

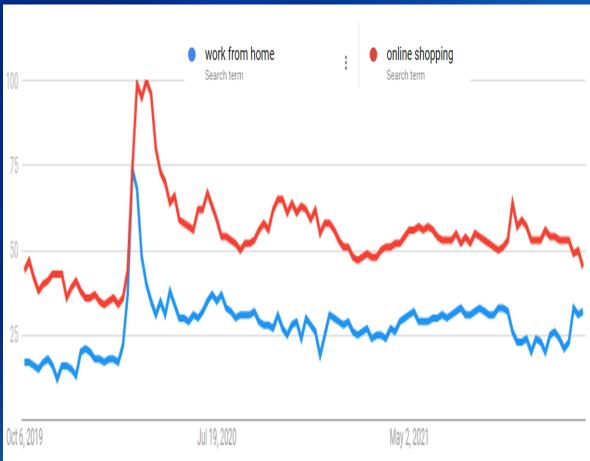
Outline

"Digital explosion"

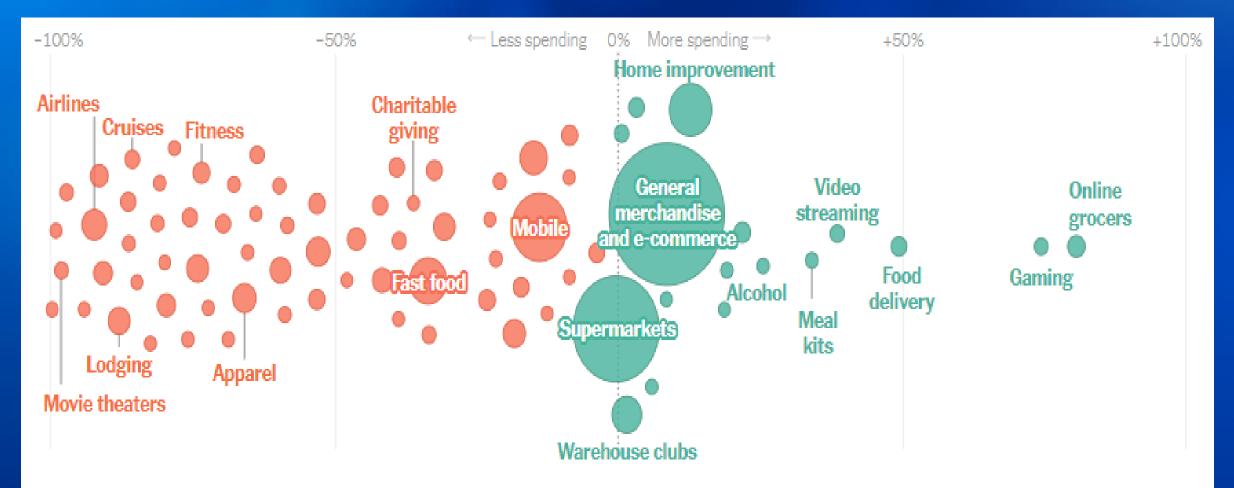
- 2 Emerging digital divide
- 3 Understanding what are the drivers
 - 4 Policy implications

