East of England Local Government Association

East of England Forecasting Model

EEFM 2017 Baseline Forecasts

For reference only Please do not remove

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D6.1



clarity from complexity

Overview

- Model overview
- EEFM 2017 and recent developments
- Using EEFM
- Limits / limitations
- Outlook for the UK
- Outlook for the Regions
- Outlook for the LEPs and Local Authorities



Model overview

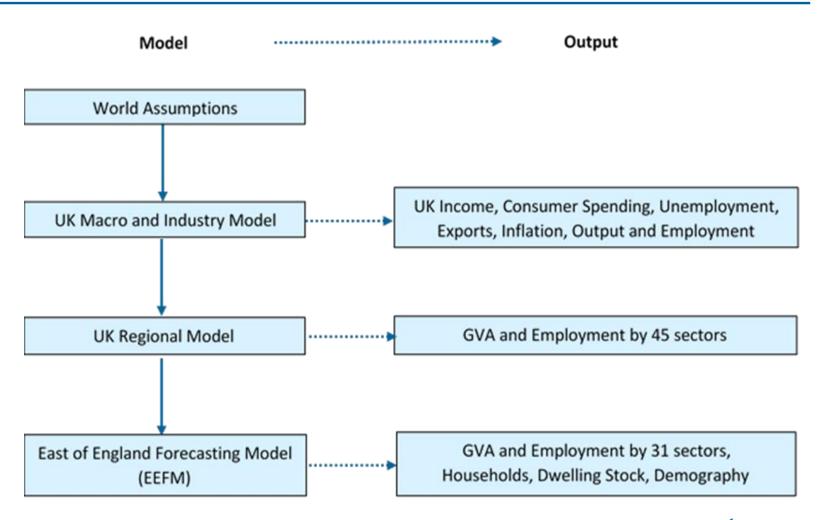


Structure of the EEFM

- Spreadsheet-based model
- A full database for:
 - 151 variables
 - Economics (workplace & residence employment, unemployment, GVA)
 - Demography (population, working-age population, migration)
 - Housing (households, dwellings)
 - Carbon emissions
 - 3 regions (East of England, East Midlands and South East),
 79 local authorities and 5 LEPs
 - 31 sectors (for GVA and employment)
- Projections from 2001 to 2045

