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## Discussions

Understanding the dynamic of Digital Economy in the context of Digital Literacy of Thai Households

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# Literacy

Measure: Ability to read and write

**Existence:** Ancient time - present

#### Measure:

- Knowledge
- + Attitude
- + Behavior

**Existence:** 2000's - present

(OECD)

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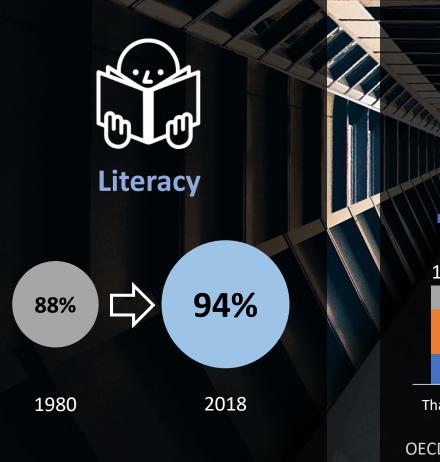
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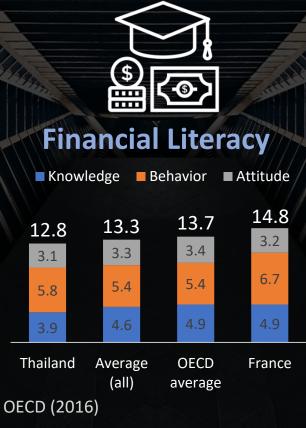
#### **Digital Literacy**

Measure:

**Existence:** 

Digital literacy is very important for 21<sup>st</sup> Century world







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#### **Digital Literacy**

If it's important, measure it!

"What gets measured gets managed!" Peter Drucker

If Digital literacy is very important, Let's measure it!

### Title may be misleading:

# Understanding the dynamic of Dig Economy in the context of Digital Literacy of Thai Households

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#### Benefits of Digital Literacy is unclear, but the Costs of Digital Divide is almost certain

Digital Literacy ► Reap Digital Economy Potential

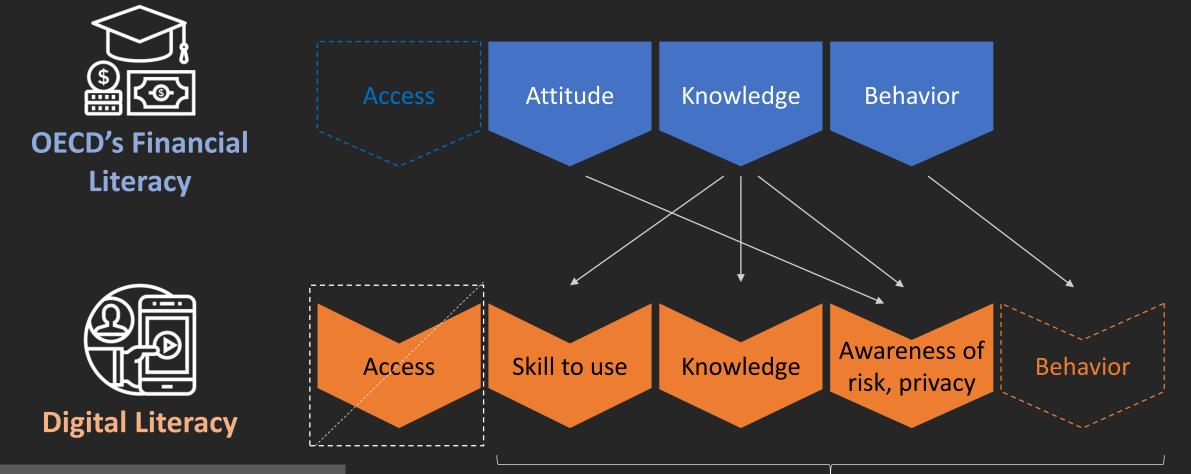
#### To be verified!

#### Digital Divide

- Some will be left behind
- Cannot compete
- Taken advantage of
- Rising inequality

Klaus Schwab (2016) Fourth Industrial Revolution → Social & political instability
Yuval Harari (2018) 21 Lessons for the 21<sup>st</sup> Century → Rise "Useless class"

