# Understanding the Divide: Implications from Developing Asia

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#### Digital divide can be seen as a determinant of the use of digital platforms

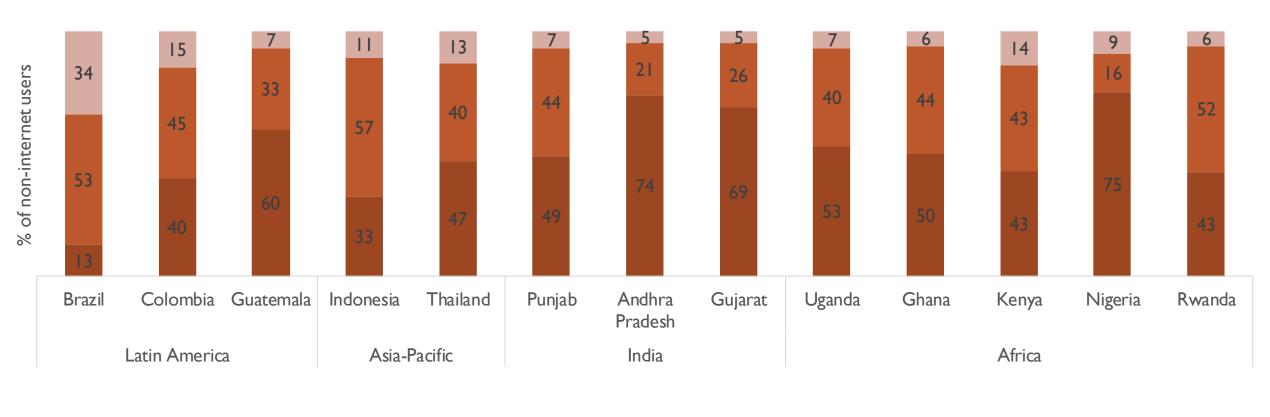
A cumulative and recursive model of successive kinds of access to digital technologies USAGE ACCESS Digital technology NEXT INNOVATION (ICT) (DIGITAL PLATFORMS) SKILLS ACCESS -STRATEGIC ,.............. -INFORMATIONAL -INSTRUMENTAL DIGITAL MATERIAL ACCESS MOTIVATIONAL ACCESS **4**..... TECHNOLOGY

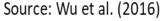
Van Dijk (2006; 2011) presents a cumulative and recursive model that extends the concept of access from the basic understanding of counting people or groups with computer or access connection at their disposal (material access) to social, psychological or cultural backgrounds (motivational access). Further, digital skills (skills access) or competencies or technology use and applications (usage access) are also included.



#### One of the main barriers for accessing the internet would be not knowing what it is and what it can do

Awareness and understanding of the internet among non-users (2014-2015)







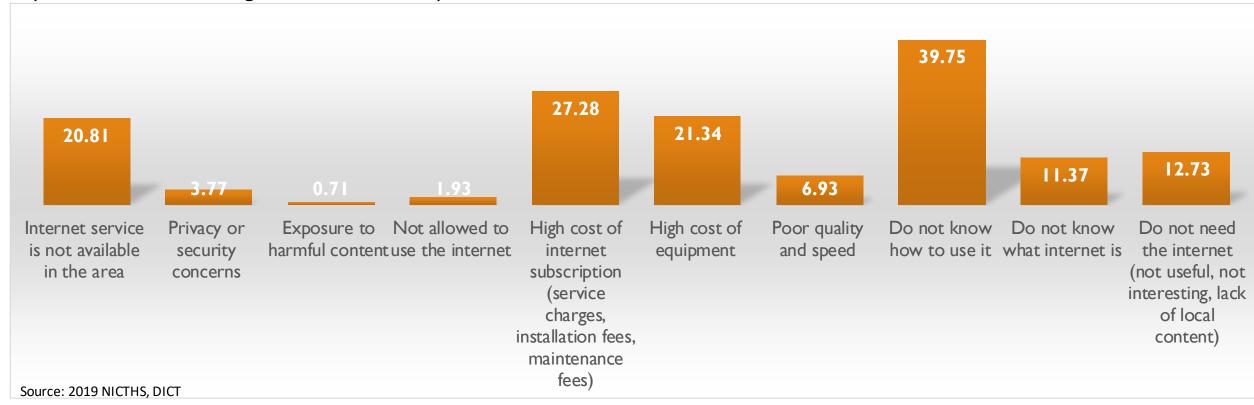
<sup>■</sup> Never heard of the internet

