Demographic and Housing Projections

Member Seminar

Cheltenham Borough Council

September 14<sup>th</sup> 2011

DRD Research & Consultancy Ltd.

1: How population and housing projections are done
2: the Structure Plan approach to calculating housing requirements
3: Housing requirements for the Regional Spatial Strategy
4: Current trends in population and housing

DRD Research & Consultancy Ltd.

How population and housing projections are done

OR

How do we know how many people there will be around here in 20 years time?

2 key elements are

'natural' change migration

DRD Research & Consultancy Ltd.

Natural Change

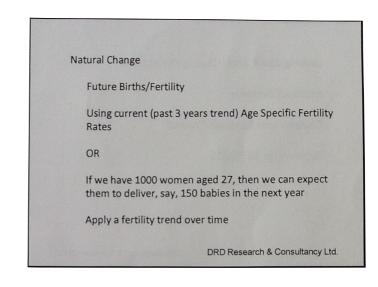
Starting with a good estimate of the current population

How many people do we expect to be born over the next 20 years?

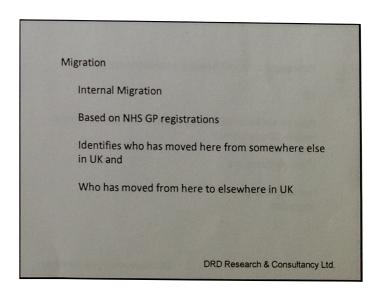
How many people do we expect to die over the next 20 years?

DRD Research & Consultancy Ltd.

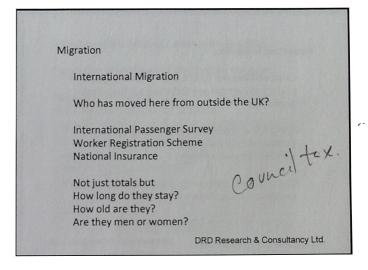
## Future Deaths/Mortality Using current (past 5 years trend) Age and Gender Specific Mortality Rates to run a Cohort Survival Model OR At current rates, how many of today's 76 year-olds will 'survive' to be 77 Apply a mortality trend over time DRD Research & Consultancy Ltd.



1	Migration
	How many people do we expect to move out of the area?
	And how many do we expect to move in?
	Apply current (past 5 years) trends in 'internal' and 'international' migration
	DRD Research & Consultancy Ltr



## Internal Migration more than 100,000 Gloucestershire residents moved address within Gloucestershire between September 2006 and January 2010 40% of these moves were very local i.e. within one mile 70% of these moves were local, within 3 miles A quarter of moves between districts were within 3 miles 66,000 people moved to Gloucestershire between September 2006 and January 2010 DRD Research & Consultancy Ltd.



Migration
International Migration
Who has moved abroad from our area?
ONS modelling of International Passenger Survey
Assumptions about length of stay of migrant workers
The least robust element of population projection

DRD Research & Consultancy Ltd.

Population Projection

Applying the current mortality, fertility and migration trends to this year's population gives us a projection of next year's population

Applying the trends to next year's population gives us the population for the year after

And so on

DRD Research & Consultancy Ltd.

Once we have our future, year-on-year population projections we can use them to do a 'household projection'

Using age and gender specific 'headship' rates (modelled from Census) to 'convert' population numbers into households

Basically, how many of the people in our population projection will be 'heads of households'...

DRD Research & Consultancy Ltd.

Structure Plan approach to calculating housing requirements

Forecasting future housing requirement is a two stage process. The first part involves estimating the increase in numbers of households in the County. The second involves additional elements to produce an overall housing total.

Concealed households

Second homes

Vacancy rate

2.87.

DRD Research & Consultancy Ltd.

Regional Spatial Strategy (RSS) Housing requirements

The figure in the original draft RSS, of 23,060 new dwelling per annum (2006-2026), was based on a synthesis of

Trend-based population/household projection

Economic Growth forecasts (projection constrained to jobs)

Capacity assessment

DRD Research & Consultancy Ltd.

