



### World Trade Report 2020:

Government policies to promote innovation in the digital age

## **Starting point**



- For over a decade, more than 105 countries adopted new kinds of policies, labeled "New industrial policies", "Industry 4.0", "digital development plans", etc.
- The focus of these policies is on technological upgrading, digitalization of production, supporting innovation and the transition to a more digital economy

#### Questions



- What has changed with the digital economy?
- What are the policy implications of such changes at the national level?
- What is the role of trade and the WTO?

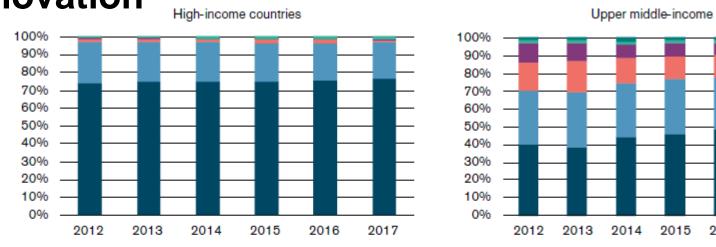
### **Key Issues**

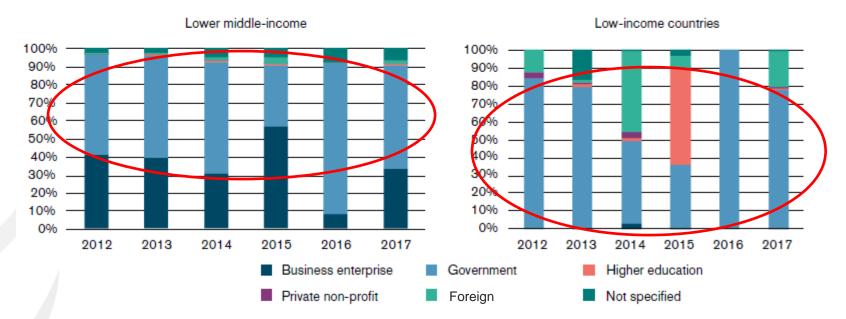


- What's changing with the digital economy? Special features of the digital economy
  - Data is key; digital tech are general purpose technologies; goods and services are more integrated; firms are more scalable; changes happen more rapidly
- What are the policy implications of such changes at the national level?
  - Today's digital-oriented policy toolkit includes new tools and adapt old ones, reflecting characteristics of the digital economy:
    - (1) Capital light model: encouraging innovation and knowledge; lot of R&D support and support to FDI in techs-immigration policy, tech hubs, agglomeration and start-up support, regulatory sandboxes;
    - (2) developing data policies and regulation;
    - (3) supporting the development of enabling infrastructure and access to it; access to network, being able to develop local software or digital services
- What is the role of trade and WTO
  - Long history of Open trade policies contributing to innovation
  - WTO rule book and commitments contributed to innovation: ITA, standards, TRIPS, ecommerce, etc. Many national policies already covered in WTO rules.
  - Looking ahead: what reforms are needed?

#### Government R&D funding key to promote innovation







2015

2016

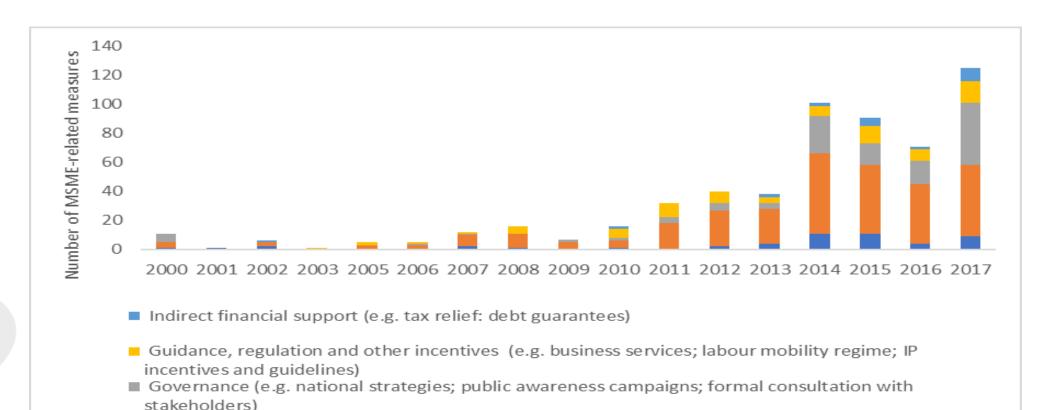
2017

# Direct financial support is the main instrument to support MSMEs R&D – source European Commission (PREDICT), OECD

Direct financial support (e.g. grants; loans; equity financing)

infrastructure; clusters)

