



S. ASEAN International Advocacy & Consultancy

# Industry Summit, Promoting Digital Indonesia

## Socio-economic Benefits of the Digital Transition and Key challenges

**Thursday 6 February 2020, Jakarta**



# Industry Summit

## Promoting Digital Indonesia



**Opening Keynote**

**Hon. Johnny Plate**

**Minister of Communication and Information  
Indonesia**





# DO WE NEED DIGITAL TRANSITION IN INDONESIA?

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Ministry of Communication and Informatics



# INDONESIA LANDSCAPE

## PEOPLE OF INDONESIA



POPULATION

**264.1M**

WORKING AGE  
POPULATION



**179.1M**

WORKING AGE POPULATION:  
MILLENNIAL



**63.5 M**

DELLOITTE'S SURVEY OF MILLENNIALS (GLOBAL)

MILLENNIAL TURNOVER

WITHIN 2 YRS

**43%**



STAY BEYOND 5 YRS

**28%**

GEN Z TURNOVER

WITHIN 2 YRS

**61%**



STAY BEYOND 5 YRS

**12%**

## DIGITAL

INTERNET USER

**171,17M / 64.8%**  
PENETRATION  
**10.12%** GROWTH



AT THE OTHER WORDS

**35.2%**  
IS STILL NOT USING  
INTERNET

SMARTPHONE  
CONNECTIONS

**270M**



UNIQUE  
MOBILE  
SUBSCRIBER

**194M**

67% PENETRATION

INTERNET ECONOMY MARKET SIZE



(2015)

**8B**

(2019)

**40B**

(2025)

**133B**

CAGR **49%**

CAGR **32%**



# INDONESIA GOVERNMENT PRIORITY

(Based on Inauguration Speech)