Regional Spatial Strategy (RSS) Housing requirements

The Secretary of State proposed that the RSS annual housing requirement be increased by 28.5%, from 23,060 to 29,623 because

Original Draft RSS economic growth assumption regarded as too conservative at 2.8% - SW should be planning for 3.2% growth per annum

Office for National Statistics revised their household formation rates, significantly increasing the numbers of future households expected

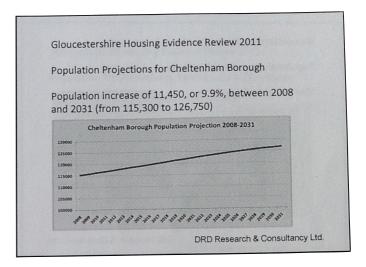
DRD Research & Consultancy Ltd.

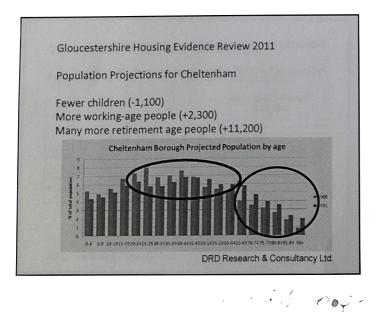
Gloucestershire Housing Evidence Review 2011

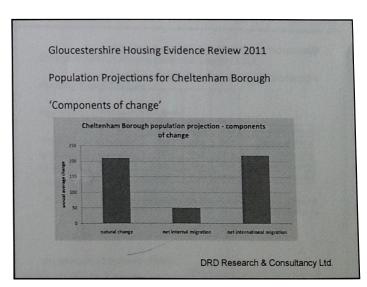
Population and Household Projections

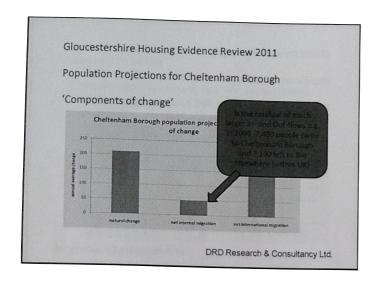
Housing Trend Analysis

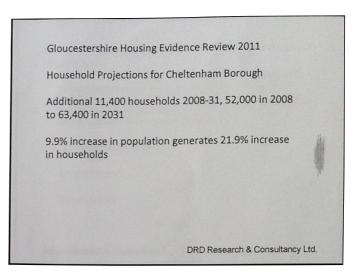
DRD Research & Consultancy Ltd.

