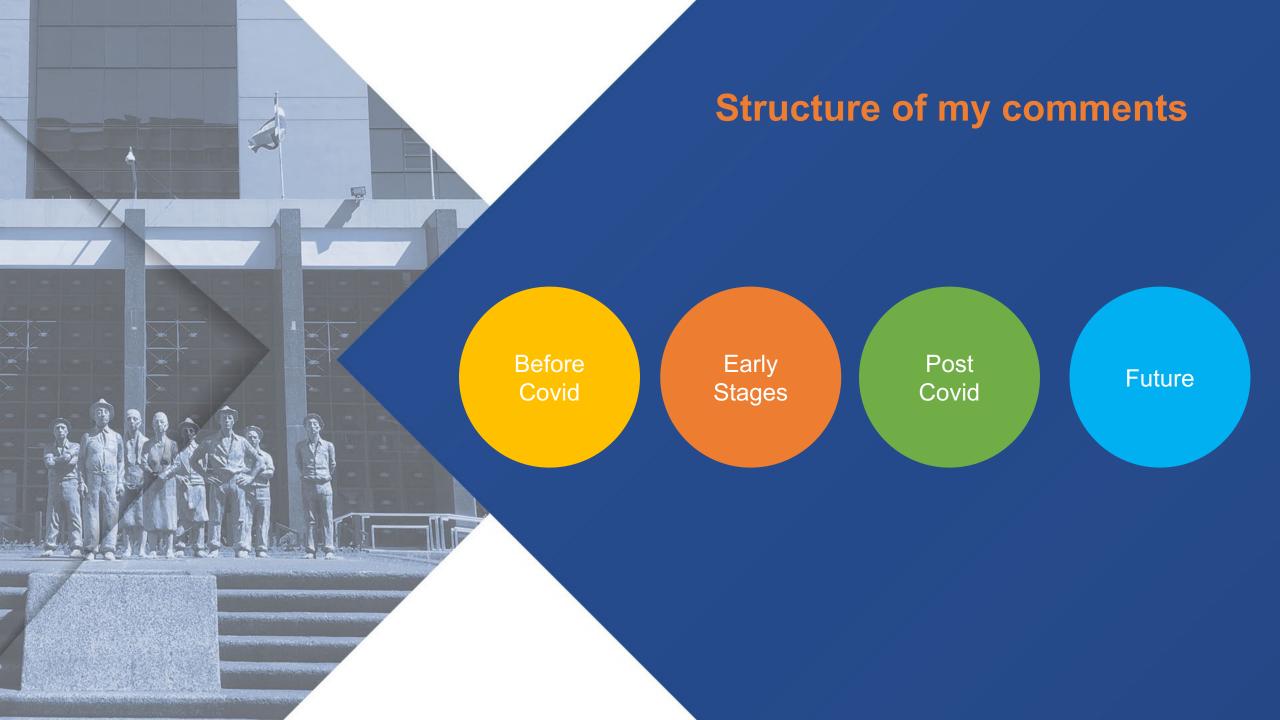
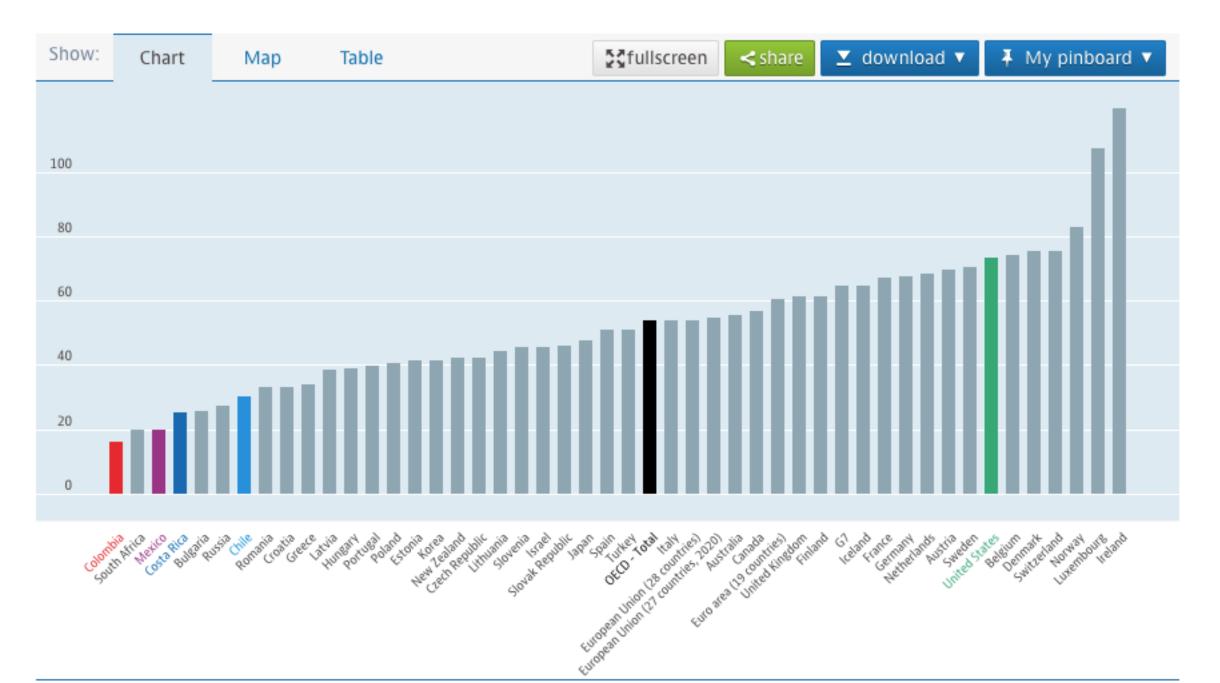


