



# Measuring the platform economy in Italy. Methodological challenges and open issues

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# Defining a conceptual framework



# Which kind of platforms?



## Transaction platforms

Technology, product or service that acts as an intermediary facilitating exchange or transactions between users, buyers, or suppliers.



## Integrated platforms

Both a transaction platform and an innovation platform (e.g. Apple)



## Innovation platforms

Technology, product or service that serves as a foundation on top of which other firms develop complementary technologies, products or services.



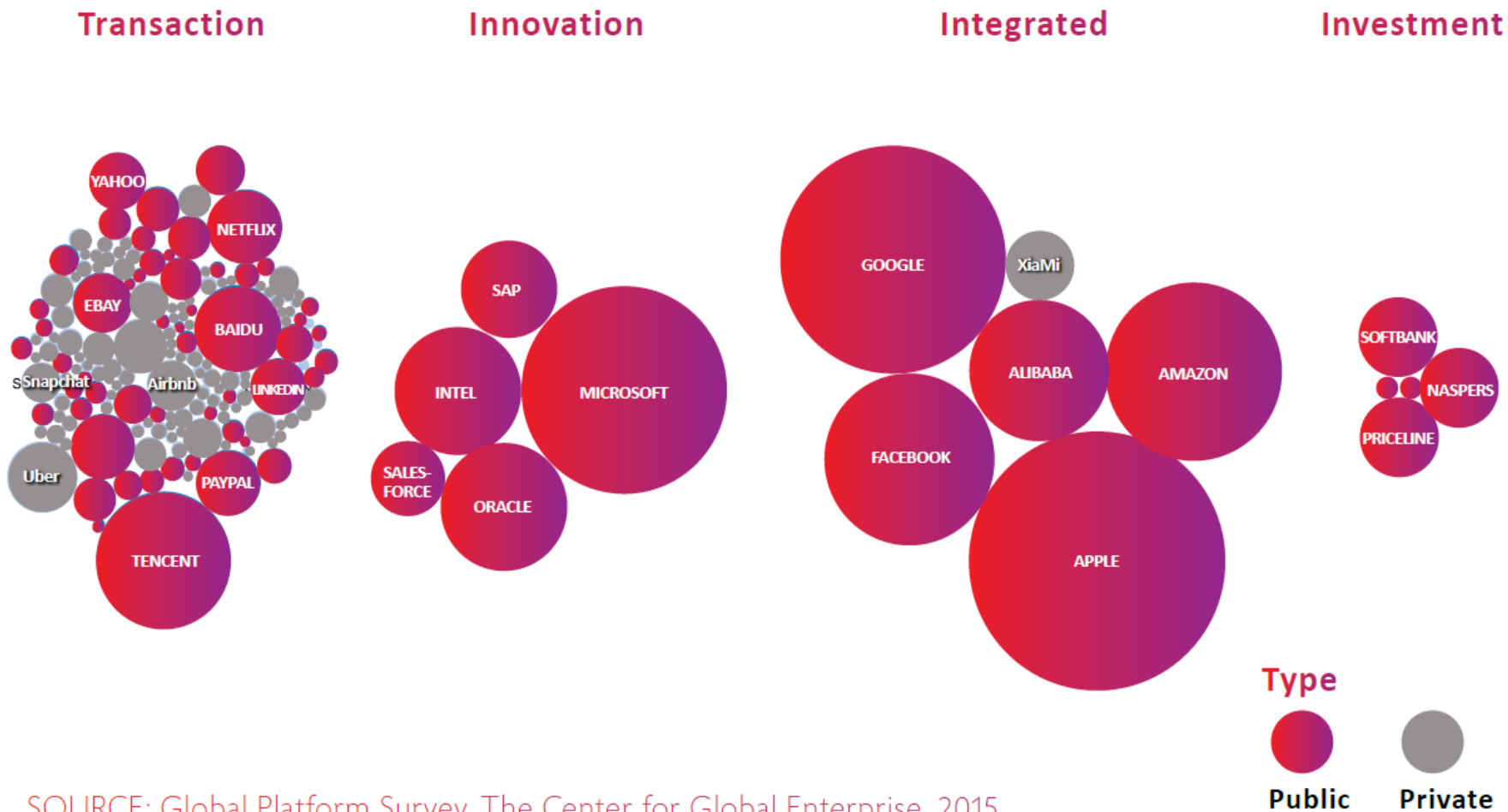
## Investment platforms

Companies that have developed a platform portfolio strategy and act as a holding company, active platform or both.

SOURCE: Global Platform Survey, The Center for Global Enterprise, 2015



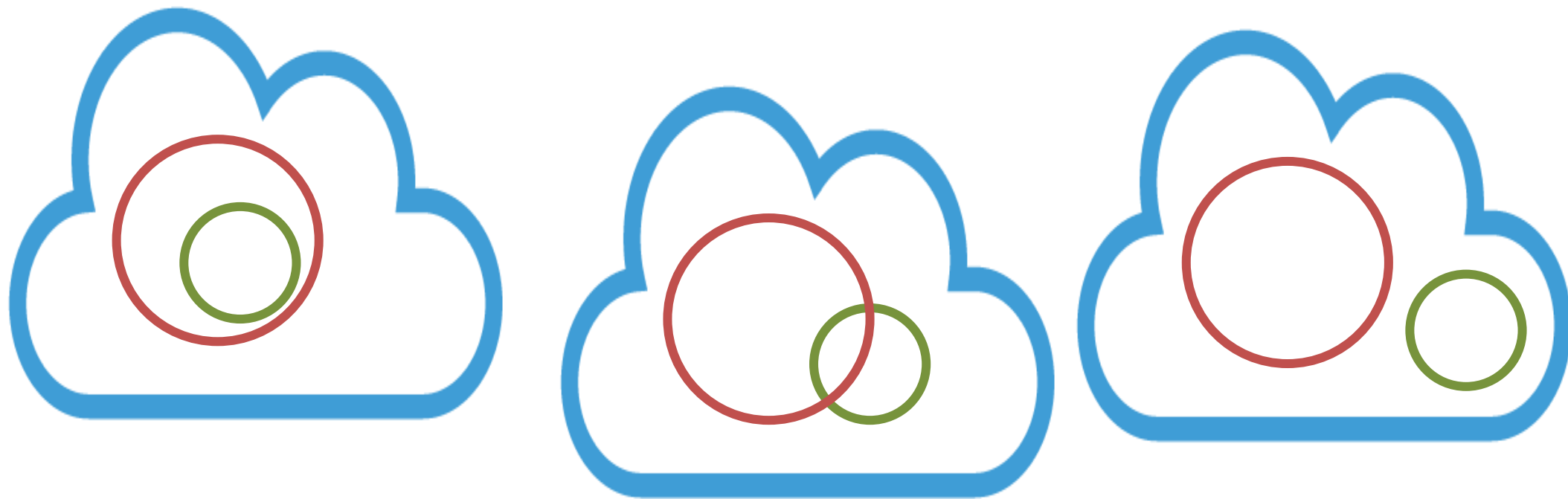
# Which kind of platforms?



