13,752 6,470	14,024 6,748	14,298			15,260 7,804		16,473 8,425		18,313 9,123				21,171	21,655 10,965	21,932 11,562	22,172 12,187	22,332 12,855	22,595 13,502		22,511 15,446	
Total	272,567	276,223	277,912	281,500	284,666			294,364	.,	300,724							326,343	330,081		337,455			347,943	ε
Dependend 0-15 / 16-6	y ratios, r	nean age a	o.26	tio 0.27	0.27	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	
65+/16-65	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25	0.26	0.26	0.27	0.27	0.27	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.32	
0-15 and 6	0.47	0.48	0.49	0.50	0.51			0.53		0.54		0.55						0.57		0.58			0.59	
Median age Median age	34.5 36.9	34.5 37.0	34.8 37.1	34.8 37.2	34.8 37.3			35.1 37.8	35.1 38.0	35.2 38.1	35.3 38.3	35.4 38.4					36.1 39.0	36.3 39.1	36.5 39.3	36.7 39.5	36.8 39.7		37.2 40.1	
Sex ratio m	101.2	101.6	101.2	101.5	101.8			102.4		102.7	102.8	102.9					103.4	103.6	103.7	103.8	103.9		104.0	
Population	impact of	f constraint																						
Number of p		-178	-2	+1,371	+852	+443	+1,017	+962	+937	+973	+1,478	+1,355	+1,210	+1,125	+1,149	+1,242	+1,314	+1,377	+1,391	+1,357	+1,285	+1,327	+1,330	
Labour For	ce																							201:
Number of	146,095	147,530	147,776	149,237	150,697	152,156	153,613	155,069	156,524	157,978	159,502	161,026	162,551	164,075	165,599	167,123	168,648	170,172	171,696	173,220	174,745	176,269	177,793	201.
Change in La		+1,435	+246	+1,461	+1,460	+1,459	+1,457	+1,456	+1,455	+1,454	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	+1,524	٠.
Number of Change in o	178,506 ver previou	177,447	182,242 +4,796	184,141 +1.899	186,040 +1,899			191,737 +1.899		195,535 +1,899		199,333 +1.899		203,131			208,828	210,727	212,626 +1.899	214,525 +1,899	216,424 +1,899	218,323 +1.899	220,222 +1,899	3
	pieviul	-1,009	T+,/90	+1,089	T1,099	+1,095	+1,099	+1,099	+1,099	+1,099	±1,099	+1,099	+1,099	+1,099	+1,099	-1,099	Ŧ1,099	±1,099	T1,099	+1,099	+1,099	71,099	+1,099	
Households Number of	107,023	108,512	109,276	110,829	112,413	113,910	115,447	116,982	118,456	119,907	121,573	123,731	125,883	128,058	130,249	132,456	134,686	136,924	139,203	141,483	143,791	146,175	148,549	3
Change in H		+1,489	+764	+1,553	+1,583		+1,537	+1,535	+1,474	+1,451	+1,666	+2,159				+2,206	+2,231	+2,237	+2,279	+2,280	+2,308	+2,385	+2,373	+
Number of	111,301	112,850	113,645	115,260	116,907	118,463		121,656	123,188	124,697	126,429	128,675					140,072	142,399	144,770	147,142			154,490	3
Change in o		+1,549	+795	+1,615	+1,646	+1,556	+1,598	+1,595	+1,533	+1,509	+1,732	+2,246	+2,238	+2,262	+2,280	+2,296	+2,321	+2,327	+2,371	+2,372	+2,400	+2,480	+2,468	4

Scenario E: Oxford Economics Job Forecast, Cambridge

Popul	ation E	Estima	tes and	d Fore	casts			Natha	niel Li	chfield	and P	artners	3											
Comp	onents	of Pop	ulation	Chang	е		Cambr	idge																
		nning July 1			2015 10	004047	004740	0040.40	0040.00	000004	0004.00	0000 00	000004	000405	0005.00	000007	0007.00	000000	0000 00	0000.04	0004.00	0000.00		
Births	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33		
Male Female	782 745		799 761	795 757	793			796 758								808 769		799 761	795 757		787 750	789 751		
All Births	1,527	1,535	1,560	1,551	1,548	1,554	1,559	1,554	1,560	1,567	1,576	1,583	1,590	1,582	1,574	1,577	1,569	1,560	1,552	1,544	1,536	1,540		
TFR Births inpu	1.33	1.34	1.36	1.35	1.35	1.36	1.36	1.35	1.35	1.35	1.35	1.35	1.35	1.34	1.33	1.33	1.32	1.31	1.30	1.29	1.28	1.28		
Deaths Male	391	416	389	388	390	389	390	390	390	394	397	400	405	409	414	419	426	433	441	450	458	467		
Female All deaths	448		414		404			401 791	400 790									424 857	431 872					
SMR: male			93.8					83.1	80.8							70.3		68.2	67.2					
SMR: fema			91.7	89.9	87.3 88.4		84.2 84.8	82.6 82.8					74.7			70.6 70.4	69.6 69.4	68.3 68.2	67.4 67.3		65.8 65.7	65.0 64.8		
Expectatio	79.7	79.4	80.4	80.8	81.0	81.3	81.6	81.9	82.3	82.5	82.8	83.0	83.3	83.5	83.8	84.0	84.2	84.4	84.5	84.7	84.8	85.0		
Expectatio Expectatio			84.5 82.5		85.0 83.1			85.6 83.9						87.0 85.3		87.4 85.7	87.6 85.9	87.8 86.1	87.9 86.3					
Deaths inp																								
In-migrat	ion from th	ne UK																						
Male	6,514	6,981	7,390		6,938			7,106								7,210		7,322	7,395					
Female All	6,702 13,216		7,209	6,871 13,942	13,666			6,842 13,948		6,818			6,681 13,679	6,735 13,792		6,881 14,091	6,940 14,209	6,994 14,315	7,054 14,448		7,073 14,479			
SMigR: ma	0.2	0.2	0.2	0.2	0.2	2 0.2	0.2	0.2	0.2	2 0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
SMigR: fen Migrants ir		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
		LIV																						
Out-migra Male	ation to the		6,937	6,885	6,932	6,969	6,963	6,954	6,935	6,905	6,868	6,834	6,818	6,826	6,870	6,926	6,994	7,067	7,139	7,187	7,233	7,283		
Female 411	6,901 13,442	6,921	6,901	6,833	6,828		6,734	6,697 13,652	6,662					6,482 13,309		6,593 13,518	6,674 13,668	6,754 13,821	6,821 13,959	6,870	6,915 14,148	6,966 14,249		
SMigR: ma			73.7		72.0												65.6	65.6						
SMigR: fen Migrants ir		80.0	79.1	77.6	77.3	76.7	75.7	74.9	74.2	73.5	72.6	71.5	70.6	70.2	70.0	69.8	69.8	69.9	69.9	69.7	69.6	69.7		
In-migrat Male	ion from O	verseas 2.268	2.274	2.268	2.375	5 2.303	2.319	2.265	2.265	2.265	2 265	2.265	2.265	2.265	2.265	2.265	2.265	2.265	2.265	2.265	2.265	2.265		
Female	2,073	1,757	1,760	1,757	1,821	1,778	1,787	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755	1,755		
All SMigR: ma	4,749	4,025	4,034		4,196		4,107	4,020						4,020		4,020		4,020	4,020		4,020	4,020		
SMigR: fen			0.0	0.0	0.0			0.0			0.0	0.0			0.0	0.0	0.0		0.0	0.0				
Migrants ir			•	•	•		•	•		•	•	•		•	•	•	•	•	•	•	•	•		
	ation to Ov																							
Male Female	1,533		1,972	1,974	1,972		1,974	1,974						1,974		1,974	1,974	1,974	1,974		1,974	1,974		
All	2,781	3,548	3,552	3,555	3,552	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555	3,555		
SMigR: ma SMigR: fen		344.4	340.0					330.0 379.6						318.8 374.0		313.7 368.8	310.6 365.4	307.4 362.2	304.3 359.4					
Migrants in			•														•	•			•	•		
Migration	- Net Flov	vs																						
UK	-226	+179	+761	+223	-94			+297	+305							+573		+495	+489			+323		
Overseas	+1,968	+477	+482	+469	+644	+525	+551	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465	+465		
Summary Natural ch		tion chang	ge +757	+752	+754	+756	+768	+764	+771	+772	+778	+780	+780	+766	+749	+744	+723	+703	+680	+656	+633	+620		+14,
Net migrat	+1,742		+1,243			+815	+883	+761				+891	+863			+1,038		+959		+898	+796			+18,
Net chang Crude Birtl	12,100		+2,000	+1,445	+1,304		+1,651	+1,525					+1,644	+1,715	+1,745	+1,782		+1,662	+1,634		+1,429	+1,408		+33,
Crude Dea			6.30	6.19	6.08			5.85					5.65	5.63		5.61	5.63	5.64	5.67					
Crude Net	1 14.06	5.21	9.75	5.36	4.22	6.17	6.61	5.63	5.63	6.36	6.25	6.29	6.02	6.54	6.79	6.99	6.70	6.31	6.21	5.78	5.08	4.98		
Summ	ary of I	Populat	ion est	imates/	foreca	sts																		
		n at mid-yea																						
0-4	6,622	2012	7,047	7,208	7,380		7,568	7,716	7,719			2022	7,806	7,843	7,866	2026 7,874	7,877	2028 7,866	7,839	7,810	2031 7,781	2032 7,741	2033 7,714	
5-10	6,040	6,483	6,894	7,306	7,512	7,797	8,085	8,197	8,434	8,607	8,794	8,939	9,016	9,150	9,188	9,229	9,272	9,317	9,359	9,395	9,414	9,427	9,425	
11-15 16-17	5,073 2,424		5,205 2,190					5,881 2,665															8,030 3,798	
18-59Fem 60/65 -74	85,406	86,768		88,171	88,637	89,074	89,788	90,600	91,280	91,881	92,558	93,320	94,061	94,826	95,725	96,666	97,627	98,572	99,480	100,429	101,204	102,042	102,882	
60/65 -74 75-84	9,398 5,026		9,920 5,080		10,440 5,108			11,050 5,327								12,214 6,917		12,715 7,237					14,010 7,643	
85+ Total	2,736	2,713	2,736		2,856	2,910	2,932	3,015	3,100	3,207	3,314	3,406	3,531	3,635	3,729	3,818	3,947	4,117	4,313	4,517	4,719	5,047	5,293	33,
rotal	122,725	125,155	126,480	128,480	129,925	131,229	132,800	134,451	135,976	137,516	139,168	140,821	142,493	144,136	145,851	147,596	149,378	151,108	152,770	154,404	155,958	157,387	158,795	33,
	., ,	mean age						***			,										***			
0-15 / 16-6 65+ / 16-6			0.21	0.21	0.22			0.23										0.24					0.23 0.22	
0-15 and 6 Median ag			0.37		0.38			0.40								0.43		0.44	0.44				0.45 31.2	
Median ag	31.4	31.5	31.6	31.6	31.7	31.7	31.7	31.8	31.8	31.9	32.1	32.2	32.4	32.6	32.7	32.9	33.0	33.2	33.3	33.4	33.6	33.7	33.9	
Sex ratio m			105.8																				109.7	
Population		of constrai		+1,577	+884	+563	+952	+964	+952	2 +974	+1,057	+918	+763	+609	+584	+589	+561	+585	+546	+509	+410	+353	+365	
		+10	+1,470	+1,577	+884	+563	+952	+964	+952	. +974	+1,057	+918	+/63	+609	+584	+589	+561	+585	+546	+509	+410	+353		
Labour F Number of		64,010	64,535	65,220	65,904	66,589	67,273	67,957	68,641	69,325	70,016	70,707	71,398	72,089	72,780	73,471	74,162	74,853	75,544	76,235	76,926	77,617	78,308	2011- 2
	Labour Fore		64,535 +525					67,957 +684						72,089 +691			74,162 +691	74,853 +691	75,544 +691		76,926 +691		78,308 +691	+
Number of	95,063 over previo		100,040		102,184			105,400								113,976		116,120 +1,072	117,192				121,480 +1.072	24, +1,
onange in	over previo	+1,617	+3,360	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	. +1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,072	+1,0/2	+1,0/2	+1,
House to	de																							
Househo l Number of		47,317	47,653	48,327	49,003	3 49,624	50,229	50,849	51,463	52,091	52,802	53,765	54,738	55,713	56,730	57,750	58,772	59,784	60,799	61,828	62,845	63,871	64,901	16,
Change in Number of	Household: 49,001		+336	+674	+676			+620 53,435										+1,011 62,824	+1,016 63,892			+1,027 67,120	+1,029 68,202	17,
· • annoen 01	over previo							+651															+1,082	+

