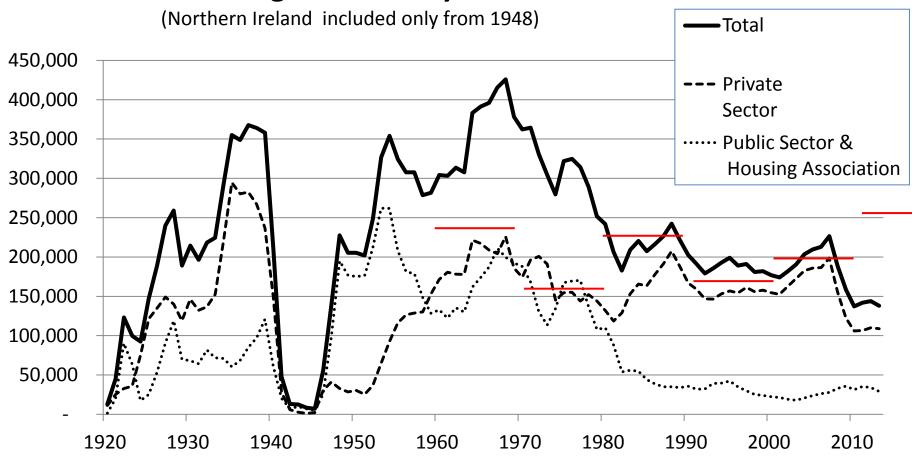
# Explaining changes in household size

Ludi Simpson (University of Manchester), and Ann Berrington (University of Southampton)

#### New house building in UK each year 1920 to 2013



Annual average growth in number of households (source: DCLG Live Table 401)

Sources: From 1946: DCLG live tables. Earlier: Scottish Housing,

and AE Holmans 2005

### **Aims**

Quantify the contributions of each driver of housing demand

 $\Sigma_{a,s,r}$  (household population x headship rate)

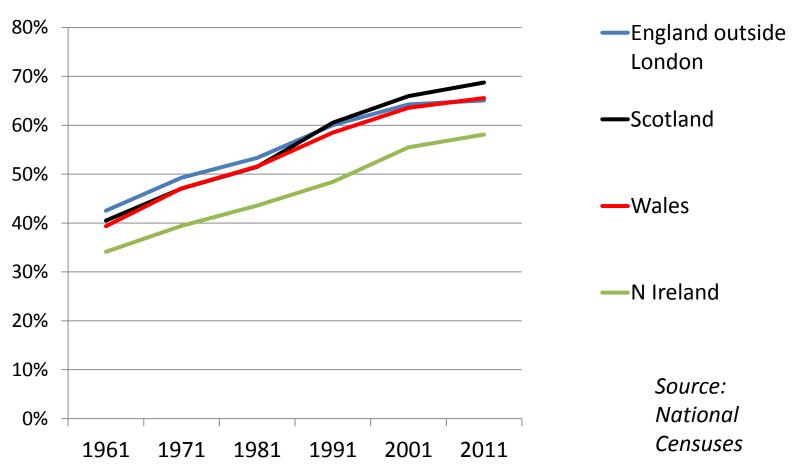
- Household population change
  - Population growth
  - Age and sex composition
  - Partnership ('relationship') status
- Household headship rates among adults
  - Young 15-34; middle 35-59; older 60+
- Implications for household projections

### **Cautions**

- Policy is mostly focused on changed behaviour
  - Household representative rates
  - Changes in relationship status
- Projected households indicate effective demand
  - Additionally there is suppressed demand: concealed families, delayed partnerships
- Full government analysis of 2011 census awaited
  - Analysis using 2012-based projections is provisional

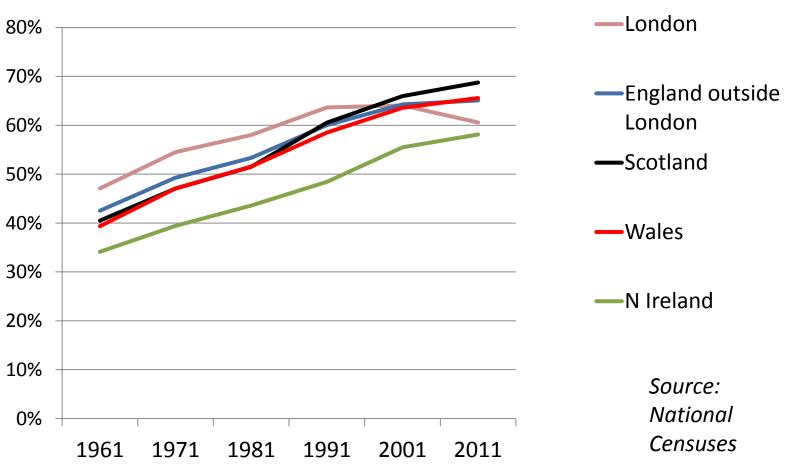
#### 1- and 2-person households 1961-2011

