



# ITU Asia-Pacific Regional Workshop on ICT Indicators

## Ha Noi, Viet Nam

2-4 October 2019

### **ICT Price Baskets**



ICT Data and Statistics Division  
Telecommunication Development Bureau  
International Telecommunication Union

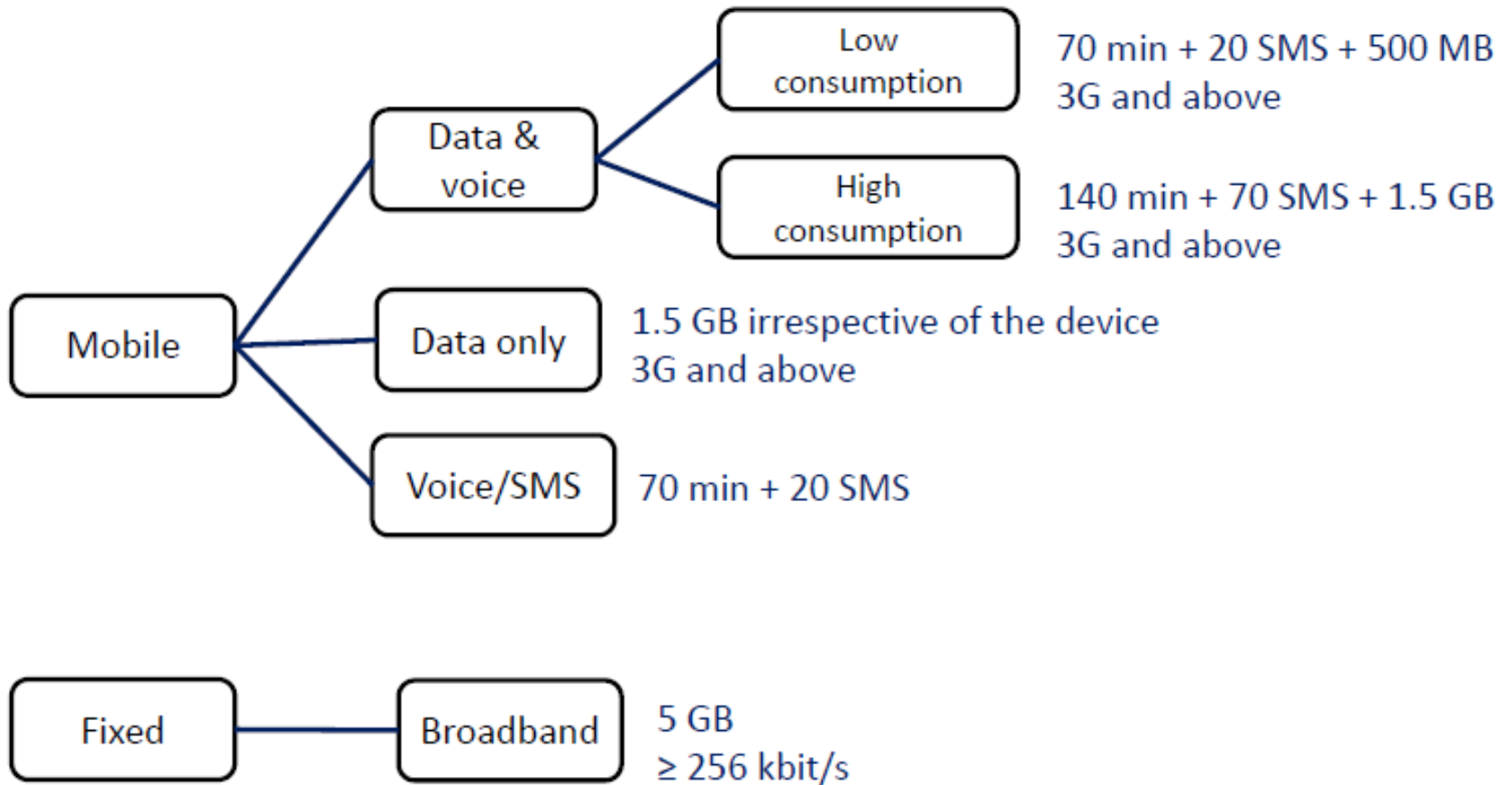


# What is a price basket

- Recall the CPI “Basket of goods and services”
- ITU’s ICT price basket: a defined set of consumer telecommunications services whose prices are collected on a regular basis.
- The telecommunications services in the basket are often adjusted periodically to account for changes in consumer habits.
- 5 such baskets are defined by the ITU.