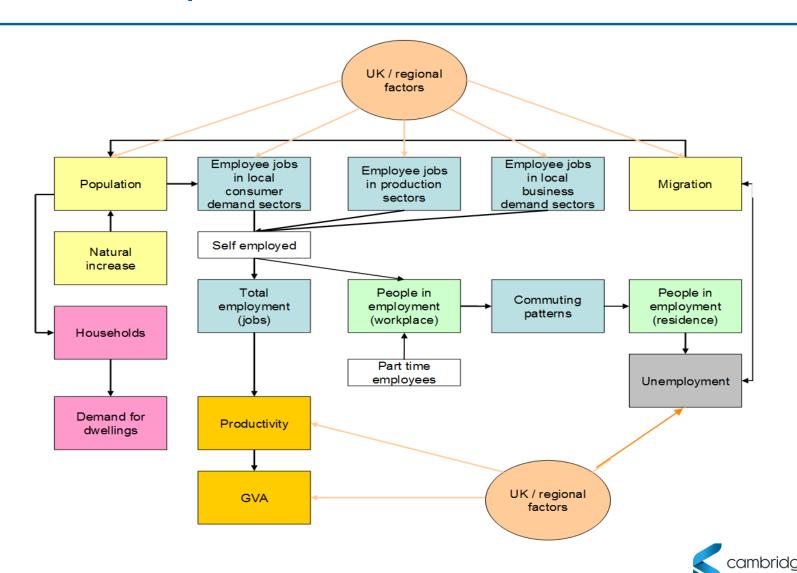


Links with other CE models



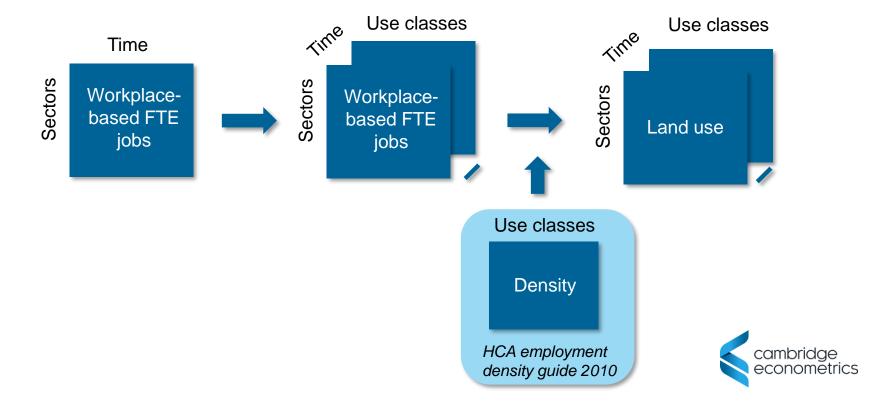


Relationships in the EEFM



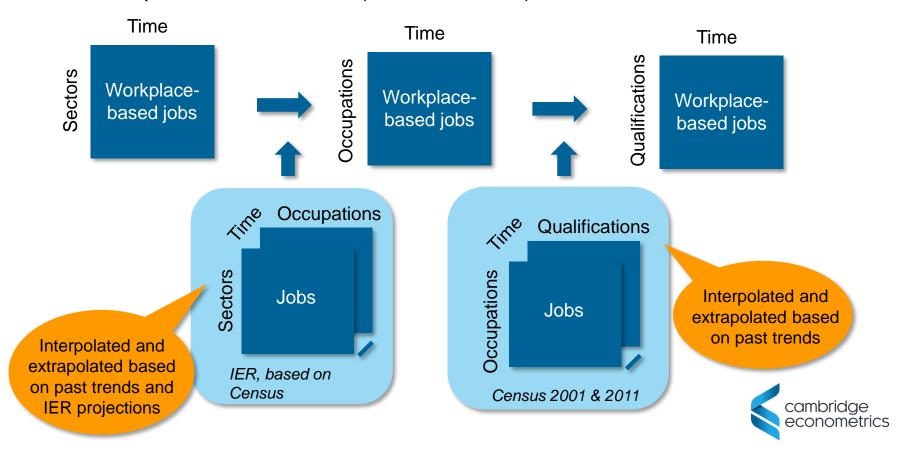
Employment land use module

- Land use forecasts by sector:
 - Industrial floorspace (B1c/B2)
 - Warehouse floorspace (B8)
 - Office floorspace (B1a/b)



Skills and qualifications module

- Job forecasts by:
 - 25 occupations (SOC2010)
 - 6 qualification levels (Census 2011)



EEFM 2017 and recent developments



EEFM 2017 update

- EEFM 2017 is one in a series of regular updates to the EEFM
- The name of the update reflects when the underlying assumptions were developed
- Known investments and policy changes are incorporated in the baseline forecasts to the extent that they are reflected in the currently available data (up to 2015)
- Changes to the data and assumptions may lead to differences from the previous update (EEFM 2016)



Changes since EEFM 2016

- Post-referendum UK and regional forecasts dated August 2017
- Additional data for 2015 (and revised historical data)
- New (2014-based) ONS sub-national population projections and household projections
- Re-estimated unemployment and migration coefficients based on more recent (1992-2015) data
- Introduction of skills & qualifications module



Using EEFM



Local Authority uses for EEFM

- Baseline forecasts for analysis and research key sectors, land use, skills forecasting
- Strategic documents strategic economic plans, local plans, housing market assessments, planning policy, skills strategies
- Database detailed sectoral data for several variables by local authority

All of these inform:

- Growth prospects
- Promotion of sectors
- Location and amount of land
- Skills requirements



Limits / limitations



Things to remember when using the model

- Data source issues with raw data, local knowledge is helpful
- EEFM is based on observed past trends only
- LA forecasts are constrained to the region
- The forecasts are policy-neutral and unconstrained
- Reality is more complex than any model
- Forecasting models will not all agree



Outlook for the UK

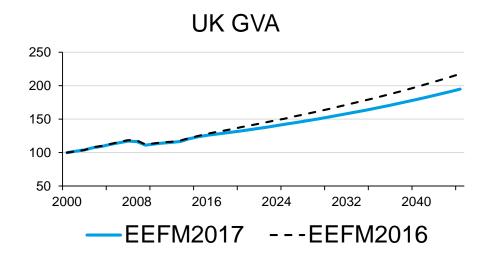


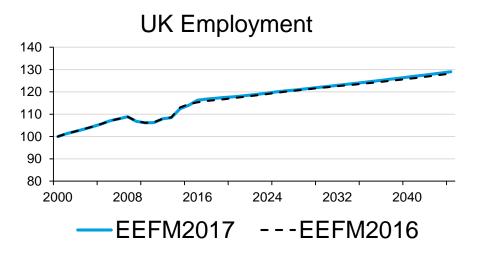
Potential impacts of Brexit

- No "cliff-edge" moment as the UK obtains a transitional deal with the EU
- The UK agrees a bespoke deal with the EU
- The UK secures an ability to reduce EU migration
- The UK can remain in the single market for goods but not services (no financial services passporting)
- Continued payments for access to the EU from the UK (negligible in macroeconomic terms)



