

Protecting competition in a changing world

Evidence on the evolution of competition in the EU during the past 25 years

Key findings

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Introduction

Objective of the report

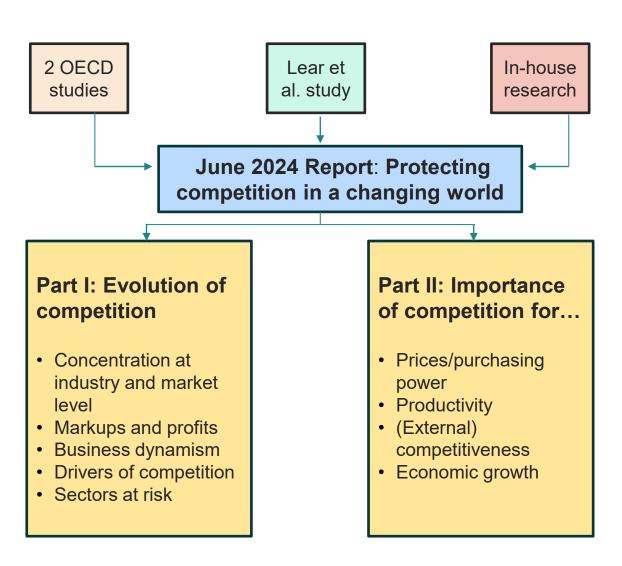
Contribute **economic evidence** on (1) the **evolution** and (2) the **importance of competition** to the policy debates on

- (i) competition policy and
- (ii) EU competitiveness

Background:

- Globally, indications of fundamental changes: concentration, markups and profits, business dynamism
- Changes possibly linked to adverse macroeconomic trends: slow productivity growth, inequality, weak growth, ...
- **Similar research** in other jurisdictions: e.g. Germany, UK, Canada

2022: Research plan and contracting



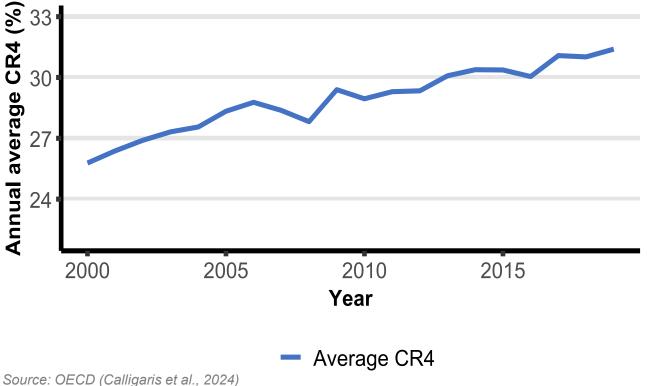
Part I: Evolution of competition in the EU



Industry concentration

- **Average industry CR4** increased by ~5 percentage points between 2000-2019 for a sample of 127 industries* across 15 countries (Fig. 1)
- CR4 increased mostly in already more concentrated sectors with industry CR4s 30%-80%

Figure 1: Industry concentration: CR4 2000-2019, aggregating across geographical 'buckets'



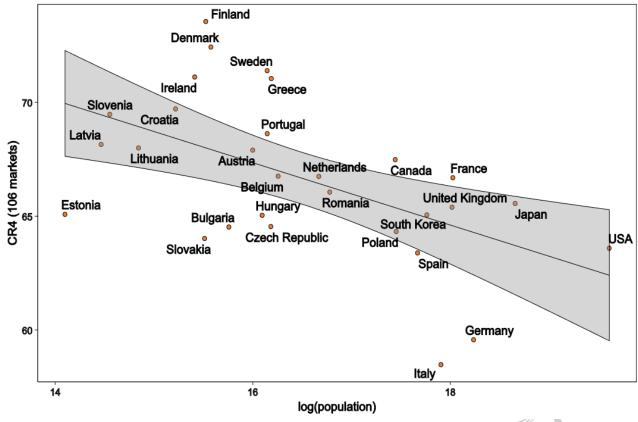


^{*} Defined at the broad NACE 3 level

Market concentration

- EU average CR4 > 60 %: significantly higher than at industry level
- Significant differences
 between countries even
 when controlling for
 population (Fig. 2)
- Concentration highest in markets which matter for poor households: food, energy