Productivity in the post-COVID world: upgrading human capital and adapting to telewok

Alonso Alfaro Ureña Banco Central de Costa Rica June 24th, 2022











- LAC countries have been lagging in productivity vs OECD countries.
- Very low levels... but improving. This is a hopeful message, but still a long way to go.
- Crucial: structure of the economy.
 Economies that have transitioned to a higher share of knowledge intensive sectors are more likely to reap benefits from telework.



Value added by activity Agriculture, forestry, fishing, % of value added, 2005 - 2021

Source: National Accounts at a Glance

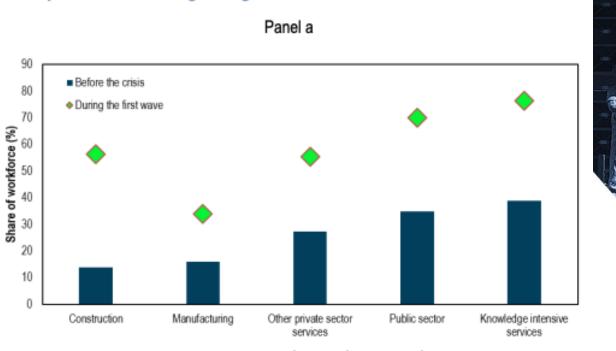


Which tasks can be subject to telework?

It is clear that not all tasks can be subject to telework arrangements.

This was clear even before the pandemic, and some of the first waves were more related to occupations and economic activities that cannot be done remotely. Related to: inequality.