<sup>■</sup> Recognize the word "internet"

<sup>■</sup> Know what the internet is

### Barriers to awareness and perception of ICT limit internet use

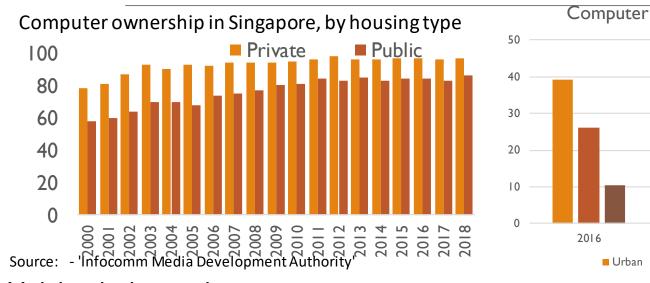
Top reasons for not using the internet of Filipinos

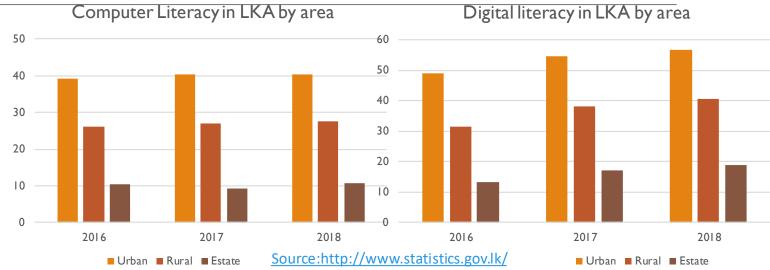


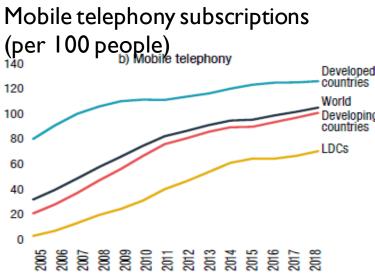


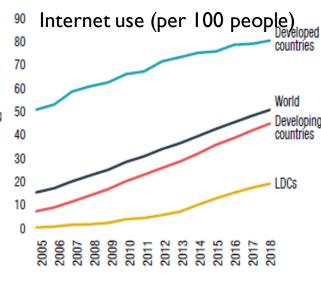
# Certain segments of the population have better access to computers and the internet

## More affluent areas tend to have better access to computers and the internet

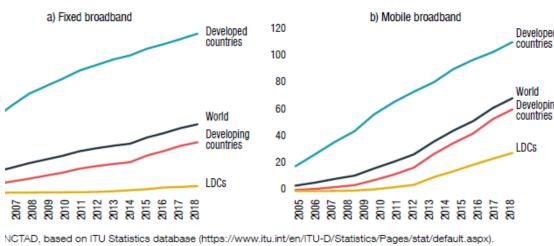








#### Broadband subscriptions, fixed and mobile (per 100 people)



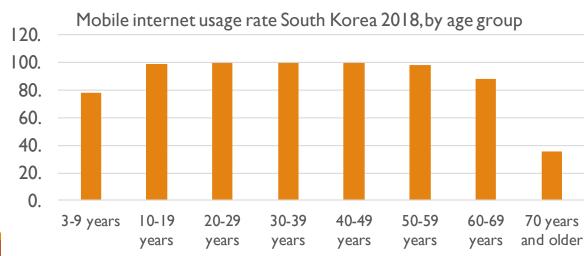


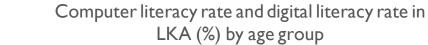
### Better digital access for those who are not so old or not so young.

