

#### **ITU Regional ICT Indicators Workshop for Africa**

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

ICT Data and Statistics Division
Telecommunication Development Bureau
International Telecommunication Union



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



### 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



### 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	67.3
100 inhabitants	



### 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

			Datia ta	
			Ratio to	_
	Ideal		Ideal	Sub-
	value	Country X	value	Index
Fixed -telephone subscriptions per 100	60	4	0.07	
inhabitants				
Mobile-cellular subscriptions per 100	120	149.1	1	
inhabitants		1.3.1		
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	100	47.2	0.47	4.85
access				
	>	2	3	4



## 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

2 3



### 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 <a href="http://www.itu.int/ict">http://www.itu.int/ict</a> and <a href="mailto:indicators@itu.int">indicators@itu.int</a>