Figure 3. The adoption of teleworking arrangements across sectors

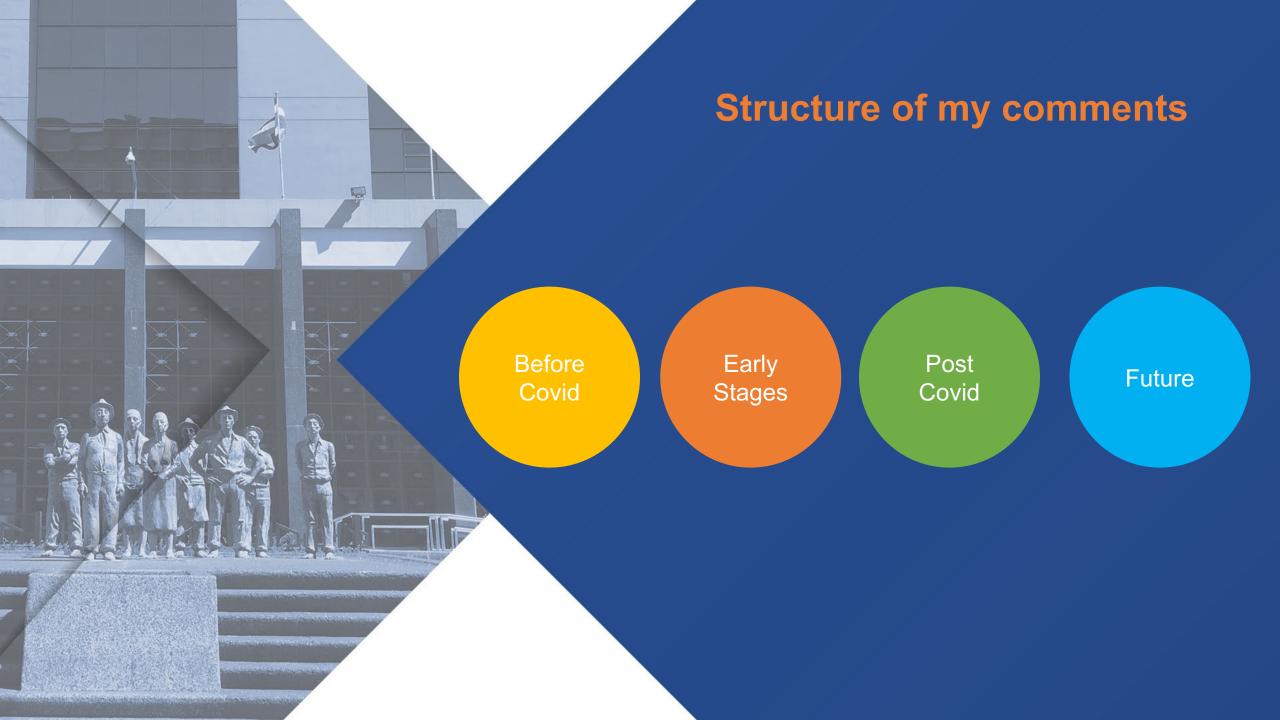




What evidence do we have?

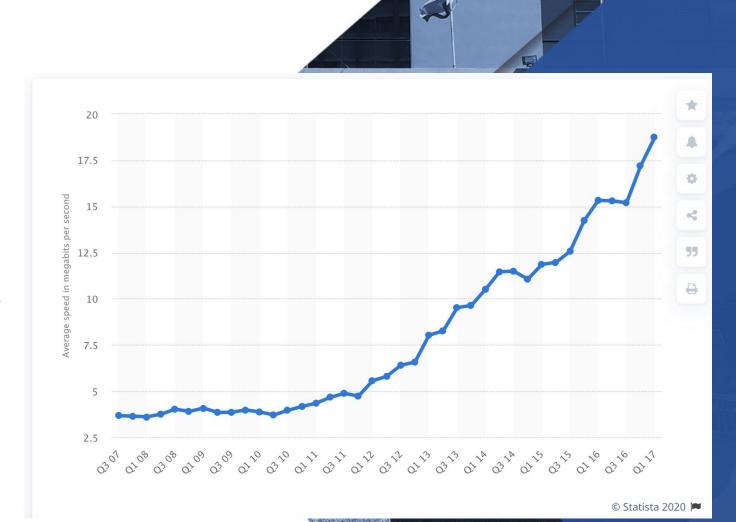
- Growing evidence on productivity benefits of telework. Particularly Bloom et. al (2014).
- The main takeaway is that choice is fundamental in achieving productivity gains.
 - Not all households are the same.
 Not all personalities are the same.
- There are also benefits from fase to fase interaction.
 - Recent working paper by Atkin, Chen and Popov (2022) show that face-to-fase interactions have substantial returns to knowledge diffusion, at least in the context of Sillicon Valley.





