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### PRESERVING COMPETITION IN A CHANGING WORLD



**Daniel Gros**, IEP@BU, Director, Brussels, June 27, 2024

#### Competition and competitiveness

- Competition core of process of European integration, from Customs Union to Cassis de Dijon and internal market program.
- All these steps contributed to growth.
- Today growth slowed down, absolute and relative to 'competitors' (mainly US).
- Hence: Relaunch integration/competition: Letta and Draghi reports.



#### Plan of talk

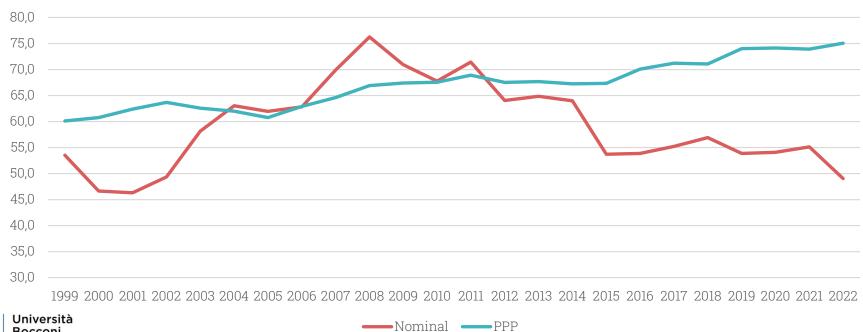
- —Cannot address all issues.
- 1. How to measure economic performance and importance of measuring prices for consumers.
- 2. What has driven changes in the competitive landscape over last decades?
- 3. Globalisation + software = winners take most
- 4. But impact on average profits not clear.
- 5. Mobile communications as emblematic case of splintered internal market or urban legend?

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### Measured in Purchasing Power Europeans live well (=> where is the problem?)

EU per capita GDP as % of US





#### Nature of Competition

- Difficult concept to measure.
- Empirical work mostly about concentration, mark-ups and profit margins.
- Very little discussion of monopolistic competition. (Now dominant paradigm in international trade (implicitly of goods but concept also applicable to some services, e.g. airlines (time of each flight)).
- In the monopolistic competition model concentration ratio is extreme, but ex ante, profits are competed away.



#### Competition versus contestability

- Too little attention given.
- Empirical work just measures ex-post persistence.
- Key issue for completion of internal market is contestability in market for corporate control.
- Especially in industries that are considered strategic (e.g. networks (telecom, power), banks).



### Competition in a changing world

- What was key change over last 25 years?
- Globalisation (increased trade, FDI and growth of export markets)? And/Or
- Technology, sources of comparative advantage (e.g. proprietary software) and thus market structure?
- Both, interacting.



### Competition in a changing world - globalisation

- Globalisation is 'pro competitive'.
- Trade flows are now much larger relative to domestic markets.
- Competition on export markets and from imports on EU domestic market has increased.
- Importance of RoW export market has increased relative to domestic EU.
- FDI provides another channel for increasing competition. Third unbundling.



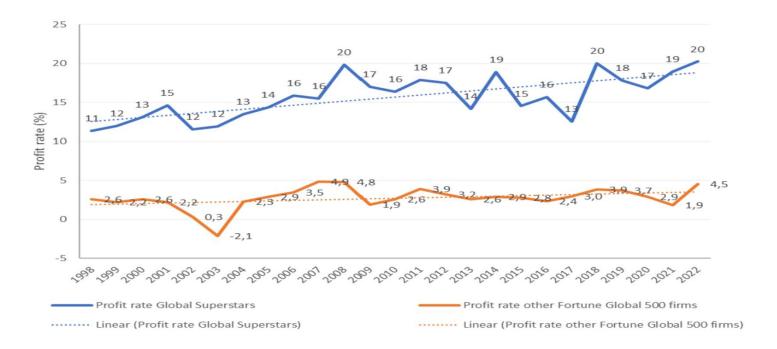
## Competition in a changing world – R&D and proprietary software

- Increased importance of R&D and proprietary software.
- Incentive to invest in R&D and software increases with size of markt (globalisation reinforces trend resulting from technological change)
- => Winner takes most environment, race initially won by most productive firms (good), but later entrenchment might stifle competition (bad).

