





Course 15. Enterprise Management in Digital Economy

Module 1: Business perspective to understand the digital economy and its influence

Tomasz Nitkiewicz (CUT)

with

Andrei Szuder (UPB), Uttapol Smutkupt (CMU), Jorge Cunha (Uminho)













Curriculum Development

of Master's Degree Program in

Industrial Engineering for Thailand Sustainable Smart Industry



Module 1: Business perspective to understand the digital economy and its influence

List of topics

- A. How digital economy innovations and its social context impacts different types of businesses?
- B. Digitalization in the context of needs, markets, channels, products and services and management and organizational set-up identification of different way digital era changes the business
- C. How the pace of changes affects the business in the digital economy: New business imperatives
- D. Organizational structures and management functions of today: reshaping structures, combining resources and competences and building relations





M1: Digital Economy Trends in digital economy

- 1. Development of data-driven technologies
- 2. Increase of global Internet traffic
- 3. High concentration of digital economy in 2 countries (China and U.S.)
- 4. Huge digital division



150,700 GB per second

2022









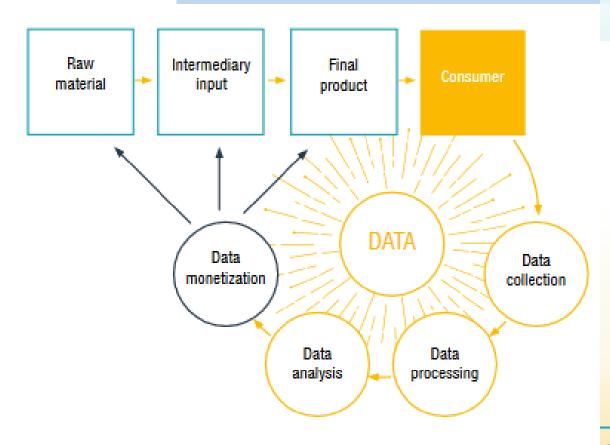


Gender gap is the widest in the poorest economies

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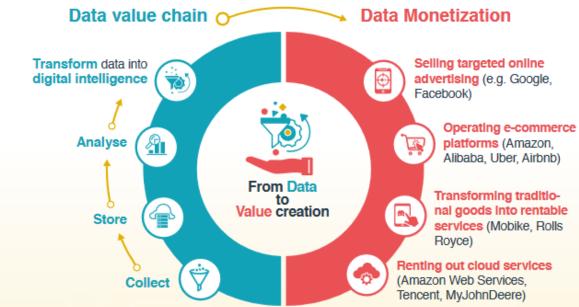
M1: Digital Economy Value in digital economy



(UNCTAD 2020)

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Four dimensions to consider

Distribution Scope for Governance Value of value upgrading of value creati

Governance Value of value creation vs. capture

Different actors to consider

Assessing the scope for value creation needs to consider the **possible impacts** on different **actors**:

Individuals Small and large

Small Governments and large businesses

nents Economy -wide effects



M1: Digital Economy Actors and impacts of Digital Economy

	Digital sector/economy	Digitalized economy
Individuals as users/consumers/workers	ICT/dgital services jobs New forms of work	New jobs vs. New skills / Job losses Efficiency gains/ lower prices / better choices
MSMEs	Greater inclusion Increased competition New opportunities	Platform-enabled market access Lost opportunities due to automation New roles and opportunities
Multinational enterprises / digital platformss	Investment opportunities Enhanced productivity Greater control of value chain New opportunities in sharing economy	Emergence of platforms with data-driven business models Efficiency, productivity and quality gains Increased competitive advantage and market power
Governments	Attracting investments Tax revenues Lost customs revenues	Increased efficiency through e-services Unclear impact on tax revenue Data driven opportunities to meet SDG

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M1: Digital Economy Technologies and emerging opportunities



Blockchain



Data analytics



Artificial intelligence



3D printing



Internet of Things



Automation & Robotics



Cloud computing



Co-manufacturing
Co-design



SMART manufacturing



Data-driven services
Connectivity



VR and AR services

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M1: Digital Economy New features of business development

The most visible directions of developing business to customer relationship in digital economy could be summarized by its features as:

- Shared
- On-demand
- Collaborative

(SMITH, 2016)





M1: Digital Economy Challenges for business development

Emphasize outcome-based customer experience.

Integrate core processes and real-time analytics to enable **simpler**, **smarter**, **faster work**.

Support an empowered, highly engaged workforce.

Collaborate with suppliers to accelerate growth.

Use the Internet of Things to connect and leverage assets, generating improved insights for faster, better decision making.

(SAP, 2015)

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