

THE ROLE OF TECHNOLOGY IN SHIFTING THE INSTITUTIONAL STRUCTURE OF MARKETS

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INDONESIA THE NEXT BIG THING IN DIGITAL MEDIA



INDONESIA DIGITAL PROFILE



88.1 million internet user (34% population)



2 hours 52 minutes/day, average of social media usage



63.4 million smartphone user (24,7% population)



74 million social media user (29% population)



308.2 million mobile phone user (121% population)



3 hrs/day, average of internet access via mobile device



3 million fixed broadband user (1,5% population)







50 million twitter user



Member States vary in their technology "readiness" and "usage"

Selected indicators from the Networked Readiness Index 20161

				Ranki	ing 🚺 1–10	11–25	26–50 51+
		$Readiness^2$	Usage ³				
Overall rank	Country	Infra- structure	Affordability	Skills	Individual	Business ⁵	Government
1	Singapore	15	72	1	12	14	1
31	Malaysia	71	91	46	47	26	6
45	Brunei Darussalam ⁴	37	129	30	50	56	30
62	Thailand	67	64	73	64	51	69
73	Indonesia	105	38	65	92	34	65
77	Philippines	87	107	54	79	36	63
79	Viet Nam	121	3	82	85	81	61
104	Lao PDR	108	82	106	124	89	110
109	Cambodia	98	43	120	101	104	116
133	Myanmar	115	122	113	131	138	137

1 The Networked Readiness Index includes four sub-indexes: Environment, Readiness, Usage, and Impact.

2 The Readiness sub-index measures the degree to which a society is prepared to make good use of an affordable ICT infrastructure and digital content.

3 The Usage sub-index assesses the individual efforts of the main social agents to increase their capacity to use ICT as well as their actual use in day-to-day activities.

4 Data as of 2014; Brunei Derussalam did not participate in 2015 and 2016 survey.

5 Includes 1) Firm-level technology absorption; 2) Capacity for innovation; 3) PCT patent applications per million population; 4) Business-to-business internet use; 5) Business-to-consumer Internet use; 6) Extent of staff training. Data is from the World Economic Forum's Executive Opinion Survey (~14.000 executives from over 140 countries).

SOURCE: The global information technology report 2016, World Economic Forum

ASEAN Connectivity 2025

Vision: "To achieve a seamlessly and comprehensively connected and integrated ASEAN that will promote competitiveness, inclusiveness, and a greater sense of Community."



Digital innovation

What are the strategic objectives?

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- Support the adoption of technology by micro, small and medium enterprises (MSMEs)
- 2 Support financial access through digital technologies
- 3 Improve open data use in ASEAN Member States
- Support enhanced data management in ASEAN Member States



What are the key initiatives?

- 1 Enhance the MSME technology platform
- 2 Develop the ASEAN digital financial inclusion framework
- 3 Establish an ASEAN open data network
- 4 Establish an ASEAN digital data governance framework

Banking and the 4th Industrial Revolution

Complexity



FACTS

- The financial services industry has seen drastic technology led changes over the past few years. Many executives look to their IT departments to improve efficiency and facilitating changing innovation.
- Customers have had their expectations set by other industries, they are now demanding better services, seamless experiences regardless of channel, and more value for their money.
- Regulators demand more from the industry too and have started to adopt new technologies that will revolutionize their ability to collect and analyze information.



EXECUTIVES CONCERN



of banking CEOs are concerned about the speed of technological change, more than any other industry sector.¹⁰

How Global Banks View Fintechs

2016



- They represent a possible threat, we compete against them
- We look at them as possible collaborators
- We view them as possible technology acquisitions

We have no position

Why Consumers Adopt FinTech Solutions



FinTech Ecosystem



CHALENGES

- FinTech start ups are encroaching upon established markets, leading with customer friendly solutions developed from the ground up and unencumbered by legacy systems.
- Disruptors are fast moving companies focused on a particular innovative technology or process in everything from mobile payment to insurance.
- They have been attacking some of the most profitable elements of the financial service value chain.
- This has been damaging to the incumbents who have historically subsidized important but less profitable services offerings.



CLOSING

- The sharing economy have started with cars, taxi and hotel rooms, and financial services is following.
- By 2020, consumers will need banking services, but they may not turn to a bank to get them or at least may be not what we think of as a bank today.
- The sharing economy refers to decentralized asset ownership and using information technology to find efficient matches between providers and users of capital rather than turning to a bank as an intermediary.
- Financial institution should seriously consider sharing economy opportunities such as partnership with digital intermediaries toward how they might deliver services at much lower costs.

CHARACTERISTIC INDONESIAN CONSUMERS

- Very Creative (is not in making something something sophisticated BUT make more Useful
- □ Very **Consumptive**, generous spending
- Very Communal (like to communicate , heartwarming, smile, doing something together)
- **Status** Oriented

CONCERNS



THANK YOU.....