

SESSION 3: DIGITALIZATION AND SERVICES

Asian Think Tank Forum 2024

Digitalization as an Opportunity for Inclusive Growth in Aisa and the Pacific

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Flywheel effect of digitalization...



79% CEO in Asia Pacific changed their investment focus into digital transformation within the last 3 years (PWC, 2022)

87% global CEO said that digital technology has disrupted industry irreversible (MIT)

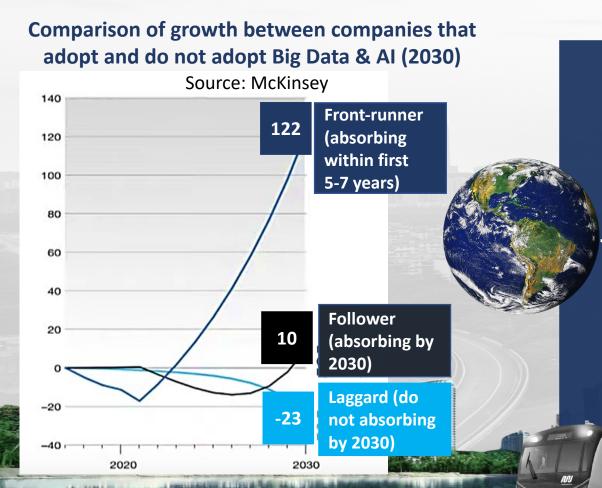


Digitalization as a key driver of servicification



Digitalization enables service-led innovation

Manufacturing Service-centric industries



Global service trade growth

65%

Global GDP

E-commerce market size

\$6,3 trillion

Streaming and SaaS contributing to over 70% of internet traffic

Cloud computing & Al usage

94%

60%

Use cloud services

Integrating

Automation & efficiency

47%

Automated service

processes

Boosting efficiency & cutting costs

30%

Source: WTO, Flexera, Statista, McKinsey

Indonesia digital at a glance



largest internet users in the world 77% (213 million) active internet users, as of 2023

76% Smartphone penetration
206+ million smartphone user
as of 2021

largest users of top social media platforms

135 million Facebook, 113 million

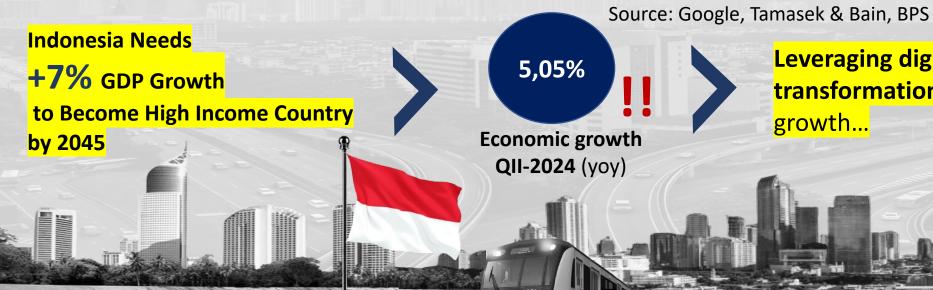
TikTok, and 106 million Instagram

active users, as of Apr 2023

\$82B

in digital economy in 2023, and is on course to reach \$360B by 2030.

Driven primarily by e-commerce sector



Leveraging digital economy transformation, boost the economic growth...