Long-term UK growth, 2020-45

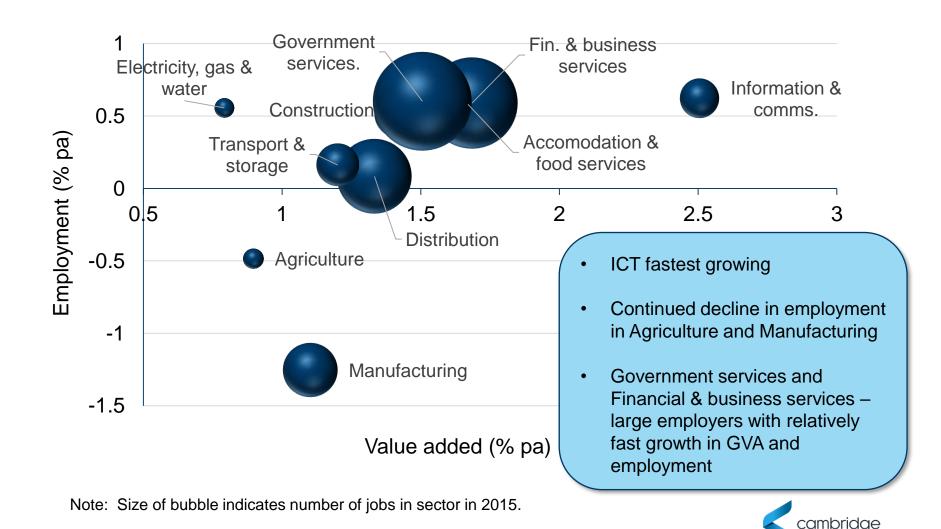




- Long-term GVA growth expected to slow because of lower productivity (resulting from skill shortages and lost investments)
- Employment at the aggregate level maintained on a similar trajectory as before the referendum
- Unemployment to stabilise at pre-recession levels



UK sectoral prospects, 2020-45



Outlook for the regions



Long-term regional economic growth

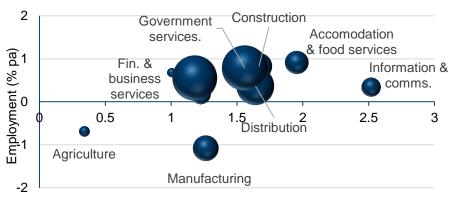
	Growth (% pa, 2020-45)								
	South East	East of England	East Midlands	UK					
EEFM 2017									
Value-added	1.5	1.6	1.4	1.6					
Population	0.6	0.7	0.5	0.5					
Working age population	0.3	0.4	0.2	0.2					
Employment	0.3	0.5	0.3	0.4					
Value-added per capita	0.9	0.9	0.9	1.1					
Value-added per job	1.2	1.1	1.1	1.2					
EEFM 2016									
Value-added	1.8	1.8	1.8	1.8					
Population	0.6	0.7	0.5	0.5					
Working age population	0.3	0.4	0.1	0.1					
Employment	0.4	0.5	0.3	0.4					
Value-added per capita	1.2	1.1	1.3	1.3					
Value-added per job	1.5	1.3	1.5	1.5					

- Similar expected employment growth as in EEFM 2016.
- Slower expected GVA growth than EEFM 2016.



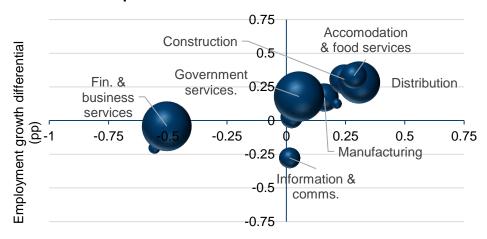
Sectoral prospects for the East of England

Sectoral outlook, 2020-45



Value added (% pa)

Relative performance with UK, 2020-45



GVA growth differential (pp)

Note: Size of bubble indicates number of jobs in sector in 2015.