# The 5 baskets

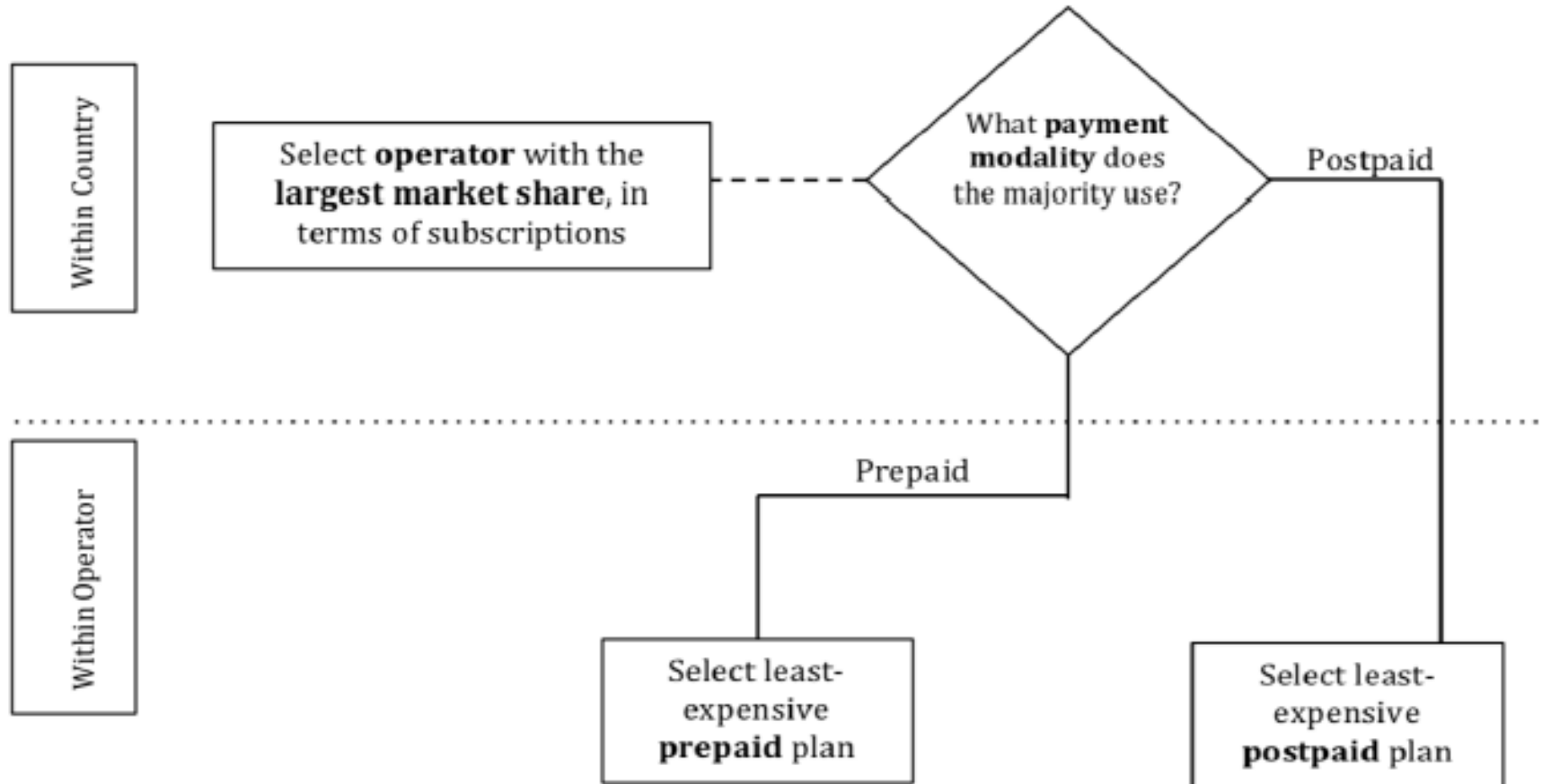
From October 2018





- New sub-baskets were defined from Oct 2018
- Differences between the immediate past and new sub-baskets are given in the slides at the end of this presentation but will not be discussed.

# Tariff selection process





# Rules for collecting Mobile-cellular prices

1. Which operator? Which region?
2. Currency
3. Prepaid / postpaid
4. Which package?
5. Internal Units as per minute price



# Rules for collecting Mobile-cellular prices

6. Regular (non-promotional) plan
7. No to favourites
8. Prices of outgoing local calls only
9. Per minute cost of a two-minute call to be reported
10. Beyond 2 minutes



# Rules for collecting Mobile-cellular prices

11. Connection cost per call
12. Different off-peak prices
13. Different peak prices
14. Peak and off-peak SMS prices
15. Charges by call or hour
16. Monthly recurring charges





# Rules for collecting fixed broadband internet prices

1. Which operator? Which region?
2. Currency
3. Residential, single user prices
4. Which plan?
5. Plans with no data cap or limit
6. Plans with limited hours of use



# Rules for collecting fixed broadband internet prices

7. Commitment periods
8. Price the technology with the greatest number of subscriptions in the country
9. Stick to the same price plan for all other data collected
10. Regular non-promotional plans only
11. Convergence and challenges posed



# Rules for collecting data-only mobile-broadband prices

1. Which operator? Which region?
2. Currency
3. Residential single user prices
4. Prepaid / postpaid
5. Technology
6. Validity period



# Rules for collecting ~~fixed~~ mobile broadband internet prices

7. Cheapest plan with a data volume allowance of a minimum of 1.5 GB per month (irrespective of the device used)
8. Pay-as-you-go
9. Unlimited data? Read the fine print
10. Non-recurrent fees
11. Bundled
12. Regular (non-promotional) plan



# Rules for collecting prices: Bundled mobile-broadband services

1. Which operator? Which region?
2. Currency
3. Only residential, single user prices should be collected
4. Technology
5. Prepaid / postpaid?