Scenario E: Oxford Economics Job Forecast, South Cambridgeshire

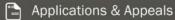
2011-12	inning July 15 2012-13 2012-13 5 920 1 876 6 1,796 6 1,796 6 1,796 9 1,119 9 9 1,119 1 5,066 6 83,3 1 4,140 6 4,140 6 4,140 6 4,140 6 7 9,196 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 7 82,0 85,9 7 82,0 7 82,0 85,9 7 82,0 85,9 7 82,0 85,9 7 82,0 85,9 7 82,0 85,9 878,9 878,9 878,9 88,404 99 862 0 0,0 0	t		928 884 1.811 2.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1			945 9481 9481 9481 9481 9481 9481 9481 9481	897 1,399 2,000 1,300 2,000 1,300 2,000 2,	2020-21 947 972 962 1,849 2,066 5888 69-3-3 77 1,166 68-68-3 1,8545 5,087 9,344 4,8555 6,01 0.1 0.1 4,267 6,01 6,01 6,01 6,01 6,01 6,01	2021-22 954 908 1.8822-206 6000 587 1.187 1.187 68.1 86.5 9.86 9.86 9.86 9.86 9.86 9.86 9.86 9.86	9600 914 1,874 2,06 612 5566 633 67.0 633 67.0 63.1 85.3 6,09 60.1 0.1 0.1 54.8 6,901 6,90	970 924 1.894 2.07 625 622 625 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.6 65.6 65.6 66.6 66.6 66.6 66.6 66	976 976 929 1,905 639 612 1,251 64.4 62.8 85.5 87.1 0.1 4,977 0.1 0.1 0.1 4,556 5,569 5,56	982 2025-26 982 982 983 982 983 983 983 983 983 983 983 983 983 983	984 987 1,921 2,06 666 634 1,300 60.8 88.8 87.5 10,419 0,2 4,477 4,730 9,2 4,477 4,730 9,2 4,477 4,730 9,2 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4	991 944 1,935 2,06 679 647 1,326 8,33 8,33 10,507 1,15	999 999 999 999 999 999 999 999 999 99	1,007 959 1,966 6,1 1,966	1,010 962 1,971 2.05 728 688 1,416 56.3 58.9 57.5 88.5 89.5 10,755 0.1 0.2 4,607 4,879 9,486 53.5 58.3	1,017 969 1,986 2,05 745 765 765 58,8 58,5 58,5 57,1 1,451 1	973 1,994 2,04 764 723 1,487 55.3 58.0 56.6 87.0 89.7 88.4 5,376 5,577 10,983 0.1 0.2 4,671 4,947 9,618 53.1 58.0	
2011-12	2012-13 5 920 1 676 6 1.796 0 2.03 4 5 580 9 1.119 0 82.5 9 1.119 0 82.5 0 89.3 0 89.3 0 89.3 0 89.3 1 84.8 6 83.4 the UK 6 4,140 1 5,056 7 9,196 1 1,01 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 2 0.1 3 4.922 9 4.770 2 0.1 5 66.5 5 0.0 0	924 880 1,804 2,05 1,804 2,05 1,804 2,05 1,804 3,07 1,071 79:1,1 80:1,1	923 679 1,802 2,044 1,076 533 543 1,076 63,1 1,076 63,1 1,076 63,1 1,076 63,1 1,076 64,4 1,076 1	928 884 1.811 2.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1	905 980 1,825 2,06 980 1,825 2,06 980 1,825 2,06 980 1,825 2,06 980 1,925 3,08 98.7 1,2 98.8	943 888 1.641 2.06 550 550 560 1.724 4.600 4.670 4.179	945 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 1.846 900 900 900 900 900 900 900 900 900 90	942 947 1439 206 977 1439 206 977 1439 206 977 157 157 157 157 157 157 157 157 157 1	947 902 1.1849 902 1.1849 902 1.1849 902 1.1849 902 903 903 903 903 903 903 903 903 903 903	954 908 908 908 908 908 908 908 908 908 908	9600 914 1,874 2,06 612 5566 633 67.0 633 67.0 63.1 85.3 6,09 60.1 0.1 0.1 54.8 6,901 6,90	970 924 1.894 2.07 625 622 625 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.5 63.8 65.6 65.6 65.6 66.6 66.6 66.6 66.6 66	976 929 929 929 929 929 929 929 929 929 92	882 2 35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	984 937 1,921 2,06 937 1,921 2,06 936 1,300 03	991 944 1,935 2,06 679 647 1,326 58,4 61,4,1 61,4,1 62,2 63,3 60,0 7,7 1,5,167	999 951 1,950 95	1,007 959 1,966 6,1 1,966	1,010 962 1,971 2.05 728 688 1,416 56.3 58.9 57.5 88.5 89.5 10,755 0.1 0.2 4,607 4,879 9,486 53.5 58.3	1,017 9699 1,986 2,05 1,986 2,05 1,986 3,5 1,451 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1	1,021 973 1,994 2,04 764 723 1,467 55.3 56.0 87.0 89.7 88.4 5,376 5,577 10,983 0.1 10,20 2	
Asia	1 676 6 1,796 0 2.03 4 539 5 580 7 82.0 3 84.8 6 83.4 the UK 6 4,140 1 5.056 7 9.196 1 1 1 459 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	880 2.05 1.804 2.05 534 537 1.071 79.1 1.071 79.1 1.072 1.071 79.1	879 1,802 2.04 533 543 545 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	884 1,811 2,04 1,123 1,131 1,1	880 1,825 2,05 444 549 1,983 712 750 853 853 853 853 853 853 853 853 853 853	888 85.5 4.600 4.701 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	900.01 1,846 8.206 2.06 572 5.566 8.60 9.60 9.60 9.60 9.60 9.60 9.60 9.60 9	897 1,399 2,000 1,300 2,000 1,300 2,000 2,	9020 1,349 9 1	988 988 988 988 988 988 988 988 988 988	914.1,874.206 612.206 612.506 612.606	924 1,894 1,894 1,894 1,894 1,894 1,894 1,894 1,894 1,995 1,	929 5207 207 207 207 207 207 207 207 207 207	935 5.1 1,917 207 207 207 207 207 207 207 207 207 20	937 1,321 2,06 666 666 666 663 4 1,300 666 666 668 663 4 1,300 666 668 668 668 668 668 668 668 668 6	944 1,335 2,06 2,06 2,07 3,27 3,27 3,27 3,27 3,27 3,27 3,27 3,2	951 1,950 2,06 697 2,06 697 661 1,358 6,06 698 2,26 75.8 6,06 89.2 67.8 75.405 6,06 75.405 6,06 75.405 6,06 75.405 6,06 75.405 6,06 75.4	959-95-95-95-95-95-95-95-95-95-95-95-95-	962 1,971 2,055 728 688 1,446 56.3 58.5 95.5 68.8 5,280 5,475 10,755 0.1 0.2 4,607 4,607 4,607 4,607 4,607 4,607	969 969 969 969 969 969 969 969 969 969	973 1,994 2,04 764 723 1,487 55.3 58.0 56.6 87.0 89.7 88.4 5,376 5,577 10,983 0.1 0.2 4,671 4,947 9,618 53.1 58.0	
Female 871 M Bidhs 1,786 FFR 2,00 Simis input 2,00 Simis input 3,00 Seaths 3,00 Seaths 4,00 Seaths 4,00 Seaths 7,00 Seaths 7,0	1 676 6 1,796 0 2.03 4 539 5 580 7 82.0 3 84.8 6 83.4 the UK 6 4,140 1 5.056 7 9.196 1 1 1 459 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	880 2.05 1.804 2.05 534 537 1.071 79.1 1.071 79.1 1.072 1.071 79.1	879 1,802 2.04 533 543 545 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	884 1,811 2,04 1,123 1,131 1,1	880 1,825 2,05 444 549 1,983 712 750 853 853 853 853 853 853 853 853 853 853	888 85.5 4.600 4.701 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	900.01 1,846 8.206 2.06 572 5.566 8.60 9.60 9.60 9.60 9.60 9.60 9.60 9.60 9	897 1,399 2,000 1,300 2,000 1,300 2,000 2,	9020 1,349 9 1	988 988 988 988 988 988 988 988 988 988	914.1,874.206 612.206 612.506 612.606	924 1,894 1,894 1,894 1,894 1,894 1,894 1,894 1,894 1,995 1,	929 5207 207 207 207 207 207 207 207 207 207	935 5.1 1,917 207 207 207 207 207 207 207 207 207 20	937 1,321 2,06 666 666 666 663 4 1,300 666 666 668 663 4 1,300 666 668 668 668 668 668 668 668 668 6	944 1,335 2,06 2,06 2,07 3,27 3,27 3,27 3,27 3,27 3,27 3,27 3,2	951 1,950 2,06 697 2,06 697 661 1,358 6,06 698 2,26 75.8 6,06 89.2 67.8 75.405 6,06 75.405 6,06 75.405 6,06 75.405 6,06 75.405 6,06 75.4	959-95-95-95-95-95-95-95-95-95-95-95-95-	962 1,971 2,055 728 688 1,446 56.3 58.5 95.5 68.8 5,280 5,475 10,755 0.1 0.2 4,607 4,607 4,607 4,607 4,607 4,607	969 969 969 969 969 969 969 969 969 969	973 1,994 2,04 764 723 1,487 55.3 58.0 56.6 87.0 89.7 88.4 5,376 5,577 10,983 0.1 0.2 4,671 4,947 9,618 53.1 58.0	
