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Radical transformations new digital economy



The digital evolution has major implications for the implementation of **the 2030 Agenda for Sustainable Development**

- > Accelerated change
- Recombining technologies
- Lower costs, higher performance
- Open collaboration
- New forms of organization



Robotics



Artificial intelligence



Internet of Things (IoT)



Cloud computing



Big data analytics



3D printing

Digital economy implications

- More activities conducted online
- New business models
- New markets places
- New products and services
- New competition
- Changing skills requirements
- Need for new or revised laws and regulations, e.g.
 - Data protection and privacy
 - Consumer protection online
 - Cybercrime





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DIGITALIZATION IS TRANSFORMATIONAL

Opportunities

- Lower transaction costs
- Improved market accessdomestically and internationally
- Lower delivery cost (digitally provided)
- Opportunities for entrepreneurship and innovation
- Rural development
- Greater consumer choice
- Overcome barriers to growth

Challenges

- Economic barriers
 - Infrastructure weaknesses
 - Limited purchasing power
 - Payments
 - Risk of market dominance
- Socio-economic barriers
 - Legal frameworks
 - Cultural preferences
- Cognitive barriers
 - Awareness and knowledge
 - Low levels of e-literacy

Both opportunities and risks for developing countries



The impacts depend on:

the readiness of countries

the enterprises and people to take advantage of digitalization

Preparing for the digital economy requires:

a concerted, holistic, cross-sectoral and multi-stakeholder approach to policy making.



Governments

Technical and academic community



International organizations



Private sector

Digital economy is evolving fast...

Developing economies accounted for nearly 90% of the 750 million people that went online for the first time 2012-2015, India (177 m) China (122m).



66

Global



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Sources: UNCTAD, Cisco, ITU

But at different speeds and there are gaps ...



Global connectivity gap

50% remains offline only 1 in 6 in LDCs is connected

Gender gap

in Internet use is most pronounced in developing countries



MSMEs are less prepared

to take advantage of the digital economy



Sources: UNCTAD, ITU

The e-commerce divide is huge



Source: UNCTAD.



E-commerce Readiness Based on UNCTAD B2C E-commerce Index 2017





The Internet can enable more inclusive trade



Better access to global trade for MSMEs / optimized supply chain



Digital technologies enable to **Cut costs**



Streamline supply chains, market products and services with greater ease

More gains if SMEs:

- Obtain capacity-building, training and other technical assistance
- Serve a well-defined niche market rather than competing in mass markets

...but digitalization does not remove all barriers

Small businesses are less prepared for the digital economy

- 3 ways in which MSMEs connect with GVCs:
- Thintegration
 - ✓ Limited transformation
- Platform digitalization
 - ✓ Agriculture
 - ✓ Tourism
 - ✓ Global e-commerce platforms

• Full digitalization

- ✓ Data-driven value chains
- ✓ Tracking, payments
- ✓ Preferred suppliers
- ✓ E.g. agriculture, garments



Small enterprises (10-49 employees)

Large enterprises (+250 employees)



Digitalization of value chains and MSME involvement



Streamline supply

chains, market products and services with greater ease



More research is needed



Online labour platforms and cloud work





Global GDP may increase by 2025



Creating **new full-time jobs**



Improving **work outcomes** for \$2.7 trillion 72 million 540 million people



In 2016, the market of **«online outsourcing»** surpassed



The availability of the online work





Source: Oxford Internet Institute, Mapping the Availability of Online Labour, available at https://www.oii.ox.ac.uk/blog/mapping-the-availability-of-online-labour/

Online labour platforms and cloud work









Data scientists & analysts



Sources: Melguizo and Perea, European Commission, van Welsum and Lanvin

Digital Platforms and Data A valuable resource



- Digital platforms thrive on the effective collection and analysis of massive amounts of data
- Data can be monetized in different ways
 - ✓ Advertising revenue (Google, Facebook)
 - ✓ Optimization of production (manufacturing: Caterpillar, Rolls Royce)
 - ✓ Selling/renting out cloud services (AWS)
- ✓Data ≠ oil!
- ✓Competitiveness increasingly linked to data analysis
- ✓ Users value the ("free") services; pay by providing detailed info

Data issues and implications



• Key policy issues

✓ Data privacy✓ Competition✓ Surveillance

- Implications for developing countries
 - ✓ Far behind in Internet use/e-commerce use
 - ✓Less prepared:
 - $_{\rm O}$ Lack of data protection and consumer protection laws
 - $_{\rm O}$ Lack of affordable ICT and cloud infrastructure
 - o Lack of skills (e.g. data scientists)

Critical questions



- What are the opportunities for developing country enterprises to compete in a more data-driven economy?
- How to generate more research and policy analysis that addresses the development dimensions of data?
- What are the implications for «non-platform» companies?
- What kind of policy responses are needed in the areas of regulations and skills development?
- How to better link trade policies with Internet policies?



The policy challenge is multifaceted

Coordination

Effective cross-sectoral collaboration needed within the government and with other stakeholders.

A better measurement

Need to build the capacity of developing countries, and especially LDC, to collect more and better data on relevant aspects of the digital economy.



The policy challenge is multifaceted

Expand ICT Connectivity

- Secure an open, transparent telecommunications market
- Attract investment

Adapt trade promotion policies to the digital economy

• Trade promotion organizations can embed digital tools in their services offered to small businesses

Education and skills

- Retrain and upgrade the skills of workers and teachers
- Make use of redistribution policies

Trade logistics, digitalization and e-commerce

- Adapt to tsunami of parcels
- New technologies
- Cross-border data flows



Boost international support

To prevent widening digital divides and greater income inequalities, the international community will need to expand its support on a massive scale.

Current levels of support are inadequate

Total aid for trade

1.2% Share of ICT

in total aid for trade declined from 3% in 2002-2005 to 1.2 % in 2015

Boost international support to developing countries

Make use of the eTrade for all initiative (etradeforall.org)



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Source: WTO

Save the date!

• E-COMMERCE WEEK 2018

• 16-20 APRIL 2018 in GENEVA



 Second session of the UNCTAD Intergovernmental Group of Experts (IGE) on E-commerce and the Digital Economy

Key facts

More than 1'000 participants in 2017

5 day-event including a 3-day dedicated meetings of experts (IGE 2018) on leveraging platforms and digital entrepreneurship for development

1 high-level

conversation, eTrade for all private partners meeting, networking opportunities ... and much more...

Second session of UNCTAD IGE Discussion topics and guiding questions



- a) How can developing countries foster local platforms for domestic and cross-border e-commerce?
- b) What are the existing barriers related to international e-commerce platforms that developing countries, including the least developed countries, face and how can these barriers be overcome?
- c) What are some of the operational constraints that small and medium-sized businesses in developing countries face when setting up trade online, and how can they be overcome?
- d) What are the good practices that developed and developing countries, including the least developed countries, can learn from each other?





Thank you!