

THE ROLE OF LARGE MNCS IN BUILDING COMPETITIVE METROPOLITAN AREAS: COMMENTS

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Better data relevant to policy

- Congratulations on creating a very valuable database!
- Impressive dataset to query many interesting questions:
 - rich data from patents that are granular with location information of inventors
 - Use of metropolitan areas (MA) rather than EC-OECD functional urban areas (-> note global expansion: https://www.oecd.org/regional/regional-statistics/)
 - disentangling complex MNC activities that are not straightforward
- Interested in seeing more analysis on factors driving this concentration & its benefits for innovation

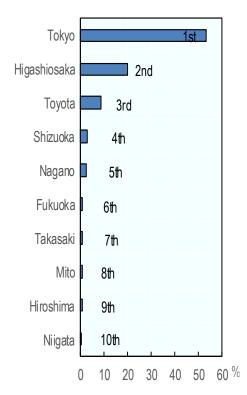


Patenting activity is highly concentrated

• One or two cities generally account for a large share of overall patenting with a gap to the next city in the ranking (e.g. San Francisco in the USA, London in the UK, Paris in France, Tokyo in Japan)

Ranking and share of top 10 cities in patent applications, USA and Japan, 2014





Source: Paunov, C., et al. (2019), « On the concentration of innovation in top cities in the digital age », *OECD Science, Technology and Industry Policy Papers*, n° 85, https://doi.org/10.1787/f184732a-



Winner-take-all dynamics

'Superstars' phenomenon reinforces concentration (across regions, firms, universities, researchers...)



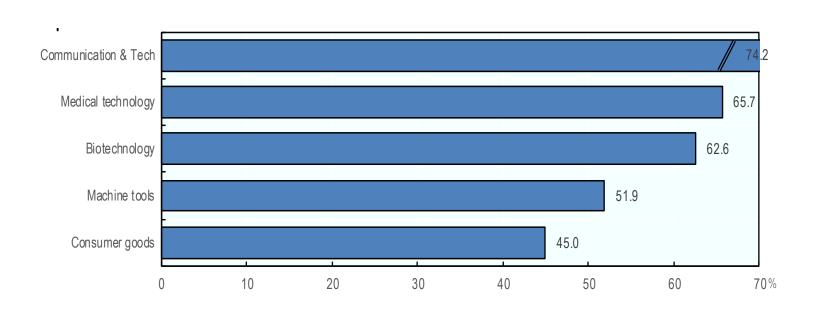
Widening gap between "the best" and "the rest"





Digital technology patents are more concentrated geographically than other tech fields...

Share of the top 10% of cities by patent application technology, average for 1995-2014





What will be the impacts of COVID-19?



1. Massive experimentation in WFH and city dynamics?

2. Massive increase in demand for digital tech services while many other sectors were hit









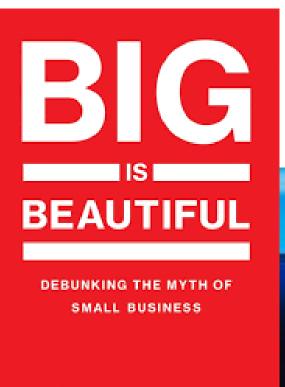




Source: Paunov and Planes-Satorra (forthcoming), What future for science, technology and innovation after COVID-19?, OECD STI Working Paper & Paunov and Planes-Satorra (forthcoming), Science, technology and innovation during the first wave of COVID-19: Contributions, impacts and policy responses, OECD STI Working Paper



Maybe a bit early for policy conclusions



ROBERT D. ATKINSON AND MICHAEL LIND

Patents do not reflect inventive activities

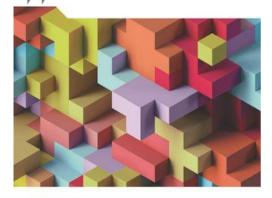




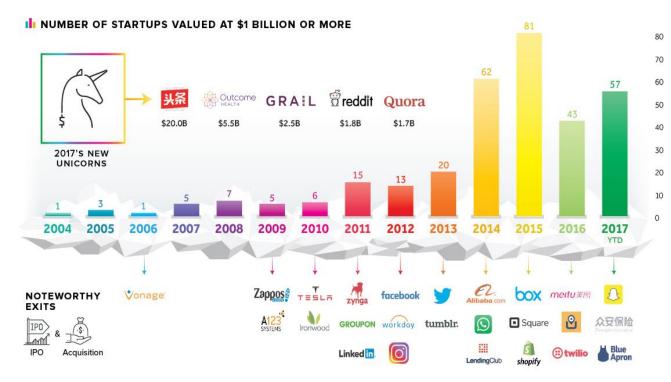
Maybe a bit early for policy conclusions

- Patents do not reflect inventive activities
- STI system plays complex and important roles in generating innovation (start-ups! & universities)











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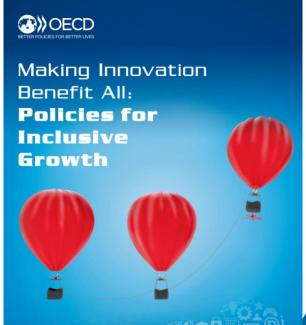
DEVELOPMENTOECD SCIENCE, TECHNOLOGY

Maybe a bit early for policy conclusions



- STI system plays complex and important roles in generating innovation (start-ups! & universities)
- STI policy to support systems transformations, address market failures (-> challenge of winner-take-all dynamics) & build inclusiveness incl. territorial inclusiveness







MNCs, concentration and resilience?



OECD virtual workshop 9 December 2020 | oe.cd/tip-resilience1



