

# CompNet

The Competitiveness Research Network

## CompNet: What's new?

**Filippo di Mauro (\*)**  
**IWH**  
***Chairperson of CompNet***

FINPRO III, Rome 8 & 9 June 2023  
Jointly organized with Banca d'Italia

(\*) We are grateful to Marco Matani for his excellent help

# We have two datasets/tools: 1) The traditional CompNet Dataset

- Unbalanced panel of Productivity related indicators now for **23 European countries** and 60 sectors over 1999-2020/21, available annually
- Our data providers (**statistical institutes, central banks, and research institutions**) run the same codes on their best existing national datasets

Countries
Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Lithuania, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland
<b>New:</b> Latvia, Malta, UK

Aggregation Levels
Country Macro-Sector Macro-Sector-Size-Class Industry 2-digits NUTS 2
<b>New:</b> Technology

# The traditional CompNet Dataset - Variables



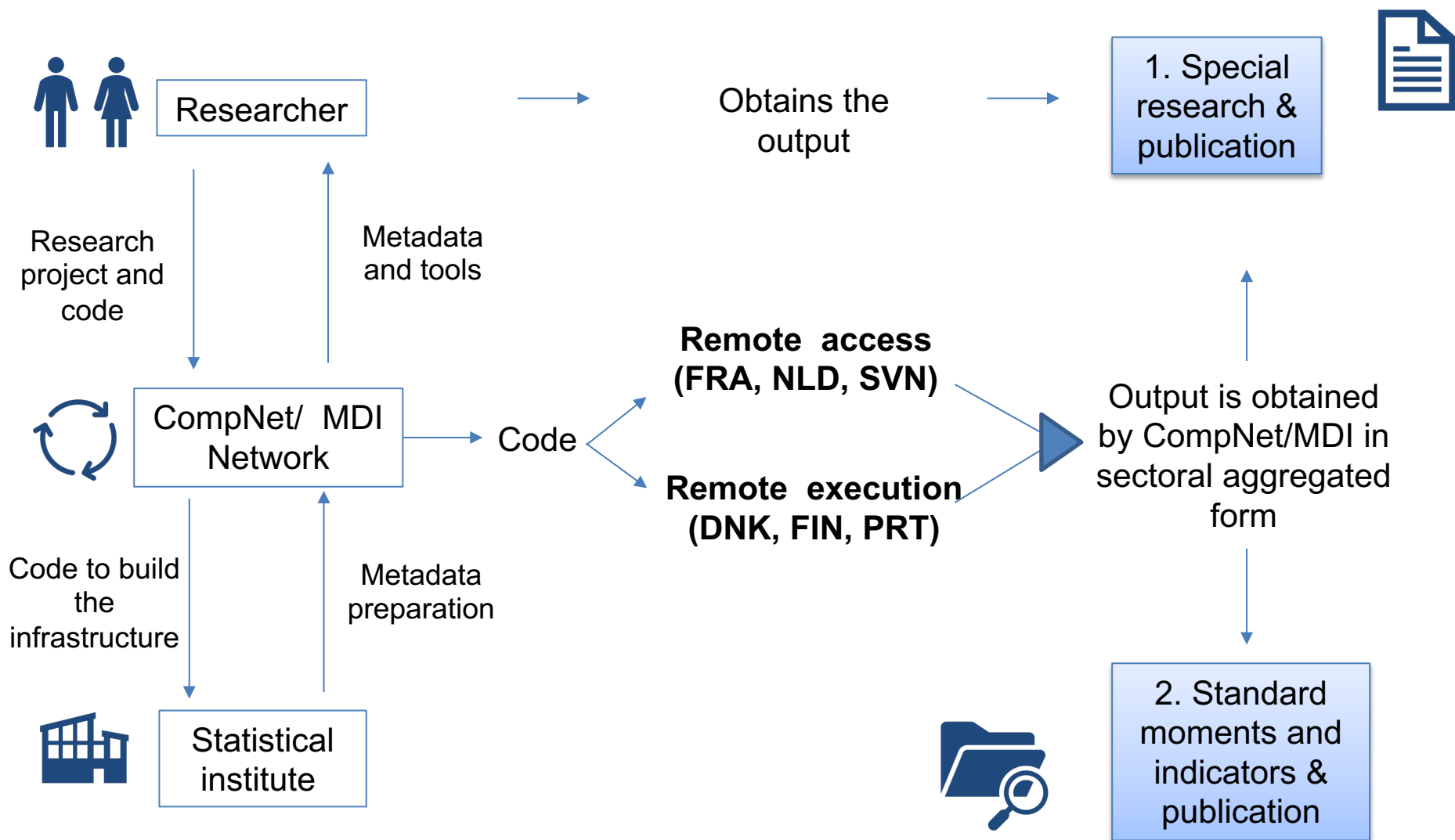
## Previously we had added

- Zombie firms
- Regional dimension
- Intangibles proxies

## In the 9<sup>th</sup> we are adding

- Business dynamism indicators

## 2) The MDI – Much more granular dataset to run on request



### 3) Research – Ongoing using our datasets

- *European Business dynamism*
- *Labor Market power*
- *Intangible investments and productivity*

→ Just published in the **JEEA** (with Mark Melitz) on '**EU firm concentration and productivity**'

→ will publish next month the 2023 CompNet Productivity Report ... Reviewing recent trends in competitiveness, productivity, trade, and firm performance

