

Planning for Change

Demographic solutions for the localism agenda

Robust local planning

The ability to support local planning and policy formulation with sound and robust demographic analysis is an imperative for local authorities. Regional planning has been replaced with a localism agenda which requires a fresh approach to the development of local communities and the services that are provided to them.

POPGROUP provides a suite of products for demographic analysis, forecasting & practical planning. It uses MS Excel desktop technology to manage its data inputs and outputs and provides great flexibility to enable users to experiment and analyse alternative forecasts of demographic change in local communities.

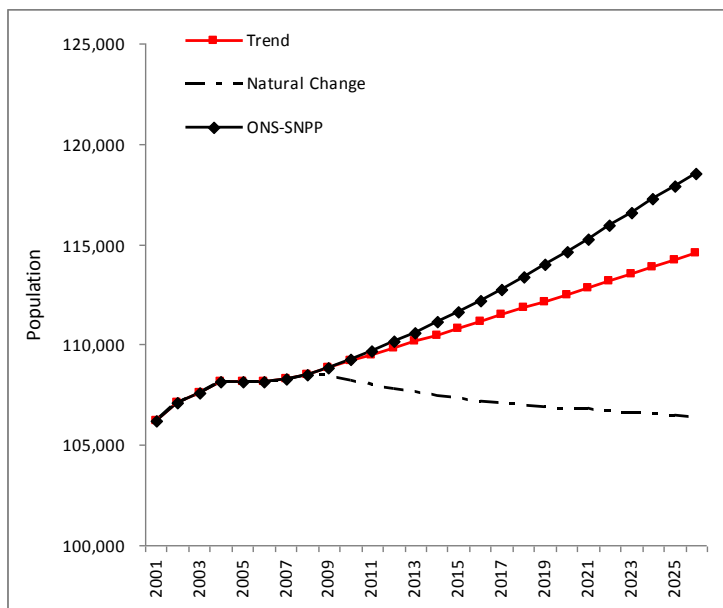
POPGROUP's population forecasting model estimates future population change based on fertility, mortality & migration assumptions, using historical data to define these assumptions; integrating official forecasts as appropriate. Population forecasts can be used to derive likely household and housing profiles consistent with the population's age-sex composition. Likewise the changing size and shape of the labour force.

Alternatively, policy-constrained scenarios may be evaluated, linking the future size and profile of a local population to the provision of new dwellings and/or projected economic growth. At all times, alternative scenarios may be benchmarked against 'official' population and household statistics produced by the Office for National Statistics (ONS).

Scrutiny - POPGROUP provides a wide range of features to enable further analysis and reporting. Its robustness and transparency are ideally suited to the rigorous nature of public scrutiny that accompanies the production of local development plans.

Growth Scenarios

Historical data on population, births, deaths and migration flows provides the basis for the development of alternative population forecasts. POPGROUP provides national fertility, mortality and migration schedules against which local profiles can be calibrated. For scenario development, users may choose a time horizon up to 50 years and may select a variety of demographic assumptions and constraints to which scenarios are linked. Rapid run-time and flexible reporting functionality provides instant comparisons of a variety of official projections, trend-based scenarios or policy-constrained forecasts.



POPGROUP product suite

POPGROUP is a family of demographic models to enable population, household and labour force forecasts to be developed for areas and social groups.

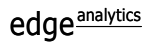
POPGROUP incorporates a cohort component methodology for its population projection model, a headship rate model for its household projection model and an economic activity rate model for its labour-force projection model. The household and labour force projections have been delivered using the Derived Forecast model, the latest module in the POPGROUP suite.

POPGROUP is used by a large number of local and regional organisations in the UK and has been subject to extensive enhancement and development over the last ten years.

The POPGROUP model suite is owned by the Local Government Association.



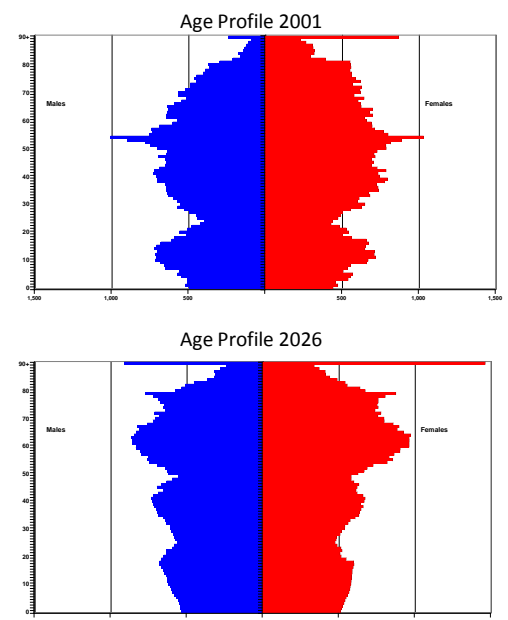
Development and technical support is provided by Edge Analytics Ltd, Leeds Innovation Centre, LS2 9DF



www.edgeanalytics.co.uk

Population Ageing

Demographic ageing is a feature that is common to populations across the UK as continued improvements in life expectancy are coupled with the surge of the baby boomer cohorts into the post-retirement age-groups. POPGROUP models the distinctive changes taking place in local age profiles and evaluates the impact on households, the labour force and general service provision.