#### Other definitions on "Literacy" do not typically include Access

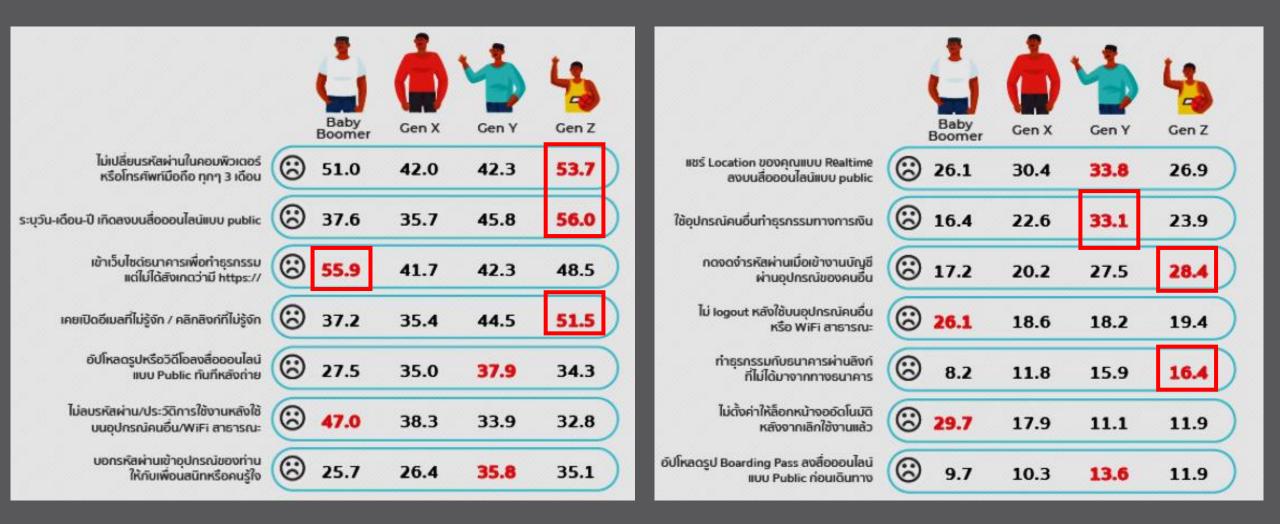


Comments:

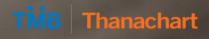
- 1) Add "Behavior"
- 2) Separate "Access" from literacy

#### Relevant to "Digital Literacy"

#### Missing Dimension on Digital Behaviors?



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# 2. Methodology



Gather primary data via survey

Normalize survey score via factor loadings Clustering according to digital literacy levels

- Digital fluency
- Digital Neutral
- Digital illiterate

Find significant determinants of digital literacy

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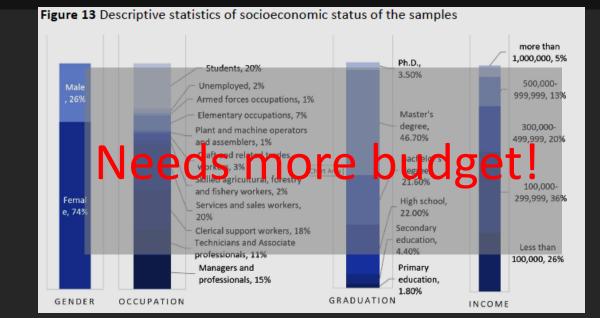
### Survey results will give Insights, but may not yield Conclusion

#### Survey method

Comments:

1) Self-selection bias

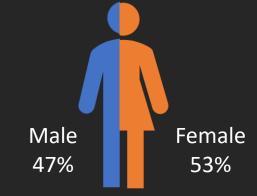
- 500 samples (periods?) •
- Stratified by generations, but • BKK only
- Visit districts and randomly select individuals until sample for each gen is filled

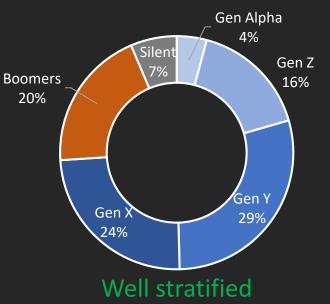


#### **BKK** population

Who went to District office?

2) Bangkok bias Are BKK Baby-boomers more literate?





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#### Bangkok's behaviors can be quite different than Other regions