# Rules for collecting prices: Bundled mobile- broadband services

6. Validity period
7. Price data should be collected for two mobile-broadband bundles separately. The cheapest plan meeting the requirements of each bundle should be selected:
  - a. Low-consumption bundles: 70 minutes, 20 SMS and 500 MB
  - b. High-consumption bundles: 140 minutes, 70 SMS and 1.5 GB
8. The excess price per voice
9. The excess price per SMS



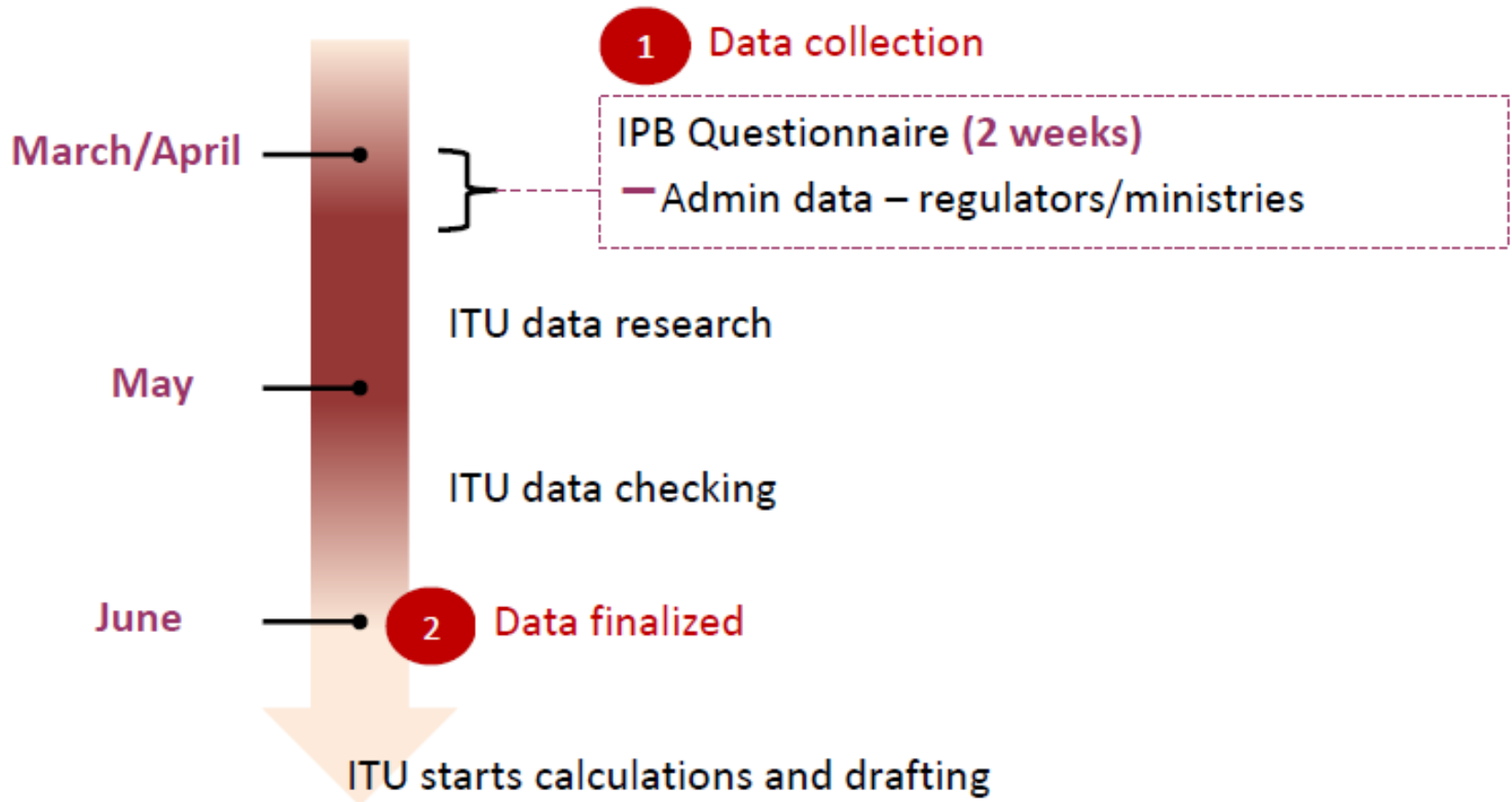
# Rules for collecting prices:

## Bundled mobile- broadband services

10. Pay-as-you-go
11. Unlimited data? Read the fine print
12. Non-recurrent fees
13. Cheapest available package even if this is bundled
14. Regular (non-promotional) plan



# Collection of price data by ITU





# Entering mobile-broadband prices in the online questionnaire



1. All data entered refer to the base plan.
  - Capacity
  - Validity
2. To enter an unlimited data allowance, enter the required cap for basket (500 MB or 1GB) and add “unlimited” in notes for the cap.
3. To enter a pay-as-you-go offer, enter the price for 1 MB for the price of the plan and 1 MB as the cap.