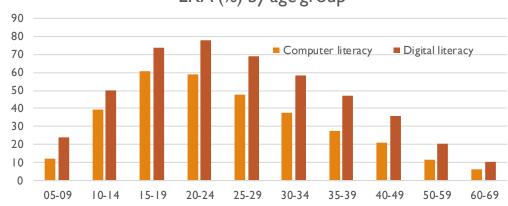
Percentage of Individual computer usage in Singapore, by age

Age Group				, , ,
(Years)	2015	2016	2017	2018
7-14	89	89	93	94
15-24	94	94	95	96
25-34	91	91	93	96
35-49	81	81	86	88
50-59	56	56	62	63
60 and above	25	25	28	33

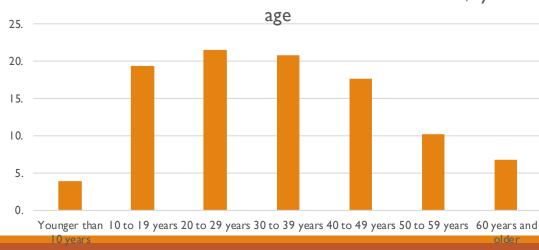
Source Url: 'https://www.imda.gov.sg/industry-development/facts-and-figures/infocomm-usage-house holds-and-individuals'



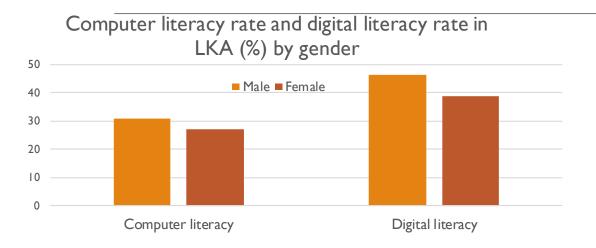


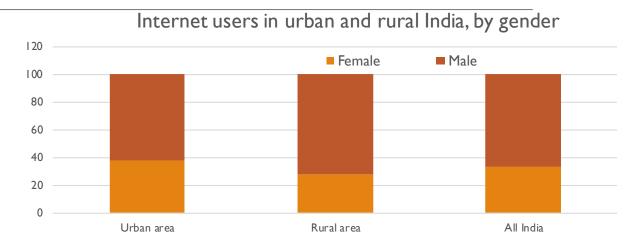


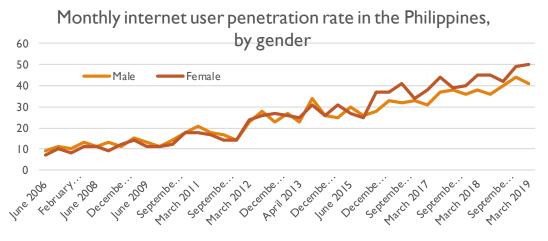
Breakdown of internet users in China in March 2020, by