## 4) CompNet going forward

**We are providing Technical Assistance to EU National Productivity Boards (under a EU Commission grant)**

... to further develop the above two micro-data datasets and promote their use for research and policy analysis (**Ongoing till next year**)

**We are teaming up with the CEPR (and their 2000 members) on a Micro Data Initiative**

... to improve microdata infrastructure in Europe and its use for productivity analysis (**1<sup>st</sup> Micro Data Workshop, 15-16 June, Paris**)

**THANKS, AND ENJOY THE  
CONFERENCE**

# 3) Research - Ongoing

- Research projects:
  - ***“European Business dynamism, market power and technology”*** Javier Miranda, Matthias Mertens, Sergio Inferrera.
  - ***“Labor Market power and Wage Inequality”*** Matthias Mertens.
  - ***“Input Market Power”*** Matthias Mertens, Bernardo Mottironi, Alessandro Zona Mattioli, Filippo di Mauro.
  - ***“Productivity and pay”*** Paolo Mengano, Matthias Mertens, Tommaso Bighelli.
  - ***“Intangible investments and productivity”*** Eric Bartelsman, Mirja Hälbig, Alessandro Zona Mattioli.
- Policy output: VOX EU and alike
- The 2023 CompNet Productivity Report (July 2023): Reviewing recent trends in competitiveness, productivity, trade, and firm performance



# MDI motivation - Current status with many hurdles



To do research, a  
Researcher has to go  
through:

1. Research proposal
2. Data access procedure
3. NSI technical restrictions
4. Fixed costs of getting to know the data
5. Decisions on data handling (e.g., outliers treatment)
6. Programming the code



The NSI, for each research project  
has to:

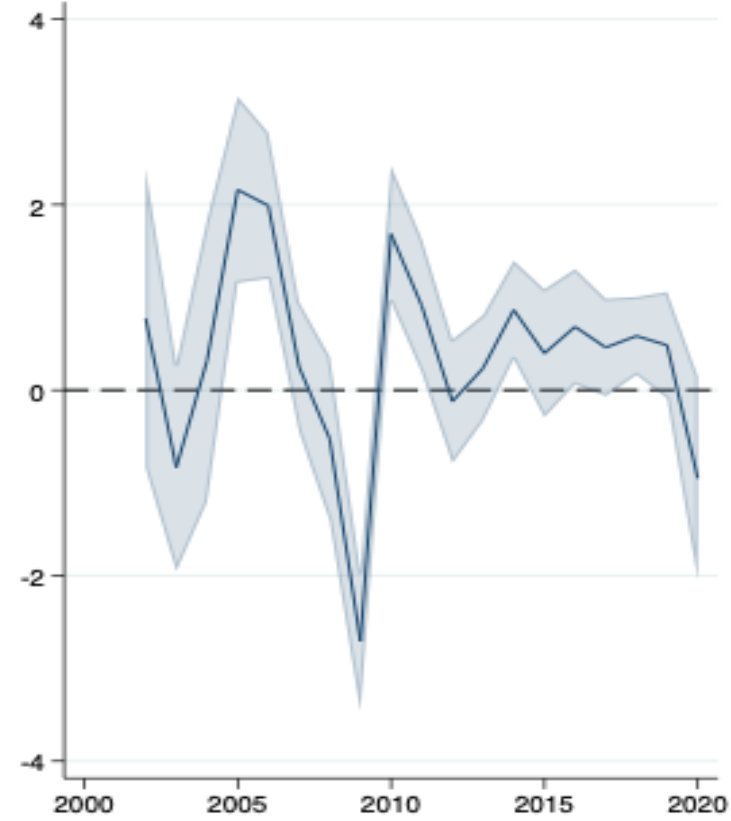
1. Provide access procedures
2. Provide dedicated assistance
3. Provide Microdata research support
4. Do a disclosure analysis
5. Sometimes host researchers



The resulting disclosure-free output will be used in a publication, **virtually impossible to replicate in other countries** after many hurdles!

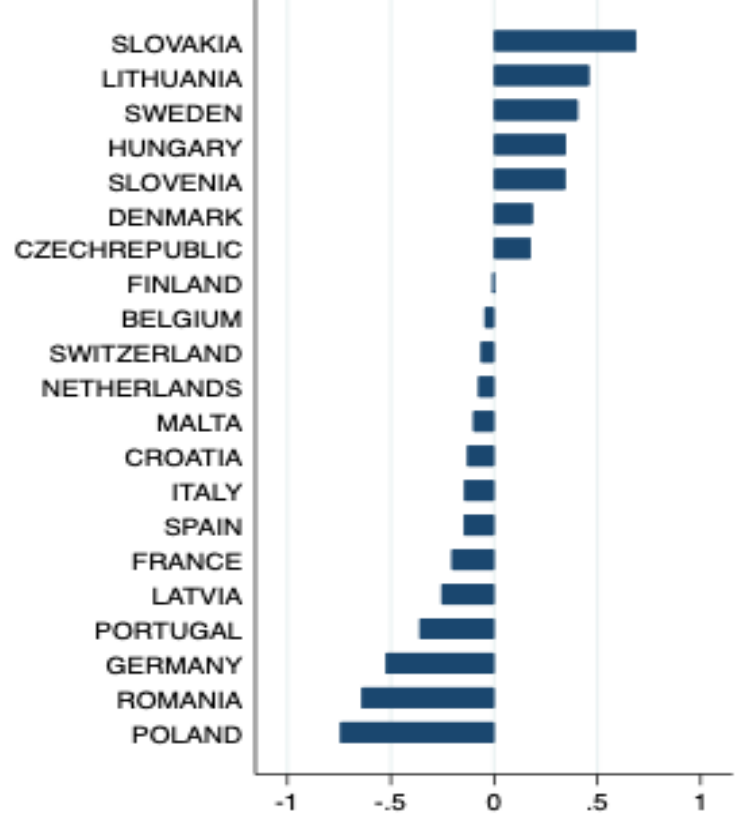
# Stylised facts out of the 9<sup>o</sup> vintage: TFP growth and dispersion