TFR 2.00	0 2.03 4 5.39 5 5.60 9 1.119 0 82.5 0 69.3 0 65.9 7 82.0 3 84.8 6 83.4 the UK 6 4.140 6 4.140 1 0.1 2 0.1 1 0.1 2 0.1 2 0.1	2.05 534 537 1,071 79.11 1,071 79.11 1,071 79.11 1,071 79.11 1,071 79.11 1,071 79.11 1,071 79.11 1,071 79.11 1,071	2.04 533 543 543 75.7 78.4 77.5 83.1 86.1 86.1 86.1 86.2 0.1 0.1 0.1 0.1 0.3 0.8 0.8 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	2.04 541 539 76.2 63.4 4.501 4.501 4.502 4.501 6.56 6.66 6.66 6.7 6.7 6.7 6.7 6.7 6.7 6.7	2.05 544 549 1.093 71.2 75.0 3.8 8.8 8.5 4.615 4.003 9.517 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	2.06 560 661 1,122 70.4 741 72.2 840 4,600 4,670 0,1 0.1 0.1 4,170	2.06 572 572 575 575 575 575 575 575 575 575	2.05 577 571 1,148 67.0 67.0 69.9 64.6 4,535 86.0 0.1 0.1 4,2222 4,2223 6,758 6,3 6,61 6,3 6,61 6,63 6,61	2.06 588 577 68.8 66.8 67.7 68.8 68.3 68.3 68.3 68.3 68.3 68.3 68.3	2.06 600 600 600 600 600 600 600 600 600	2.06 612 566 613 613 613 613 613 613 613 613 613 6	2.07 625 626 626 626 626 626 626 626 626 626	2.07 639 612 1.251 61.4 64.4 65.7 5.5 87.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	2.07 654 622 1.276 60.5 63.3 88.7 87.3 10.273 0.1 0.1 0.1 4.429 9.123 59.3 4.594	2.06 666 654 1,300 66 655 1,300 66 655 1,300 66	206 679 647 1.326 58.4 61.4 61.4 68.3 80.0 87.7 0.1 0.2 0.2 4.5 11.9 9.2 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3	2.06 697 661 1.358 60.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.	712 714 714 1.388 59.7 59.7 59.7 59.3 88.0 10.676 0.1 0.2 4.576 4.4576 4	2.05 728 688 1.416 56.3 56.3 56.9 57.5 86.8 69.5 10,755 0.1 0.2 4,607 4,607 4,679 9,486 53.5 58.3	7455 76571 1.4515 58.8 58.5 57.1 58.8 68.9 68.9 68.9 68.9 68.9 68.9 68.9 6	2.04 764 723 1.487 55.3 58.0 56.6 67.0 89.7 88.4 5.376 5.571 10.953 0.1 0.2 - - - - - - - - - - - - -	
Deaths	4 539 5 580 9 1,119 0 82,5 0 89,3 0 89,3 0 89,3 7 82,0 3 84,8 6 4,140 1 5,066 7 9,196 1 0,1 1 0,1 2 0,1 2 9,470 2 9,683 3 65,5 6 65,5 DVerseas 1 459 8 404 9 862 0 0,0 0 0,0 0 0,0 0 0,0	534 537 1,071 78.1 81.2 90.1 1,02 85.8 84.3 2,5 85.8 84.3 1,03 1,03 1,03 1,03 1,03 1,03 1,03 1,0	533 543 1,076 75,7 78,4 77,5 86,1 86,1 86,1 84,6 9,862 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1	541 539 1.081 73.8 75.2 83.4 4.501 4.802 9.303 0.1 0.1	544 549 1,093 71,2 75,0 71,2 75,0 75,0 75,0 85,3 86,7 85,3 85,17 0,1 0,1 4,158 8,644 4,553 8,644 55,3 6,644	560 561 1,122 74.1 72.2 86.8 85.5 4,600 4,600 4,670 9,471 0,1 0,1 4,179 4,502 6,681 6,692 6,694 7 470 412 0,0 0,0 0,0	572.5 566.6 69.1 72.5 70.7 72.5 84.2 87.1 85.7 9.481 0.1 0.1 0.1 4.596.6 60.2 60.2 60.2 60.2 60.2 60.2 60.2 6	5777 5711,1484 670,709,900 68.9 68.9 68.0 68.0 68.0 68.0 68.0 68.0 68.0 68.0	5888 69.3 57.7 1,1666 69.8 68.8 69.3 57.7 1,1666 69.8 69.3 57.5 58.7 1,1666 69.3 59.3 1,265 69.3 1,	600 600 1116 600 600 600 600 600 600 600	6122 5966 1,2060 65.13 86.07 65.13 88.0.0 86.7 1.01 1.01 1.01 1.01 1.01 1.01 1.01 1.	625 602 1227 1227 1227 1227 1227 1227 1227 12	639 612 1.251 61.4 64.4 62.8 85.7 85.7 85.5 87.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	654 622 1,276 63.3 61.8 85.9 87.3 10,273 0.1 0.1 4,694	6666 6344 1,300 59.4 68.1 68.1 5.114 5.305 60.1 60.1 60.1 60.1 60.1 60.1 60.1 60.1	679 677 1,226 647 1,326 64	697 661 1,358 66 66 66 66 66 66 66 66 66 66 66 66 66	712 712 712 712 712 712 712 712 712 712	728 688 1,1416 56.3 58.9 57.5 88.2 5.280 0.1 0.2 4,607 4,679 9,486 5.3.5 58.3 58.3	7455 705 705 705 705 705 705 705 705 705 7	764 723 1.487 55.3 58.0 56.6 87.0 89.7 88.4 55.376 5.577 10.953 0.1 0.2	
Maile	5	5377 1071 1071 1071 1072 1082 1082 1082 1082 1083 1083 1083 1083 1083 1083 1083 1083	543 1,076 75,7 73,4 77,5 83,1 86,1 86,1 86,1 9,362 0,362 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1	539 1.081 73.8 76.2 73.8 76.2 75.2 75.2 75.2 75.2 75.2 75.2 75.2 75	549 1,083 712 750 1,083 712 750 1,083 88.7 86.3 88.7 86.3 4.615 4.003 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	551 1,122 70.4 74.1 1,122 70.4 84.0 0 6.5 5.5 2 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	566 68.1 1.38 68.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	577.1,148.6 67.0,70.9 68.9.9 64.6 67.3 86.0 4.6555 69.9 60.0 1.0 1.0 4.2222 4.531 60.3 60.3	577.1 1,165.6 63.8 63.3 64.8 67.5 64.8 65.7 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67.5	587.7 1,167 64.5 68.1 1,167 64.5 68.1 1,167 64.5 68.2 68.2 1,167 64.5 68.2 1,167 64.5 68.2 1,167 64.5 68.5 1,167 64.5 64.5 1,167 64.5 64.5 1,167 64.5 64.5 1,167 64.5	566 633 67.0 1.208 633 67.0 1.208 633 67.0 1.208 633 67.0 1.208 63.3 63.0 1.208 63.3 1.208 63.7 1.208 63.3 1.208 63.7 1.208 63.0 1.2	602 (2.3 a) 65.5 a) 65	612 1,251 61,4 64,4 62,8 85,7 85,7 8,9 4,977 0,1 0,1 0,1 4,388 4,056 5,044 4,388 4,586 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,6 5,7 6,7 6,7 6,7 6,7 6,7 6,7 6,7 6,7 6,7 6	622 1,276 60.5 63.3 61.8 85.9 88.7 87.3 5,041 5,231 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	634 1,300 58,4 62,3 68,8 88,8 87,5 10,419 0,1 1,419 0,2 4,477 3,207 54,4 4,473 9,207 54,4 4,473 9,207	647 1,326 58.4 61.4 59.8 86.3 89.0 87.7 5,157 5,349 10,507 0.1 0.2	661 1,358 57.8 60.6 59.1 86.4 89.2 87.8 5,211 5,405 10,616 0.1 0.2 4,538 4,800 9,338 53.9 58.6	674 1,386 57.0 59.7 58.3 86.6 89.3 88.0 5,241 5,435 0.1 0.2	. 688 1,416 56.3 58.9 57.5 86.8 89.5 5,280 5,475 10,755 0.1 0.2 4,607 4,679 9,486 53.5 58.3	705 1.4515 55.8 56.5 57.1 1.6515 57.1 1.6515	723 1,487 55.3 58.0 58.6 87.0 89.7 89.4 5.376 5.577 10,953 0.1 0.2 4,671 4,671 4,947 9,618 53.1 58.0	
Male 494 Female 495 All deaths 979 SMR: male 78.0 SMR: femal 9.46 SMR: femal 9.747 SMgR: fem 0.1 SMRgF: fem 0.1 SMRgF: fem 69.6 Mgrants in 79.6 SMRgF: fem 69.6 Mgrants in 79.6 SMRgF: fem 79.6 SMRgF: fem 75.5 SMRgR: fem 68.6 Mgrants in 75.5 SMRgR: fem 75.5 SMRgR: fem 68.6 SMRgR: fem 75.5	5	5377 1071 1071 1071 1072 1082 1082 1082 1082 1083 1083 1083 1083 1083 1083 1083 1083	543 1,076 75,7 73,4 77,5 83,1 86,1 86,1 86,1 9,362 0,362 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1 0,1	539 1.081 73.8 76.2 73.8 76.2 75.2 75.2 75.2 75.2 75.2 75.2 75.2 75	549 1,083 712 750 1,083 712 750 1,083 88.7 86.3 88.7 86.3 4.615 4.003 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	551 1,122 70.4 74.1 1,122 70.4 84.0 0 6.5 5.5 2 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	566 68.1 1.38 68.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	577.1,148.6 67.0,70.9 68.9.9 64.6 67.3 86.0 4.6555 69.9 60.0 1.0 1.0 4.2222 4.531 60.3 60.3	577.1 1,165.6 63.8 63.3 64.8 67.5 64.8 65.7 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 65.0 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67.5	587.7 1,167 64.5 68.1 1,167 64.5 68.1 1,167 64.5 68.2 68.2 1,167 64.5 68.2 1,167 64.5 68.2 1,167 64.5 68.5 1,167 64.5 64.5 1,167 64.5 64.5 1,167 64.5 64.5 1,167 64.5	566 633 67.0 1.208 633 67.0 1.208 633 67.0 1.208 633 67.0 1.208 63.3 63.0 1.208 63.3 1.208 63.7 1.208 63.3 1.208 63.7 1.208 63.0 1.2	602 (2.3 a) 65.5 a) 65	612 1,251 61,4 64,4 62,8 85,7 85,7 8,9 4,977 0,1 0,1 0,1 4,388 4,056 5,044 4,388 4,586 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,54,6 5,6 5,7 6,7 6,7 6,7 6,7 6,7 6,7 6,7 6,7 6,7 6	622 1,276 60.5 63.3 61.8 85.9 88.7 87.3 5,041 5,231 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	634 1,300 58,4 62,3 68,8 88,8 87,5 10,419 0,1 1,419 0,2 4,477 3,207 54,4 4,473 9,207 54,4 4,473 9,207	647 1,326 58.4 61.4 59.8 86.3 89.0 87.7 5,157 5,349 10,507 0.1 0.2	661 1,358 57.8 60.6 59.1 86.4 89.2 87.8 5,211 5,405 10,616 0.1 0.2 4,538 4,800 9,338 53.9 58.6	674 1,386 57.0 59.7 58.3 86.6 89.3 88.0 5,241 5,435 0.1 0.2	. 688 1,416 56.3 58.9 57.5 86.8 89.5 5,280 5,475 10,755 0.1 0.2 4,607 4,679 9,486 53.5 58.3	705 1.4515 55.8 56.5 57.1 1.6515 57.1 1.6515	723 1,487 55.3 58.0 58.6 87.0 89.7 89.4 5.376 5.577 10,953 0.1 0.2 4,671 4,671 4,947 9,618 53.1 58.0	