## To Realize The Vision, Digital Transition is A Must

1

Prioritizing  
Human Resources  
Development

2

Continuing  
Infrastructure  
Development

3

Regulation  
Simplification

4

Bureaucratic  
Efficiency

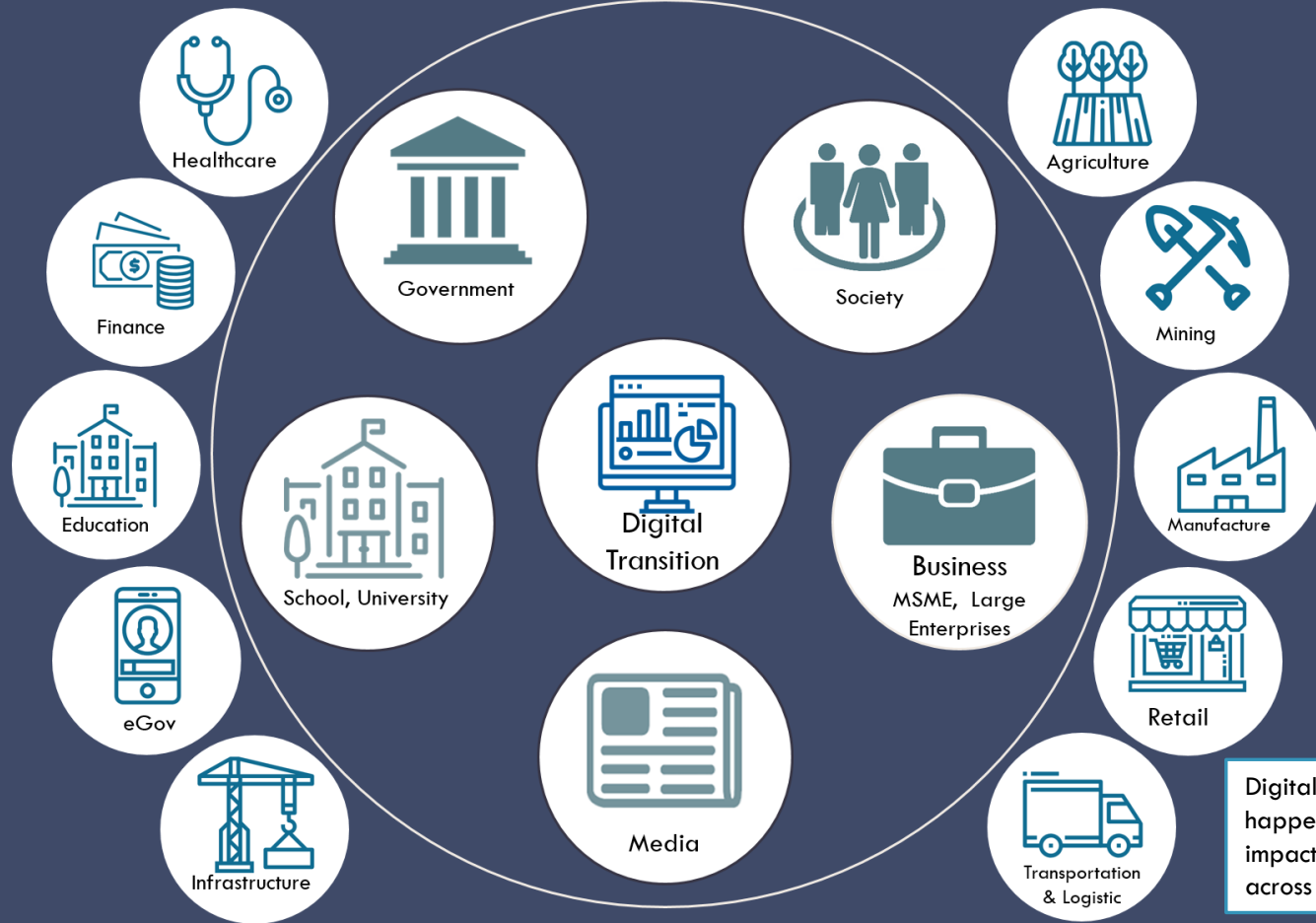
5

Economic  
Transformation





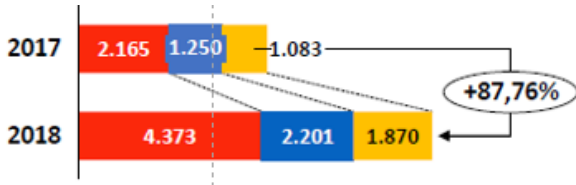
# DIGITAL TRANSITION IN INDONESIA



Digital Transition is now happening in Indonesia and impacting to all stakeholders across all sectors

# CELLULAR INFRASTRUCTURE IN INDONESIA

## Data Traffic (PB)



Data traffic continues to grow significantly each year and the industry average is around 87%

## Total Users

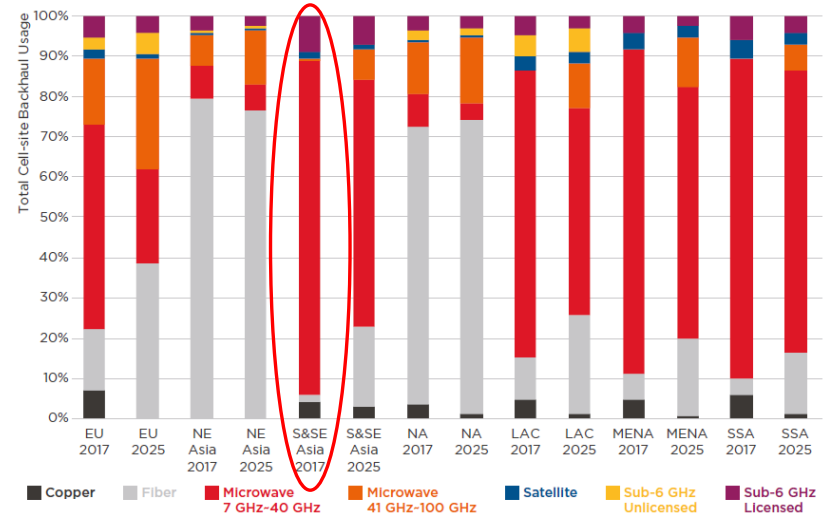


**322.1 millions<sup>1</sup>**

The number of Cellular users is very large and most of the users are data customers

## Total (Macrocell & Small Cell) Backhaul by Method

By Region, Historical and Forecast 2017 and 2025



In South and Southeast Asia (including Indonesia), 7 GHz-40 GHz microwave links are still the majority of backhaul connections.