"Digital" explosion



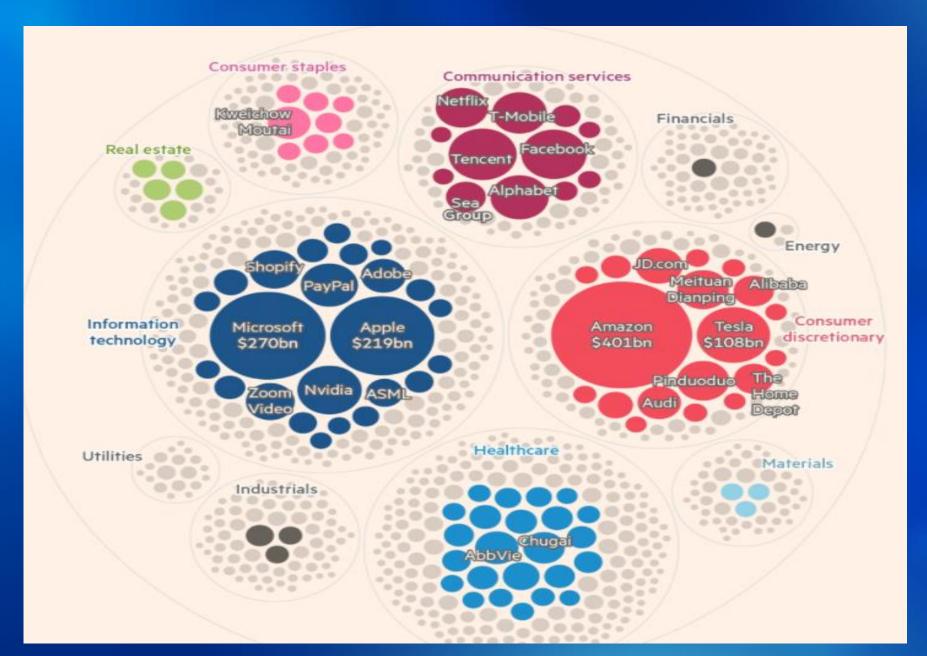


With strong distributional effects across sectors...

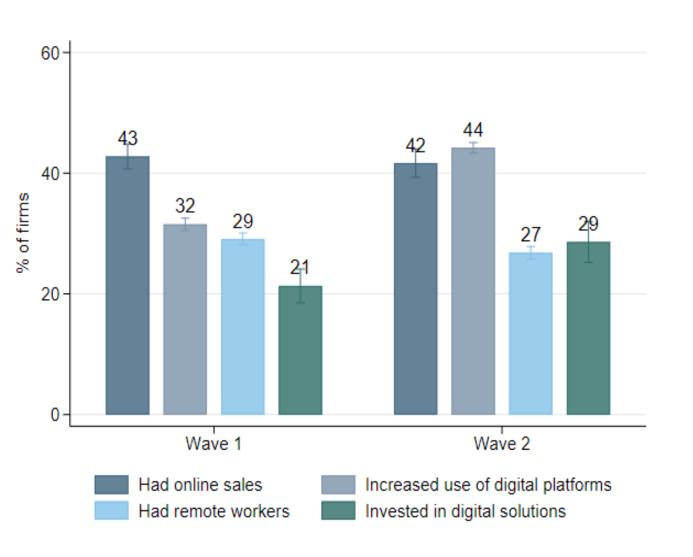


Change in spending from 2019 for the week ending April 1. Bubbles are sized by industry sales.

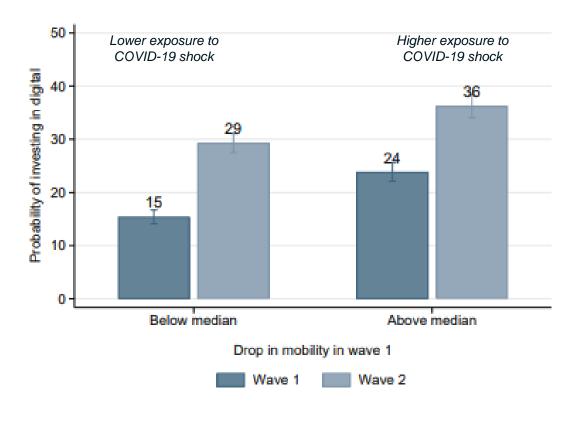
...and across firms



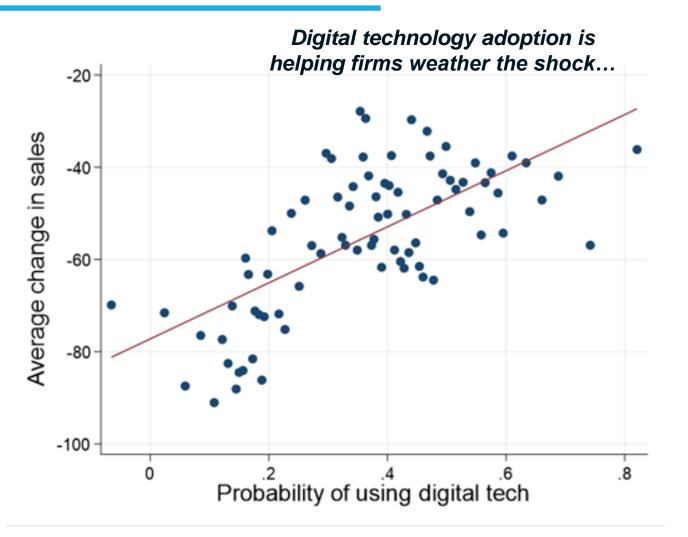
During COVID we observed an unprecedented wave of digitalization...clearly correlated with intensity of the shock