All deaths 979 SMR: persel 78.0 In-migration from the Male 4.556 Fermale 5.079 Margans in 0.2 Margans in 0.2 Margans in 0.2 Margans in 0.2 Margans in 0.3 SMgR: mal 60.3 SMgR: mal 60.3 SMgR: mal 60.3 SMgR: mal 60.3 SMgR: mal 70.5 SMgR:	9 1,119 8.25 0 82.5 0 89.3 3 0 85.9 7 82.0 0 89.3 3 84.8 6 83.4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1,071 79.1 1,071 79.1 80.1 80.1 80.1 80.1 80.5 85.8 84.3 4.412 9.158 0.1 1 0.1 4.037 4.451 60.7 . 469.0 0.0 0.0 375 304	1,076 75.7 73.4 77.5 83.1 86.1 86.1 86.1 9.802 0.1 0.1 4.080 4.470 6.650 6.550 6.650	1.081 7.38 76.2 75.0 76.2 75.0 83.4 88.5 85.0 4.501 - 4.501 - 4.902 9.303 0.1 4.123 4.473 8.596 60.6 482 420 0.0 0.0 0.0 0.0 375 304	1,080 712 750 750 751 751 853 867 853 4,615 4,615 4,615 4,616 6,644 4,666 6,76	1,122 70.4 74.1 72.2 86.8 85.5 85.5 9,471 0.1 1. 4,179 4,502 60.4	1.138 68.1 1.138 68.1 1.138 68.1 1.138 68.1 1.138 68.1 1.138 68.1 1.138 68.7 72.5 70.7 1.138 68.7 72.1 1.138 68.1 1.138 6	1.148 6770 68.9 68.9 68.9 68.9 68.9 68.9 68.9 68.9	1,165 6.8.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6	1,187 64.5.4 68.1 1.187 64.5.4 68.1 1.187 68.2 2.2 68.1 1.187 68.2 2.2 68.1 1.187 68.5 5.0 69.4 4.573 68.5 5.0 69.4 4.295 69.5 5.9 9.4 4.58 69.5 69.5 69.5 69.5 69.5 69.5 69.5 69.5	1,208 63.3 67.0 65.1 65.1 65.1 65.1 65.1 65.1 65.1 65.1	1,227 62.3 63.8 65.5 63.8 86.9 88.3 86.9 4,336.6 1,077 0.1 1 0.1 4,355.6 4,262.6 8,982.2 4,455.6 55.7 .	1,251 61.4 64.4 62.8 85.7 88.5 87.1 4,977 5,169 10,147 0.1 - - - - - - - - - - - - - - - - - - -	1,276 60.5 63.3 61.8 85.9 88.7 87.3 5.041 5,231 10,273 0.1 0.1 4,429 4,429 4,429 54.5 59.3 6.458	1,300 59.4 62.3 60.8 86.1 88.8 87.5 5,114 5,305 10,419 0.1 0.2	1,326 58.4 61.4 59.8 86.3 89.0 87.7 5,157 0,1 0,2	1,358 57.8 60.6 59.1 88.4 89.2 87.8 5,211 5,405 0.1 0.2	1,386 57.0 59.7 58.3 86.6 89.3 88.0 10,676 0.1 0.2 4,576 4,437 9,443 53.7 53.7 54.8	1,416 56.3 58.9 57.5 88.8 89.5 88.2 5,280 5,475 10,755 0.1 0.2 4,607 4,679 9,486 58.3 58.3	1,451 58.85 57.71 88.9.8 88.9.8 88.3 5,353 5,552 10,900 4,915 9,553 53.3 58.2	1,487 55.3 58.0 56.6 87.0 89.7 88.4 5.376 5.577 10,953 0.1 0.2	
SMR: femal 7.6.0 SMR: pers 7.6.0 Expectation 8.2.7 Expectation 8.3.1 Expectation 8.3.1 Expectation 8.3.1 Expectation 8.3.1 Expectation 9.3.1 In-migration from the Male 5.591 All 9.747 Out-migration 5.191 All 9.747 Out-migration to the Male 5.079 All 9.822 SMgR: ma 0.1 SMgR: ma 0.2 SMgR: ma 0.3 SMgR: ma	0 89.3 0 85.9 7 82.0 85.9 1 84.8 6 83.4 1 5.0 6 6 7 9.196 1 0.1 1 2 0.1 1 2 9 9 4.770 2 9 8.5 6 6 6.5 6 6 6.5 0 9.7 9 862 0 0.0 0 0.	81.2 81.2 80.1 81.2 81.2 81.2 81.2 81.2 81.2 81.2 81	78.4 77.5 83.1 86.1 84.6 9.802 4.519 4.443 9.802 4.470 0.1 0.1 0.1 4.080 4.470 6.850 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	76.2 75.0 83.4 86.5 85.0 4,501 4,501 4,501 4,123 4,473 6,553 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	75.0 (74.1 72.2 84.0 86.8 85.5 85.5 4.600 4.600 4.670 9.471 0.1 4.179 4.502 6.681 7 470 412 881 0.0	72.5 70.7. 72.5 70.7.	70.9 68.9 84.6 87.3 86.0 4,635 4,874 9,509 0.1 0.1 4,227 4,531 60.3	69.3 67.5 84.8 87.6 86.3 4,854 5,087 9,941 0.1 4,267 4,535 60.1	68.1 66.2 85.1 87.8 86.5 4,873 5,094 9,997 0.1 0.1 4,295 4,561 8,856 55.0 59.9 **	67.0 65.1 85.3 88.0 86.7 4,890 5,098 9,987 0.1 0.1 4,320 4,591 8,911 54.8 59.8	65.5 63.8 85.5.5 88.3 86.9 4,936 5,135 10,071 0.1 0.1 4,355 4,626 8,982 54.7 59.7	64.4 62.8 85.7 88.5 87.1 4,977 5,169 10,147 0.1 - - - - - - - - - - - - - - - - - - -	63.3 61.8 85.9 88.7 87.3 5,041 5,231 10,273 0.1 0.1 4,429 4,694 9,123 54.5 59.3	62.3 60.8 86.1 88.8 87.5 5,114 5,305 10,419 0.1 0.2 4,477 4,730 9,207 54.4 59.1	61.4 59.8 86.3 89.0 87.7 5,157 5,349 10,507 0.1 0.2	60.6 59.1 86.4 89.2 87.8 5.211 5.405 10.616 0.1 0.2 4.538 4.800 9.338 53.9 58.6	59.7 58.3 88.6 89.3 88.0 5,241 5,435 10,676 0.1 0.2 4,576 4,837 9,413 53.7 53.7	58.9 57.5 88.8 89.5 89.5 88.2 5,475 10,755 0.1 0.2 4,607 4,879 9,486 53.5 8.3	58.5 57.1 86.9 89.6 88.3 5,353 5,552 10,905 0.1 0.2	58.0 56.6 87.0 89.7 88.4 5,376 5,577 10,953 0.1 0.2 - 4,671 4,947 9,618 53.1 58.0 -	
SMR: pers 78.0 Expectation 82.7 Expectation 82.7 Expectation 84.6 Deaths impl 84.6 Deaths impl 94.6 Deaths i	0	80.1 80.1 82.5 85.8 85.8 84.3 84.3 84.3 84.3 84.3 84.3 84.3 85.1 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	77.5 8.60.1 8.4.6 9.50.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	75.0 83.4 4.501 4.502 9.303 0.1 0.1 4.123 4.473 8.596 65.3 6.66	73.1 83.8 86.7 85.3 4.615 4.903 9.517 0.1 0.1 4.156 8.644 4.458 8.644 4.458 8.644 4.458 8.644 4.458 8.644 9.653 8.644 8.653 8.553 8.	72.2 84.0 86.8 86.8 85.5 85.5 4,600 4,870 9,471 1,179 4,500 6,604	70.7 84.2 87.1 85.7 4.614 4.867 9.481 0.1 0.1 4.192 4.506 60.2 4.508 60.2	68.9 84.6 87.3.3 86.0 4,635 4,635 0.1 0.1 0.1 4,227 4,231 8,758 60.3 458 458 403	67.5 84.8 87.6 86.3 4.854 5.097 9.941 0.1 0.1 4.267 4.267 60.1	66.2 85.1 87.8 86.5 4.873 5.094 9.967 0.1 0.1 4.295 4.561 8.856 55.0 59.9 4.295 4.494 4.49	65.1 85.3 88.0 86.7 4,890 5,098 9,987 0.1 0.1 4,320 4,591 54.8 59.8 458 403	63.8 85.5 88.3 86.9 4,936 5,135 10,071 0.1	62.8 85.7 88.55 87.1 4,977 5,169 10,147 0.1 0.1 4,388 4,656 9,044 54.6 59.5	61.8 85.9 88.7 87.3 5,041 5,231 10,273 0.1 0.1	60.8 86.1 88.8 87.5 5,114 5,305 10,419 0.1 0.2	59.8 86.3 89.0 87.7 5,157 5,349 10,507 0.1 0.2	59.1 86.4 89.2 87.8 5,211 5,405 10,616 0.1 0.2 4,538 4,800 9,338 53.9 58.6	58.3 86.6 89.3 88.0 5,241 5,435 10,676 0.1 0.2	57.5 86.8 89.5 88.2 5,280 5,475 10,755 0.1 0.2 * 4,607 4,607 9,486 53.5 58.3 *	57.1 86.9 89.6 88.3 5,353 5,552 10,905 0.1 0.2 4,638 4,915 9,553 53.3 58.2	56.6 87.0 89.7 88.4 5.376 5.577 10.953 0.1 0.2 - 4.671 4.671 4.671 4.671 4.671 4.671	
Epeciation 8.2.7 Expectation 82.7 Expectation 86.3 Expect	7 82.0 7 82.0 8 4.8 6 83.4 he UK 6 4,140 1 5,056 7 9,196 1 0.1 2 0.1 2 9,693 3 4,922 9 4,770 2 9,693 3 65.5 6 65.5 Doverseas 1 459 8 404 9 862 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	82.5 85.8 84.3 4.412 4.745 9.158 0.1 - - - - - - - - - - - - - - - - - - -	83.1 83.1 85.1 85.1 85.1 85.1 85.1 85.1 85.1 85	83.4 86.5 85.0 85.0 4.501 4.501 4.501 4.501 4.501 6.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8	83.8 86.7 85.3 85.3 85.3 85.3 85.3 85.3 85.3 85.3	84.0 86.8 85.5 4.600 4.600 4.670 9.471 0.1 0.1 4.179 4.502 8.681 55.2 4.600 4.	84.2 87.1 85.7 4.614 4.867 9.481 0.1 0.1 4.192 4.506 60.2 60.2	84.6 87.3 86.0 4.635 4.874 9.509 0.1 0.1 4.227 4.531 60.3 -	84.8 87.6 86.3 4.854 5,087 9,941 0.1 0.1 4,267 4,535 8,803 55.2 60.1	85.1 87.8 86.5 4.873 5.094 9.967 0.1 0.1 4.295 4.561 8.866 55.0 59.9	85.3 88.0 86.7 4,890 5,098 9,987 0.1 0.1 4,320 4,591 54.8 59.8	85.5 88.3 86.9 4,936 5,135 10,071 0.1 0.1	85.7 88.5 87.1 4,977 5,169 10,147 0.1 0.1 4,388 4,656 9,044 54.6 59.5	85.9 88.7 87.3 5,041 5,231 10,273 0.1 0.1 4,429 4,694 9,123 54.5 59.3	86.1 88.8 87.5 5,114 5,305 10,419 0.1 0.2	86.3 89.0 87.7 5.157 5.349 10.507 0.1 0.2	86.4 89.2 87.8 5.211 5.405 10.616 0.1 0.2 4.538 4.800 9.338 53.9 58.6	86.6 89.3 88.0 5.241 5.435 10,676 0.1 0.2 4.576 4.837 9.413 53.7 58.4	88.8 89.5 88.2 5,280 5,475 10,755 0.1 0.2 4,607 4,879 9,486 53.5 5.8.3	86.9 89.6 88.3 5,363 5,552 10,905 0.1 0.2 4,638 4,915 9,553 53.3 58.2	87.0 89.7 88.4 5.376 5.577 10,953 0.1 0.2 4,671 4,947 9,618 53.1 58.0	