# Entering mobile-broadband prices in the online questionnaire



- Case A: the base plan fits the minimum requirements of the basket in terms of data allowance and validity. Enter the data for the base plan.
- Example1: 10\$ for 1.5 GB and 30 days validity, and no cheaper plan for 1.5 GB-> data entered in the database for the data-only mobile-broadband basket: price 10\$, capacity 1.5 GB and validity 30 days.
- Example2: 12\$ for 2 GB and 30 days validity, and no cheaper plan for 1.5 GB -> data entered in the database for the data-only mobile-broadband basket: price 12\$, capacity 2 GB and validity 30 days.

# Entering mobile-broadband prices in the online questionnaire



- Case B: the base plan does not fit the requirements of the basket in terms of data allowance, validity period, or both and thus needs to be multiplied several times. Enter the data for the base plan and add in a note how to calculate the basket.
  - Example1: 4\$ for 750 MB and 30 days validity, and the cheapest option for a 1.5 GB monthly consumption is to take this plan twice -> data entered in the database for the data-only mobile-broadband basket: price 4\$, capacity 0.75 GB, validity 30 days.
  - Example2: 2.5\$ for 600 MB and 30 days validity, and the cheapest option for a 1.5 GB monthly consumption is to take this plan thrice -> data entered in the database: price 2.5\$, capacity 0.6 GB, validity 30 days.

# Entering mobile-broadband prices in the online questionnaire

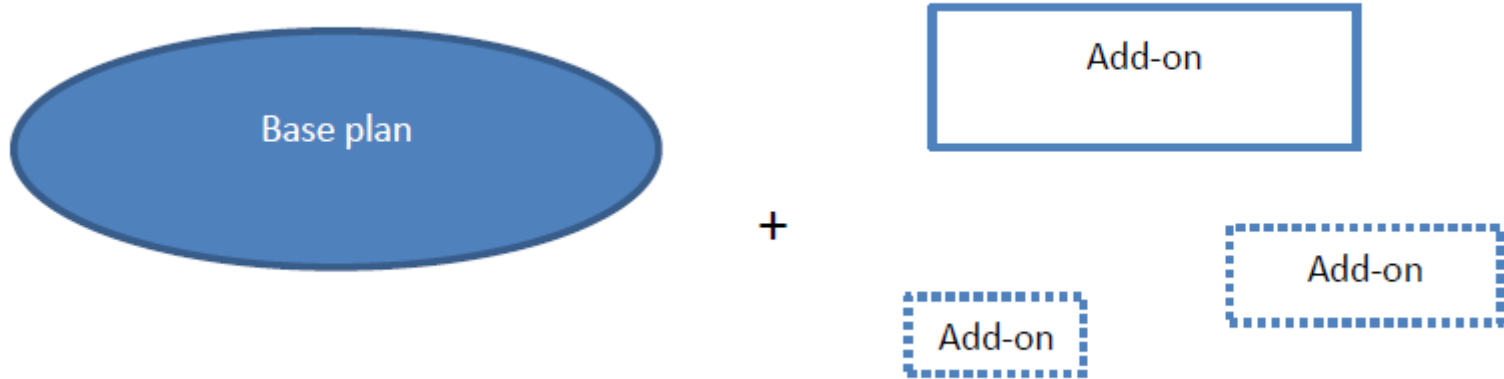


# Entering mobile-broadband prices in the online questionnaire



- Case C: the base plan does not fit the requirement of the basket either in terms of data allowance, validity period or both and thus one or several add-on packages must be added. Enter the data for the base plan and add in a note how to calculate the basket.
- Example1: the cheapest option for 1.5 GB of monthly data allowance is to combine a plan for 8\$, 1 GB and 30 days validity, and an add-on for 2\$, 500 MB and 30 days validity -> data entered in the database for the data-only mobile-broadband basket: price 8\$, capacity 1 GB and validity 30 days -> in the note it is specified "To be combined with an add-on package: 2\$, 500 MB and 30 days validity".