### ICT access is commonly better for males than females.





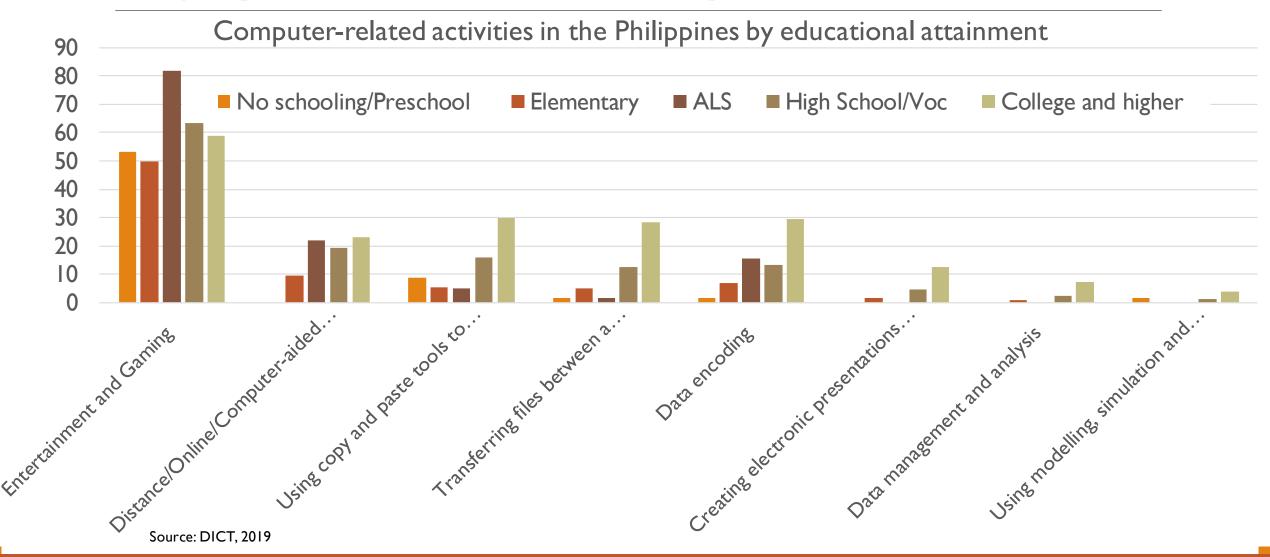








#### Highly skilled for more productive tasks

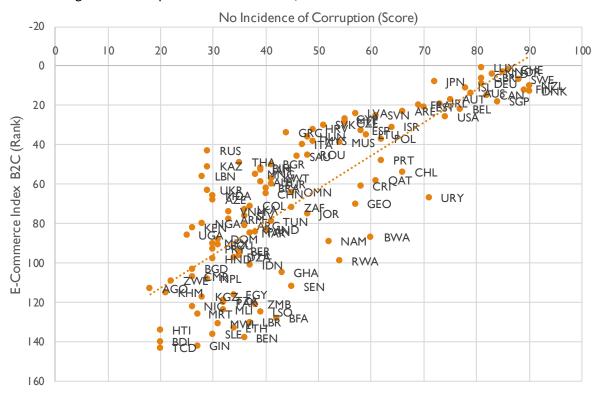




These segments are also more likely participate inand benefit from-the platform economy

### Use of e-commerce is higher in countries perceived to be less corrupt

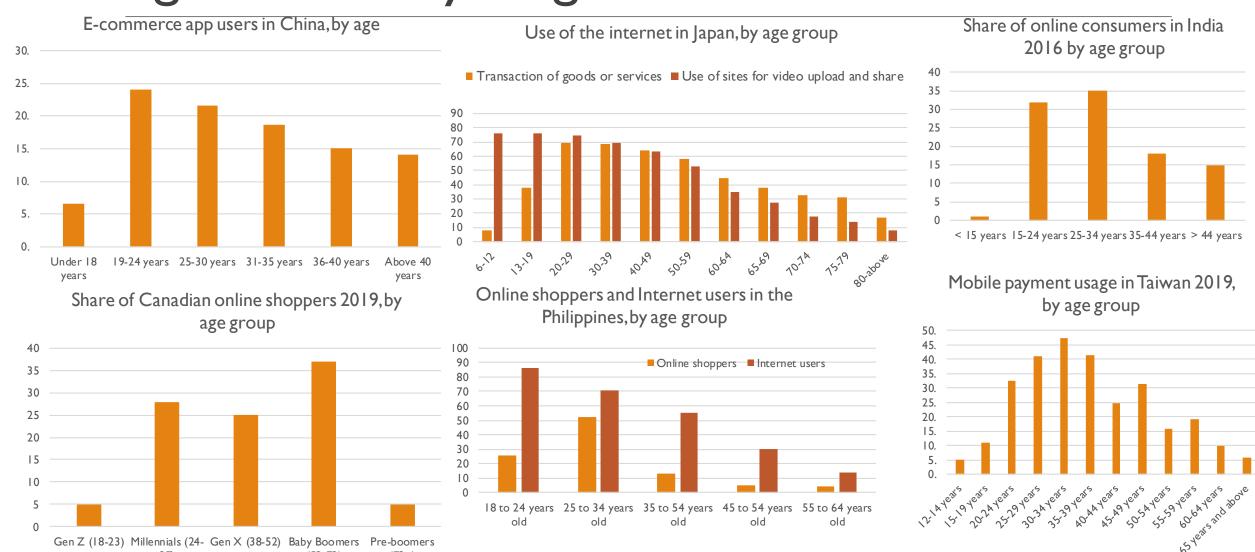
Figure xx. Corruption and E-commerce, 2017