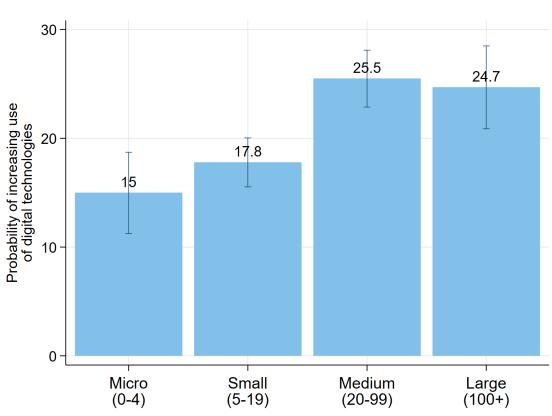
(b) Investment in digital solutions



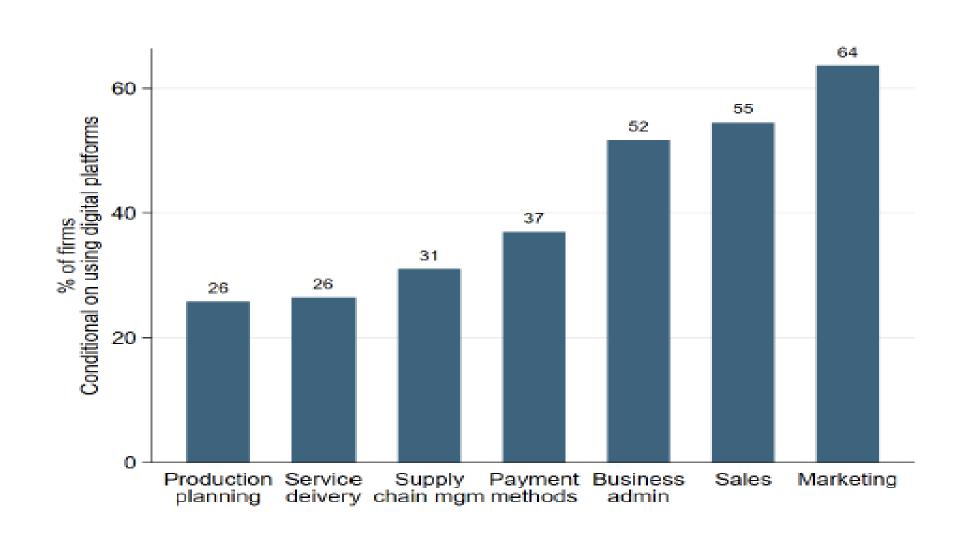
Digital technology could be a silver lining...but risks of a growing digital divide between smaller and larger firms