Average Revenue TFP Growth: Europe



95% CI Mean

Deviation per country

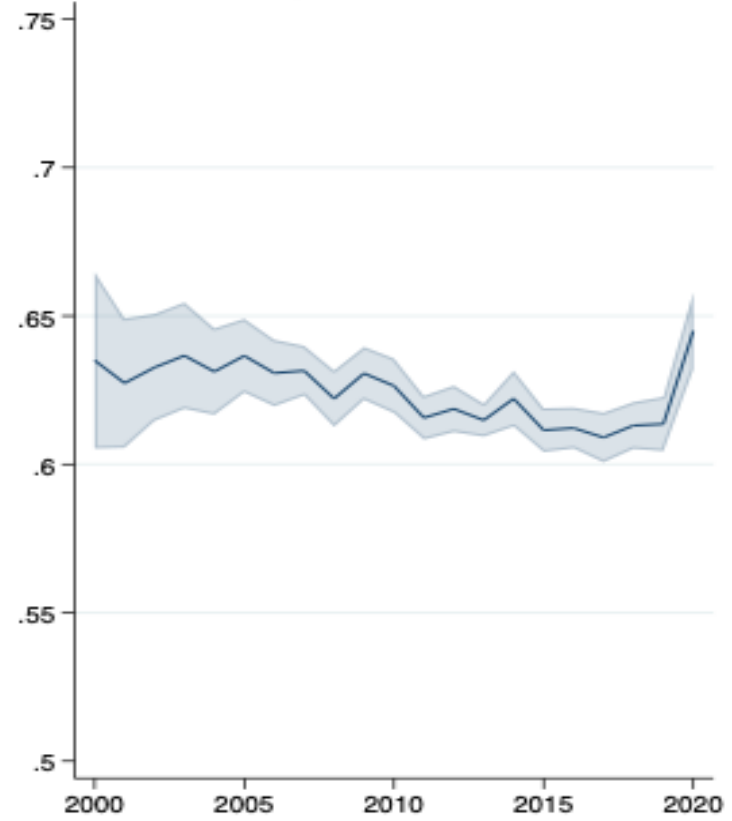


deviation from European average

➔ TFP growth declines in 2020, but it was much worse in 2009

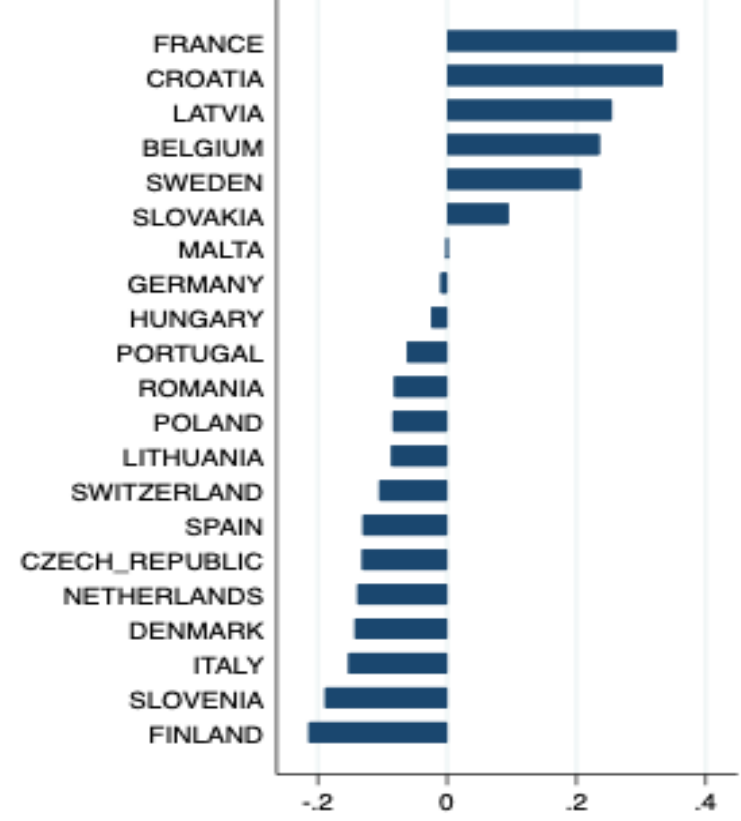
# Stylised facts out of the 9° vintage: TFP growth and dispersion