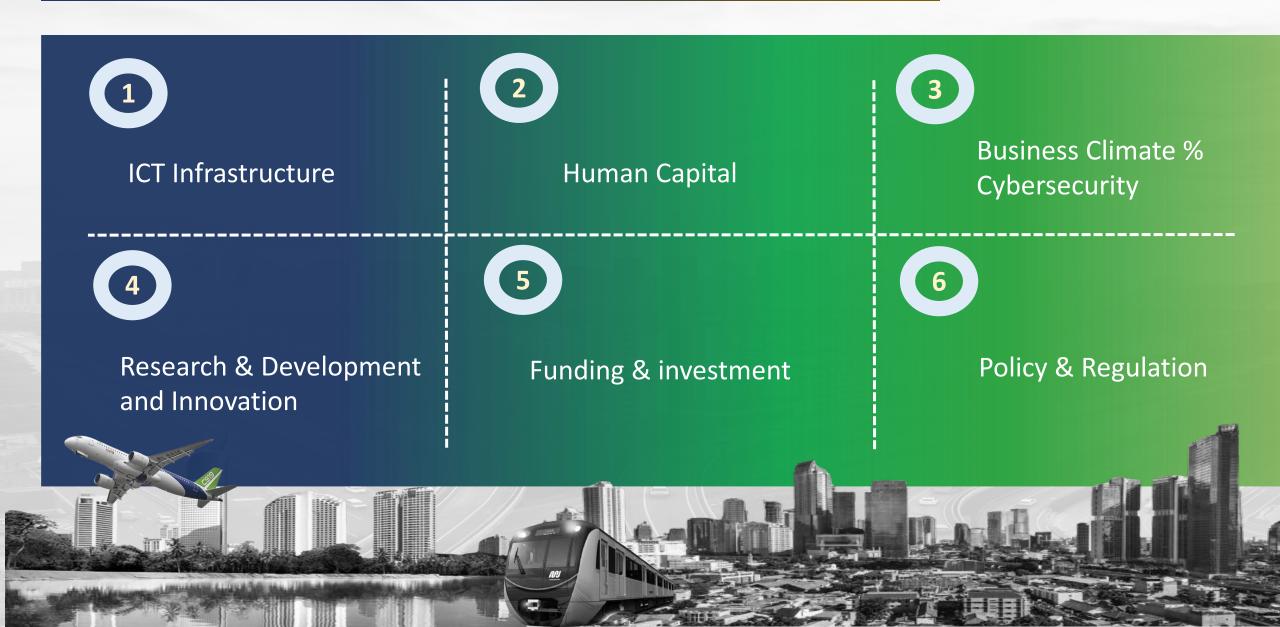
Digitalization considered by private sectors in Indonesia to implement in 1-2 years ahead (APINDO Survey 2023)





Key Factors for a Technology-Based & Digitalized Economy





Businesses are observing structural issues of digitalization, and the key to Indonesia's success of digital economy



Structural Issues in Digitalization Adoption in Indonesia

(for MSMEs, Businesses in Remote Areas, and Women Entrepreneurs)







Cost of trial and error of tech adoption



Protection of basic digital rights & cybersecurity



Gender Disparity



Indonesia's business climate is still at a nascent stage with strong opportunity to improve





2022 Business Environment Ranking

rank 45

World Digital Competitiveness Ranking 2023



Businesses highlights key challenges on ICT infrastructure ...as an integral of digital economy development



Challenges

Based on the APINDO survey:



- Satisfied with the availability, affordability, and quality of IT hardware, software, and services
- 45% Satisfied with the telecom services quality
- 48% Satisfied with the availability of telecom services
- 49% Satisfied with affordability of telecom services

Poor signal and network's stability, availability, and quality.

- Limited knowledge, capability, and understanding on IT hardware, software, and services.
- Expensive telecommunication packages, IT hardware, software, and services.

APINDO proposes:

Expand telecommunications networks by infrastructure development

Significantly enhancing ICT/digital talent through training, workshop, etc

Increasing affordability of hardware, software, services

Businesses will likely also demand and prioritize a different set of skills from the employees...



Skill for future: Workforce transformation...



What Changes will IR 4.0 & Society 5.0 bring?

• What Automation and Digitalization Technologies will be adopted by companies? How to position the central role of humans in technology?





Job Transformation

• Which jobs are growing, and which jobs are decreasing? Are job vacancies increasing or decreasing?







Skills Transformation

What jobs are in demand? What do we need in terms of learning and training? What are the methods?