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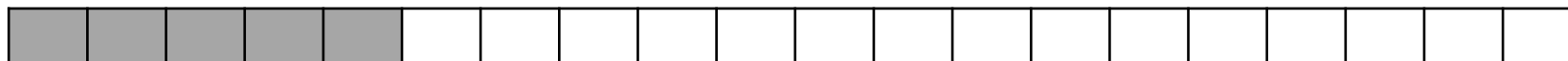
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# Transactions and sharing (P2P) platforms in the digitalised economy



○ Transaction platforms

○ Sharing (P2P) platforms



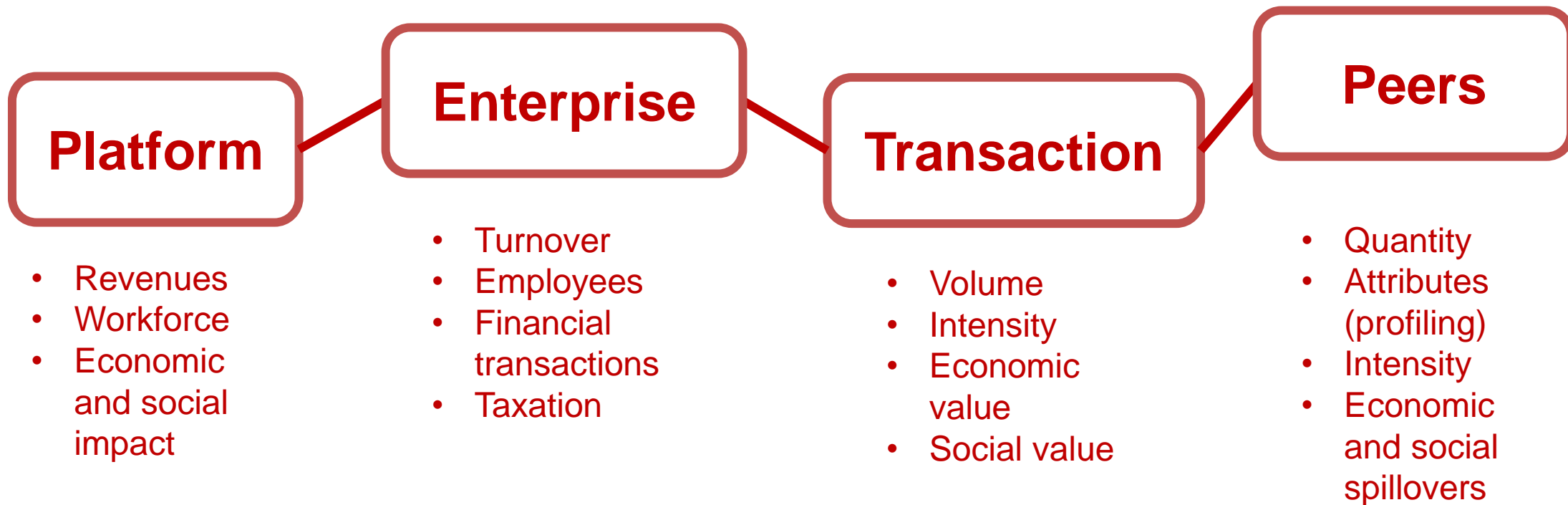
# Identification of a platform

- Nationality (i.e. the country where the owner – or the Holding Company if the platform is owned by an enterprise group – is based).
- Country where is (potentially or actually) operating.
- Internet address (URL).
- Ownership (individuals, domestic firms, multinationals, etc.).
- Business model.
- Workforce (number, occupations, skills).
- Algorithm(s) – a classification of which is not yet available.
- Access features (free, registration, restricted / mobile / languages / etc.).
- Money management (internal / external / multi-channel).
- Providers (number, characteristics, etc.).
- Users / Customers (number, characteristics, etc.).

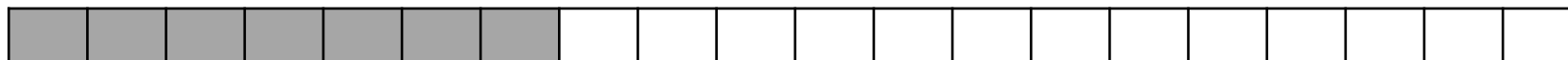


# Definition of a statistical framework

## 1) The statistical unit



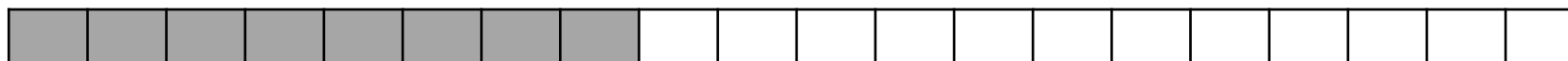
Does a breakdown by «asset-based» and «labour» platforms make sense?



