

Getting in under the hood: firm and job dynamics in the UK before, during and after the 'Great Recession'

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ISBE, November 2015

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- 1. purpose
- 2. data sources & construction
- 3. accounting for firm dynamics
- 4. births & deaths
- 5. continuing firms
- 6. net job creation
- 7. what have we learned?



sources

- Inter-Departmental Business Register (IDBR) is a 'live' register updated for jobs from HMRC (VAT and PAYE) and Business Register Employment Survey
- ▶ the BSD comprises extracts from 'snapshots' of the IDBR taken each March (1997 to 2013)
- all employer enterprises in the UK

construction

- focus on firm and job dynamics with firms linked year-to-year by ID
- appearance of first job ≡ birth of firm
- ▶ dis-appearance of last job ≡ death of firm
- private sector (defined by industrial activity)
- ▶ focus here: cohort of private sector firms born in 1998



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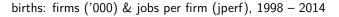


In our treatment of job creation and destruction we track the contribution of *continuing* firms: firms which were born before the beginning of a year and survive to the end of that year. So we have,

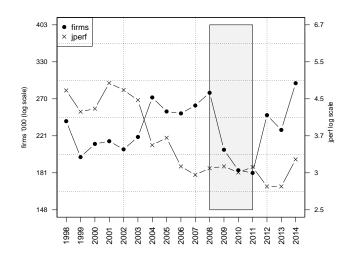
- the stock of continuing firms inherited from the previous year
- plus the firms born in the previous year, because at the beginning of the current year all last year's births are 're-labelled' continuing firms
- less the firms which die in the current year

$$continuing_t^f \equiv continuing_{t-1}^f + births_{t-1}^f - deaths_t^f$$
 and the corresponding stock/flow relation is,

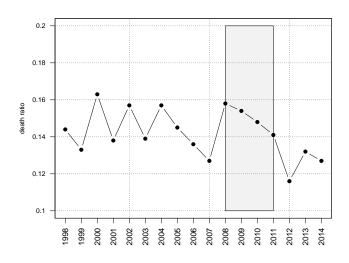
$$\Delta continuing_t^f \equiv births_{t-1}^f - deaths_t^f$$
 (1)

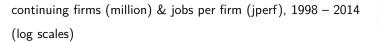




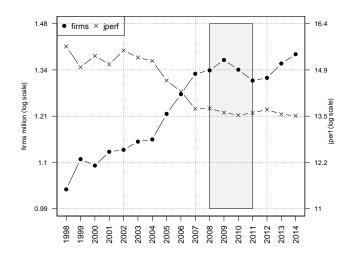






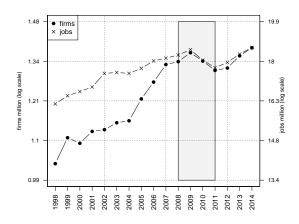




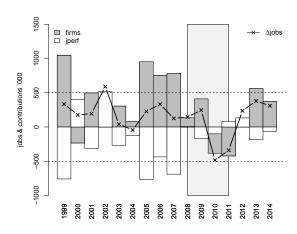


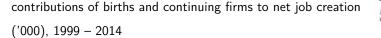




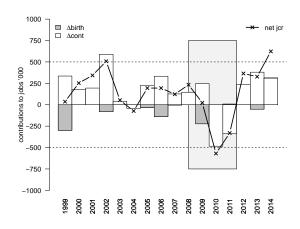














- focusing on firm stocks rather than job flows provides a more coherent account of job dynamics in the UK since 1998
- jobs per firm driven by expansion & contraction– varied relatively little, stocks of firms – driven by births and deaths – varied rather more
- the onset of the Great Recession period was signalled by a collapse in firm births, which remained depressed until 2010
- the depressed number of births depressed continuing firm numbers in the following years
- because jobs per firm remained largely unchanged during the Great Recession period, the changes in the stock of firms translated into changes in the stock of jobs
- today's startups are tomorrow's continuing firms