Early Stages

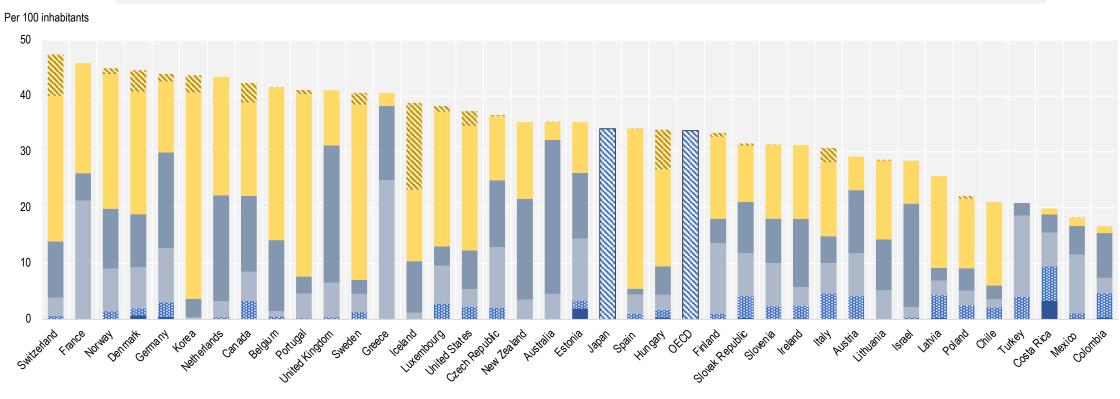
- One of the largest economic shocks in modern history. Immediate shift of firms to WFH.
- Impact on household dynamics, enormous impact on education.
 - What could have happened if shock was 10 years prior.
 - Average internet connection speed in the United States from 2007 to 2017 (in Mbps), by quarter
 - https://www.statista.com/statistics/6 16210/average-internetconnection-speed-in-the-us/



OECD Broadband statistics [www.oecd.org/sti/broadband/broadband-statistics]