Source of basic data: Global Competitiveness Index and E-Commerce Readiness Index, 2017

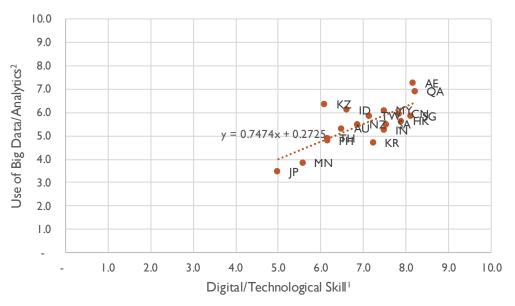


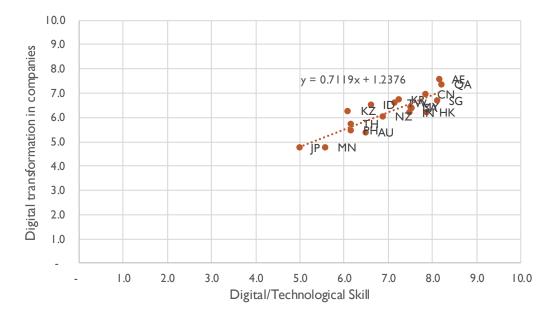
### Participation in digital platforms is more common among the not so young or not so old



#### Digital skills are important to maximize the use of the digital economy.

Digital and Technological skill and use of advance technologies in selected Asian Countries, 2019



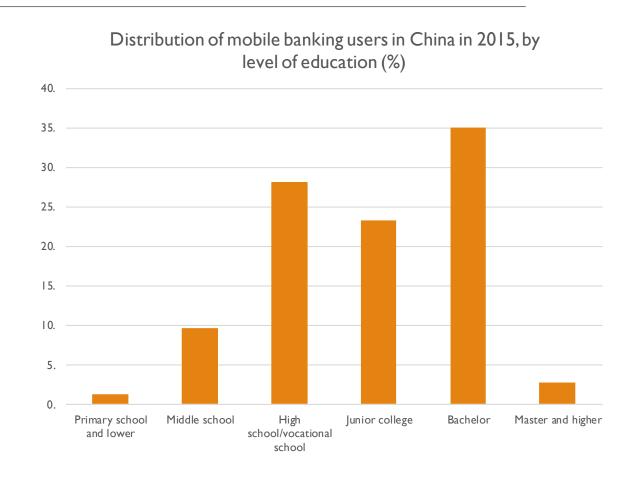


Source: © IMD WORLD COMPETITIVENESS ONLINE 1995 - 2020



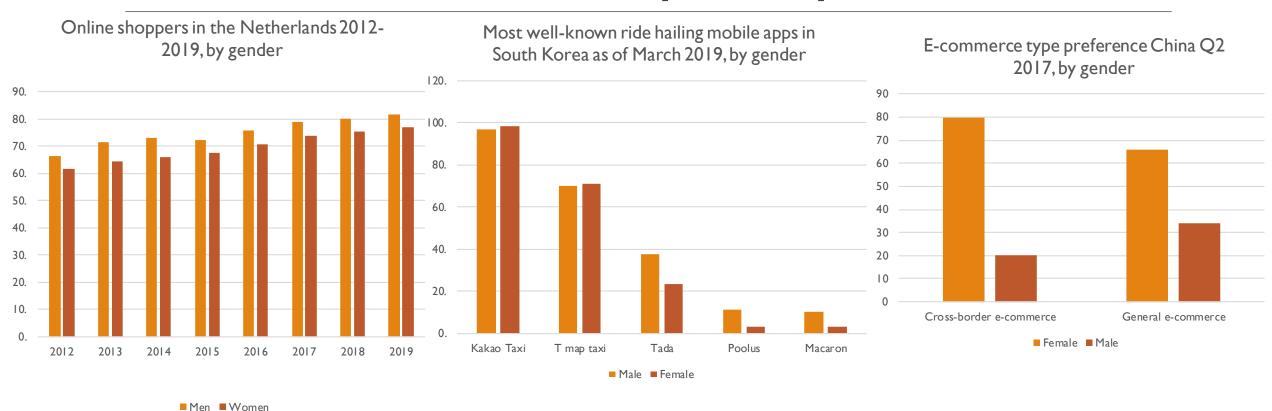
## Digital transactions occur more often for specific segments