From Population to Households or Labour Force

The Derived Forecast model uses household headship rates to estimate the rate and profile of household formation given the evolving age-sex composition of a population, taking account of the population living in communal establishments.

Likewise, economic activity rates can be substituted to estimate the impact of demographic change upon the size of the resident labour force.

CLG's latest household projections identify 17 separate household types, which can be flexibly aggregated to user-defined categories for reporting purposes.

Local Authority District

Category type	2008	2011	2016	2021	2026
One person households: Male	7,309	7,930	8,939	9,996	11,167
One person households: Female	10,109	10,387	10,910	11,482	12,246
One family and no others: Couple: No dependent children	15,781	16,544	17,710	18,558	19,208
One family and no others: Couple: 1 dependent child	2,343	2,307	2,294	2,281	2,184
One family and no others: Couple: 2 dependent children	2,815	2,629	2,418	2,284	2,114
One family and no others: Couple: 3+ dependent children	1,492	1,470	1,465	1,572	1,698
One family and no others: Lone parent: 1 dependent child	1,584	1,682	1,869	2,079	2,229
One family and no others: Lone parent: 2 dependent children	942	966	1,027	1,115	1,174
One family and no others: Lone parent: 3+ dependent children	418	451	521	602	656
A couple and one or more other adults: No dependent children	2,487	2,262	1,913	1,597	1,336
A couple and one or more other adults: 1 dependent child	614	535	440	386	332
A couple and one or more other adults: 2 dependent children	257	228	194	165	134
A couple and one or more other adults: 3+ dependent children	139	132	127	124	118
A lone parent and one or more other adults: 1 dependent child	229	207	185	177	175
A lone parent and one or more other adults: 2 dependent children	89	90	92	95	94
A lone parent and one or more other adults: 3+ dependent children	57	60	65	75	83
Other households	2,004	1,933	1,848	1,789	1,825
Total	48,669	49,814	52,019	54,376	56,774
Private Household Population	105,666	106,828	109,244	112,167	115,186
Population / Households	2.17	2.14	2.10	2.06	2.03

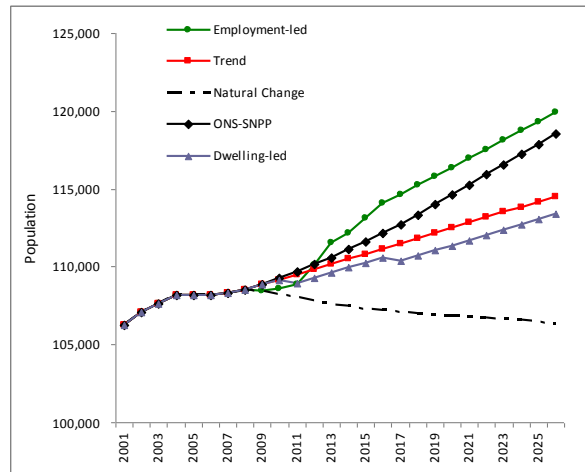
Housing development and economic growth

Planners may wish to evaluate the impact of specific 'policy' constraints upon housing growth or may wish to assess the demographic impact of independent economic forecasts.

POPGROUP enables a direct comparison between 'trend' forecasts (projections) and these alternative 'policy' forecasts.

Applying constraints on housing numbers or new jobs created controls the extent of population growth, year on year. This may provide a more 'realistic' appraisal of likely growth versus that evident from the purely trend-based scenarios.

Alternative population scenarios that are policy constrained may again be converted to household and labour force totals for further comparison and impact analysis.



Registered POPGROUP users

Aberdeen City	Cornwall	Herefordshire	North Ayrshire	Salford City	The Vale of Glamorgan
Aberdeenshire	Cumbria	Highland	North Yorkshire	Leeds University	Torfaen
Argyll & Bute	Denbighshire	Kent	Northamptonshire	Sheffield	U.S. Census Bureau
Birmingham City	Derbyshire	Leeds City	Northern Ireland Statistics & Research Agency	Shropshire	University of Manchester
Blackburn with Darwen	Dorset	Leicestershire	Northumberland	South Lanarkshire	University of Strathclyde
Blaenau Gwent	Dudley	Luton	One North East	Southern California Association of Governments	University of West of England
Bournemouth	East Sussex	Marja-aho Arkkitehdit Oy	Oxfordshire	South West Observatory	Warwickshire
Bradford	Fife	Merseyside Information Service	Pembrokeshire	Staffordshire	West Northamptonshire JPU
Brighton & Hove	Flintshire	Midlothian	Pima Association of Governments	Stirling	West Sussex
Buckinghamshire	General Register Office for Scotland	Milton Keynes	Poole	Stoke on Trent	Wiltshire
Caerphilly	Glasgow & Clyde Valley	Monmouthshire	Powys	Swindon	Worcestershire
Cardiff	Glasgow City	Nathaniel Lichfield & Partners	Renfrewshire	Tameside	Wrexham
Carmarthen	Gloucestershire	National University of Singapore	Rochdale	Teeside Valley JSU	Yorkshire & Humber Public Health Observatory
Ceredigion	Greater London Authority	Neath Port Talbot	Royal Borough of Windsor & Maidenhead	Telford & Wrekin	
Cheshire West & Chester	Gwynedd			The National Assembly for Wales	
City of Edinburgh	Hampshire				
Conwy					

For more information

For enquiries regarding the application, development and technical support of the POPGROUP suite of products, please contact:

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edge analytics

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