6,6 Mn

The jobs in ASEAN-6 will be redundant due to technology **by 2028** (Future of jobs, WEF)

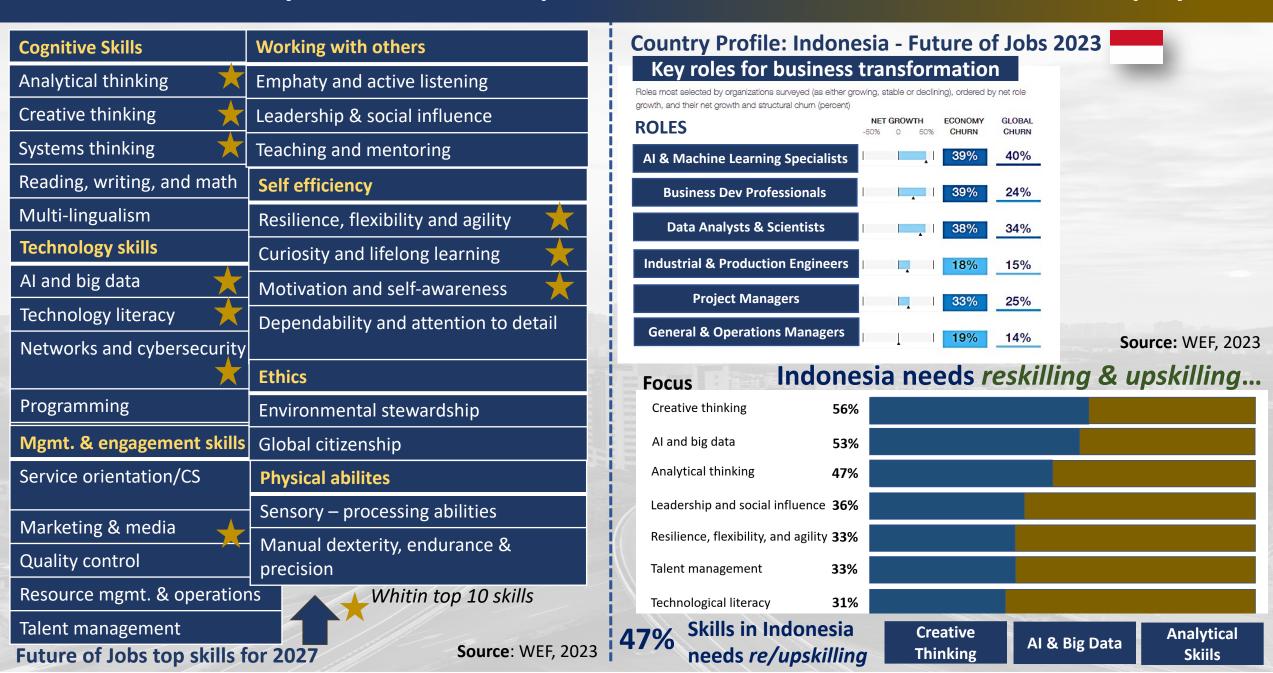
Companies worldwide estimate that 50% automation will reduce the number of full-time employees by **2022**.(WEF, 2018)

Out of the 6.6 million workers, many experience a shortage of essential skills required for future jobs (Future of jobs, WEF)

Jobs in ASEAN-5 are at risk of automation in the next 20 years, spanning from 2016 to 2036.

(ILO & Asia Foundation)

Businesses will likely also demand and prioritize a different set of skills from the employees...