Figure 2: The relation between CR4 (106 markets) and country population

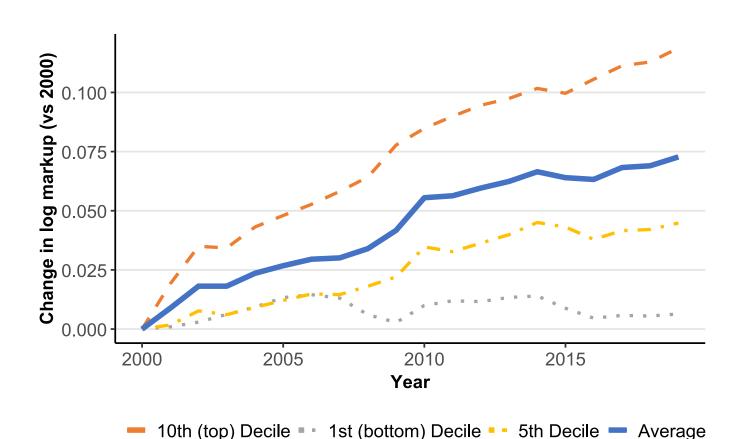




Markups

- Markup =
 - price/marginal cost
 - an indicator of market power
- Average firm-level markups increased by ~7% between 2000 and 2019
- Increase mainly driven by rising markups at the top of the markup distribution: increase of ~12% in top decile (Fig. 3).
- The increases in markups primarily took place in (i) digitally intensive industries and (ii) services

Figure 3: Growth of average firm level markup in different parts of the distribution (2000-2019)



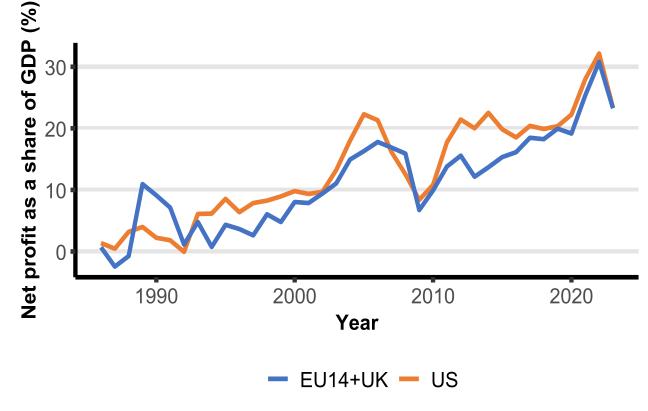
European

Source: OECD (Calligaris et al., 2024)

Profits

- The net profit share of GDP increased from ~2% to more than 20% between 1986 and 2023 in 15 European countries (Fig. 10)
- Profit rates of the 50 most profitable large global firms ('Global superstars') increased from ~11% to ~20% between 1998 and 2022
- Markups and profits are positively correlated suggesting that the rise of markups is not just driven by change in cost structures