As a developing country, internet prices in Indonesia is affordable for the society. Thus the data traffic can continue to grow.

Overall, the demand of data connection is huge and keep growing. While, from the supply sides, there are still a few works need to be done particularly to prevent bottle necking.

## Deployment Technology



2G GSM technology is still being used because the number of cellular subscribers using the phone feature is still large, while 3G technology is currently used to backup 4G data network

Rank	Country	Price per GB
1	India	0.26 USD
17	<b>Indonesia</b>	<b>1.21 USD</b>
47	Turki	225USD
64	Argentina	3,05 USD
146	Meksiko	7,38 USD
165	China	9,89 USD
182	US	12,37 USD
201	South Korea	15,12 USD



# DIGITAL ECOSYSTEM IN INDONESIA

From the enterprises side, ICT is still a supporting part rather than the core ones. While from government side, instead of integrated, e-government is still silo. Thus, there are many works need to be done.

## Global World Digital Competitiveness Index



Indonesia is ranked

# 56

out of 63 countries



## Knowledge

- The level of digital literacy is relatively low
- Limited human resources who mastering the digital field
- Limited funds and expenses for RnD
- The education curriculum has not yet fully included digital competencies

Rank

# 56

## Technology

- Policy and regulations are not yet friendly to the digital ecosystem
- The adoption of digital technology in strategic sectors and regions has not been optimal
- Unfinished ICT infrastructure
- Inadequate access and reliability of ICT infrastructure to support the digital economy

Rank

# 47



## Future Readiness

- The integration of e-government implementation in all public institutions is still low
- Digital participation of society is relatively low
- Limited funds and expenses for RnD
- The transformation of broadcasting into IPTV platforms has not been supported by adequate regulations and infrastructure

Rank

# 58

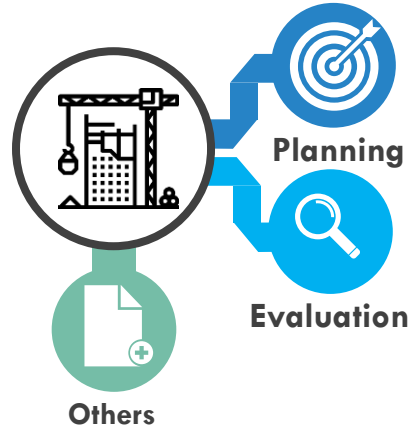






# DIGITAL ECOSYSTEM IN INDONESIA – WHERE WE SHOULD GO

## Information Based Activities



### Government Decision Making

To realize effective APBN (govt expenditure) and on target with significant impact  
To decide where to build infrastructure



### Program Planning



- KIP for College
- Pre Work Card
- Basic Food Card

## Improving quality of education and reduce inequality

Distance Learning and Online Learning with data analytics

- Customized learning
- Spaceless and timeless: accessible anytime, anywhere, anyone
- Freedom to learn anything

### Learning Planner

YOU HAVE 2 NEW ALERTS:

OVERALL STATUS: **ON TRACK**  
CAREER FOCUS: **MARKETING**

You have 1 assignment due tomorrow >  
You have 1 upcoming meeting: [Mentor/mentee coffee](#) >