2.1. Fixed broadband subscriptions per 100 inhabitants, per speed tiers, June 2021

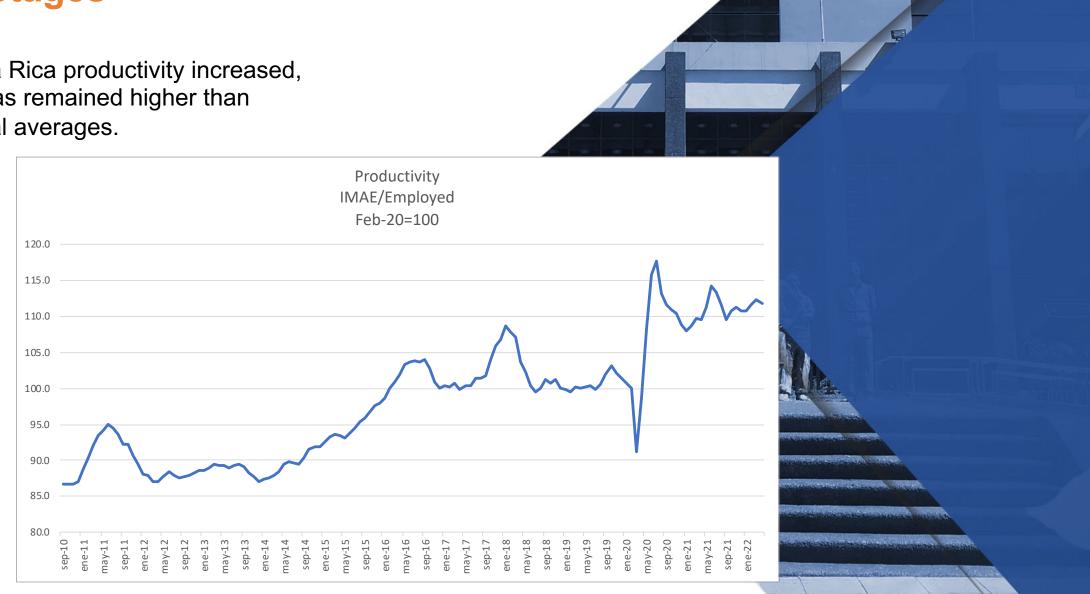


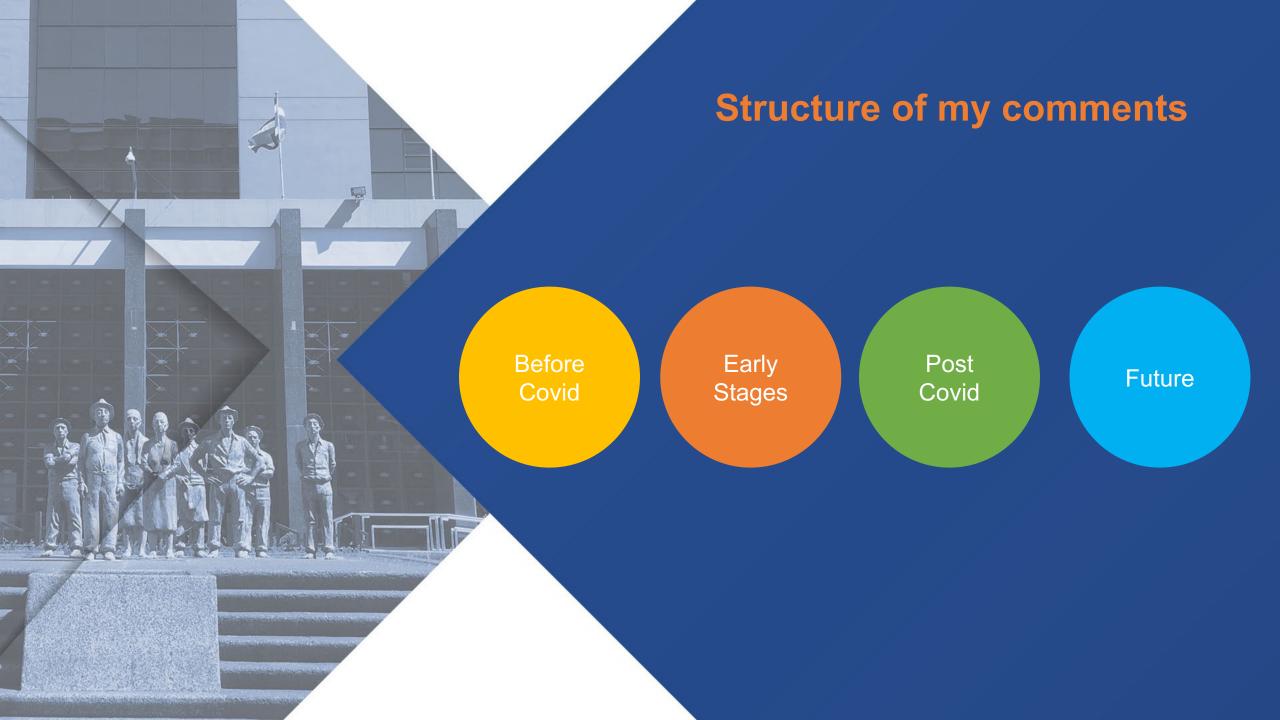


Notes:						
Denmark: Data are temporary OECD estimates						
Switzerland: Data are preliminary						
Based on 2020 speed tiers.						
Source: OECD, Broadband Portal, www.oecd.org/sti/broadband/oecdbroadbandportal.htm						
Information on data for Israel:	http://oe.cd/israel-disclaimer					

Early Stages

In Costa Rica productivity increased, and it has remained higher than historical averages.





Post – Covid What evidence do we have?

