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Assessing the labour reallocation process in Europe: productivityenhancing or not?

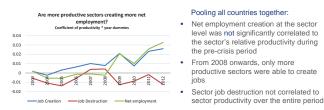
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This paper

- Explores the labour reallocation process across a set of European countries
 - Distinguishing between within-sector and between-sector reallocation
 - Paying particular attention to the role of the crisis in the reallocation process...
 - ...in different European countries
- Assesses whether the presence of product, labour and credit market distortions hampers resource reallocation
 - The strategy is to construct sector-specific measures of product, labour and credit market distortions...

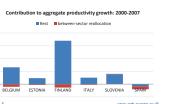
...and evaluate whether sectors with more distortions, relative to the country average, in a given year, are also characterised by less cleansing

Between-sector reallocation



Contribution of between-sector reallocation to aggregate productivity growth:

- There are large differences across
 countries
- In the pre-crisis period between-sector reallocation contributed negatively in ES, BE and FI
- However, within-firm productivity growth and within-sector reallocation more than compensated in BE and FI



......

Why is cleansing different across sectors?

• We take from the mark-up module average price-cost margins at the country, sector and year level

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- Compute the sector deviations to the country average, every year

| | All firms | Medium-large firms |
|---------------------------------------------------|------------|-----------------------|
| | Net | Net |
| | employment | employment |
| VARIABLES | growth | growth |
| Sector demand | 0.2486*** | 0.1805*** |
| | (0.0869) | (0.0408) |
| Relative initial productivity | 0.5245*** | 0.2809*** |
| | (0.1023) | (0.0536) |
| Relative initial productivity x sector mark-up | -0.1416 | -0.9142* |
| | (1.0642) | (0.4854) |
| sector mark-up | -0.3496 | -0.0229 |
| | (0.3563) | (0.1684) |
| Constant | 0.1087* | 0.0000 |
| | (0.0591) | (0.0002) |
| Observations | 7,629 | 6,569 |
| R-squared | 0.0377 | 0.0531 |
| r2 a | 0.0343 | 0.0490 |

Do sectors with higher mark-ups feature less cleansing?

- In sectors with relatively high markups there is less cleansing

 The coefficient of productivity actually turns negative
- It is significant for the set of medium and large firms, not for the smallest firms
- This is confirmed using alternative indicators of sector regulation

 OECD regulatory impact indicator, although available for less years and sectors

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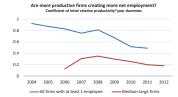
Resource reallocation: what and why?

- Reallocation of resources is the result of job destruction by exiting and shrinking firms and job creation by entries and expanding firms
 - We know that the extent of resource reallocation across firms, even within narrowly defined sectors, is very large
 - Resources can reallocate across firms operating in a given sector, or in a different sector – within vs. between sector reallocation
- Reallocation is productivity enhancing when resources are shifted from low productive to high productive firms
- Although recessions might increase productivity-enhancing reallocation, market distortions might alter the costs/benefits of reallocation

Data: Sources and definitions

- Data come from CompNet's labour and mark-up module
 No info on firm-level growth and characteristics
 - But rather on firms moving from one quintile of the size distribution to another in a 3 year window
 - These transition matrices are available for each country, macro-sector and year
 - Firms have to be in the sample in t-3 and t, so we only have info on survivors
- With this information we construct average employment growth, between t-3 and t, of firms in a given cell of the transition matrix – each cell is like a "representative firm"
 - We have information on the initial characteristics (at t-3), including median labour productivity and TFP, of firms in each of the cells
- We construct sector JCR and JDR à la Haltiwanger
- 10 countries (AT, BE,HR, EE, FI, DE, IT, LT, SI, ES); 9 macro-sectors, 13 years (2000-2012)

Within-sector reallocation: time and sector variation



Cleansing across sectors (pooled countries):

- Cleansing is highest in manufacturingAnd lowest (significantly) in ICT,
- construction and professional and technical activities
 Whv?

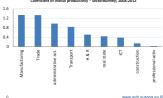


 There is a significant and positive relation between firms' initial productivity and net employment creation

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 However, that correlation is declining over time (significant negative trend)
 The correlation is smaller among medium-large firms, and it does not change over time

Is cleansing different across sectors?



The way forward

Labour and credit market distortions

- We have used estimated collective bargaining parameter from the markup module
 - But lack of time variation does not permit to identify effects
 - 2 other possibilities:
 - Use the WDN share of firms in each country, sector and year with centralised collective bargaining – to be done
 Construct a sector EPL using sector job churning from the US and OECD EPL -tbd
 - Construct a sector Er E using sector job channing non the OS and OEOD Er E-tou
- We have also explored the impact of sector access to finance on cleansing
 - Preliminary evidence shows that sectors where the share of credit constrained firms is relatively larger than the country average feature less cleansing
 - But results are not entirely robust. Looking for alternative proxies to access to finance at the sector level

Construct counterfactuals

- What is the contribution of reallocation to aggregate productivity growth?
- · What would it be if European countries adopt best practices?