Dispersion in Average Revenue TFP: Europe



95% CI      Mean

Deviation per country



deviation from European average

→ Unprecedented instead is the within countries and industries dispersion of TFP growth

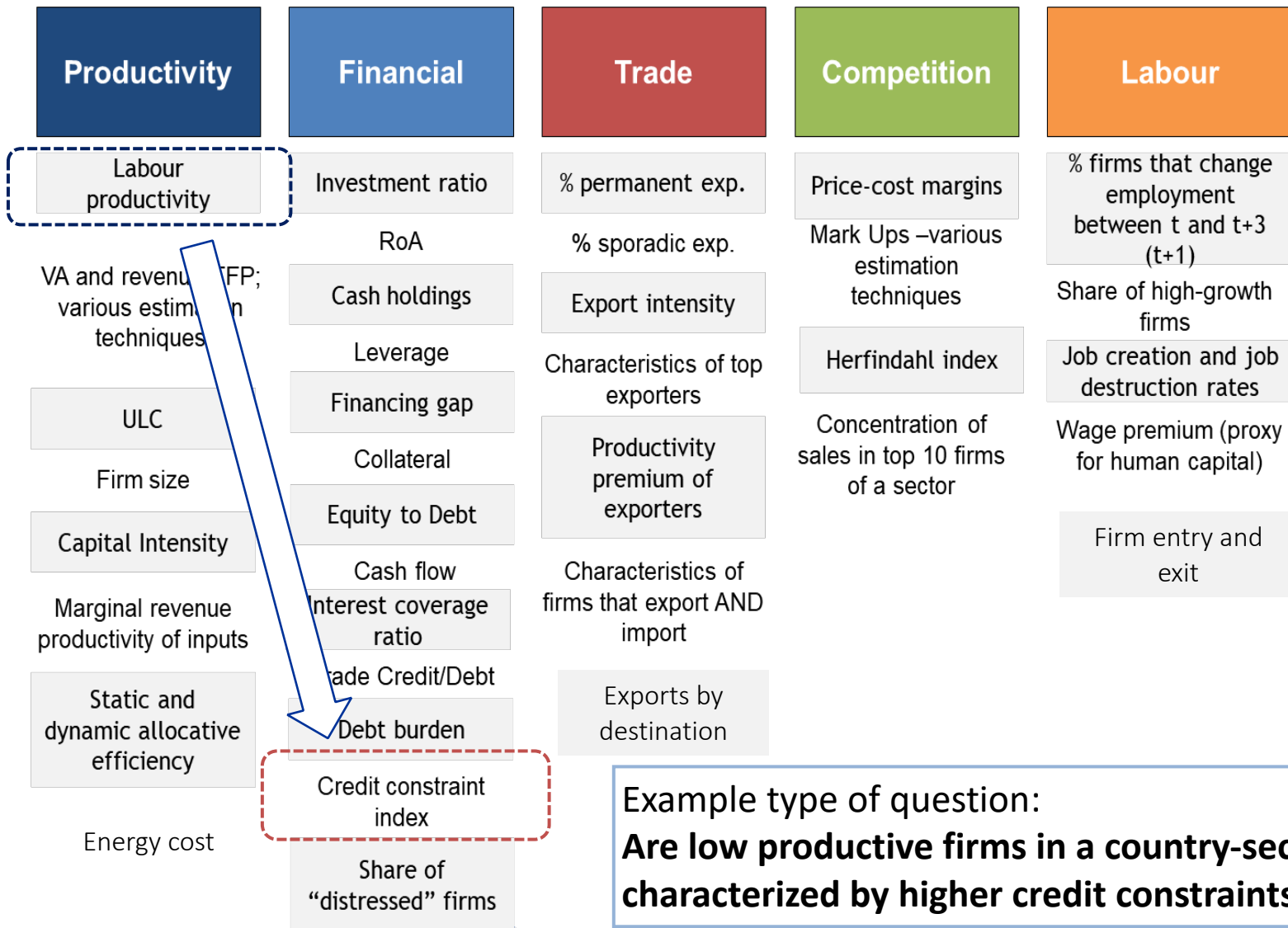
# 1) We have two Datasets and tools

- The **Traditional CompNet dataset**, now at its 9<sup>th</sup> Vintage: set of productivity indicators (firm-level based) for more than 20 EU countries and 60 sectors, available annually
- The **Micro-Data Infrastructure (MDI)**, a much more granular dataset, now already available for 6 countries (DK, FI, FR, NL, NO, SE), which will allow researchers to run codes independently and directly on previously harmonised firm level datasets

- Huge thanks to Banca d'Italia for hosting this conference
- Productivity is key and CompNet is actively playing its role
- Will tell on achievements and plans on
  - 1) Our CompNet dataset
  - 2) The Microdata infrastructure (MDI)
  - 3) Research
  - 4) Events
  - 5) Going forward

- New and exciting **research projects**
- **New data:**
  - 9<sup>th</sup> vintage now available, also including visualization for easy use