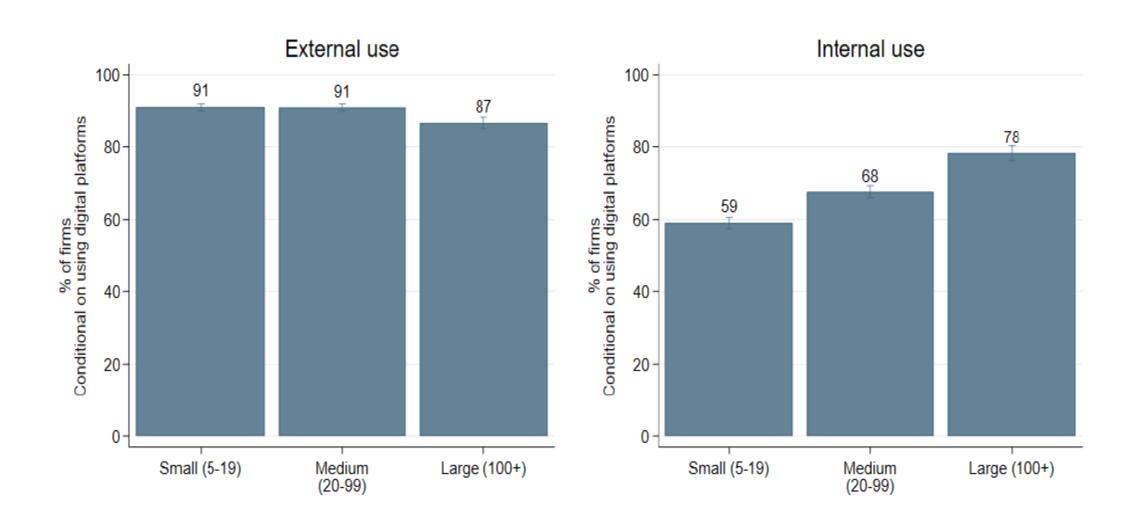
Smaller firms are much less likely to



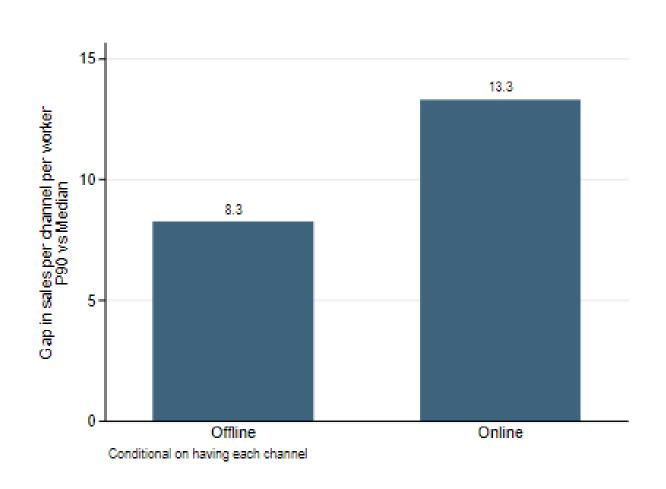
Firms seem to be focusing on the "low hanging fruits" of digital adoption...potential limited impact on productivity



Smaller firms focused on "low hanging fruits" and risks of productivity-less recovery



Confirming fears of emerging digital divide the "online" world is significantly more unequal than the "offline" world

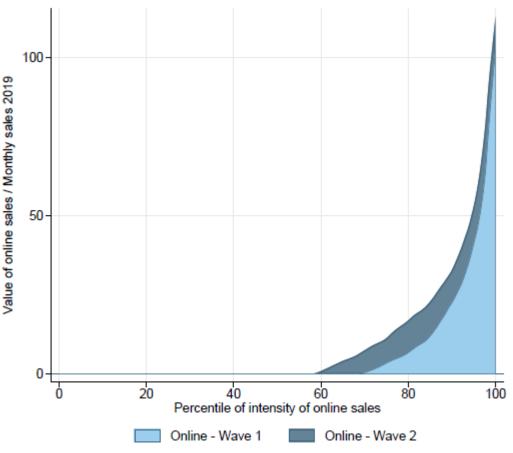


And concentration of online sales not only is high but has been growing during the COVID-19 crisis

Increase in the share of online sales over total sales

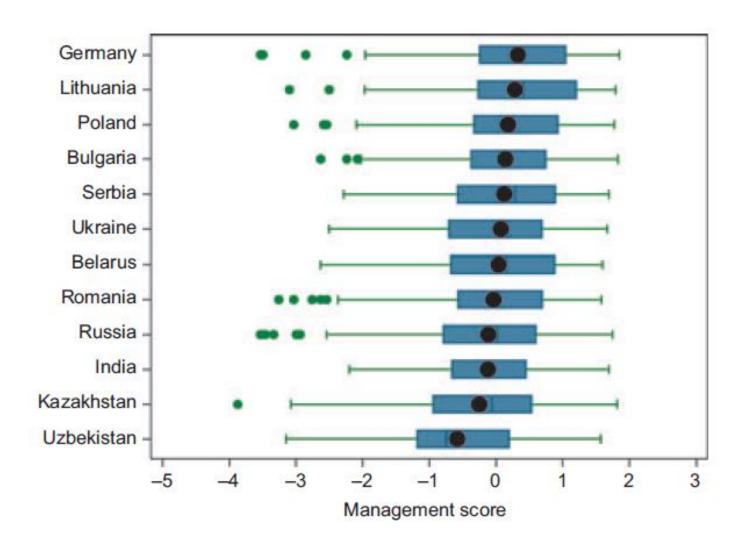
Share of online sales within the firm increased by
3.5 between waves