Expectation 84.6 Deaths inp) - In-migration from the Male 4,506 Female 5,191 All 9,374 SMgR: fem 0.2 Mygrans in - Out-migration to the Male 4,543 Female 6,33 SMgR: fem 69.6 Mygrans in - In-migration from Ov Male 4,543 Female 6,33 SMgR: fem 69.6 Mygrans in - In-migration from Ov Male 4,543 Female 388 All 829 SMgR: ma 0.0 SMgR	6 83.4 the UK 6 4,140 1 5,056 1 0.1 2 0.1 2 0.1 3 4,922 9,693 3 65.5 6 65.5 ** ** ** ** ** ** ** ** **	4.412 4.745 9.158 9.168	04.6 04	4,501 4,802 9,303 0,1 0,1 4,123 4,473 60,6 55,3 60,6 420 902 902 902 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0	4,615 4,903 9,517 0.1 0.1 4,156 4,488 8,644 55.3 60.6 466 409 875 0.0	4,600 4,870 9,471 0.1 - - - - - - - - - - - - - - - - - - -	4,514 4,867 9,481 0.1 0.1 4,192 4,506 8,688 55.0 60.2	4,635 4,874 9,509 0.1 0.1 4,227 4,531 8,758 55.1 60.3	4,854 5,067 9,941 0.1 0.1 4,267 4,535 8,803 55.2 60.1	4,873 5,094 9,967 0.1 0.1 4,295 4,561 8,856 55.0 9	4,890 5,098 9,967 0.1 0.1 4,320 4,591 8,911 54.8 59.8	4,936 5,135 10,071 0.1 0.1 4,355 4,626 8,982 54.7 59.7	87.1 4,977 5,169 10,147 0.1 0.1 * 4,388 4,656 9,044 54.6 59.5 *	87.3 5,041 5,231 10,273 0.1 0.1 4,429 4,694 9,123 54,5 59,3	87.5 5,114 5,305 10,419 0.1 0.2 - 4,477 4,730 9,207 54.4 59.1	87.7 5,157 5,349 10,507 0.1 0.2	5,211 5,405 10,616 0.1 0.2 - 4,538 4,800 9,338 53.9 58.6	5,241 5,435 10,676 0.1 0.2 4,576 4,837 9,413 53.7 58.4	5,280 5,475 10,755 0.1 0.2 4,607 4,679 9,486 53.5 58.3	88.3 5,363 5,552 10,905 0.1 0.2	5.376 5.577 10,953 0.1 0.2 4,671 4,947 9,618 53.1 58.0	
Deaths inp	he UK 6 4,140 1 5,056 7 9,196 1 0,1 2 0,1 2 0,1 2 9 4,770 2 9,693 3 65,5 6 65,5 DVerseas 1 459 8 404 9 662 0 0,0 0 0,0 0 0,0 0 0,0 0 0,0	4,412,414,414,414,414,414,414,414,414,41	4,519 4,843 9,362 0,1 0,1 4,080 4,470 8,550 60.8 459 404 662 0,0 0 376 304 680	4,501 4,602 9,303 0.1 0.1 1,123 4,473 4,473 6,596 60.6	4,615 4,903 9,517 0.1 0.1 4,156 4,486 6,644 55.3 60.6 466 409 875 0.0 0.0 376	4,600 4,870 9,471 0.1 0.1 4,179 4,502 8,681 55.2 60.4 470 412 881 0.0	4,514 4,867 9,481 0.1 0.1 4,192 4,506 55.0 60.2 - -	4,635 4,874 9,509 0.11 0.1 4,227 4,531 8,758 55.1 60.3	4,854 5,087 9,941 0.1 0.1 4,267 4,535 8,803 55.2 60.1	4,873 5,094 9,967 0.1 0.1 4,295 4,561 8,856 55.0 9	4,890 5,098 9,987 0.1 0.1 4,320 4,591 8,911 54.8 59.8	4,936 5,135 10,071 0.1 0.1 4,355 4,626 8,982 54.7 59.7 4488	4,977 5,169 10,147 0.1 0.1 4,388 4,656 9,044 54.6 59.5 - 458 403	5,041 5,231 10,273 0.1 0.1	5,114 5,305 10,419 0.1 0.2	5,157 5,349 10,507 0.1 0.2	5,211 5,405 10,616 0.1 0.2 * 4,538 4,800 9,338 53,9 58.6	5,241 5,435 10,676 0.1 0.2 4,576 4,837 9,413 53.7 58.4	5,280 5,475 10,755 0.1 0.2 4,607 4,879 9,486 53.5 53.5	5,353 5,552 10,905 0.1 0.2	5.376 5.577 10,953 0.1 0.2 - - - 4,671 4,947 9,618 58.0	
Male 4,556 Female 5,191 All 9,747 SMgR: mal 0.1 SMgR: mal 0.1 SMgR: mal 0.2 Mgrants in 2 Mgrants in 2 Mgrants in 3 MgR: mal 0.2 Mgrants in 3 MgR: mal 0.2 Mgrants in 4 Mgrants in 4 Mgrants in 6 Mgrants in 7 Mgrants in 6 Mgrants in 7 Mgrants in 7 Mgrants in 7 Mgrants in 6 Mgrants in 7 Mgrants in 6 Mgrants in 7 Mgrants	6 4,140 6 7,0566 7 9,196 1 0.1 2 0.1 6 WK 3 4,922 2 9,693 3 65.5 6 6.5 DVETSBB 409 9 682 0 0.0	4,745 9,158 0.1 0.1 0.1 4,037 4,451 8,488 55.1 60.7 405 864 0.0 0.0 0.0	4,843 9,362 0.1 0.1 0.1 4,080 4,470 8,550 60.8 449 404 882 0.0 0.0 0.0 0.0	4,802 9,303 0,11 	4,903 9,517 0.1 0.1 0.1 4,156 4,488 8,644 55.3 60.6 409 875 0.0	4,870 9,471 0.1 0.1 4,179 4,502 8,681 55.2 60.4 - -	4,867 9,481 0.1 0.1 4,192 4,506 8,698 55.0 60.2 458 403 861 0.0	4,874 9,509 0.1 0.1 4,227 4,531 8,758 55.1 60.3 458 458 458	5,087 9,941 0.1 0.1 4,267 4,535 8,803 55.2 60.1	5,094 9,967 0.1 0.1 4,295 4,561 8,856 55.0 59.9 448 458 458 458	5,098 9,987 0.1 0.1 4,320 4,591 5,911 54.8 59.8 458 458 458	5,135 10,071 0.1 0.1 4,355 4,626 8,982 54.7 59.7	5,169 10,147 0.1 0.1 * 4,388 4,656 9,044 54.6 59.5 *	5,231 10,273 0.1 0.1	5,305 10,419 0.1 0.2 - 4,477 4,730 9,207 54.4 59.1	5,349 10,507 0.1 0.2	5,405 10,616 0.1 0.2 4,538 4,800 9,338 53.9 58.6	5,435 10,676 0.1 0.2	5,475 10,755 0.1 0.2	5,552 10,905 0.1 0.2	5,577 10,953 0.1 0.2 - - 4,671 4,947 9,618 53.1 58.0	
Maile	6 4,140 6 7,0566 7 9,196 1 0.1 2 0.1 6 WK 3 4,922 2 9,693 3 65.5 6 6.5 DVETSBB 409 9 682 0 0.0	4,745 9,158 0.1 0.1 0.1 4,037 4,451 8,488 55.1 60.7 405 864 0.0 0.0 0.0	4,843 9,362 0.1 0.1 0.1 4,080 4,470 8,550 60.8 449 404 882 0.0 0.0 0.0 0.0	4,802 9,303 0,11 	4,903 9,517 0.1 0.1 0.1 4,156 4,488 8,644 55.3 60.6 409 875 0.0	4,870 9,471 0.1 0.1 4,179 4,502 8,681 55.2 60.4 - -	4,867 9,481 0.1 0.1 4,192 4,506 8,698 55.0 60.2 458 403 861 0.0	4,874 9,509 0.1 0.1 4,227 4,531 8,758 55.1 60.3 458 458 458	5,087 9,941 0.1 0.1 4,267 4,535 8,803 55.2 60.1	5,094 9,967 0.1 0.1 4,295 4,561 8,856 55.0 59.9 448 458 458 458	5,098 9,987 0.1 0.1 4,320 4,591 5,911 54.8 59.8 458 458 458	5,135 10,071 0.1 0.1 4,355 4,626 8,982 54.7 59.7	5,169 10,147 0.1 0.1 * 4,388 4,656 9,044 54.6 59.5 *	5,231 10,273 0.1 0.1	5,305 10,419 0.1 0.2 - 4,477 4,730 9,207 54.4 59.1	5,349 10,507 0.1 0.2	5,405 10,616 0.1 0.2 4,538 4,800 9,338 53.9 58.6	5,435 10,676 0.1 0.2	5,475 10,755 0.1 0.2	5,552 10,905 0.1 0.2	5,577 10,953 0.1 0.2 - - 4,671 4,947 9,618 53.1 58.0	
All 9,747 SMgR: mai 0,11 SMgR: mai 0,1 SMgR: mai 0,2 Mgrants in 0,2 Mgrants in 0,2 All 4,543 Female 4,543 Female 5,079 All 9,822 All 9,822 SMgR: mai 0,0 Mgrants in 0,0 Mgrants i	7 9,196 1 0.1 2 0.1 1 2 0.1 1 2 0.1 2 0.1 3 4,922 9 4,770 2 9,683 3 65,5 6 65,5 DVerseas 8 404 9 662 0 0.0 0 0.0 0 0.0 0 0.0 Verseas 9 375 9 303 5 678 5 687	9,158 0.1 0.1 - 4,037 4,451 8,488 55.1 60.7 - 460 405 864 0.0 0.0	9,362 0.1 0.1 4,080 4,470 8,550 55.2 60.8 404 404 862 0.0 0.0 0.0	9,303 0.1 0.1 1 1 2 4,123 4,473 8,596 55.3 60.6 2 482 902 0.0 0.0 0.0	9,517 0.1 0.1 4,156 4,488 8,644 55.3 60.6 0.6 466 409 875 0.0	9,471 0.1 0.1 - 4,179 4,502 8,681 55.2 60.4 - 470 412 881 0.0	9,481 0.1 0.1 4,192 4,506 8,698 55.0 60.2 458 403 861 0.0	9,509 0.1 0.1 4,227 4,531 8,758 8,758 60.3 60.3	9,941 0.1 0.1 4,267 4,535 8,803 55.2 60.1	9,967 0.1 0.1 4,295 4,561 8,856 55.0 9	9,987 0.1 0.1 4,320 4,591 8,911 54.8 59.8	10,071 0.1 0.1 4,355 4,626 8,982 54.7 59.7	10,147 0.1 0.1 - 4,388 4,656 9,044 54.6 59.5	10,273 0.1 0.1	10,419 0.1 0.2 * 4,477 4,730 9,207 54.4 59.1	10,507 0.1 0.2	10,616 0.1 0.2 4,538 4,800 9,338 53.9 58.6	10,676 0.1 0.2 - 4,576 4,837 9,413 53.7 58.4	10,755 0.1 0.2 4,607 4,879 9,486 53.5 58.3	10,905 0.1 0.2	10,953 0.1 0.2 - 4,671 4,947 9,618 53.1 58.0	