% of all households



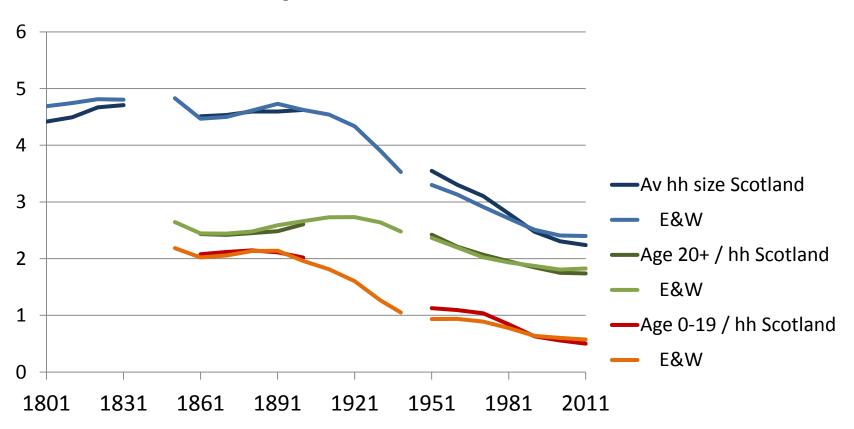
### 1- and 2-person households 1961-2011

% of all households



## Average household size and adults per household, 1801-2011

England & Wales, Scotland



Source A.E. Holmans 2005, updated with 2011 Census

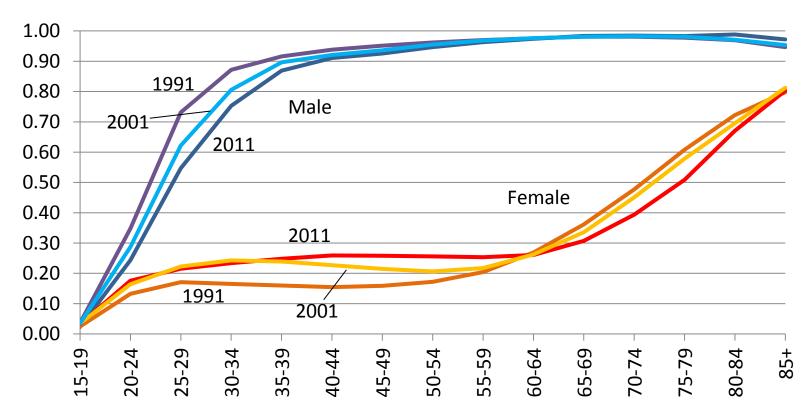
# Four household projection frameworks in the UK, 2011 or 2012-based

	Population sub-groups	Household types	Rate	Past data to estimate trend of rates
England	90 age-sex- relationship status	17, including 0/1/2+ children	Household representative	5-point 1971-2011 logistic and dampened logistic models averaged (Stage 1)
Wales	32 age-sex	12, HH size included to 5+	Household membership / Household size	2-point exponential model 2001-2011
Scotland	16 age	7, HH size included to 3+	Household representative	Average of two 2-point exponential models, 2001-11 and 1991-01
N Ireland	28 age-sex	18, HH size included to 7+	Household membership / Household size	2-point exponential model 2001-2011

Sources: DCLG, WG, NRS, NISRA methodology documents

## England Household Representative Rates 1991, 2001 and 2011, Stage 1 projections

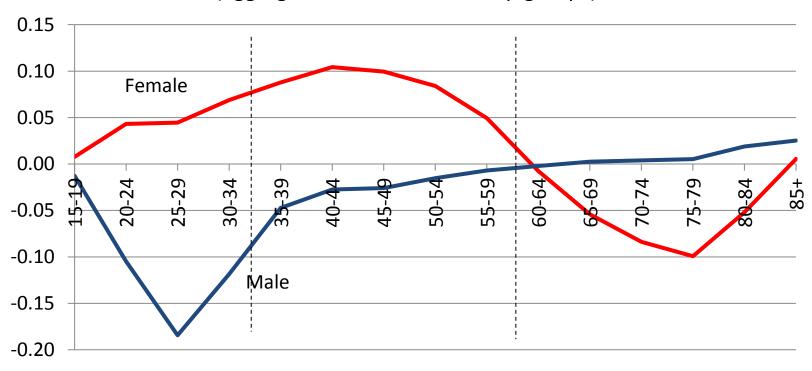
(aggregated across relationship groups)



Source: DCLG <u>2012-based household projections: detailed data for modelling and analytical purposes</u>

