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# Progetti di ricerca tematica all'Istat

Risultati della prima call

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# Discussing the paper: 'Urban non-urban agglomeration divide: is there a gap in productivity and wages?'

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# Productivity

- ▶ **Cross-sectoral** differences in labour **productivity** are driven (to a great extent) by cross-sectoral differences in **capital deepening** ( $K/L$ )
- ▶ Comparing **firms** across **different sectors** with **heterogeneous capital intensity** might be misleading
- ▶ Three **options** here:
  - ▶ Move from labour productivity to **total factor productivity**  $\Rightarrow$  maybe not a good idea as you would need information on **capital** and **panel data** to properly estimate establishment-level TFP and, moreover, that would **not** be an useful variable to discuss the issue of the **productivity/wages gap**
  - ▶ Account for **narrowly-defined sector** (e.g. 4 digit) in a **flexible** way (using dummies) in your **econometric** analysis
  - ▶ **Control** in the regressions for systematic differences in **capital deepening** across **sectors**  $\Rightarrow$  even using **macro-level** information on capital stock by 2-digit sector

# Gap

- ▶ The productivity/wages **gap** (as defined in the regression, not in the descriptives) is basically the **inverse** of the **labour share**
  - ▶ There is an **extensive literature** (theoretical and empirical) on the **drivers** of the labour share at the micro, regional, sectoral, macro levels
- ▶ Productivity/wages **gap** is a **combination** of:
  - ▶ **Composition** of **workers** (e.g. skills, occupation, experience, ability) **within** the **establishment**
  - ▶ **'Sharing the pie'** of high productivity
  - ▶ **Capital intensity** of the establishment (or sector)
- ▶ Minor: **Figure 4** could be more informative if the productivity/wages **gap** was measured as a **ratio**

# Urbanisation

- ▶ Potentially **time-varying** measure  $\Rightarrow$  why not to **exploit** it?
- ▶ Use **alternative definitions** (e.g. based on different thresholds)
- ▶ Why not employing a **continuous measure** of urbanisation? **RDD** to validate **thresholds**?
- ▶ You focus your attention on '**urbanisation economies**' (i.e. **Jacobian** clusters)  $\Rightarrow$  what about considering the contribution of '**Marshallian** clusters'? (control for '*distretti*' dummy)
- ▶ Some of the **advantages** (and costs) arising from **urbanisation** go **beyond** the **municipality** and can be earned (or borne) by all people and companies within the **commuting zone** ('*sistemi locali del lavoro*')  $\Rightarrow$  define urbanisation at the SLL level

# Shift-share analysis

- ▶ To **disentangle** the role played by **firm-specific** factors and **compositional** factors, you could also run a **shift-share analysis**
- ▶ In this way, you would **compare** the **contribution** of **within-sector** differences in productivity, wages and gap to the **between-sector** differences in productivity, wages and gap across different areas (or categories of areas)
- ▶ This would be of great **importance** to explicitly **measure** the role played by one type of **sorting** / **self-selection**

## Econometric analysis

- ▶ You might consider including a much larger set of **area-level control variables** to account for **confounding** factors  $\Rightarrow$  these controls should be **carefully selected** to avoid including variables that measure some specific dimension of urbanisation (e.g. transportation infrastructure could be problematic)
- ▶ It would be of great interest to **explicitly evaluate** the **contribution** of some specific **dimensions** of urbanisation economies/diseconomies (infrastructures, local markets, access to knowledge, supply of skills, amenities, pollution, etc.)
- ▶ Given your **discussion** on the possible sources of **endogeneity**, you should make **explicit** your prior **beliefs** about the likely **direction** of the **bias** in OLS
- ▶ Also **report first stage regressions** for your IV estimates (does each IV correlates with the 'corresponding' endogenous variable?)
- ▶ I **like** your **instrumental variables** for urbanisation but... they are not perfect
  - ▶ **Inter-generational spillovers** (correlated both with urbanisation and current performance, directly)
  - ▶ **Contribution** of these variables to build the local '**social capital**'