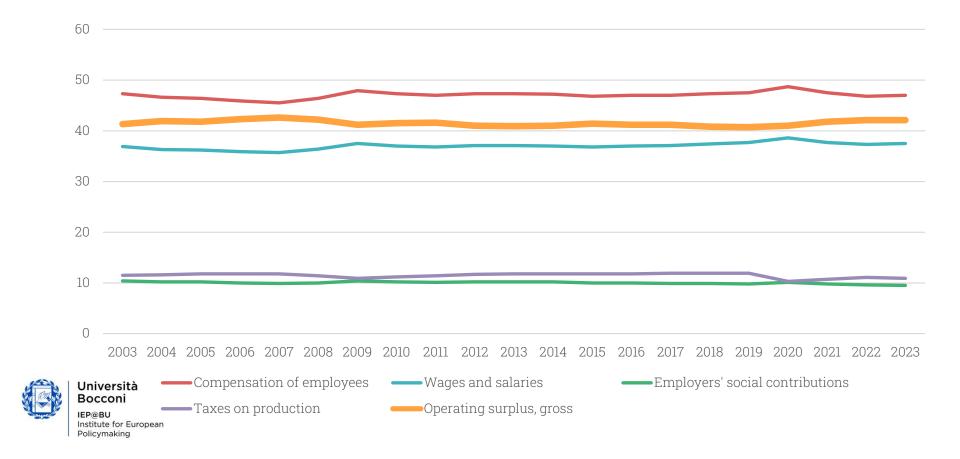


### The rise of global superstars (but few from EU)

Figure 38: Development of average profit rate of Global Superstars vs. other Fortune Global 500 firms



#### But broad income shares rather stable

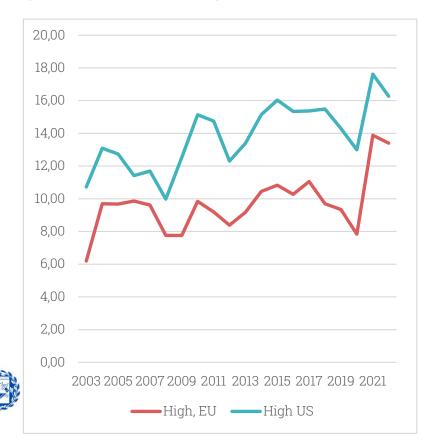


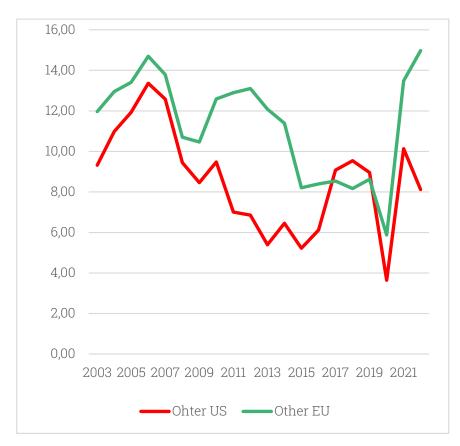
#### Profits have increased(?)

- 1. Micro versus macro and by how much?
- 2. Macro: From 2 to 20 % of GDP (Koltay 2023)?
- 3. But broad income shares roughly constant over last 20 years (wage share not down.
- 4. Net profits = Net operating surplus (= gross minus consumption of fixed capital) minus interest costs.
- 5. => Lower interest costs must explain increase in (net) profits given that gross operating surplus has remained flat.

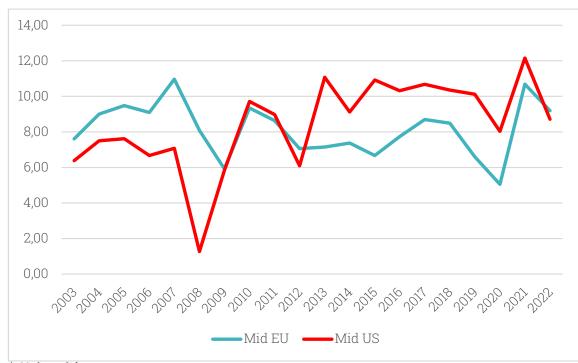


## Evolution of profit rates related to R&D intensity (high-tech up but other (= low tech) down)





## Evolution of profit rates related to R&D intensity: Mid-tech flat (US somewhat higher)





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## Profit rates as an indicator of (lack of) competition

- —'Winner takes most' pattern confirms with high-tech (now) highest and increasing profit rates, but declining for 'other'.
- —But given the importance of low tech, average profit rates not necessarily increasing, as suggested by macro data on profit share (and Fortune 500 not global leaders).