# Entering mobile-broadband prices in the online questionnaire





- The main objectives of the ITU ICT Price Basket are to raise awareness of the importance of ICT prices for ICT usage and to allow policy makers to evaluate the cost of ICTs in their country and benchmark them against those of other countries.
- Policy discussions and analysis often tend to be focused on the availability of infrastructure, whereas the ‘power of price’ is often not sufficiently addressed. For this reason, it is hoped that the ICT Price Basket will provide countries with a useful additional tool for benchmarking and analysis.
- MISR 2009



# Visualization tools

- <https://www.itu.int/net4/ITU-D/ipb/>

The screenshot shows the ITU ICT Price Baskets (IPB) website interface. The page title is "ICT Price Baskets (IPB) # ITUdata". The interface includes three tabs: "IPB Rank" (selected), "IPB Time Series", and "IPB Comparison".

Filters are set as follows:

- Basket: Fixed-broadband basket
- Year: 2017
- Region: IPB Global Rank

Share and Print options are available:

- Share: Facebook, Twitter, LinkedIn
- Print: Print icon
- Export / Save: Save icon

The main content is a table showing the top 3 ranked countries:

Rank	Economy	% of GNI p.c.	USD	PPP\$	Tax rate included (%)
1	Austria	0.15	5.63	5.86	N/A
2	Luxembourg	0.19	11.27	9.93	N/A
3	Poland	0.25	2.64	5.31	N/A





- Tabs :

IPB Rank	IPB Time Series	IPB Comparison
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Basket :

- Fixed-broadband basket
- Mobile-cellular basket
- Mobile-broadband basket, prepaid handset-based (500MB)
- Mobile-broadband basket, postpaid computer-based (1GB)

Year :

2017 ▼

Region :

- IPB Global Rank
- IPB Regional Rank: Africa
- IPB Regional Rank: Arab States
- IPB Regional Rank: Asia & Pacific
- IPB Regional Rank: CIS
- IPB Regional Rank: Europe
- IPB Regional Rank: The Americas



Rank	Economy	% of GNI p.c.	USD	PPP\$	Tax rate included (%)
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3	Poland	0.25	2.64	5.31	N/A

Share:



Print: Export / Save:





IPB Rank      IPB Time Series      IPB Comparison

Basket :

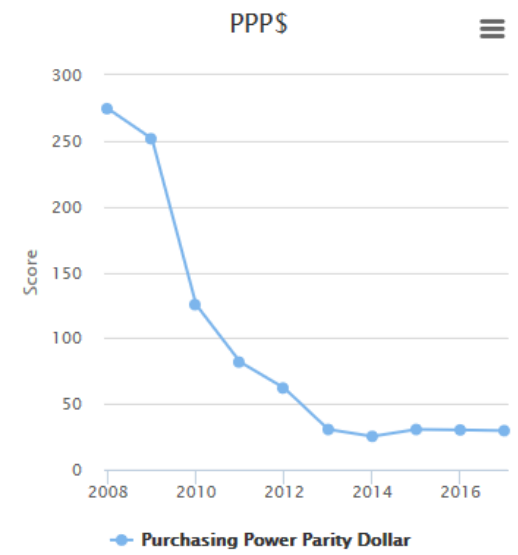
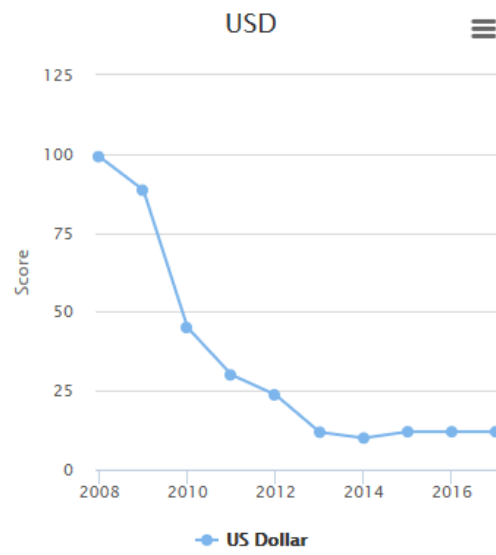
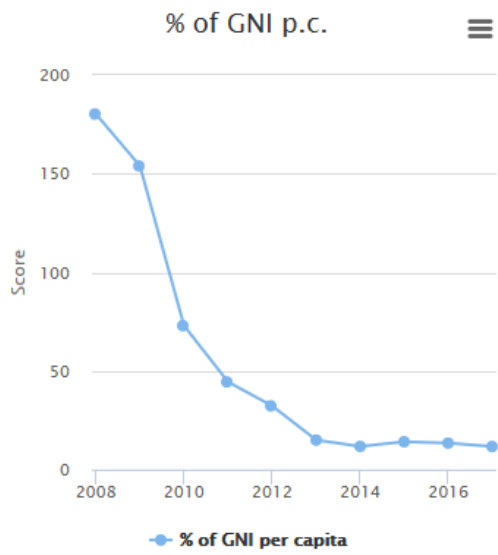
Fixed-broadband basket ▼

Region / Economy :