# Definition of a statistical framework

## 2) A proposal for classification by platform type

Features	Peer-to peer model (sharing)	Two-sided market (Business-to-peer)		Intermediaries using platform technologies
		Neutrality	Additional service provision	
Peers	Individuals, households, businesses.	Businesses and consumers	Consumers, including businesses (as either providers or customers).	Customers
Legal nature of the managing institution(s).	Public, non-profit institutions, households, businesses.	Businesses	Businesses	Businesses
Workforce	IT staff, managers. Low ratio personnel expenditure / revenues.	IT staff, managers. Low ratio personnel expenditure / revenues.	IT staff, managers, clerical support staff, logistics and warehousing staff, delivery staff (riders). High ratio personnel expenditure / revenues.	Employees
Business model	No fees but also registration or low transaction fees. Advertising.	Registration fees. Advertising. Trade of data.	Two-sides' transaction fees. Advertising. Trade of data.	Pay-per-use

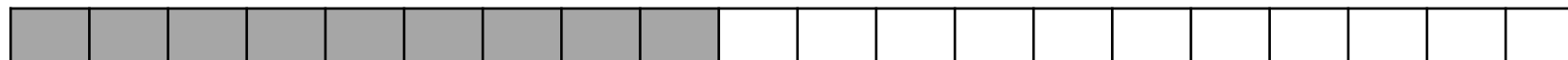




# Definition of a statistical framework

## 3) A proposal for classification by sector of activity

Sectors	Peer-to peer model (sharing)	Two-sided market (Business-to-peer)	
		Neutrality	Additional service provision
E-commerce (multi-product)	Kijiji, subito.it	ebay, Amazon Marketplace, ...	Amazon
E-commerce (sector-specific)	Gumroad		Eprice, Pixmania, Wish, Zalando
General logistics		Shiplly, Eurosender	Glovo!, Deliver.ee
Food delivery			Foodora, JustEat, UBER Eats, Deliveroo, .....
Public transportation	BlaBlaCar, GoCarShare, Drivy ..	UBER-black, Blacklane, .....	MyTaxi, itTaxi
Accomodation services	AirBNB	Trivago	Booking.com, Expedia
Travel services	Vayable, With Locals, .....	Volagratis, Skyscanner, Barqo	
Professional services		GoPillar, Starbytes, .....	
Personal care services	Suppershare, Croqqr, .....	Helping, TreatWell	
Crowdsourcing (C2B)	GloVo	BeMyEye, Microtask, .....	





Opinion **Gig economy**

## The gig economy is neither 'sharing' nor 'collaborative'

Upwork and its like shape the labour market in more profound ways than the labels suggest

SARAH O'CONNOR

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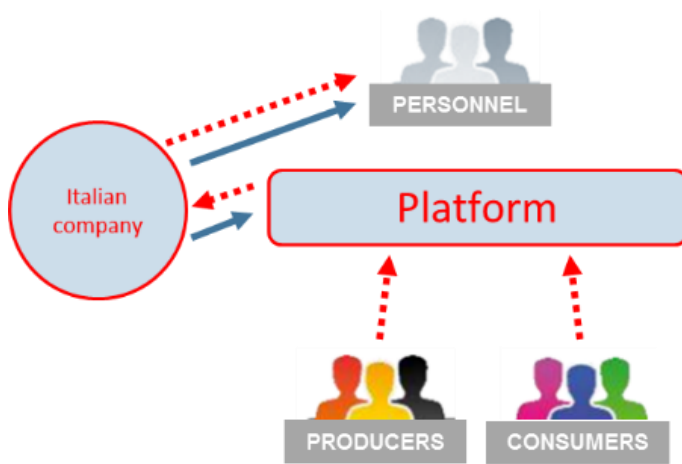
June 14, 2016