		กรุงเทพมหานค	ร ภาคเหนือ	ภาคใต้	ภาคกลาง	ภาคตะวันออก เฉียงเหนือ	ETDA (2020).
UPC ~ ВКК	ใช้ Social Media	91.5%	91.2%	91.0%	90.9%	91.1%	Thailand Internet
	ดูหนัง/พิงเพลง	72.3%	71.6%	66.8%	69.5%	71.9%	User Behavior 2019.
	ค้นหาข้อมูลออนไลน์ เช่น ร้านอาหาร	74.4%	66.8%	68.0%	69.1%	66.9%	
	รับ-ส่งอีเมล	68.2%	51.7%	60.2%	62.5%	56.4%	
	ชำระเงิน ค่าสินค้าและบริการ	64.0%	56.3%	59.8%	59.6%	55.9%	
	อ่านหนังสือ/ข่าว/บทความออนไลน์	58.1%	54.3%	56.0%	56.3%	58.1%	
	ชื้อสินค้า/บริการออนไลน์	59.3%	54.6%	53.5%	57.1%	53.7%	
	ติดต่อสื่อสารออนไลน์	51.7%	48.2%	45.1%	48.3%	52.0%	
	เล่นเกมออนไลน์	36.0%	33.2%	25.7%	35.0%	31.4%	
	ใช้แอปพลิเคชันถ่ายทอดสด (Live)	27.4%	30.2%	34.6%	29.3%	34.6%	Others > BKK
	ดาวน์เหลดซอพต์แวร์/เพลง/ละคร	27.5%	30.5%	27.0%	27.8%	30.7%	
Others < BKK	สั่งอาหารออนไลน์	36.8%	20.8%	17.3%	16.9%	20.3%	
N	จอง/ชื่อตั๋ว หรือบัตร	29.8%	23.5%	<b>29.9%</b>	20.7%	24.1%	
	จองโรงแรน/ที่พัก ออนไลน์	29.6%	21.9%	27.7%	22 3%	23.6%	
	เรียนออนไลน์ (e-Learning)	23.9%	26.2%	24.9%	22.1%	27.8%	Others > BKK
	ใช้บริการรถโดยสารออมไลน์	30.8%	15.2%	13.2%	13.2%	15.4%	
	ใช้งานบริการภาครัฐผ่านระบบออนไลน์	19.7%	19.0%	19.9%	21.9%	20.1%	Others > BKK
	รับ-ส่งสินค้า/พัสดุ/เอกสารออนไลน์	19.5%	19.2%	17.6%	16.9%	15.2%	
	ขายสินค้าและบริการออนไลน์	16.8%	16.2%	16.0%	15.1%	13.7%	
	หางาน/สมัครงานออนไลน์	15.0%	12.5%	11.4%	11.2%	12.3%	
Others < BKK	ชื่อขายสินทรัพย์เพื่อการลงทุนออนไลน์	16.0%	8.8%	9.7%	10.9%	9.6%	12



