### PRODUCTIVITY AND BUSINESS DYNAMICS THROUGH THE LENS OF COVID-19: THE SHOCK, RISKS AND OPPORTUNITIES

Chiara Criscuolo, OECD 29 September 2021, ECB Forum on Central Banking



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# COVID-19, Productivity and business dynamics





# Sectoral Productivity Pecking Order in the strength of the shock

Change in hours worked relative to previous (half) year by major sectors of economic activity



#### **Productivity enhancing** reallocation:

- Low productivity sectors cut hours relatively more
- Very different from GFC

#### Challenges:

- Increase in productivity (+1.5%) but destruction in output (-6.3%)
- Long-term? cyclical vs structural (e.g. change in consumers' behaviour)
- Short to medium term: high costs & frictions cross-sectoral reallocation



### **Unexpected Decline in Bankruptcies**







Sizeable support measures in place
Regulatory measures that delayed bankruptcies

### Heterogeneous Recovery in Entry



## Reallocation: Productivity-enhancing or sullying?

- Reallocation during the GFC has been less cleansing than in previous crises
- During COVID-19, reallocation slowed down:
  - Regulation +support: job matches were preserved
- Two mechanisms may potentially weaken the cleansing effect of the subdued exit:
  - Sectoral shock: weakened negative correlation between exit and productivity
  - support measures stifling the reallocation process
- Until now: reallocation although slower (delayed?) has not been distortive
- Risk of zombification?
  - Trade-offs when exiting or adapting support measures: protection vs distortion



# Adoption and Reorganisation during Crises

- Virtue of crises: lower firms' opportunity costs to reorganise and innovate
- COVID quasi-natural experiment:
  - Firms forced to adjust the way they produce, are organized (telework), and engage with their customers (shift in demand: e.g. from offline to online)
- Use of "potential capital":
  - Source of resilience (estimated to contribute roughly 10 percent of GDP on average)



- Source of resilience
- Savings due to lower commuting costs
- Stigma of telework broken and expectations of hybrid mode of working
- Link with productivity *a priori* ambiguous:
  - Worker-level efficiency depends on telework intensity; Firm-level efficiency additionally depends on coordination and in the long-term, impact on knowledge-sharing is crucial
- Potential risks:
  - In the long term, lower innovation both within firm and across firms (loss of agglomeration externalities)
  - Increased inequalities
  - Changes in role of cities, real estate prices etc.

#### Digital Adoption: Opportunities, Complementarities and Risks

- Shock pushed fast adoption of digital technologies:
  - After initial drop in output due to adjustments, increase firm productivity
    - Increased catch-up of SMEs, lower prod. Dispersion and lower inequality
  - Heterogeneous adoption patterns:
    - Larger, more digital and more productive firms more likely to adopt (multiple and more advanced) technologies.
  - Importance of complementary (intangible) assets
  - Intangibles: scalability, sunkenness, synergies, non-rivalry, non-excludability
  - Risks:
    - Perpetuate (if not increase) <u>dispersion in performance</u> observed pre-crisis
    - Increase in wage inequality
    - Increase in mark-ups and concentration ["market power"?]

# Mark-ups have increased - especially for top digital firms

Average mark-up trends: high- vs low-digital

Mark-up trends for firms at the top of the distribution: high vs low-digital





#### Concentration (share of sales Top 8) has increased in the last decade

#### Trends in share of M&A activity (in values)



# Will Concentration increase? A look at M&A Dynamics

	(1)	(2)	(3)
	Log Value of M&A deals		
Lagged concentration	0.122***	0.081**	0.081**
	(0.043)	(0.040)	(0.040)
Тор 8		1.949***	1.740***
		(0.102)	(0.120)
Top8 x Digital			0.447***
			(0.175)
<i>Observations</i>	28145	28145	28145
Pseudo R-Square	0.122	0.155	0.156
Country and Sector and Year FE	YES	YES	YES
Num. Countries	12	12	12



#### Structural Policy: a strategic Ally to Monetary and Fiscal Policies for a Green, Digital and Inclusive Recovery

- 1. Fostering digital diffusion and sectoral reallocation:
  - Policies that facilitate labour mobility and provide workers with the necessary skills (e.g. digital)
  - Digital infrastructure
  - Support complementary investment in intangible assets
- 2. Enabling entry, exit and growth of innovative firms
  - New opportunities: e.g. new business models, green and digital/remote
  - Reduce red tape and regulatory uncertainty and level the playing field
  - Support experimentation and growth, and improve the efficiency of liquidation procedures and of judicial systems
- 3. Maintaining a competitive environment

### THANK YOU

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# Investment in intangibles was more resilient that investment in tangibles