- GVA expected to grow the fastest in ICT, Construction and consumer services
- Employment expected to grow at a relatively similar rate across services sectors, while declining in Agriculture and Manufacturing
- The East of England expected to outperform the UK as a whole in the majority of sectors, but lag behind slightly in Financial & business services and ICT
- The decline in Manufacturing employment in East of England is not as extreme as in the UK as a whole



Outlook for the LEPs and Local Authorities



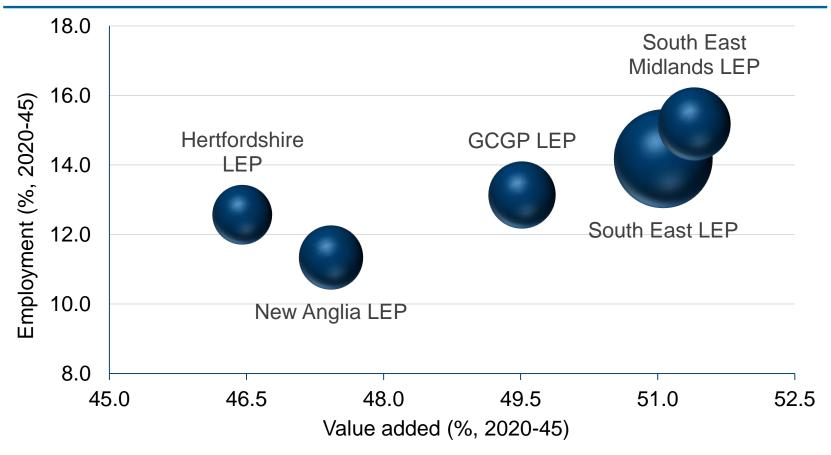
Long-term growth, LEPs

	Growth (% pa, 2020-45)								
	East of England	GCGP LEP	Herts LEP	New Anglia LEP	South East LEP	South East Midlands LEP			
EEFM 2017									
GVA	1.6	1.6	1.5	1.6	1.7	1.7			
Population	0.7	0.7	0.6	0.6	0.7	0.9			
Working age population	0.4	0.4	0.3	0.3	0.4	0.5			
Employment	0.5	0.5	0.5	0.4	0.5	0.6			
GVA per capita	0.9	0.9	0.9	1.0	0.9	0.8			
GVA per job	1.1	1.1	1.1	1.1	1.1	1.1			
EEFM 2016									
GVA	1.8	1.9	1.7	1.9	2.0	2.1			
Population	0.7	0.8	0.7	0.6	0.7	0.9			
Working age population	0.4	0.5	0.4	0.3	0.4	0.5			
Employment	0.5	0.5	0.5	0.5	0.5	0.7			
GVA per capita	1.1	1.1	1.0	1.2	1.3	1.2			
GVA per job	1.3	1.4	1.2	1.4	1.5	1.4			

 General slowdown in GVA (and so productivity) in region and LEPs compared to previous forecast.



GVA and employment growth, LEPs

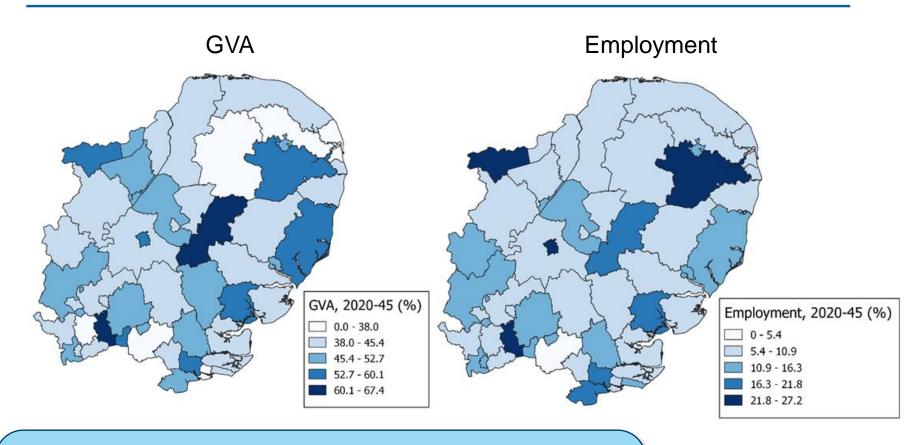


Note(s): Size of bubble indicates number of jobs in LEP in 2015.

 GCGP, South East Midlands and South East LEPs are strongest performing LEPs with strong growth in both employment and GVA.