 Increase is higher for firms with larger share of online sales in wave 1



What could be driving this digital divide and limiting technology adoption?

Driver 1: Management and organization



Economics of Transition

Economics of Transition Volume 20(4) 2012, 593–635 DOI: 10.1111/j.1468-0351.2012.00444.x

The land that lean manufacturing forgot?

Management practices in transition countries¹

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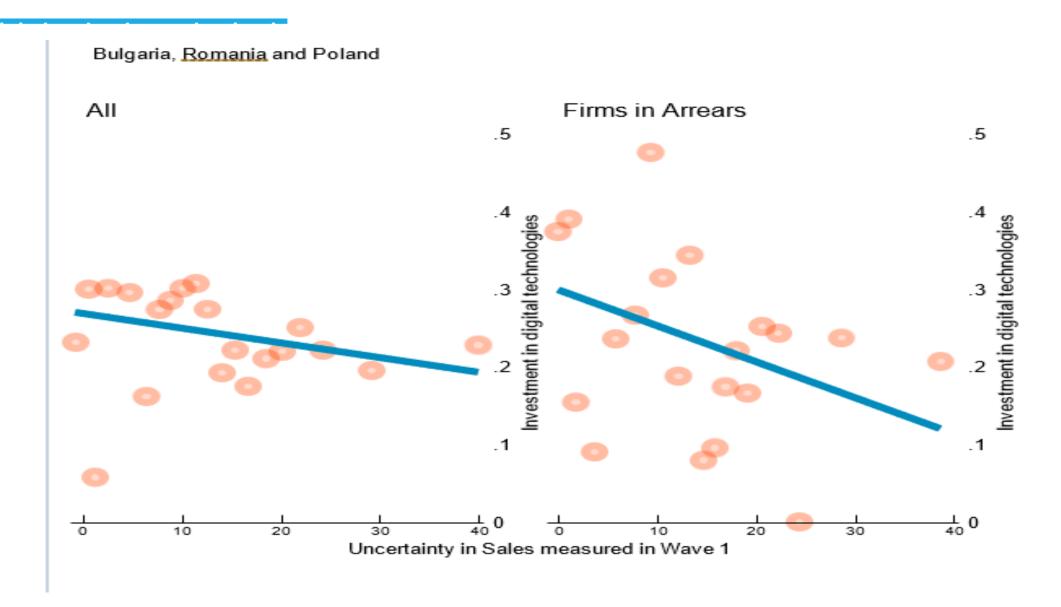
Abstract

We have conducted the first large-scale survey on management practices in transition countries. We found that Central Asian transition countries, such as Uzbekistan and Kazakhstan, have on average very poor management practices. Their average scores are below developing countries such as India. In contrast, the Central European transition countries such as Poland and Lithuania operate with management practices that are only moderately worse than those of Western European countries such as Germany. As we find these practices are strongly linked to firm performance, this suggests that poor management practices may be impeding the development of Central Asian transition countries. We find that competition, multinational ownership, private ownership and