Cambodia ▼

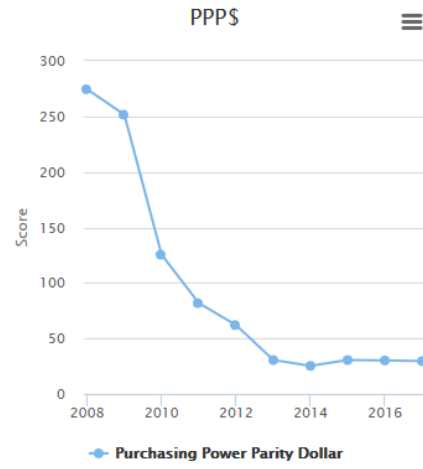
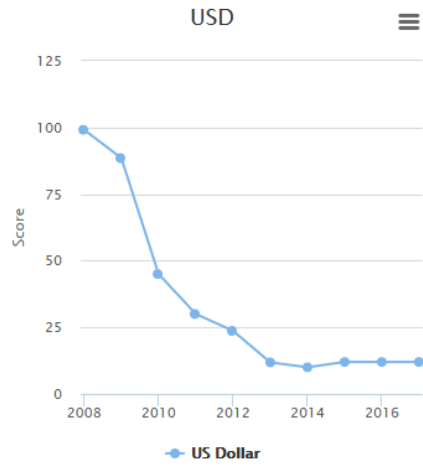
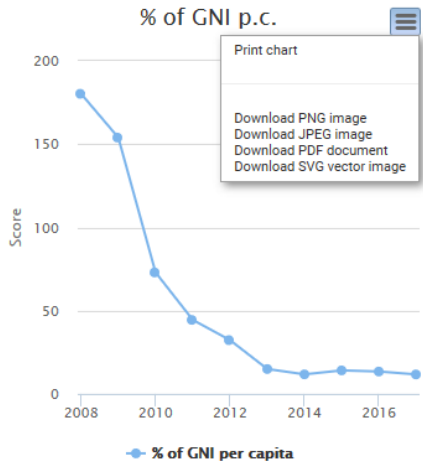
Rank	Year	% of GNI p.c.	USD	PPP\$	Tax rate included (%)
N/A	2008	180.23	99.13	274.40	N/A
N/A	2009	153.94	88.51	251.52	N/A
N/A	2010	72.97	45.00	125.42	N/A
N/A	2011	44.44	30.00	81.77	10.00
N/A	2012	32.30	23.68	62.01	10.00

Select an option  
World  
Developing  
Developed  
LDCs  
-----  
Select a Country  
Afghanistan  
Albania





146	2015	14.12	12.00	30.56	10.00
151	2016	13.46	12.00	30.16	10.00
137	2017	11.71	12.00	29.58	10.00





IPB Rank

IPB Time Series

IPB Comparison

Compare regions / economies :

Cambodia



Lao P.D.R.



or write country name here

or write country name here

Share:



Print: Export / Save:



	<b>Cambodia</b>	<b>Lao People's Democratic Republic</b>
<b>Fixed-broadband basket</b>		
% of GNI p.c.	11.71	9.11
USD	12.00	17.24
PPP\$	29.58	44.36
<b>Mobile-cellular basket</b>		
% of GNI p.c.	6.68	3.53
USD	6.85	6.67
PPP\$	16.88	17.16
<b>Mobile-broadband, prepaid handset-based (500 MB)</b>		
% of GNI p.c.	0.98	1.27
USD	1.00	2.39
PPP\$	2.46	6.16
<b>Mobile-broadband basket, postpaid computer-based (1GB)</b>		
% of GNI p.c.	1.95	2.53
USD	2.00	4.79
PPP\$	4.93	12.32