- MNCs that locate in developing countries are significantly more productive than domestic firms, and can increase the productivity of the firms in their value chains (Alfaro-Urena, Manelici, Vasquez, 2022).
- Skilled and scarce workers gain a lot from the presence of these firms, and their wages have a premium whenever they become employed by an MNC.
- The potential gains from MNC presence could be hindered by slower FDI. OECD has documented that greenfield investment is well above pre-covid levels in advanced economies, but remains weak in emerging and developing economies. Again... Inequality



Post - Covid What evidence do we have?

Show:

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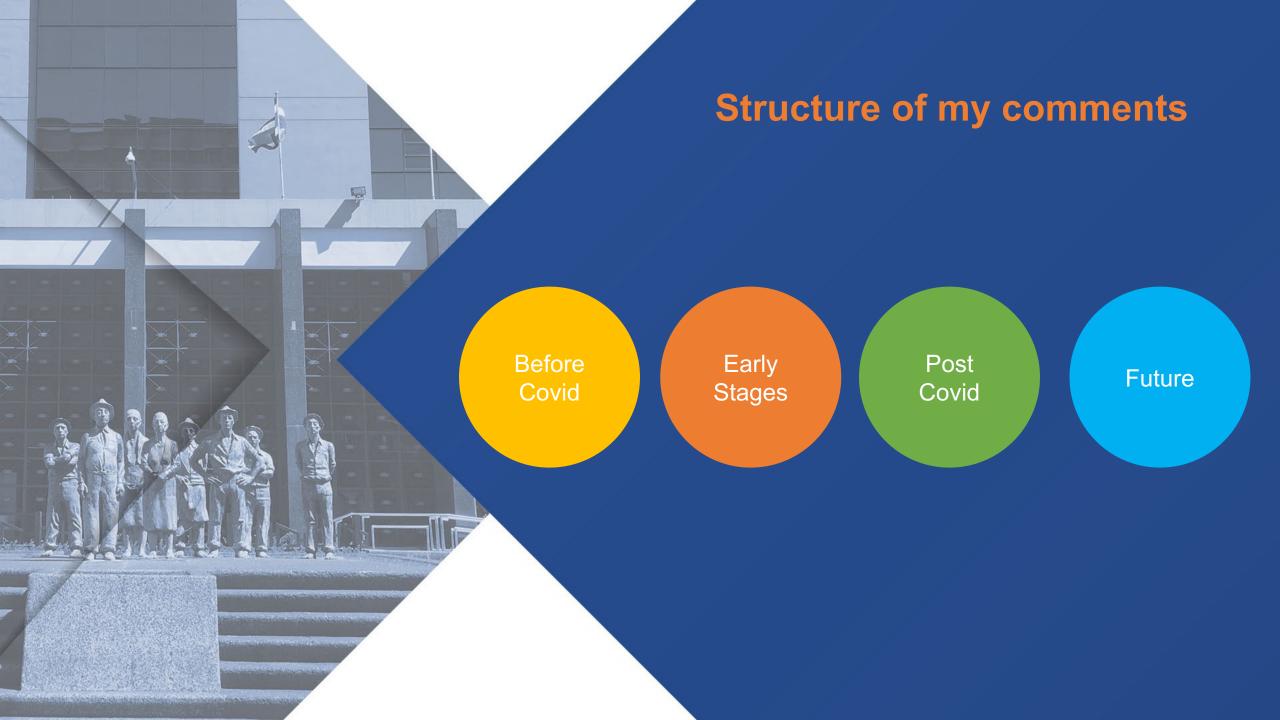
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Chart

- Not all firms, particularly managers, are excited about telework.
 - Some firms have shut down offices, others are pushing hard to office work.
- This has the potential to erase gains in productivity. Particularly harmful in countries where the number of work hous seem to be important.





Future

- We have to aim for higher productivity and greater work-life balance.
- Occupations and economic activities that are more likely to be subject to telework are les likely to be important in LatAm countries.
- Even so, we run the risk of foregoing potential gains because of cultural differences vs higher income countries.
- We need to push for higher growth, greater productivity, greater work-life balance.





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