SMgR: ma	1 0.1 2 0.1 2 0.1 1	0.1 0.1 4,037 4,451 8,488 55,1 60.7 - 460 405 884 0.0 0.0 - 375 304 679 93.0	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0	4,123 4,473 8,596 55.3 60.6 482 420 902 0.0 0.0	0.1 0.1 0.1 4.155 4.488 8.644 55.3 60.6 466 409 875 0.0	0.1 0.1 0.1 4,179 4,502 8,681 55.2 60.4 470 412 881 0.0	0.1 0.1 4,192 4,506 8,698 55.0 60.2 458 403 861 0.0	0.1 0.1 0.1 4,227 4,531 8,758 55.1 60.3	0.1 0.1 4,267 4,535 8,803 55.2 60.1 458 403 861	0.1 0.1 4.295 4.561 8.856 55.0 59.9 458 403 861	0.1 0.1 4,320 4,591 8,911 54.8 59.8 458 403 861	0.1 0.1 4,355 4,626 8,962 54.7 59.7 458 403	0.1 0.1 4,388 4,656 9,044 54.6 59.5	0.1 0.1 4,429 4,694 9,123 54.5 59.3	0.1 0.2 4,477 4,730 9,207 54.4 59.1	0.1 0.2 4.511 4.779 9.290 54.2 59.0	0.1 0.2 4.538 4.800 9.338 53.9 58.6	0.1 0.2 4.576 4.837 9.413 53.7 58.4	0.1 0.2 - 4,607 4,879 9,486 53.5 58.3	0.1 0.2 4.638 4.915 9.553 53.3 58.2	0.1 0.2 - 4,671 4,947 9,618 53.1 58.0	
Mgrants in	we UK 3 4,922 4,770 2 9,693 3 65.5 6 65.5 ** ** ** ** ** ** ** ** **	4,037 4,451 8,488 50.7 460 405 864 0.0 0.0 375 304 679 93.0	4,080 4,470 8,550 55.2 60.8 459 404 862 0.0 0.0 376 304 680 92.5	4,123 4,473 8,596 55.3 60.6 - - - - - - - - - - - - - - - - - - -	4,156 4,488 8,644 55.3 60.6 466 409 875 0.0	4,179 4,502 8,681 55.2 60.4 - - 470 412 881 0.0	4,192 4,506 8,698 55.0 60.2 458 403 861 0.0	4,227 4,531 8,758 55.1 60.3	4,267 4,535 8,803 55.2 60.1 458 403 861	4.295 4.561 8.856 55.0 59.9 458 403 861	4,320 4,591 8,911 54.8 59.8 458 403 861	4,355 4,626 8,962 54.7 59.7 458 403 861	4,388 4,656 9,044 54.6 59.5 458	4,429 4,694 9,123 54.5 59.3	4,477 4,730 9,207 54.4 59.1	4,511 4,779 9,290 54.2 59.0	4,538 4,800 9,338 53.9 58.6	4,576 4,837 9,413 53.7 58.4	4,607 4,879 9,486 53.5 58.3	4,638 4,915 9,553 53.3 58.2	4,671 4,947 9,618 53.1 58.0	
Out-migration to the Male 4,543 Amman 4 6,567 Amman 6 9,622 MMgR: mai 60,3 MMgR: mai 60,3 MMgR: mai 60,3 MMgR: mai 60,3 MMgR: mai 60,5 MMgR: mai 60,5 MMgR: mai 60,5 MMgR: mai 70,5 MMgR:	3 4,922 9 4,770 9 5,655 6 65,5 6 65,5 8 459 8 404 9 862 0 0.0 0 0.0 • • • • • • • • • • • • • • • • • •	4,451 8,488 55.1 60.7 460 405 864 0.0 0.0 375 304 679 93.0	4,470 8,550 55.2 60.8 * 459 404 862 0.0 0.0 * 376 304 680 92.5	4,473 8,596 55.3 60.6	4,488 8,644 55.3 60.6 466 409 875 0.0	4,502 8,681 55.2 60.4 470 412 881 0.0	4,506 8,698 55.0 60.2 458 403 861 0.0 0.0	4,531 8,758 55.1 60.3 - 458 403 861	4,535 8,803 55.2 60.1 - - - - - - - - - - - - - - - - - - -	4,561 8,856 55.0 59.9 * 458 403 861 0.0	4,591 8,911 54.8 59.8 * * * * * * * * * * * * * * * * * * *	4,626 8,982 54.7 59.7 * 458 403 861	4,656 9,044 54.6 59.5 • 458 403	4,694 9,123 54.5 59.3	4,730 9,207 54.4 59.1	4,779 9,290 54.2 59.0	4,800 9,338 53.9 58.6	4,837 9,413 53.7 58.4	4,879 9,486 53.5 58.3	4,915 9,553 53.3 58.2	4,947 9,618 53.1 58.0	
Male 4,543 Female 5,079 All 9,822 SMgR: mal 60.3 SMgR: mal 60.3 SMgR: mal 60.3 Mgrants in * * * * * * * * * * * * * * * * * *	3 4,922 9 4,770 9 5,655 6 65,5 6 65,5 8 459 8 404 9 862 0 0.0 0 0.0 • • • • • • • • • • • • • • • • • •	4,451 8,488 55.1 60.7 460 405 864 0.0 0.0 375 304 679 93.0	4,470 8,550 55.2 60.8 * 459 404 862 0.0 0.0 * 376 304 680 92.5	4,473 8,596 55.3 60.6	4,488 8,644 55.3 60.6 466 409 875 0.0	4,502 8,681 55.2 60.4 470 412 881 0.0	4,506 8,698 55.0 60.2 458 403 861 0.0 0.0	4,531 8,758 55.1 60.3 - 458 403 861	4,535 8,803 55.2 60.1 - - - - - - - - - - - - - - - - - - -	4,561 8,856 55.0 59.9 * 458 403 861 0.0	4,591 8,911 54.8 59.8 * * * * * * * * * * * * * * * * * * *	4,626 8,982 54.7 59.7 * 458 403 861	4,656 9,044 54.6 59.5 • 458 403	4,694 9,123 54.5 59.3	4,730 9,207 54.4 59.1	4,779 9,290 54.2 59.0	4,800 9,338 53.9 58.6	4,837 9,413 53.7 58.4	4,879 9,486 53.5 58.3	4,915 9,553 53.3 58.2	4,947 9,618 53.1 58.0	
Female 5.079 All 9.622 SMgR: ma 69.3 SMgR: me 69.6 Myrants in 2.23 SMgR: ma 0.0 SMgR: ma 0.0 Myrants in 2.23 All 3.23 SMgR: ma 0.0 Myrants in 2.23 SMgR: ma 0.0 Myrants in 2.23 SMgR: ma 0.0 SMgR: ma 0.0 Myrants in 2.23 All 5.25 SMgR: ma 7.5.5 SMgR: ma 7.5 SMgR: ma 7.	9 4,770 2 9,693 3 65.5 6 65.5 1 459 8 404 9 802 0 0.0 0 verseas 6 375 9 303 5 6788 5 89.7	4,451 8,488 55.1 60.7 460 405 864 0.0 0.0 375 304 679 93.0	4,470 8,550 55.2 60.8 * 459 404 862 0.0 0.0 * 376 304 680 92.5	4,473 8,596 55.3 60.6	4,488 8,644 55.3 60.6 466 409 875 0.0	4,502 8,681 55.2 60.4 470 412 881 0.0	4,506 8,698 55.0 60.2 458 403 861 0.0 0.0	4,531 8,758 55.1 60.3 - 458 403 861	4,535 8,803 55.2 60.1 - - - - - - - - - - - - - - - - - - -	4,561 8,856 55.0 59.9 * 458 403 861 0.0	4,591 8,911 54.8 59.8 * * * * * * * * * * * * * * * * * * *	4,626 8,982 54.7 59.7 * 458 403 861	4,656 9,044 54.6 59.5 • 458 403	4,694 9,123 54.5 59.3	4,730 9,207 54.4 59.1	4,779 9,290 54.2 59.0	4,800 9,338 53.9 58.6	4,837 9,413 53.7 58.4	4,879 9,486 53.5 58.3	4,915 9,553 53.3 58.2	4,947 9,618 53.1 58.0	
SMgR: ma 6.0.3	3 65.5 6 65.5 Dverseas 1 459 862 0 0.0 0 0.0 0 0.0 verseas 6 375 9 5 678 89.7	55.1 60.7 * 460 405 864 0.0 0.0 * * * * * * * * * * * * * * * *	55.2 60.8 459 404 862 0.0 0.0 -	55.3 60.6 482 420 902 0.0 0.0 375 304	55.3 60.6 • 466 409 875 0.0 •	55.2 60.4	458 403 861 0.0	55.1 60.3 * 458 403 861 0.0	55.2 60.1 * 458 403 861 0.0	55.0 59.9 * 458 403 861 0.0	54.8 59.8 458 403 861 0.0	54.7 59.7 * 458 403 861	54.6 59.5 • 458 403	54.5 59.3 •	54.4 59.1 •	54.2 59.0	53.9 58.6	53.7 58.4 •	53.5 58.3	53.3 58.2 *	53.1 58.0	
SMgR: Rem 69.5	Dverseas 1 459 8 404 9 862 0 0.0 0 0.0 0 57 verseas 6 375 6 375 5 678 5 89.7	60.7 460 405 864 0.0 0.0 • 375 304 679 93.0	459 404 862 0.0 0.0 376 304 680 92.5	60.6 482 420 902 0.0 0.0 375 304 679	60.6 466 409 875 0.0 0.0	470 412 881 0.0 0.0	458 403 861 0.0 0.0	458 403 861	458 403 861	458 403 861 0.0	59.8 458 403 861 0.0	59.7 • 458 403 861	59.5 • 458 403	59.3	59.1	59.0	58.6	58.4	58.3	58.2	58.0	
In-migration from Over	1 459 8 404 9 862 0 0.0 0 0.0	405 864 0.0 0.0	404 862 0.0 0.0 - 376 304 680 92.5	420 902 0.0 0.0	409 875 0.0 0.0	412 881 0.0 0.0	403 861 0.0 0.0	403 861 0.0	403 861 0.0	403 861 0.0	403 861 0.0	403 861	403			458	458					
Male 441 Female 388 All 829 SMgR: lem 0.0 SMgRatina 0.0 Mgrants in 0.0 Mgrants in 0.0 Mgration 0	1 459 8 404 9 862 0 0.0 0 0.0	405 864 0.0 0.0	404 862 0.0 0.0 - 376 304 680 92.5	420 902 0.0 0.0	409 875 0.0 0.0	412 881 0.0 0.0	403 861 0.0 0.0	403 861 0.0	403 861 0.0	403 861 0.0	403 861 0.0	403 861	403			458	458					
Female 398 All 829 All 829 All 829 SubgR: ma 0.0 SMgR: lem 0.0 SMgR: lem 0.0 Myrants in 296 Female 299 All 335 SMgR: ma 70.5 SMgR: lem 70.5 SMgRation Net Flow UK +125 Overseas +294 Summary of populat Natural oth 4807 Courte flow 1276 Courte Deal 6.51 Conde Birth 1276 Conde Birt	8 404 9 862 0 0.0 0 0.0 • ** • • • • • • • • • • • • • • • • •	405 864 0.0 0.0	404 862 0.0 0.0 - 376 304 680 92.5	420 902 0.0 0.0	409 875 0.0 0.0	412 881 0.0 0.0	403 861 0.0 0.0	403 861 0.0	403 861 0.0	403 861 0.0	403 861 0.0	403 861	403			458	458					
All 829 SMgR: mal 0.0 Mgrantsin 0.0 Mgrantsin 0.0 Mgrantsin 0.2 Migrantsin 0.3 SMgR: mal 75.5 SMgR: mal 75.5 SMgR: mal 75.5 Mgrantsin 0.4 Migration - Net Flow Migration - Net Flow Migration 1.2 Summary of populat Natural cha 4807 Mgrantsin 0.4 Summary of populat Crude Birth 1.226 Crude Deat 0.51 Crude 0.51 C	9 862 0 0.0 0 0.0 verseas 6 375 9 303 5 678 5 89.7	864 0.0 0.0 * 375 304 679 93.0	376 304 680 92.5	902 0.0 0.0	875 0.0 0.0 •	881 0.0 0.0	861 0.0 0.0	861	861	861	861	861		403		403	403	403				