- <https://www.itu.int/en/ITU-D/Statistics/Pages/ICTprices/default.aspx>



## ICT PRICE BASKETS (until 2017)

Baskets

Fixed Broadband Basket



Dimensions

PPP



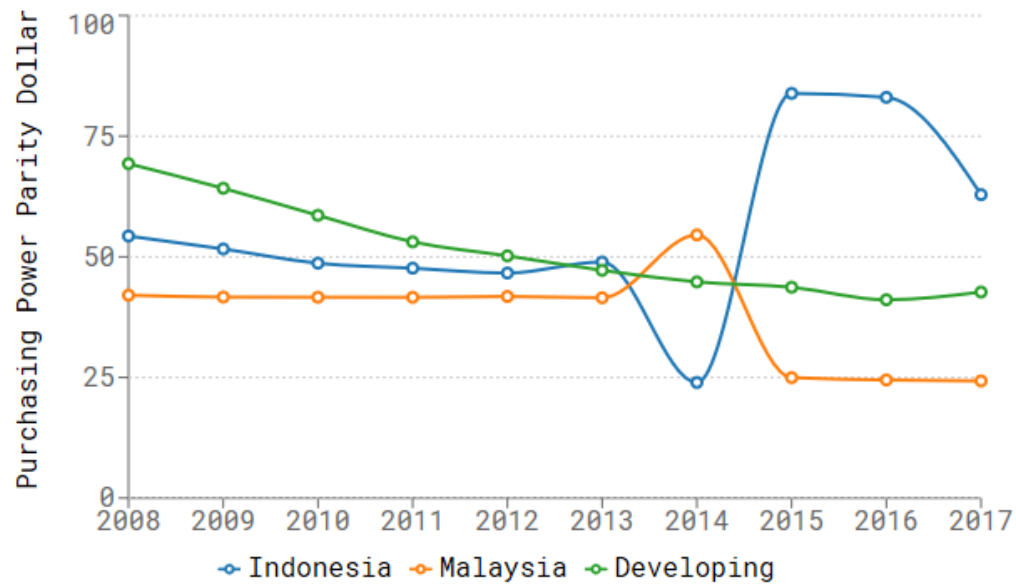
Countries / Regions

[Methodology](#)

Developing x

Indonesia x

Malaysia x

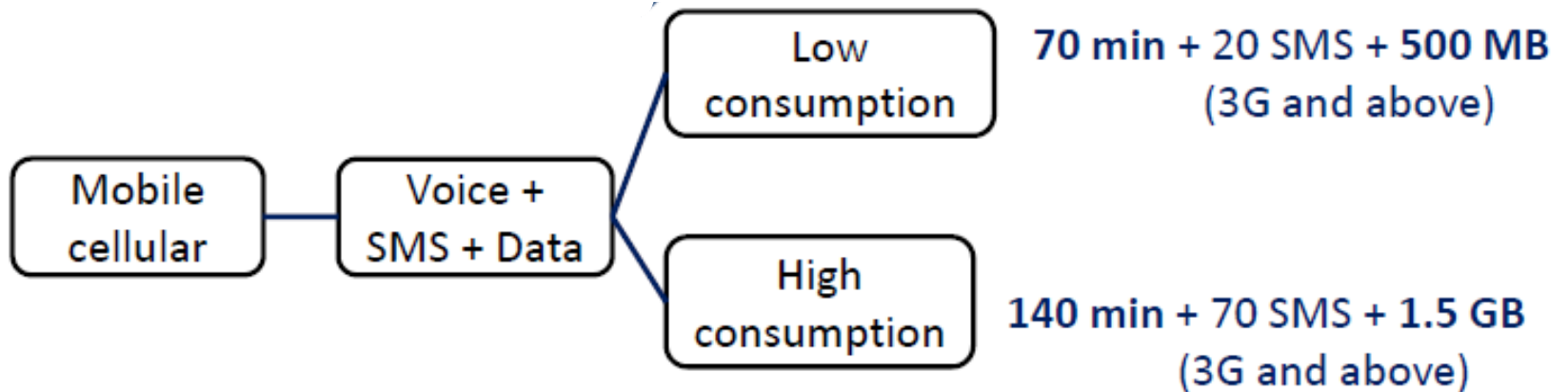


Previous sub-basket

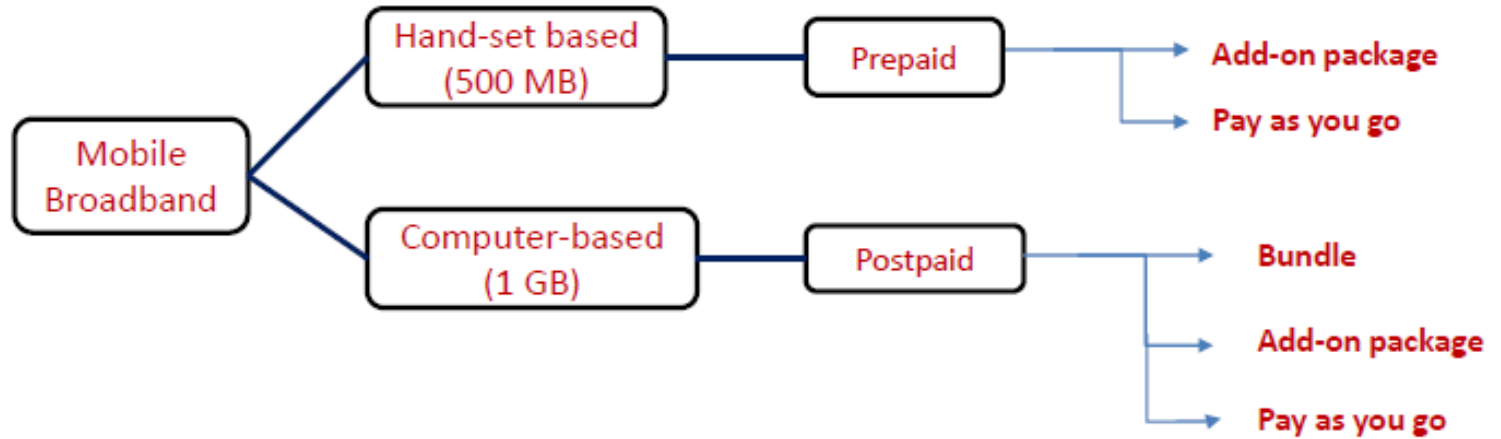


Approx. 50 min + 100 SMS  
(based on OECD 2010)