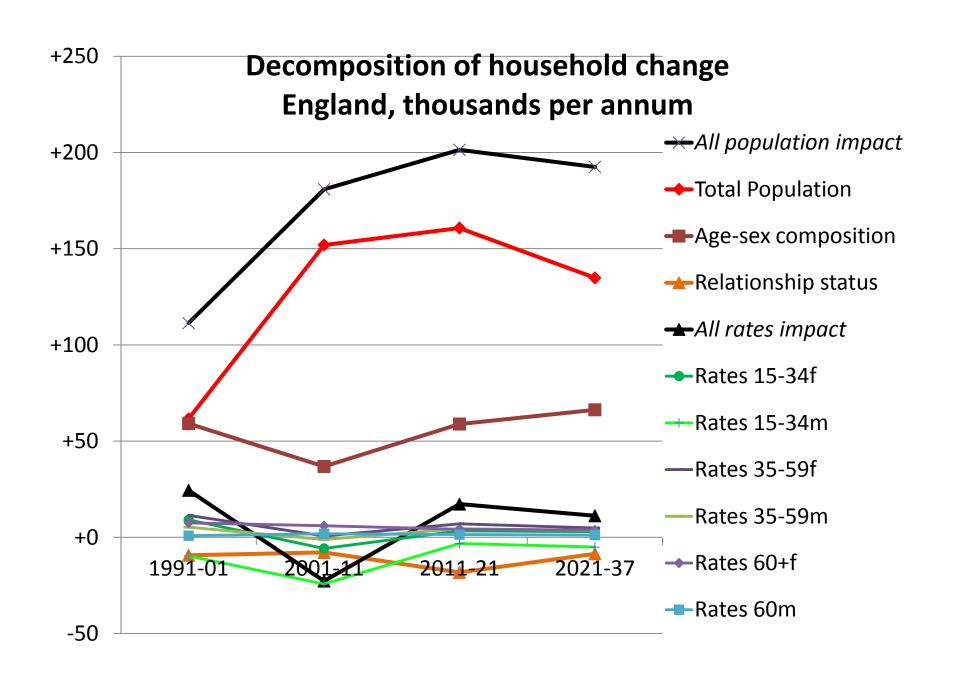
## England Household Representative Rates: change 1991 to 2011

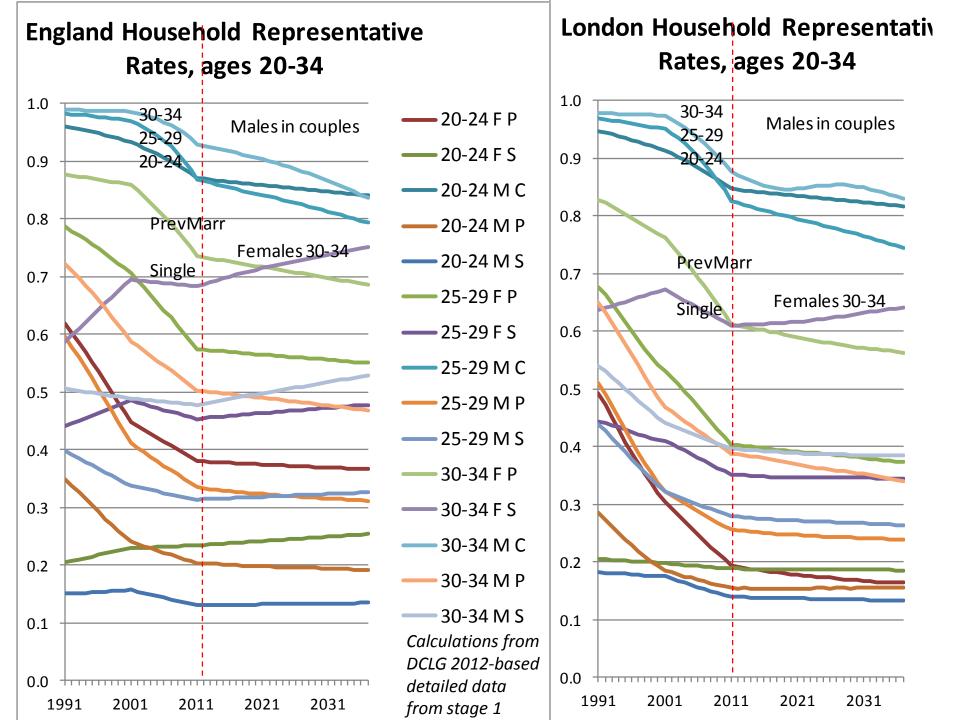
(aggregated across relationship groups)