#### COMPETENCY DASHBOARD

KEY AREA	CRITICAL AND CREATIVE THINKING	BUSINESS ESSENTIALS	QUANTITATIVE SKILLS	COMMUNICATION SKILLS
COMPETENCY	Can generate a variety of approaches to addressing a problem	Can define and use marketing terminology and concepts	Can distinguish fact from opinion	Can convey information by creating charts and graphs
% COMPLETE	45%	68%	25%	70%
NEXT ASSIGNMENT	Conduct web research	Create a marketing plan	Analyze an advertisement	Develop a budget

#### KEY COMPETENCY SNAPSHOT

Click to view more information:

COMMUNICATION SKILLS	CRITICAL & CREATIVE THINKING	DIGITAL FLUENCY
QUANTITATIVE SKILLS	SCIENCE, SOCIETY, & CULTURE	BUSINESS ESSENTIALS
PERSONAL EFFECTIVENESS	ETHICS & SOCIAL RESPONSIBILITY	TEAMWORK AND COLLABORATION

#### UPCOMING OPPORTUNITIES

- TUESDAY, 10:30 A.M.**
- ▶ Meet the Chief Marketing Officer of Fast Company
- TUESDAY, 1:00 P.M.**
- ▶ Marketing study group – Analyze an advertisement
- WEDNESDAY, 5:00 P.M.**
- ▶ Marketing Madness Career Fair
- THURSDAY, 12:00 P.M.**
- ▶ Lunch N' Learn with faculty
- THURSDAY, 2:00 P.M.**

#### ASSIGNMENTS

Next assignment due:  
**Tuesday, 12:30 P.M.**  
[Submit online](#)

#### CAREERS OF INTEREST

Click to see all skill sets:

- [SOCIAL MARKETING](#)
- [DIGITAL MARKETING](#)
- [PRODUCT MARKETING](#)
- [DIGITAL STRATEGIST](#)
- [WEB METRICS AND ANALYTICS](#)

### Government Program Evaluation





# DIGITAL ECOSYSTEM IN INDONESIA – WHERE WE SHOULD GO

- Focus on mobile broadband

## Problem

Albeit in 2019 operators got positive growth, pressure from all sides still occurs. Telco industry requires large investment yet the revenue is low. Digital services, although it has grown, has not been able to replace the decreasing operators revenue.

## Issue

Limited availability of spectrums especially if the operator wants to deploy 5G (digital dividend in 700 MHz)

## What need to be done

Spectrum deployment in all layers (low, mid, high) if the operator wants to deploy 5G

## How To

- Efficient mindset to run telco business and not being opportunistic
- Infrastructure and spectrum sharing may be considered

- Transform conventional business process across all sectors through ABCDS (AI, Blockchain, Cloud Computing, Data Analytics, Security) prime mover

## Issue

Fundamental regulation is essentially needed to create safe space for ecosystem particularly about utilisation of data.

## State of Play in Indonesia

IoT - IoT Solutions are growing rapidly to solve problems. A good solution is a solution which could get rid of customer's pain point.

Smart poultry – cage monitoring sensor



Efishery – Smart feeding for fish farming



Xshrimp – environment sensor for shrimp farming



AI - AI is growing in Indonesia. Unicorns have already begun implementing it. While for conventional enterprises, the initial usecase is chatbot and video analytics.

**tokopedia**

Image search,  
demand analytics, etc.

**nodeflux**  
Extending Vision Beyond Imagination

Video analytics for Police

**kata.ai**

Chatbot for CS



## GOVERNMENT'S ACTION

To overcome the obstacles and moving towards the aspirations, there are several actions that government is now doing, among them are:

01.

Resolve issue of Personal Data Protection and Broadcasting

03.

Releasing the spectrum needed at the right time

05.

Promoting Digital talent to trigger the ecosystem and as a catalyst for enterprises

02.

Govt. set up integrated govt cloud (govt data center)

04.

Promoting local apps which customized and suitable to the needs of Indonesia

06.

Completing Infrastructure of the remotes area

**Thank You**

 Ismail Ismail