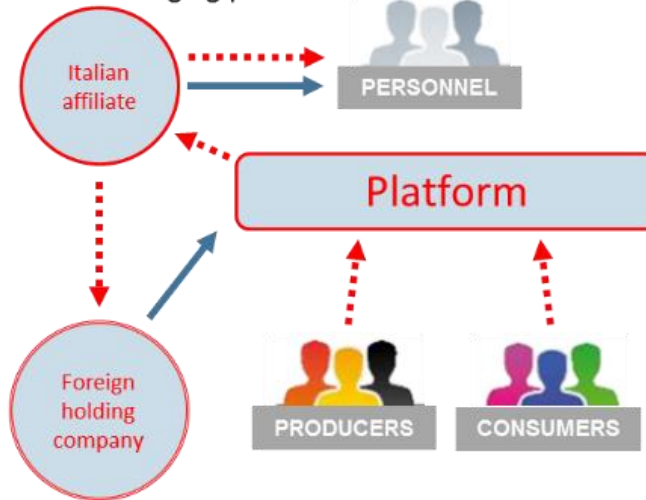
# Definition of a statistical framework

## 4) Problems in linking platforms and enterprises

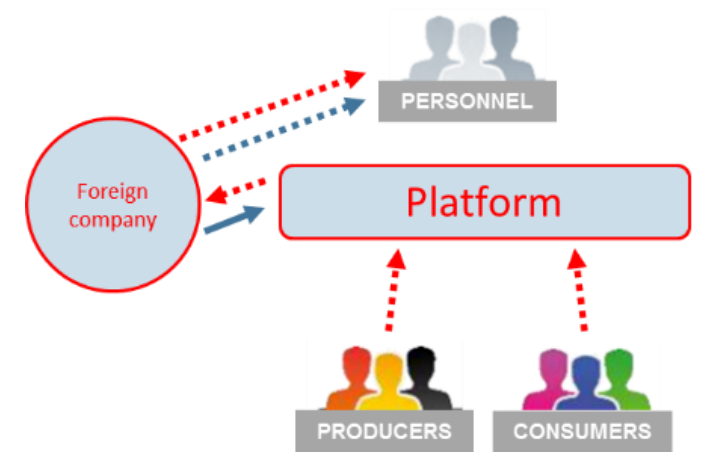
A) Italian company managing platform and personnel



B) Foreign company managing platform and Italian affiliate managing personnel



C) Foreign company managing platform and personnel



# Definition of a statistical framework

## 5) Mismatch between platforms' activities and NACE

**Food delivery**  
(12 enterprises)

47.91 Retail sale via mail order houses or via Internet

56.21 Event catering activities

62.01 Computer programming activities

62.02 Computer consultancy activities

62.09 Other information technology and computer service activities

63.12 Web portals

73.11 Advertising agencies

82.99 Other business support service activities n.e.c.

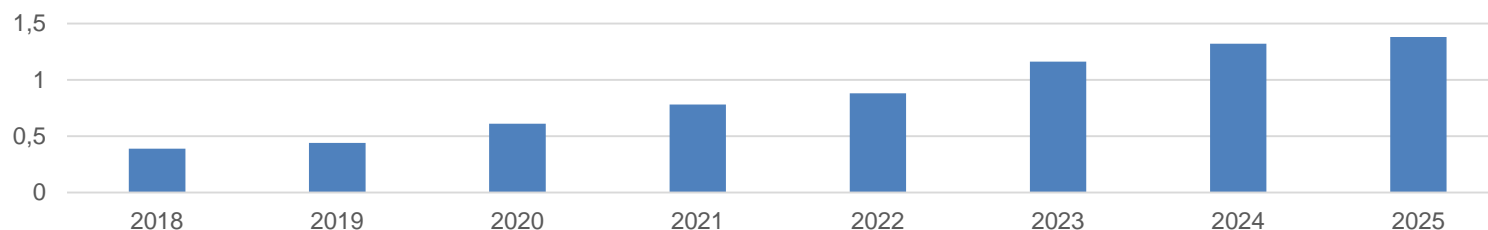


# Measurement issues

## 1) A macro approach to the platform economy

Official data on revenues, for Italy, are not available.