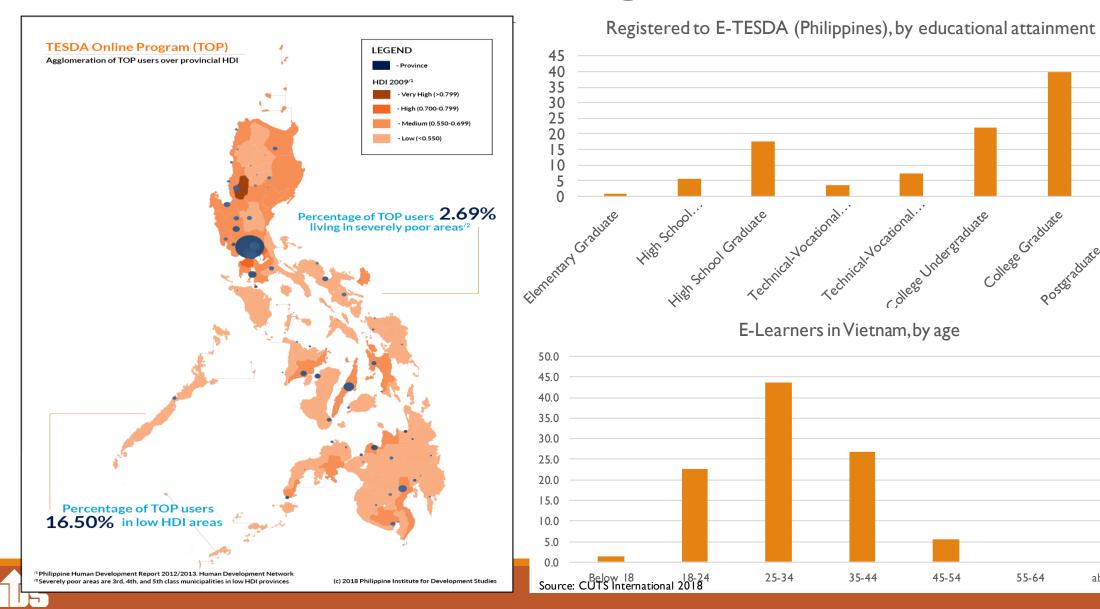


#### Often, males tend to participate more





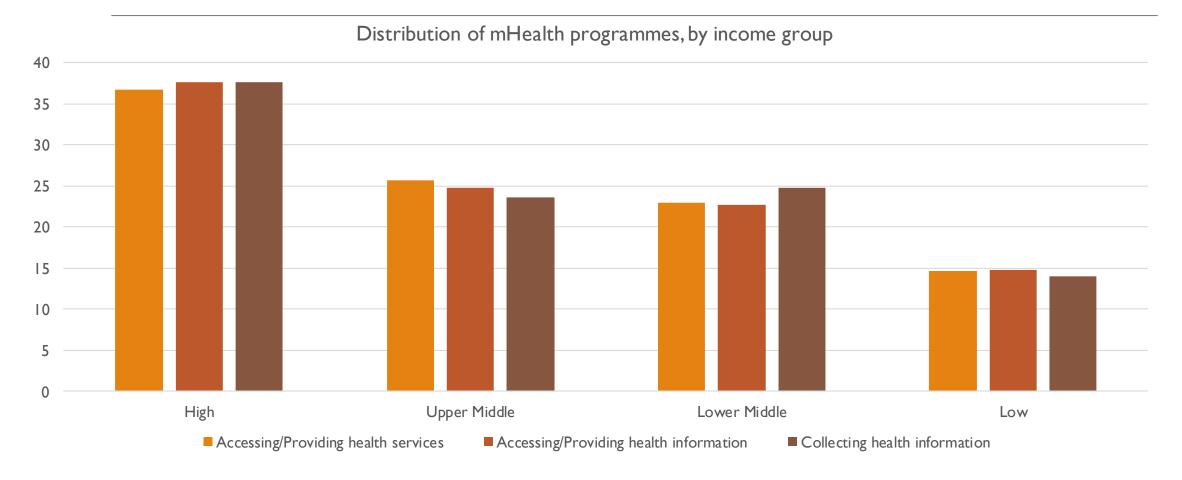
#### Better access to e-learning



55-64

above 65

#### Better access to E-health



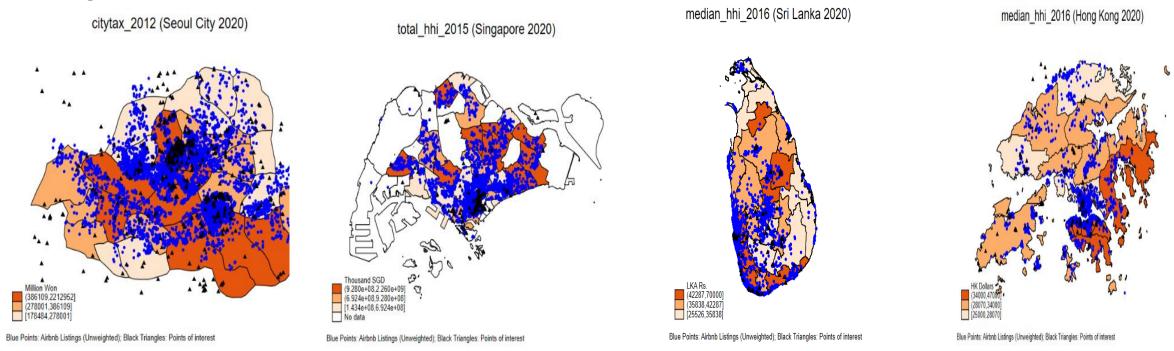
Source: WHO 2016



## Platforms also face their own issues related to usage divide

#### Usage access of AirBNB

#### Airbnb listings in selected Asian countries/cities



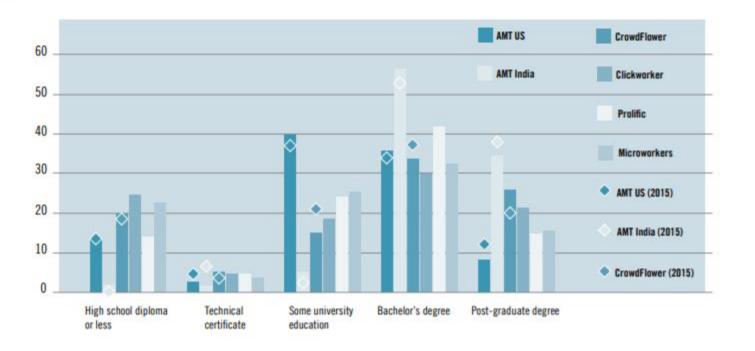
Source: Generated maps using data from Inside Airbnb and country shapefiles