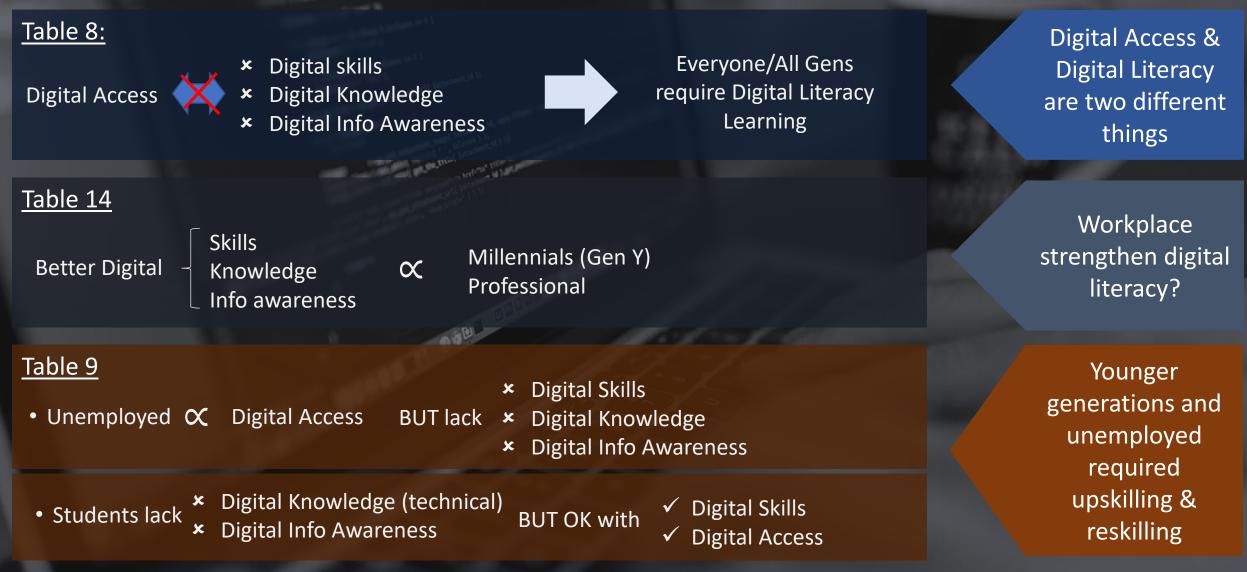
## 3. Results

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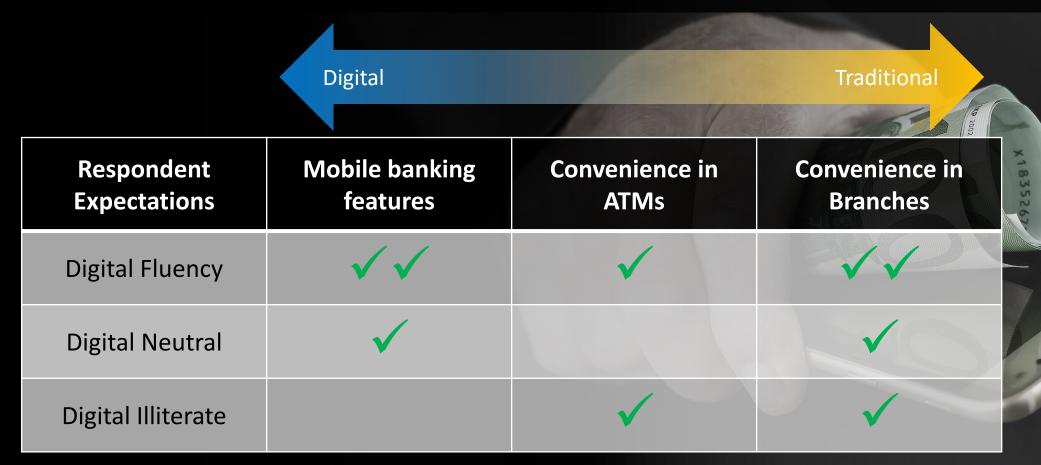
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#### Digital Access and Young Gen do not guarantee Digital Literacy



#### Banking Preferences: Take survey results further



Banks

Service designs at each channel will be different

What do each group use Mobile Banking for? What do each group use Branch Banking for?

#### Correlation vs. Causality: May draw different conclusions

Higher Income

Higher - Digital Skills Digital Knowledge Digital Awareness

Digital Literacy What causes what? Possibly test with some instrument variables Z.

Digital Literacy



"Use banking in <u>more productive way</u>" p. 38 No evidence provided. Causality is unclear.

"Appropriate level of Digital Literacy" "Could work in high ranking position and receive high incomes"

p. 44

"Low level of digital literacy"



"Cause of unemployment"

p. 44

Evidence is not enough to reach this conclusion. Requires study of Digital Literacy and Labor Market impact

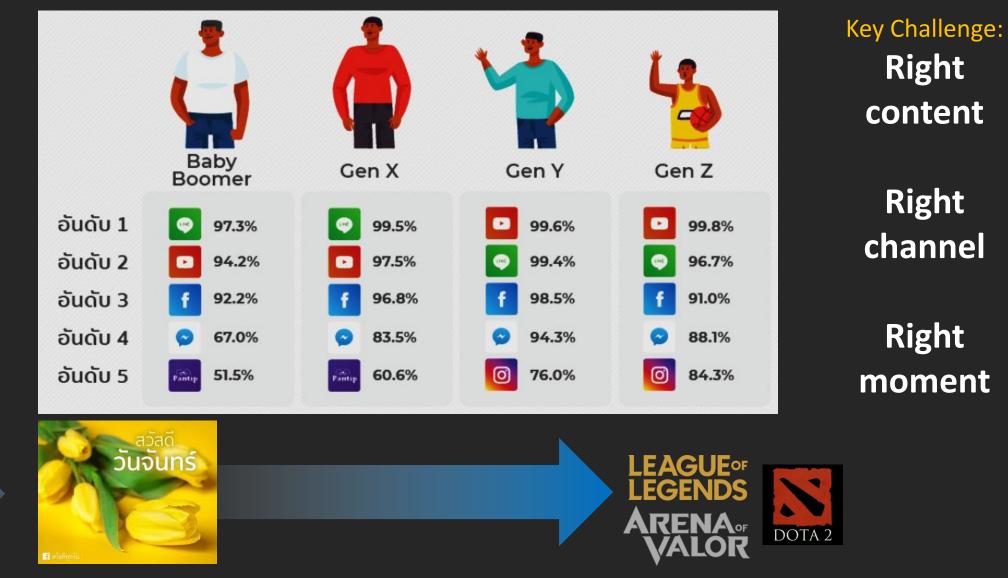
## 4. Policy Recommendations

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#### Policy designs to lift Digital Literacy for each target groups



#### Targeted towards their digital behaviors may be the success factor



Interests and use cases are very different

ETDA (2019). Thailand Internet User Profile 2018.

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