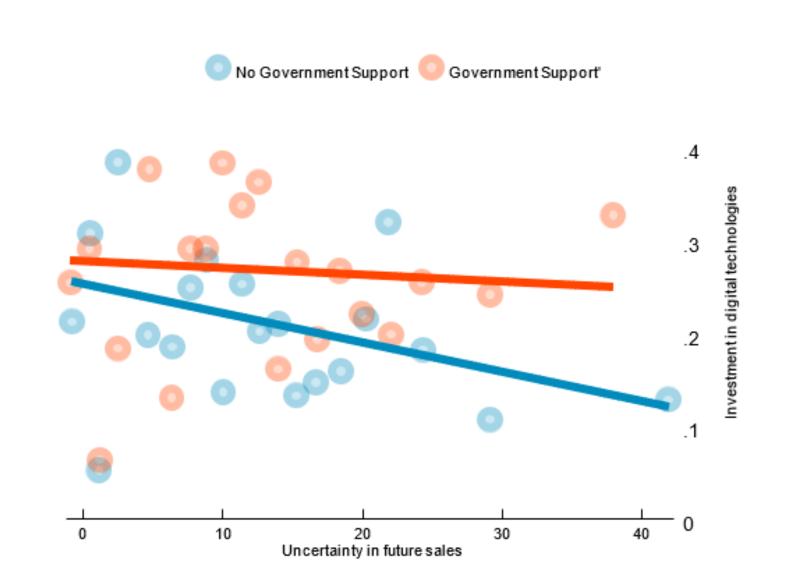
Driver 2:

	Using	Using digital technologies			Having remote workers		
	(1)	(2)	(3)	(4)	(5)	(6)	
Having own website	0.100***	0.100***	0.094***	0.024**	0.024**	0.018*	
	(0.012)	(0.012)	(0.011)	(0.010)	(0.010)	(0.010)	
Spending on RD	0.033*	0.034*	0.029	0.082***	0.082***	0.078***	

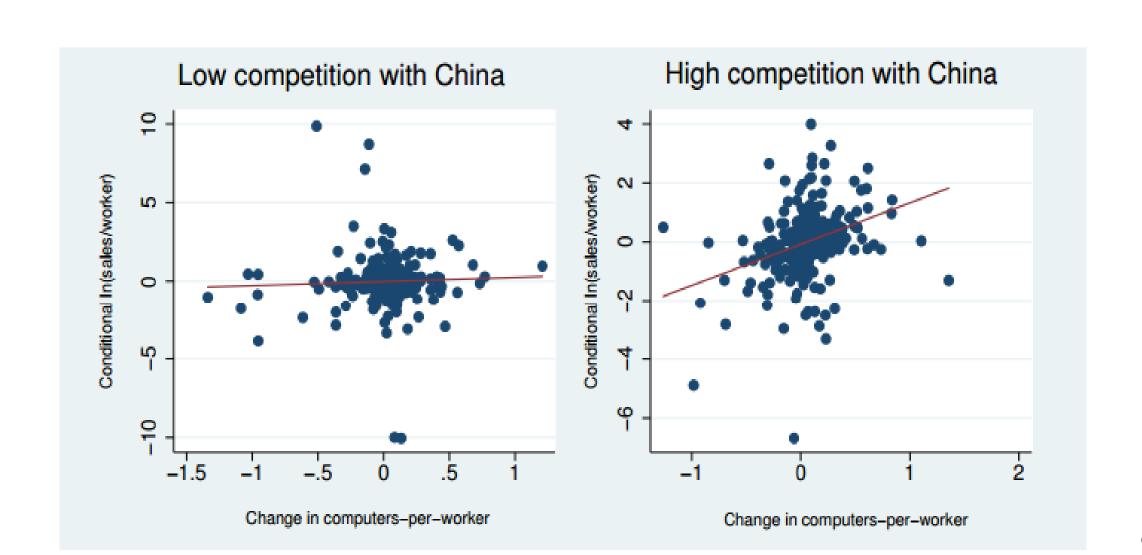
Driver 2: Uncertainty and financial problems...but Government can help



Driver 2B: ...but Government can help



Driver 3: Incentives and market integration



Conclusions and policy recommendations

- 1. COVID-19 shock was widespread and severe but it also led to an accelerated process of (digital) technology adoption BUT
 - The adoption still is limited with many firms...smaller especially...potentially being left behind
 - ii. Adoption seems focused on "low hanging fruits" and may not lead to productivity driven recovery
- 2. Key challenge: How to deepen technology adoption to promote an inclusive and productivity driven recovery?
 - i. Lower uncertainty
 - ii. Expand and support access to finance
 - iii. Support improvement in management and organization
 - iv. Deepen integration and support contestable markets



Find more research in this area <u>here</u>