SMgR: km	0 0.0 verseas 6 375 9 303 5 678 5 89.7	375 304 679 93.0	376 304 680 92.5	0.0 375 304 679	376	0.0	0.0							861	861	861	861			861	861	
Mgrants in ** Out-migration to Ove Male 266 Female 296 All 536 SMgR: main 75.5 SMgR: tom 75.5 SMgR: tom 75.5 Cherries 4:294 Cherries 4:294 Cherries 4:294 Cherries 4:419 C	verseas 6 375 9 303 5 678 5 89.7	375 304 679 93.0	376 304 680 92.5	375 304 679	376	•	•	• 0.0	• 0.0				0.0	0.0	0.0	0.0	0.0			0.0		
Male 286 Female 299 All 535 SMgR: fem 7.5 SMgRas in 7.5 Mgrans in 7.5 Mgrans in 7.5 Mgrans in 4.12 Coverseas 4.20 Summary of populat Natural of 4.607 Net highes 4.410 Net change 4.226 Coude Birth 1.226 Coude Birth 1.276 Crude Deel 6.51 Crude Net 2.78 Summary of P Population 2011	6 375 9 303 5 678 5 89.7	304 679 93.0	304 680 92.5	304 679		376				•	0.0	0.0	• 0.0	0.0	0.0	• 0.0	0.0	0.0	0.0	0.0	0.0	
Melie 266 Female 299 All 335 MgR: mal 70.5 Mgrants in 7.5 Mgrants in 4125 Voverseas 4294 Summary of populat Natural obs 4807 Not migrati obs 4807 Crude Birth 1226 Crude Birth 127 Crude Deci 6.51 Crude Net 2.78 Summary of P	6 375 9 303 5 678 5 89.7	304 679 93.0	304 680 92.5	304 679		376																_
All 535 SMgR: mal 70.5 SMgR: men 75.5 Mgrants in 75.5 Summary of populat Natural oh 407 Chude Del 1.226 Chude Burt 1.226 Chude Burt 1.276 Chude Del 6.51 Chude Net 2.78 Summary of P Population 2011	5 678 5 89.7	679 93.0	680 92.5	679	304		376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	
SMgR: mal 70.5	5 89.7	93.0	92.5		680	304 680	304 680	304	304 680	304 680	304 680	304 680	304 680	304 680	304 680	304 680	304 680			304 680	304 680	_
Migration - Net Flow UK - 1125 Ownsreas - 294 Summary of populat Natural oh - 4807 Net migrail - 4807 Net change - 11226 Crude Birth - 11,87 Crude Deal - 6,51 Crude Net - 2,78 Summary of P Population 2011	5 96.3	96.6	96.3	91.6	91.1	90.4	89.9		89.0	88.2	87.4		86.0	85.2	84.3	83.4	82.4			79.7	78.9	
Migration - Net Flow UK - 125 Overseas +224 Summary of population Net migrati - 4419 Net change +1,226 Crude Birth - 1,226 Crude Net - 2,267 Crude Net - 2,27 Crude Net - 2,27 Crude Net - 2,27 Population 2011				95.7	95.5	95.0	94.8	94.7	94.6	94.1	93.5	93.0	92.4	91.8	91.0	90.2	89.3	88.3	87.4	86.6	85.7	
UK +125 Overseas +294 Summary of populat Natural oh +867 Net riigasi +419 Net change +1,226 Crude Brin 11,87 Crude Net 2,78 Summary of P Population 2011			- +	•	-	•	•						•	•	•	•			•	•		
19		+669					+783														+1.335	
Natural cha		+185	+813	+708	+873 +195	+790 +201	+783		+1,139	+1,111	+1,076		+1,103 +182	+1,149 +182	+1,212	+1,217	+1,278			+1,352		
Natural cha +807 Nat migrati +419 Nat migrati +419 Nat change +1,226 Crude Birth 11.87 Crude Deal 6.51 Crude Net 2.78 Summary of P Population 2011	ation about																					
Net change		+733	+726	+731	+732	+720	+708	+691	+684	+675	+666	+667	+654	+641	+621	+609	+592	+580	+555	+536	+507	
Crude Birth 11.87 Crude Deal 6.51 Crude Net I 2.78 Summary of P Population 2011 2011		+855	+995	+930	+1,068	+991	+965		+1,320	+1,292	+1,258	+1,271	+1,284	+1,331	+1,394	+1,398	+1,460			+1,533	+1,517	
Summary of P Population 2011		+1,587 11.85	+1,721	+1,661	+1,800 11.60	+1,711 11.58	+1,673	+1,623	+2,004	+1,967 11.20	+1,924 11.14	+1,938	+1,938 11.07	+1,971 11.02	+2,015 10.91	+2,008 10.87	+2,052 10.83		+2,006	+2,069	+2,023	
Summary of P Population 2011		7.04	6.99	6.95	6.95	7.05	7.08		7.10		7.19		7.27	7.34	7.39	7.45	7.54			7.80	7.91	
Population 2011	8 -2.07	5.61	6.47	5.98	6.79	6.23	6.00	5.74	8.04	7.77	7.48	7.47	7.47	7.65	7.92	7.86	8.11	7.94	7.88	8.24	8.06	
2011	Populati	on esti	nates/fo	recas	ts																	
	n at mid-year							_	_	_	_						_					
		2013 9,393	9,243	9,232	2016 9,159	2017 9,204	2018 9,291	2019 9,329	2020 9,361	2021 9,403	2022 9,444	2023 9,480	2024 9,532	2025 9,600	2026 9,669	2027 9,731	2028 9,795	2029 9,856	2030 9,919	2031 9,976	2032 10,044	2033
5-10 10,945		11,407	11,726	11,952	12,138	12,236	12,248		12,056	12,074	12,037	12,089	12,186	12,236	12,298	12,364	12,429			12,659		12,824
11-15 9,179 16-17 3,818	9 9,096 8 3,836	9,048 3,799	9,087 3,779	9,132 3,727	9,388 3,598	9,524 3,620	9,716 3,730	9,994	10,331	10,476 3,902	10,675 4,022	10,742 4,093	10,653 4,273	10,570 4,433	10,576 4,390	10,537 4,379	10,573 4,383	10,667	10,728 4,286	10,784 4,329	10,842 4,347	10,901 4,374
18-59Fema 86,540		85,880	86,345	87,005	87,573	88,270	88,770		89,830	90,536	91,181	91,805	92,390	93,075	93,852	94,621	95,333	96,069		97,431	98,171	98,982
60/65 -74 18,245 75-84 8,243		19,499 8,672	19,967 8,936	20,362 9,190	20,959 9,203	21,270 9,464	21,436 9,934		21,752 10,861	22,036 11,328	21,866 12,239		22,357 13,371	22,720 13,784	23,202 14,254	23,761 14,554	24,318 14,695			26,059 15,035		26,942 14,867
85+ 3,449	9 3,649	3,734	3,936	4,141	4,384	4,613	4,789	4,969	5,218	5,458	5,717	5,981	6,279	6,563	6,710	7,018	7,445	7,873	8,338	8,783	9,577	10,153
Total 149,842	2 151,068	151,432	153,019	154,741	156,402	158,202	159,913	161,585	163,208	165,213	167,180	169,104	171,041	172,980	174,951	176,965	178,973	181,026	183,050	185,056	187,125	189,148
Dependency ratios, r	, mean age	and sex ra	tio																			
0-15 / 16-6! 0.31 65+ / 16-65 0.26		0.32	0.32	0.32 0.31	0.32 0.32	0.32	0.32			0.32	0.32		0.32 0.36	0.31 0.36	0.31 0.37	0.31	0.31			0.31	0.31	0.31 0.42
0-15 and 6! 0.57		0.29	0.62	0.63	0.32	0.32	0.33			0.34	0.35	0.35	0.36	0.36	0.37	0.38	0.38			0.41		0.42
Median ag∉ 39.2		40.2	40.4	40.6	40.8	40.9	41.0		41.2	41.3	41.4		41.6	41.7	41.8		41.9			42.3		42.5
Median age 41.0 Sex ratio m 98.8		41.7 97.4	41.9 97.6	42.2 97.8	42.4 97.9	42.6 98.0	42.8 98.1	43.0 98.3		43.2 98.5	43.3 98.6		43.6 98.8	43.8 98.9	44.0 99.0	44.1 99.0	44.3 99.1			44.6 99.4	44.7 99.4	44.8 99.5
Population impact of	of constrain																					
Number of persons	-188	-1,472	-206	-31	-120	+65	-2	-15	-1	+421	+437	+448	+516	+565	+653	+753	+791	+845	+848	+874	+974	+966
Labour Force																						
Number of 83,149		83,241	84,017	84,793	85,567	86,340	87,112			89,486	90,320		91,986	92,819	93,653	94,486	95,319			97,819		99,485
Change in Labour Forc Number of 83,443		-279 82,203	+777 83,030	+775 83,857	+774 84,684	+773 85,511	+772 86,338		+770 87,992	+833 88,819	+833 89,646		+833 91,300	+833 92,127	+833 92,954	+833 93,781	+833 94,608			+833 97,089		+833 98,743
Change in over previou		+1,436	+827	+827	+827	+827	+827				+827		+827	+827	+827	+827	+827			+827		+827
Households																						
Number of 60,394 Change in Households		00	62,503	63,410 +907	64,286 +876	65,218 +932	66,133 +915		67,816 +823	68,771 +955	69,966 +1,195	71,145 +1,179	72,345 +1,200	73,519 +1,174	74,705 +1,186	75,914 +1,209	77,140 +1,226			80,946 +1,291	82,304 +1,358	83,648 +1,344
Number of 62,301		61,623 +428	+880	.307	66,315	67,276	68,220			70,942	72,175		74,629	75,840	77,064	78,310	79,575			83,501	+1,358 84,902	86,288