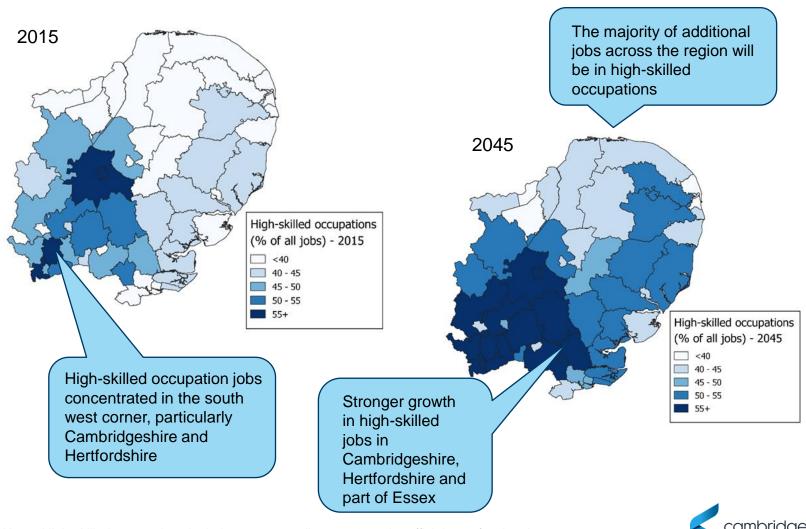
GVA and employment growth, LADs



- Both GVA and employment are expected to grow in all areas
- GVA growth strongest in St Edmundsbury, Welwyn Hatfield, Colchester, Peterborough, Cambridge and Basildon.
- Employment growth strongest in Cambridge, Welwyn Hatfield, Peterborough, South Norfolk and Colchester.
- Variations in GVA and employment growth reflect productivity differences

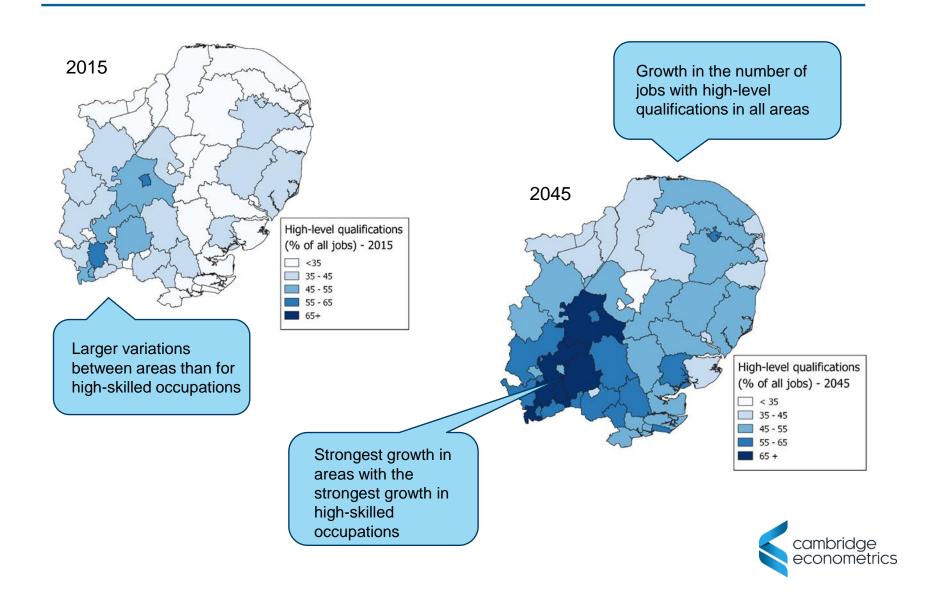


High-skilled occupations, LADs

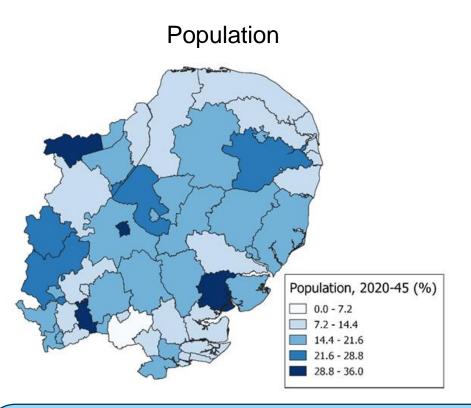


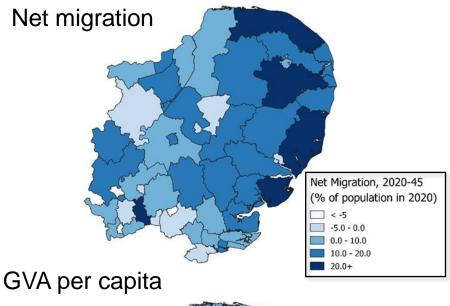
Note: High-skilled occupations include managers, directors & senior officials, professional occupations, and associate professional & technical occupations (SOC2010).