Figure 4: Evolution of the net profit share of GDP EU vs. US



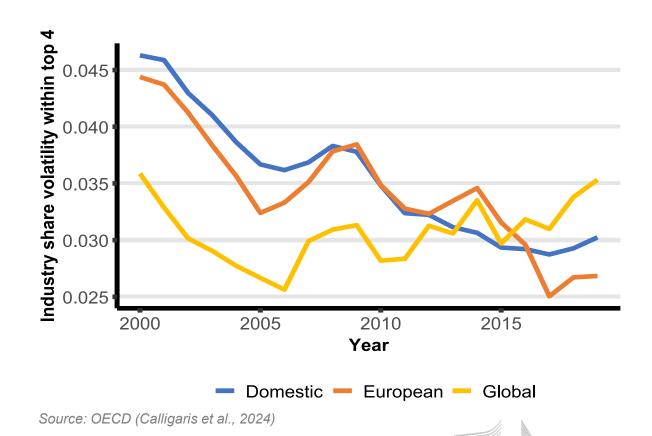
Source: Koltay et al. (2023), updated



Business dynamism

- Less disruption amongst leaders (fig. 5)
- Growing gap between leaders and followers as regards markups, profits and productivity growth:
 - less diffusion of innovation and productivity improvements
 - increasingly a 'two-speeds' economy
- Less entry and exit of firms

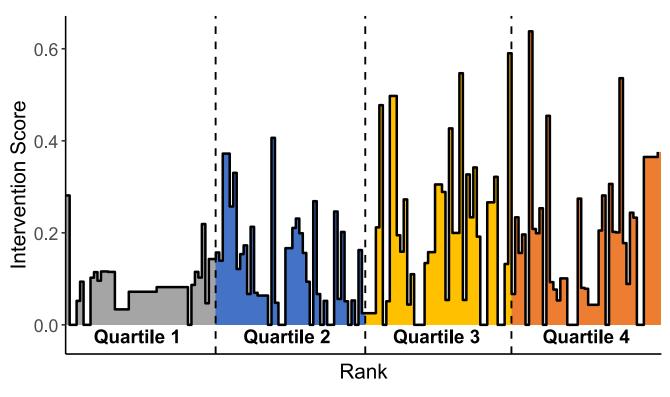
Figure 5: Industry share volatility across geographical buckets (2000-2019)



Sector competition risk vs. enforcement

- Ranking of 127 industry sectors according to their competition risk
- Sectors with high competition risk include e.g.:
 - Manufacture and distribution of gas (#127)
 - Telecommunications (#126)
 - Manufacture of air and spacecraft (#119)
- EU competition interventions in merger control (Fig. 6) and antitrust are more frequent in sectors with higher competition risks

Figure 6: Merger intervention score by sector rank



Source: DG. Comp, OECD (Abele et al., 2024)



Main drivers and balance of effects

Technological change (software) + other intangibles (patens, brands)		
Globalisation	~	
Regulatory barriers to entry	\ ?	
Rise of M&A/ underenforcement	√ ?	

- 1. Largely structural changes over the past 25 years => both benign (efficiencies) and adverse (concentration, market power, barriers) effects on competition
- **2. Sector heterogeneity** as regards direction and mix of drivers
- 3. On balance and on average, competition in the EU today is likely **weaker** and market power more **pronounced than in the past**
- 4. The observed changes in the nature and intensity of competition may have contributed to (i) lower **business dynamism**, (ii) slower **productivity growth**, (iii) decline of **labour share**, (iv) lower **resilience** to shocks



Part II: Importance of competition



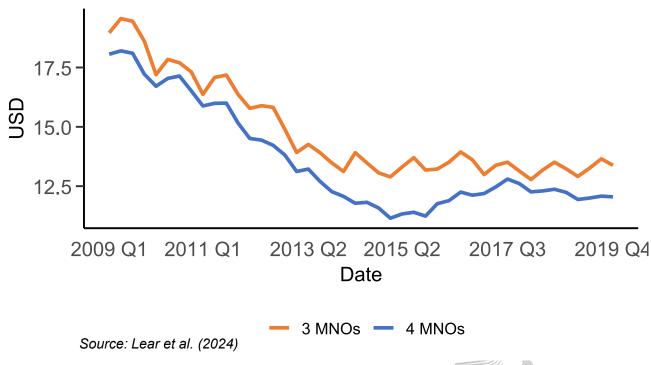
Impact of competition on prices: new price-concentration study

For **mobile telecoms** and **airlines** markets:

- Empirical evidence that higher concentration levels are associated with higher prices (Fig. 7)
- EU prices significantly lower than in the US