## (Mobile) Telecommunications important case to illustrate importance of competition

- —Textbook case of splintered internal market. Oligopolistic structure in each of the 27 national markets with 3-4 leading competitors => 100 suppliers, little cross border consolidation and little cross-border service.
- —US (and China) also oligopolistic (dominated by 3 incumbents).
- —But investment (per subscribers) twice as high in US(?)
- —Case closed? (Letta and Draghi)



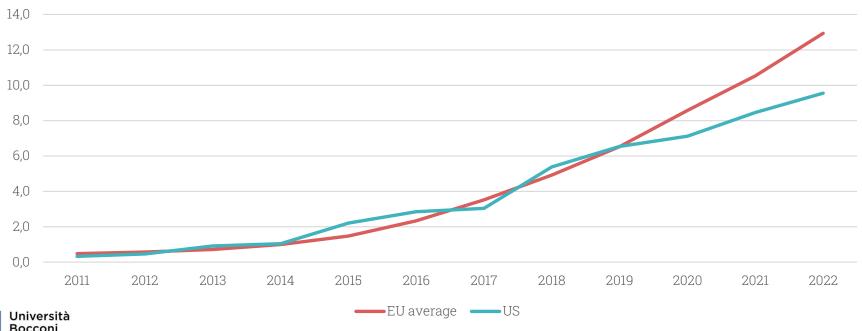
### Nature of (Mobile) Telecommunications sector

- —Economies of scale? Need to expand network along with subscribers (at extensive margin).
- —Mature industry:
- —Almost no R&D spending by Telecom companies (but equipment suppliers do invest and innovate)
- —Revenues/investments stagnate in nominal terms (falling relative to GDP) over last years.



## Higher usage in Europe (=> US investment under-utilized?

Average monthly usage (GB) per subscriber





#### (Mobile) Telecommunications: urban legend?

- —Analysis of 3 dominant US and 5 biggest EU mobile providers does not show superior US performance.
- —EU earlier in G-3, now late in G-5.
- —US firms much larger. If economies of scale important, they should be more efficient.
- —Capex/revenues slightly <u>higher</u> in EU (17 versus 14 %). (Study finds similar results.
- —Profit rates lower in EU (6 versus) %).
- —Capex/subscriber lower in EU because of counting of subscribers (Striversite) period of validity of SIM cards in US)?

#### (Mobile) Telecommunications

- —Prices higher in US (based on cost to consumer per Gbyte sent (or revenues per subscriber)).
- —Usage (GB per subscriber per month) higher in EU than in US.
- —Because splintered or because enforcement of competition rules in each national market?



#### Concluding remarks

- —Competition key for growth and welfare.
- —Strong evidence of 'winner takes most' pattern, reinforced by globalisation.
- —Unclear whether profit rates have increased on average.
- —But EU little present among global winner.

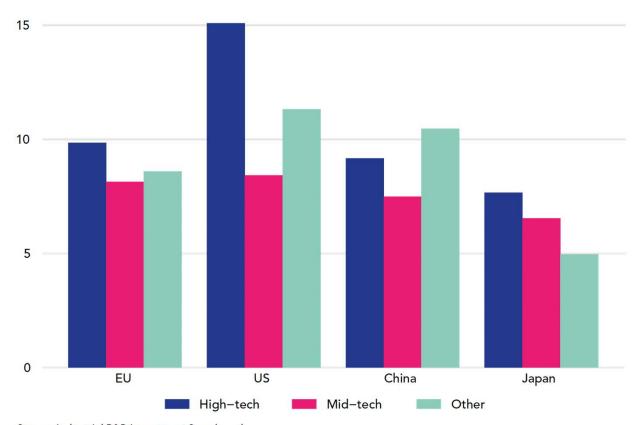


### Supplementary material

- Comparison profit margins
- Time profile mobile penetration



#### Profits margins by technlogy level (% of sales, 2020–2022)



Source: Industrial R&D Investment Scoreboard.

# Europe not behind in mobile telecom penetration