Level 4 qualifications and above, LADs

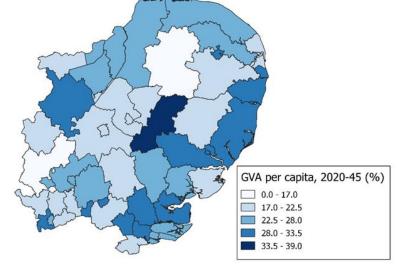


Demographics, LADs

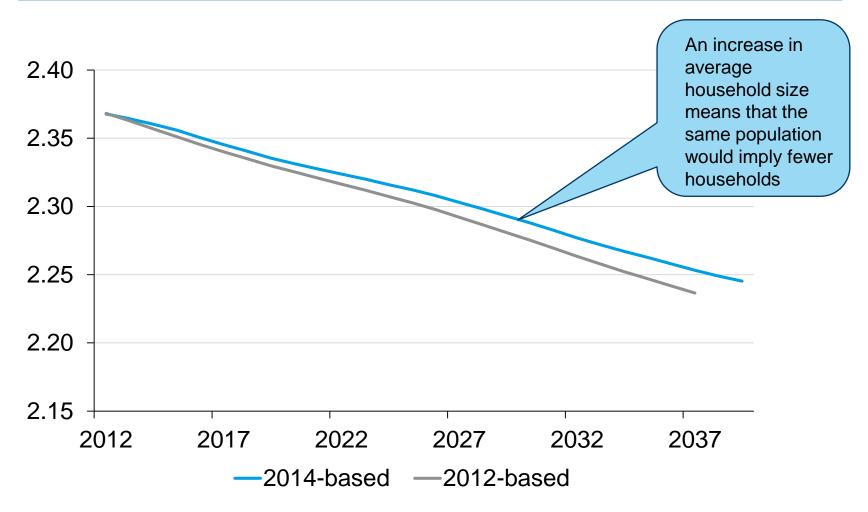




- Population growth expected to be strongest in Welwyn Hatfield, Peterborough, Cambridge, Mid Bedfordshire and Colchester.
- Only a few areas expected to have net out-migration over 2015-45
- The largest positive net migration is expected on the east coast



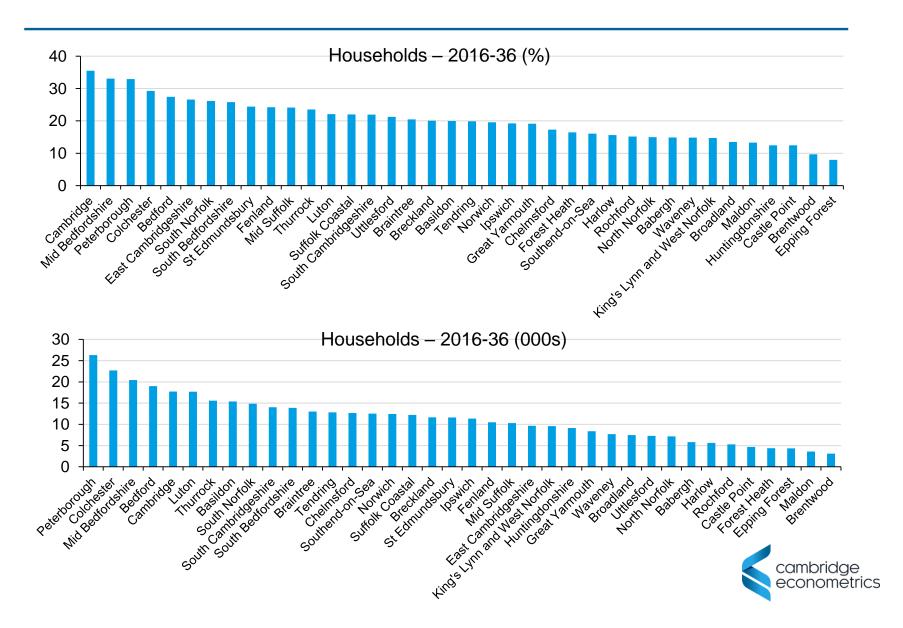
Average household size – East of England



 Projected increase in households at the regional level is expected to be less than in EEFM 2016.



Households



East of England Forecasting Model

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