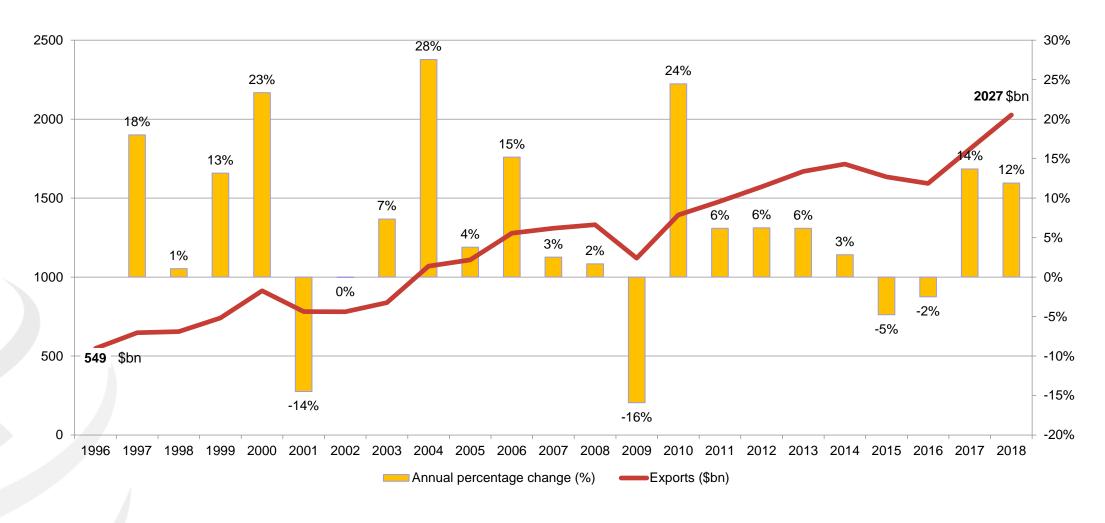




Collaborative platforms and infrastructure (e.g. dedicated support to new research

# World exports of ITA products almost quadrupled

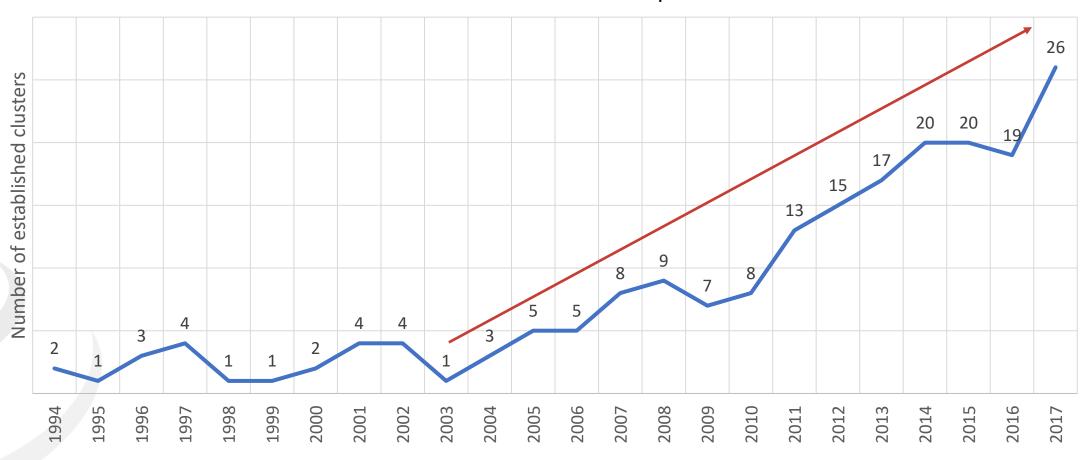




# Increasingly, tech clusters are used as an innovation policy



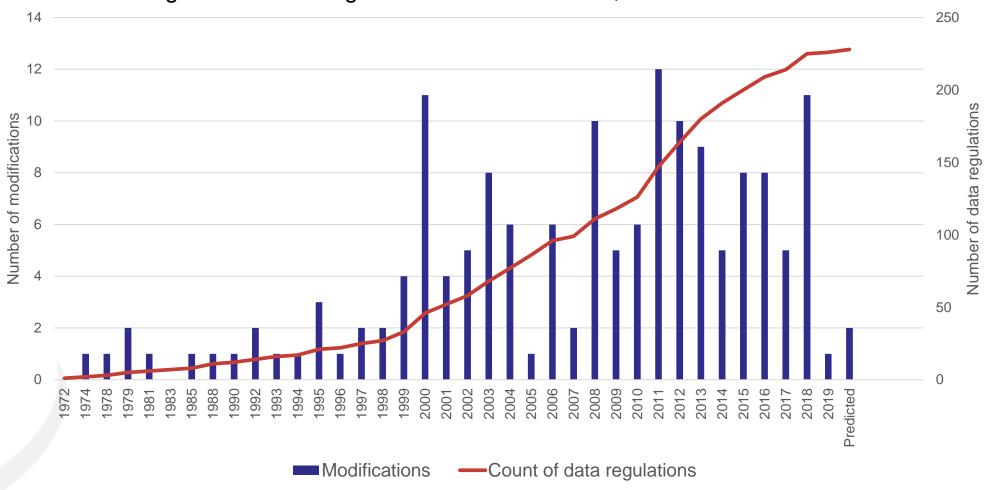
Number of clusters established in 27 economies' innovation policies



### Data regulations are widely used



Data laws and regulations affecting cross-border data flows, 1972-2019



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## Rationales for government policy



- Why government innovation policy?
  - Public good aspect of technology and data
  - Economy-wide benefits of general purpose technologies
  - Financial frictions
  - Network externalities, technology lock-in
  - Winner-takes-all dynamics

# Trade and International cooperation: where does the WTO fit?



- Open trade and trade policies contribute to innovation through improved access to foreign markets, competition and GVC integration
- Cooperation in the multilateral trading system contributed to the expansion of digital sectors
  - Tariff elimination and reduction in some sectoral agreements
  - Technical standards
  - Government procurement
  - Trade in services
  - Trade-related aspects of intellectual property, Subsidies, TRIMS
  - Aid for Trade
- Cooperation at the bilateral, plurilateral and regional level
- Other forms of international cooperation (other international organizations)
- Questions regarding WTO in the future: ecommerce (data provisions); services; IP; government procurement





# Thank you!