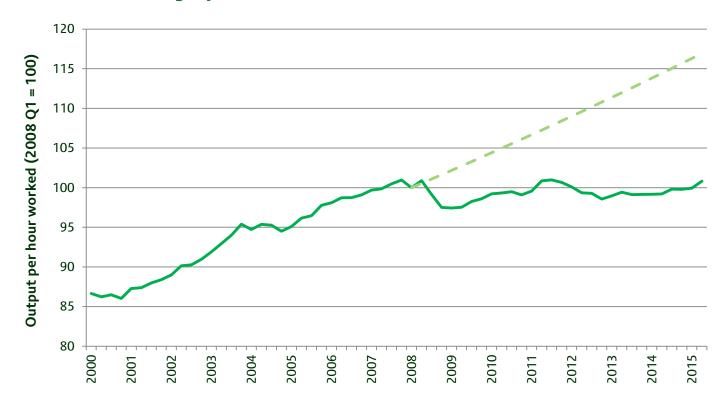


Capital allocation and productivity

Helen Miller (IFS) & Alina Barnett (BoE)



Productivity puzzle



Source: Author's calculation using ONS data series ABMI and YBUS.

Dashed line shows pre-2008 trend, calculated using the average quarterly growth rate for the decade prior to 2008.

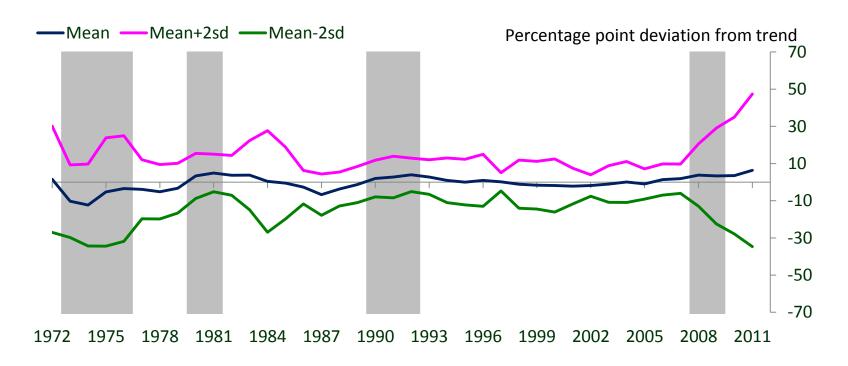


Resource allocation & productivity

- Productivity growth comes in part from the reallocation of resources within and between firms (Disney et al. (2003), Barnett et al. (2014))
- Uneven shocks create incentives for resources to move
- Possible impediments since the crisis:
 - financial market frictions
 - weak demand and uncertainty
- Frictions to labour and capital choices can lead to persistent dispersions in prices and output (e.g. Hsieh and Klenow (2009))



Price level dispersion across sectors

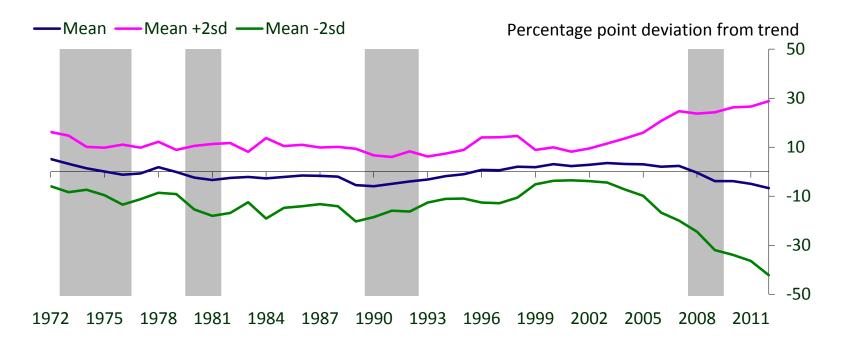


Source: Bank calculations. The mean and standard deviation are calculated across sectors for each year.

Deviations from trend are based on HP filtered data between 1970-2006. Sample is whole economy. Data from ONS and EU Klems.



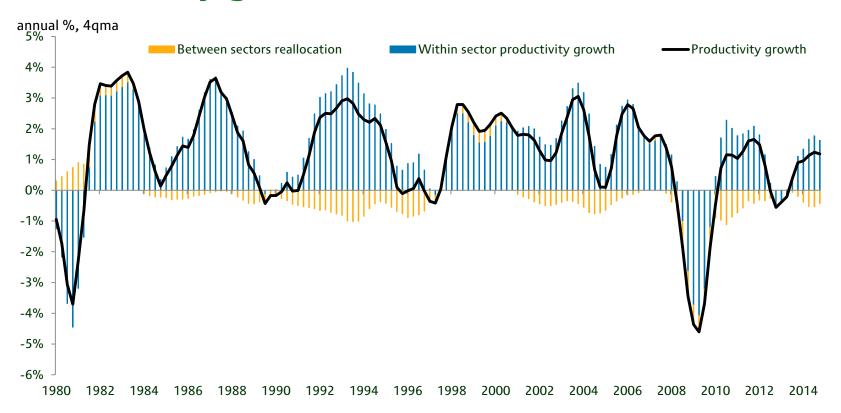
Productivity dispersion across sectors



Source: Bank calculations. The mean and standard deviation are calculated across sectors for each year.

Deviations from trend are based on log-linear trends calculated between 1970-2006. Sample is whole economy excluding the energy sector. Data from ONS and EU Klems.

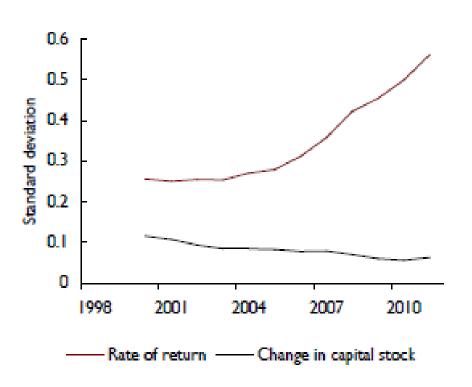
Productivity growth occurs within sectors



Source: Bank calculations.



Indications of misallocation at the firm level



 Dispersion of firm rates of return has increased since the crisis, that of capital has not

 Positive relationship between rate of return and investment has broken down

Source: Barnett, Broadbent, Chui, Franklin, Miller, National Institute Economic Review 228 2014



Where next?

Measure frictions to capital allocation (ala Hsieh & Klenow 2009)

 John Van Reenen (LSE), "Productivity, management and reallocation"

• Rebecca Riley (NIESR and CFM), "Productivity dynamics in the wake of the financial crisis: evidence from businesses"

Chiara Criscuolo (OECD), "The future of productivity"