Snapshot



Challenge: Human Capital Development

Globally, Indonesia was ranked #47 in *Digital Skills Gaps*#47

Index (DSGI) 2021, with lower scores in research intensity (score: 3,6/10) and government support (score: 4,5/10)

Human Development Index (HDI), ASEAN countries (2022)

Global Rank	Country	HDI Value
12	Singapore	0,939
51	Brunei Darussalam	0,829
62	Malaysia	0,803
66	Thailand	0,800
114	Indonesia	0,705
115	Vietnam	0,703
116	Philippines	0,699
140	Laos	0,607
146	Cambodia	0,593
149	Myanmar	0,585

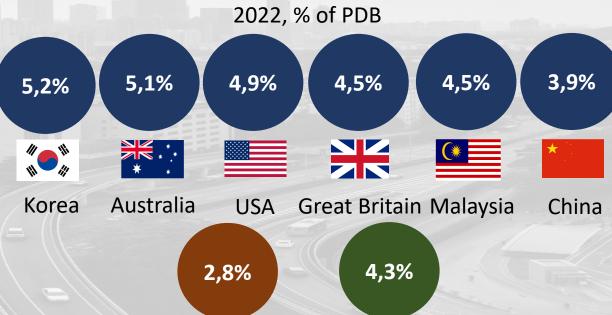
Source: UNDP, 2022

Distribution of the working population based on education (2023)



Source: BPS, 2023

Government spend on education



Global average

Indonesia

Challenge: Human Capital Development (2)



46%

Workers in Indonesia's manufacturing sector have low to mid-level skills

80%

Global manufacturers cite skill gaps as a major barrier to digitalization and servicification

Source: WEF, McKinsey



ROADMAP PEREKONOMIAN Contribut A PRINCE Dept Repairment Natural 2004-2027

29,82%

Struggle to find quality talent

51,82%

Manufacturing sector have underqualified workers in their job positions

Source: APINDO Roadmap survey

Challenges in improving the competence and skills of human resources:

Limitations of the BLK role



Industry's Self-Financing costs

Skills & development



Technology and Skills investments

Businesses gearing up the human resources for the optimization of digitalization



Transitioning to the future of jobs with Talent Development Framework strategy

Business & Organization Strategy

2. Talent Identification

Identify potential employee using 9 potential box

4. Individual Development Plant

Design tailored-made individual Development Plant

6. Performance Review & Evaluiation

Review performance Progress of each talent & readiness to turn to higher level



1. Sucession Strategy

Identify organization needs and define critical post.

3. Assess Dev't Needs

Conduct Assessment Center to Identify development needs

5. Accelerate Development

Provide powerful learning experience to accelerate development

Enhancing skills to operate in a fully digitalized environment

2

Developing cognitive skills to ensure employees can respond to redesign and innovation needs

3

Enhance social and emotional skills to ensure effective collaboration



Build adaptive skills and resilience to thrive during evolving business situations

Moving forward...

APINDO's Economic Roadmap:

Digital Ecosystem Chapter



VISION

Digital should be treated as an enabler for business, engine for value creation to the economy and, as means to promote new employment, driving Indonesia to become a high-income country

MAIN RECOMMENDATION 1-5 YEAR

- 1. Promote deployment of high-speed internet infrastructure (e.g., 5G, Gigabit FTTx) in the highly productive areas, such as Tier-1 cities and Special Economic Zones
- 2. Launch national one-stop online portal that enables workforce of all age groups to access online learning courses, and promote the pursuit of skills mastery especially for digital capabilities
- 3. Establish national technology zones for business players, to encourage development of businesses engaged in technological research, design, and manufacturing
- 4. Roll out MSMEs Go Digital program to help them adopt advanced digital solutions and use technologies to build stronger capabilities in seizing growth opportunities from the expanding digital economy
- 5. Create a nation-wide technology startup platform to allow local tech startups to have access to potential talent, funding, and diverse startup network
- 6. Appoint R&D champions for leading national companies to act as an innovation lighthouse and inspire other business players to conduct R&D activities
- 7. Incentivize business players to adopt digital/smart technology across large enterprises, MSMEs and startups through various mechanisms, such as tax incentives, grants, and subsidies
- 8. Set up a robust digital economy regulatory regime by promoting key policies and regulations, to activate digital acceleration across business players, workforce, and infrastructure



Thank You

Contact

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