### Decomposition of household change

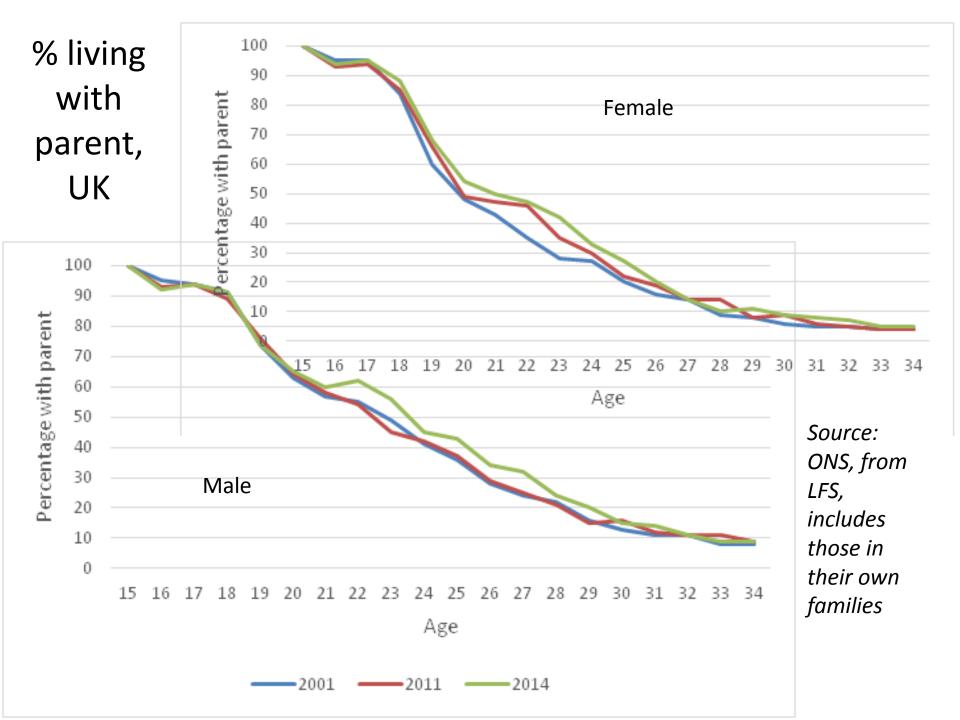
Thousands	1991-2001		2001-2011		
	In	cremental	In	cremental	Av hh
	Households	change	Households	change	size
Start households	19,166		20,523		2.37
Start rates with total pop End	19,781	+615	22,042	+1,519	2.37
with age sex End	20,372	+591	22,410	+368	2.33
with relationship status End	20,278	-94	22,331	-79	2.34
Household change due to population c	hange	+1,113		+1,808	
End population and End rates 15-34f	20,369	+91	22,273	-58	2.34
15-34m	20,272	-97	22,030	-243	2.37
35-59f	20,386	+114	22,037	+7	2.37
35-59m	20,439	+52	22,026	-11	2.37
60+f	20,514	+75	22,086	+60	2.36
60+m	20,523	+8	22,104	+18	2.36
H'hold change due to representative ro	ates change	+244		-227	
Households at End	20,523	+1,357	22,104	+1,581	2.36
			)		<u> </u>





### Supporting and extending evidence

- Concealed families measured by census (Alan Holmans)
  - 0.935m in 1951 to 0.170 in 2001; 0.289m in 2011
  - Mainly but not only young couples under 25
- Shift from home-ownership to private renting
  - All ages but especially young adults 20-34
- Young people living with parents (ONS from LFS)
  - Increase has continued 2011-2014



### Implications for household projections

- Uncertainty demands that the 2011 census analysis be completed
  - All is provisional until then
- A long-term reduction in young people's household formation
  - Not the biggest driver of increased household demand, but most related to policy
  - Acceleration in 2000s of trends apparent in 1990s, deepening in 2010s
- Re-instate concealed families in the projections
  - Conceptually straightforward an extra 'household type'
  - Are data for localities available?
- Relationship status is relevant but:
  - What is stable about the representative rates in each relationship group?
  - Latest projections of relationship status are 2008-based
  - Intended to be de facto marital status but it is not
- Acknowledge uncertainty of current trends with standard sets of variant scenarios

# Concealed lone parent and couple families increasing again

Table 2.	Households and Concealed Families 1951 to 2011					
			(thousands)			
	<u>Households</u>	Concealed Families	Households plus Concealed Families			
1951	13,259	935	14,194			
1961	14,724	702	15,426			
1971	16,871	426	17,297			
1981		No census data				
1991	20,213	273	20,486			
2001	21,825	170	21,995			
2011	23,740	289	24,036			

13% of all families with reference person aged under 25 are concealed in other households (16% in London). Less than 2% for all ages

(3.5% London)

England and Wales: Table from Holmans, 2014

### Young people living with parents

#### Young adults aged 20-34 living with their parents, %

Source: ONS (2014) from LFS, 3-year average centred on year shown