For **mobile telecoms** higher **concentration** levels were **not** associated with higher **investments**

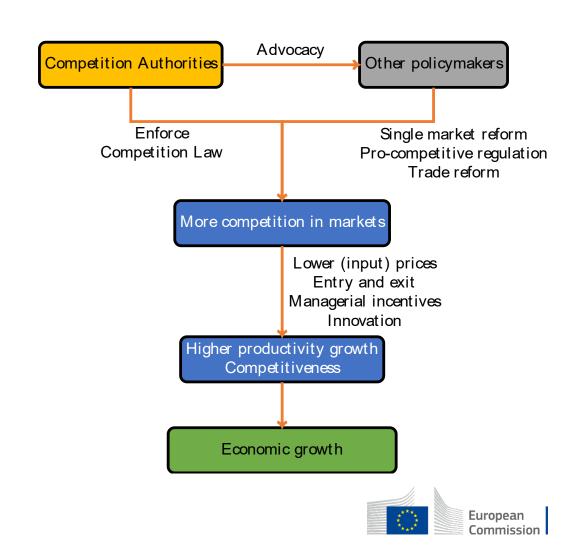
Figure 7: Evolution of ARPU (average revenue per unit/user) in European countries based on the number of MNOs (mobile network operators).





Competition: a fundamental driver of competitiveness and growth

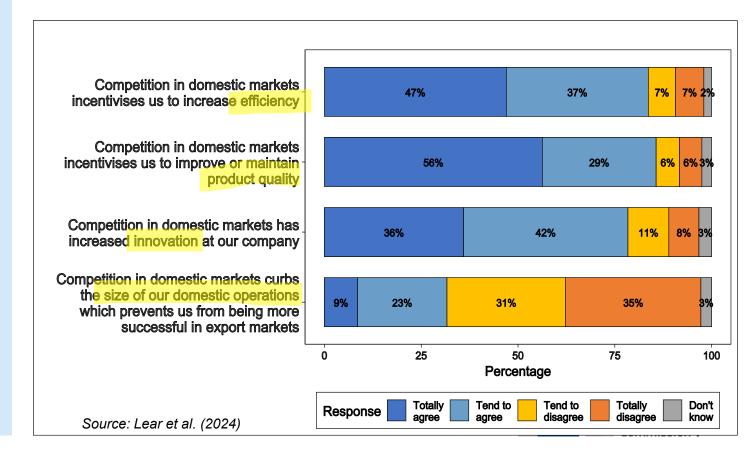
- Strong + consistent economic evidence: effective competition lowers prices and strengthens productivity growth at sector level
- Effective competition ...
 - 1. ...forces firms to be more **efficient**
 - 2. ... (re-)allocates shares to more efficient firms; drives entry and exit
 - 3. ... forces firms to **invest** and **innovate**
- Productivity growth across sectors is the main driver of an economy's competitiveness and long term economic growth



Impact of competition on competitiveness: new survey of EU exporting firms

- Large majority of respondents confirms importance of domestic competition in input markets (goods and services)
- Large majority of respondents confirms importance of domestic competition in exporting firms' own markets (Fig. 8 first three lines)
- A majority of respondents disagrees that competition curbs the size of their domestic operations hindering success on export markets (Fig. 8 last line)

Figure 8: Impact of domestic competition in exporting firms' own markets



Impact of competition on growth: new macroeconomic simulation study

Study on the **macroeconomic effects** of competition: simulations of three hypothetical scenarios relying on an established macroeconomic model

- Backward-looking simulation: the increase in markups observed in the EU since 2000 may have reduced EU GDP by up to 5-7% compared to the counterfactual. Without the Commission's merger and antitrust interventions this impact might have been larger by almost one quarter
- Two forward-looking simulations: (1) measures limiting the market power of firms at the top of the markup distribution ("trimming scenario") or (2) procompetitive reforms across the EU ("convergence scenario") might each increase GDP by up to 2-4 %, depending on the time horizon



Thank you



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