



# ITU Asia-Pacific ICT Indicators Workshop

Manila, Philippines

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## Session 12: Hands-on exercise: Calculation of IDI for Indonesia 2017

ICT Data and Statistics Division  
Telecommunication Development Bureau  
International Telecommunication Union

# Exercise

Form groups of two by pairing with your neighbour. Working together, use indicators from the MISR 2017, calculate:

- Access sub-index
- Use sub-index
- Skills sub-index
- IDI

for country X

# Exercise

Country X indicators are as follows:

Fixed -telephone subscriptions per 100 inhabitants	4
Mobile-cellular subscriptions per 100 inhabitants	149.1
International Internet bandwidth (bits/s) per Internet User	24,947
Percentage of households with a computer	19.1
Percentage of households with Internet access	47.2

# Exercise

Country X indicators are as follows:

Percentage of individuals using the Internet	25.4
Fixed (wired)-broadband subscriptions per 100 inhabitants	1.9
Active mobile-broadband subscriptions per 100 inhabitants	67.3

# Exercise

Country X indicators are as follows:

Mean years of schooling	7.9
Secondary gross enrolment ratio	82.5
Tertiary gross enrolment ratio	31.1

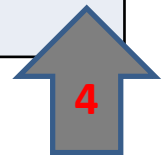
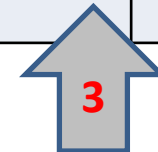
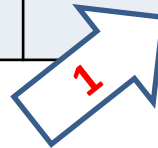


Working



# Country X Access sub-index

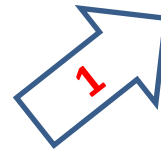
	Ideal value	Country X	Ratio to Ideal value	Sub-Index
Fixed -telephone subscriptions per 100 inhabitants	60	4	0.07	
Mobile-cellular subscriptions per 100 inhabitants	120	149.1	1	
International Internet bandwidth (bits/s) per Internet User	2,158,212	24,947	0.69	
Percentage of households with a computer	100	19.1	0.19	
Percentage of households with Internet access	100	47.2	0.47	4.85



# Country X - Use sub-index

Repeat for Use indicators

	Ideal value	Country X	Ratio to Ideal value	Sub-Index
Percentage of individuals using the Internet	100	25.4	0.25	
Fixed (wired)-broadband subscriptions per 100 inhabitants	60	1.9	0.03	
Active mobile-broadband subscriptions per 100 inhabitants	100	67.3	0.67	3.20

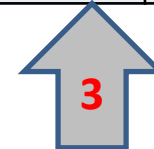
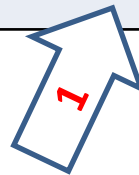




# Country X - Skills sub-index

Repeat for Skills indicators

	Ideal value	Country X	Ratio to Ideal value	Sub-Index
Mean years of schooling	15	7.9	0.53	
Secondary gross enrolment ratio	100	82.5	0.83	
Tertiary gross enrolment ratio	100	31.1	0.31	5.54





# Country X - IDI

- Access sub-index = 4.85
- Use sub-index = 3.20
- Skills sub-index = 5.54
- $IDI = \frac{(40*4.85)+(40*3.20)+(20*5.54)}{100} = 4.33$
- IDI rank = 111

Thank you



For more information  
<http://www.itu.int/ict>  
and  
[indicators@itu.int](mailto:indicators@itu.int)