A study by the University of Pavia designed a scenario («digital disruption») based on 6.7 Billion Euros of revenues from «sharing economy» activities in 2018 (0.39% of the GDP). It could increase up to 1.38% of GDP in 2025. Assumptions and projections' criteria are quite vague.



# Measurement issues

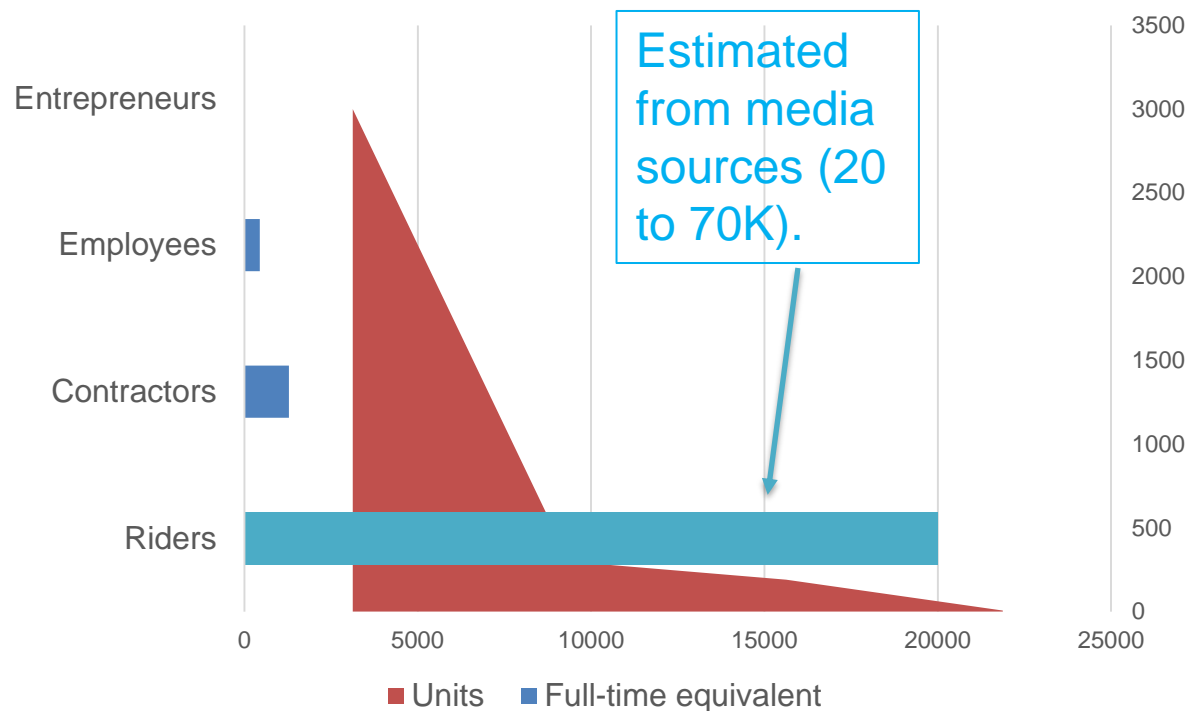
## 1) A macro approach to the platform economy

**Official data on employment, for Italy, are not available.**

A study by Fondazione De Benedetti and the Italian Social Security Institute has recently estimated an impact of the «gig economy» in terms of employment between 0.7 and 1 Million workers (1.8-2.6% of total population). Only 150-200 Thousand workers would be employed full time. Ten per cent of them are riders.