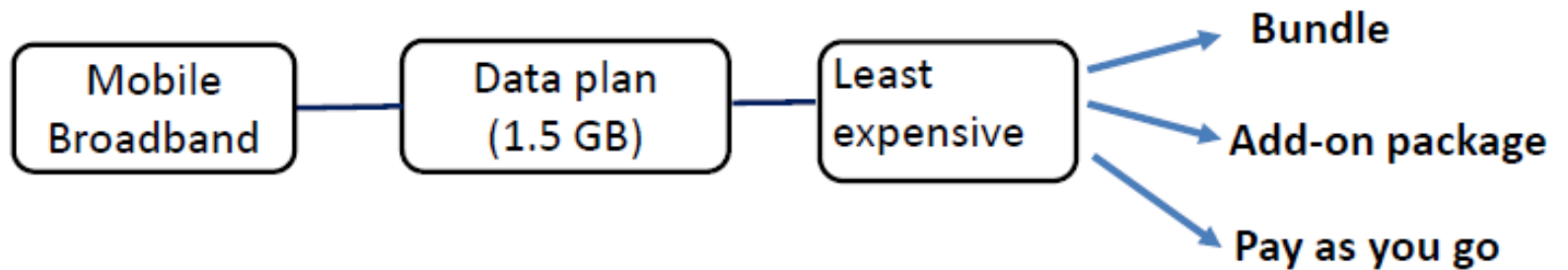
New sub-baskets



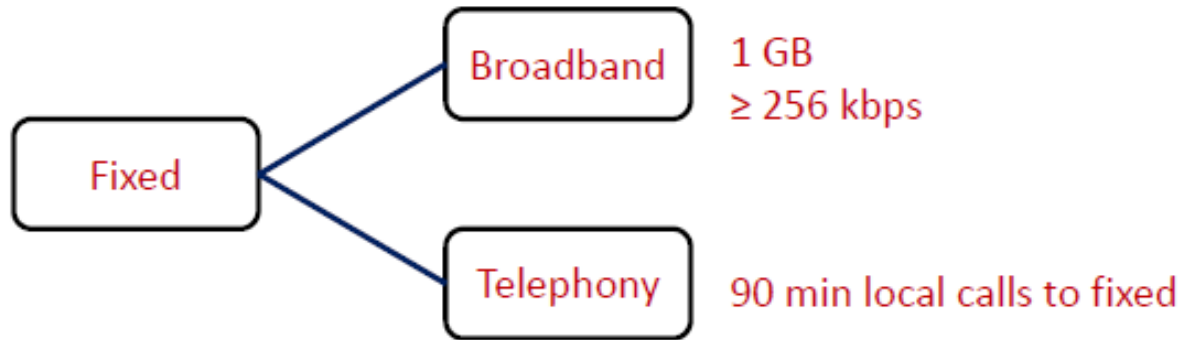
Previous sub-basket



New sub-basket



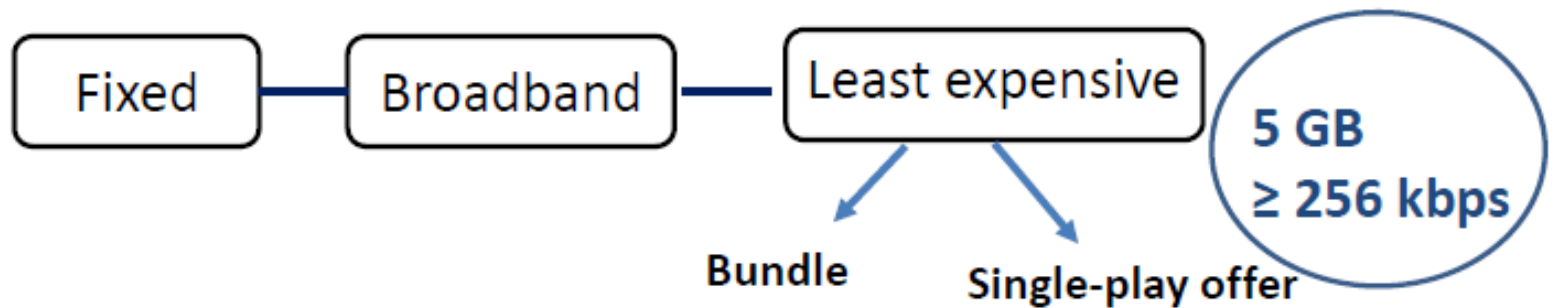
Previous sub-basket



Collected but not reported.

Is there value in continuing with this sub-basket?

New sub-basket



Thank you



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