Average HHI and AirBnB access overlayed together shows that areas in the central districts and richer areas tend to have more AirBnB listings



#### Crowdworkers are well-educated

Figure 3.6 Educational level of crowdworkers, by platform (percentages)



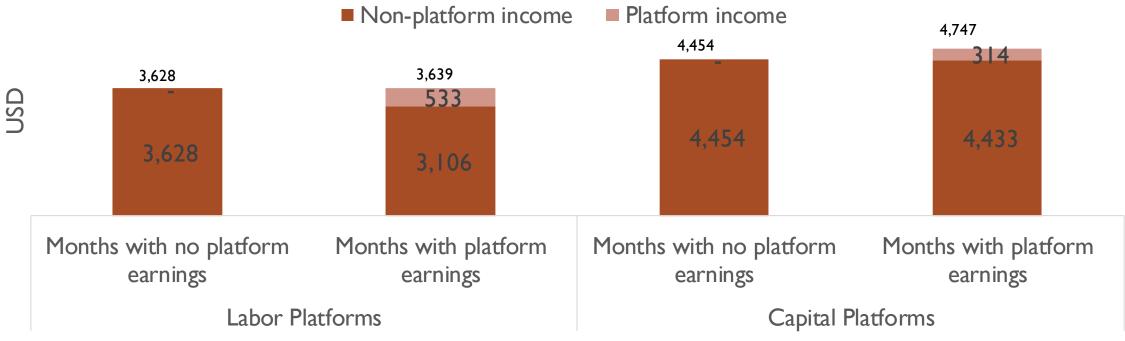
Crowdworkers are well-educated, with fewer than 18 per cent having a high school diploma or less in 2017. About one-fourth of the workers have a technical certificate or have some university education, and 37 per cent have a Bachelor's degree while 20 per cent have a post-graduate degree or higher education.