Appendix 3 Market Signals Comparator Data

	Land Prices	House	e Prices	Re	ents	Affordabi	lity Ratio	Overcro	wding
Rank	£ per ha Bulk Residential Land 2010	Median (2013)	Change % (1996-2013)	Median Monthly Rent Q1 2014	Change % (Q2 2011-Q1 2014)	Ratio 2013	Change (1998-2012)	% of Housing Over- Occupied	Change 2001-2011 (% points)
Cambridge	£5,120,000	£308,000	231%	£850	6.9%	10.3	101%	14.1%	16.6%
England	£1,770,000	£187,000	182%	£570	4.4%	6.5	81%	8.7%	22.7%
Oxford	£5,000,000	£287,750	188%	£950	4.7%	10.2	70%	13.9%	17.9%
Chelmsford	£3,700,000	£229,498	206%	£725	0%	8.7	114%	5.8%	33.5%
Basingstoke	£1,772,000	£225,000	156%	£775	3.3%	7.7	71%	5.5%	27.7%
Reading	~	£201,950	169%	£825	10.0%	7.6	85%	13.6%	24.3%
Crawley	~	£201,500	158%	£850	13.3%	7.3	73%	9.8%	29.5%
Ashford	~	£195,000	162%	£695	6.9%	8.1	86%	5.2%	13.6%
Southend	~	£186,000	221%	£650	4.8%	7.2	116%	9.6%	25.4%
Milton Keynes	~	£185,000	194%	£738	9.3%	6.7	94%	9.6%	25.4%
Harlow	~	£177,500	155%	£725	3.6%	7.5	93%	10.0%	21.3%
Stevenage	£1,800,000	£172,000	165%	£725	7.4%	7.2	89%	7.9%	24.4%
Norwich	£2,535,000	£147,000	220%	£595	8.2%	6.3	113%	7.6%	18.2%
Ipswich	£1,800,000	£137,000	180%	£475	5.6%	5.8	76%	8.6%	37.7%
Peterborough	£1,400,000	£135,000	181%	£550	4.8%	5.6	101%	8.4%	50.0%
Source:	VOA Property Market Report (Note some areas not covered)	CLG Live	e Table 586	VOA Private Mar	ket Rental Statistics	CLG live ⁻	Table 576	Census 20	01/2011







Climate Change & Sustainability

Community Engagement

Daylight & Sunlight

Economics & Regeneration

Environmental Assessment

Expert Evidence

Heritage

Property Economics

Q Site Finding & Land Assembly

■ Strategy & Appraisal

Urban Design

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