  - The MDI project is getting stronger
- **CompNet is thriving**
- **Thanks to Banca d'Italia for hosting us**

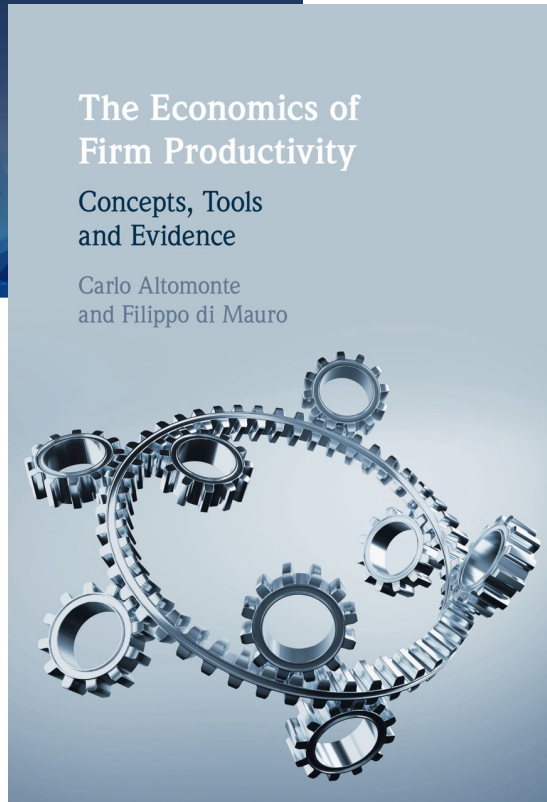
# The CompNet Dataset 9th Vintage - Joint Distributions



# 3) Research - Recently published



- Bighelli et al. (with M. Melitz)  
On ***Firm concentration and resource reallocation***  
→ Published in JEEA



- Book by Altomonte and di Mauro on  
***The Economics of Firm productivity***  
(Cambridge University press)



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Variables
Productivity
Financial
Trade
Competition
Labour

## 4) Events in 2022 and 2023

- **Data Provider/users Forums** to enhance best practices and data quality
  - **CompNet data provider forum (Annual)**
  
- **Academic Conferences** attended by scholars active in the field
  - **FINPRO series...**
  - **CompNet annual conferences (next in Brussels, 19 october 2023, CfP open)**
  
- **Training Courses**
  
- **Policy Workshops** promoting applications of our data to policy questions
  - **Every 4 months under the TA program with the Commission**