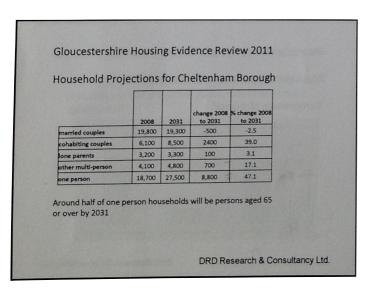


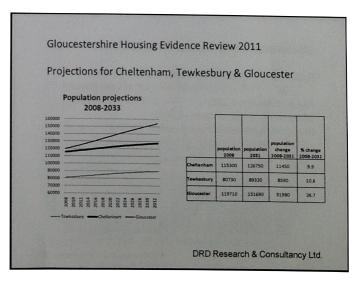


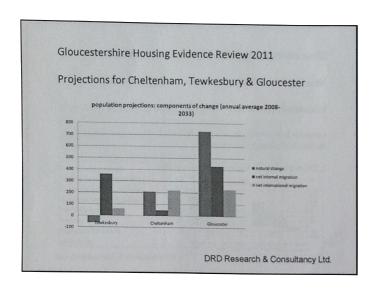


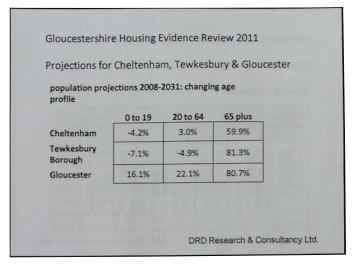


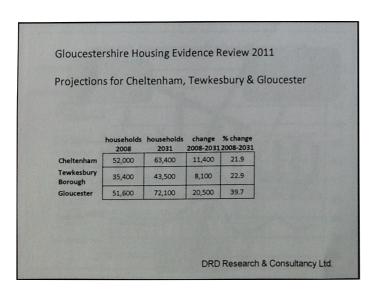


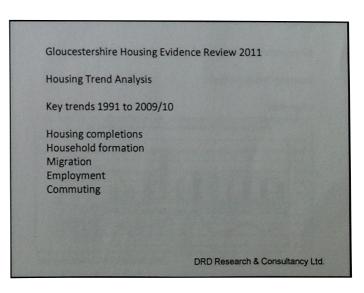


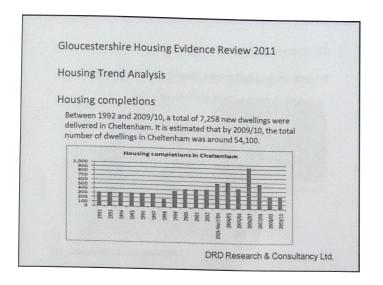


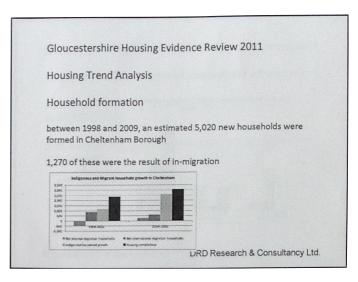


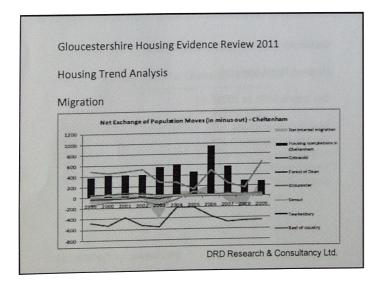


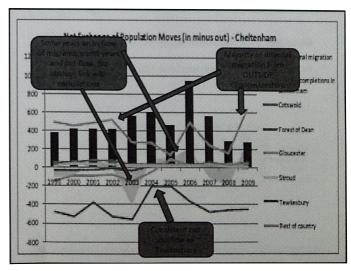












Gloucestershire Housing Evidence Review 2011 Housing Trend Analysis

Migration to new developments

	THE PERSON NAMED IN		Contraction of the Contraction o	Acres
Figure 2.1.8: Distance moved to selected new developments in Cheltenham	GCHQ Oakley		Persimmon Gardens	
	n	*	1	5
'in-county' moves under a mile	91	17.4	45	22.5
'in-county' moves between 1 & 3 miles	156	29.8	49	24.5
'in-county' moves between 3 & 10 miles	65	12.4	24	12.0
'in-county' moves more than 10 miles	22	4.2	19	9.5
total 'in County' movers	334	63.9	137	68.5
no move	0	0	0	0.0
migrants from Out of County	189	36.1	63	315
total moving to	523		200	

DRD Research & Consultancy Ltd.

Gloucestershire Housing Evidence Review 2011 Housing Trend Analysis Migration to new developments Figure 2.1.9: District of origin of movers to GCHQ Oakley selected new developments in Cheltenham n 'in county' movers from Cheltenham 47.0 47.0 10 1.9 4.0 'in county' movers from Cotswold 'in county' movers from Forest of Dean 0.8 30 'in county' movers from Gloucester 19 3.6 4.5 2.5 'in county' movers from Stroud 1.3 48 9.2 15 7.5 'in county' movers from Tewkesbury 'Out of County' movers DRD Research & Consultancy Ltd.

Gloucestershire Housing Evidence Review 2011

Housing Trend Analysis

Employment

Number of jobs in Cheltenham Borough fell by 7,600 between 1991 (69,300 jobs) and 2009 (61,700 jobs)

Dwelling and jobs numbers show contrary trends