# Measurement issues

## 2a) Case studies: food delivery

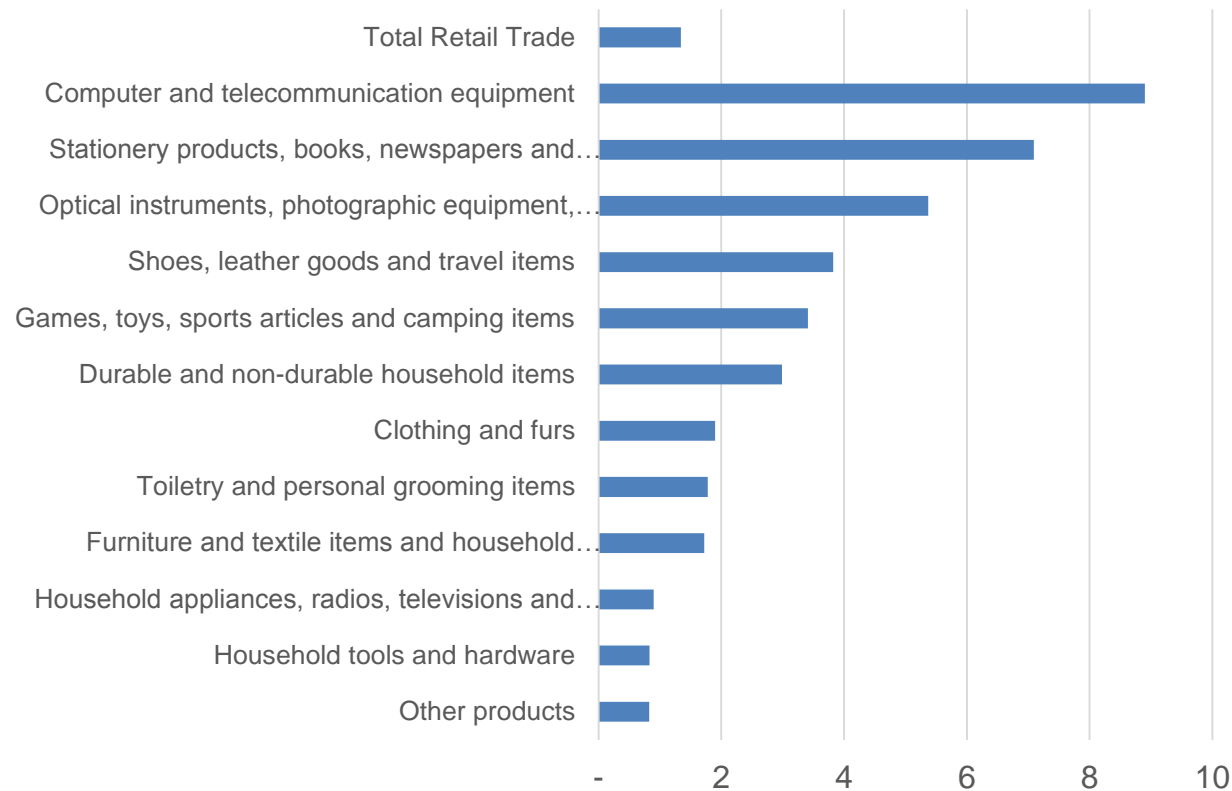


The **employment pyramid**: the 12 firms operating in Italy show a common breakdown of the employment: a few employees and many «riders» employed as service providers.