Source: ILO survey of crowdworkers, 2015 (S1 and S2) and 2017.



#### Earning more from platforms requires assets

Earnings in months with and without platform earnings (United States)

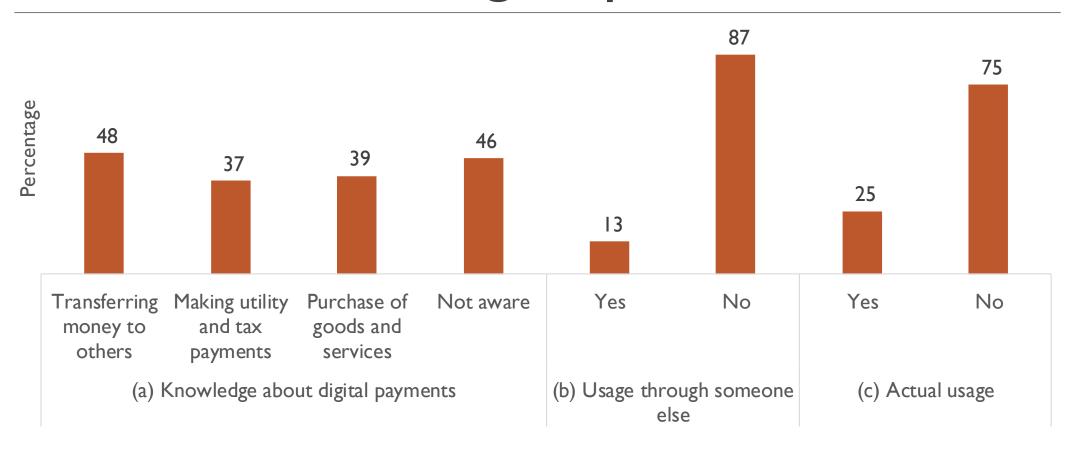


Source: Farrel and Greig (2016)

People who rent out assets on "capital" platforms like Airbnb or car-sharing site Turo are bringing in supplemental income. That's starkly different from people who sign up for "labor" platforms like Uber or TaskRabbit. They're typically working to offset shortfalls in their monthly earnings.



#### Indirect users of digital platforms





#### Key takeaways

- I Digital divide can be seen as a determinant of the use of digital platforms as barriers to material access, motivational and skills access affect how digital platforms will be used and maximized
- 2. Platforms also face their own issues related to usage divide which may contribute to higher levels of inequality
- 3. Policy interventions should address not only the provision of material access but also addressing the other forms of divide.



#### Policy Recommendations (I)

Access	Policy Recommendations
Motivational	Raise awareness on the implications of platforms and e-commerce Increase trust in online trasnactions by formulating and effectively enforcing laws and regulations needed to support the platform economy Increase entrepreneurial knowledge
Material	PPP to support national backbone infrastructure especially for the rural areas Impose quality targets for telecom services Invest in hubs, incubators and technology parks to support digital entrepreneurship
Skills	Promote digital financial literacy Build relevant skills to enable active participation in the digital economy especially for older segments of the population. Provide opportunities for women to participate in the digital economy Economies should also recognize the high importance of the use and promotion of multilingualism in the Internet and Digital Economy



### Policy Recommendations (2)

Platform	Policy Recommendations
E-commerce	Reduce regulatory burden for businesses  Obtain the trust of consumers by handholding on the use of the platform; Increase data security
E-Health	Improve policy environment surrounding e-health which would include the use of digital appointments; digital data collection; e-prescriptions; etc. Increase awareness from both doctors and consumers on Telemedicine
E-Learning	Provide less expensive means of participating in e-learning Public-private partnership is important in the formulation of modules





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### Thank you







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