# Measurement issues

## 2b) Case studies: e-commerce



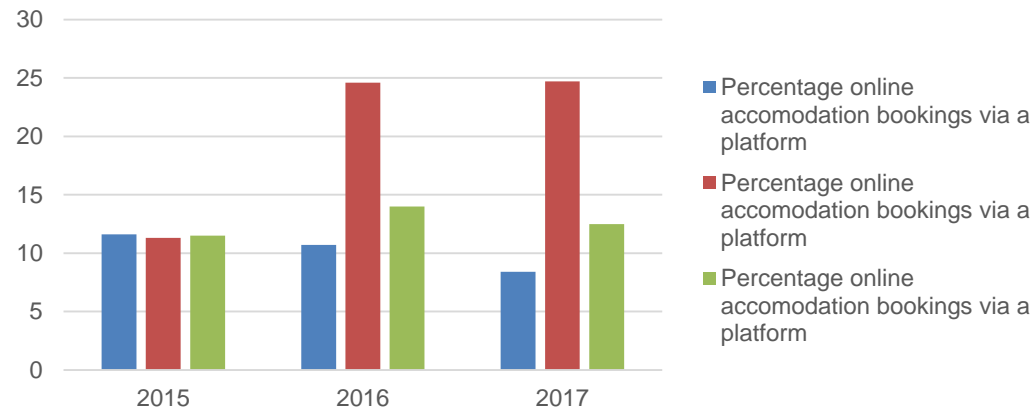
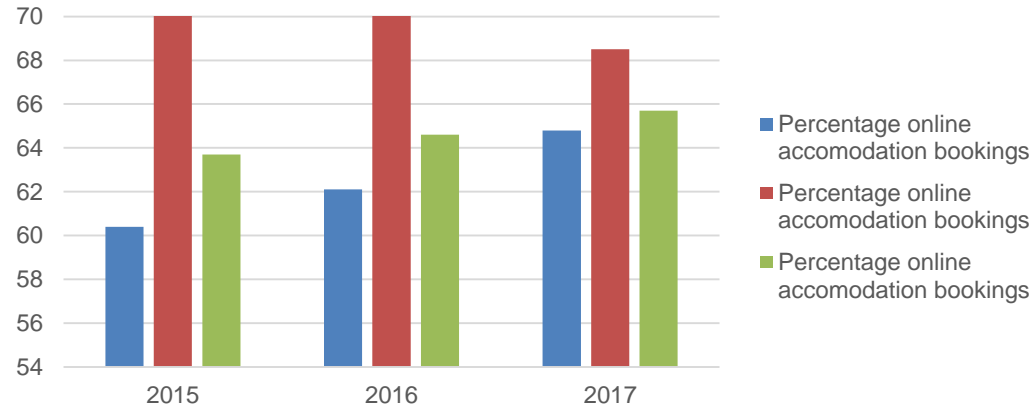
E-commerce platforms account for less than 2% of total retail trade expenditure in 2017. PCs and smartphones are the most traded online: almost 9%. **No data available for market-places only.**





# Measurement issues

## 2c) Case studies: accomodation booking



Two-thirds of Italians use to book accomodation on-line (up to 70% for accomodation abroad). Only from 10 to 15% of them use platforms (25% for accomodation abroad).



# Measurement issues

## 2d) Case studies: use of Internet by households



The percentage of Italians using online platforms for **travel booking** and **selling goods/services online** is constant over time. No increase is expected in coming years.



## Conclusions (1)

- A systematic activity will be launched in Italy when EU countries will agree on definitions and classifications
- It is highly probable that Eurostat will be focusing on:
  - **two categories of platforms** (asset-based and labour?) and
  - **three sectors** (public transport, food delivery and short-term accommodation).



## Conclusions (2)

- Estimating the overall impact of the platform economy, as defined by the EU, will be possible only by:
  - Collecting economic (**transactions**) data at a higher detail than it is currently done (e.g. AirBNB payments, riders' salaries, etc.).
  - **Combining economic and social statistics** in order to be able to estimate economic data on the supply side by using information on the demand side (peers).
  - **New statistical surveys** could be needed to explore small areas of activity by platforms.

