

DIGITAL DIVIDE IN ASIA AND THE PACIFIC

ICT and Development Section
ICT and Disaster Risk Reduction Division

Outline:

1. Broadband connectivity for sustainable development;
2. Digital divide (global/regional).



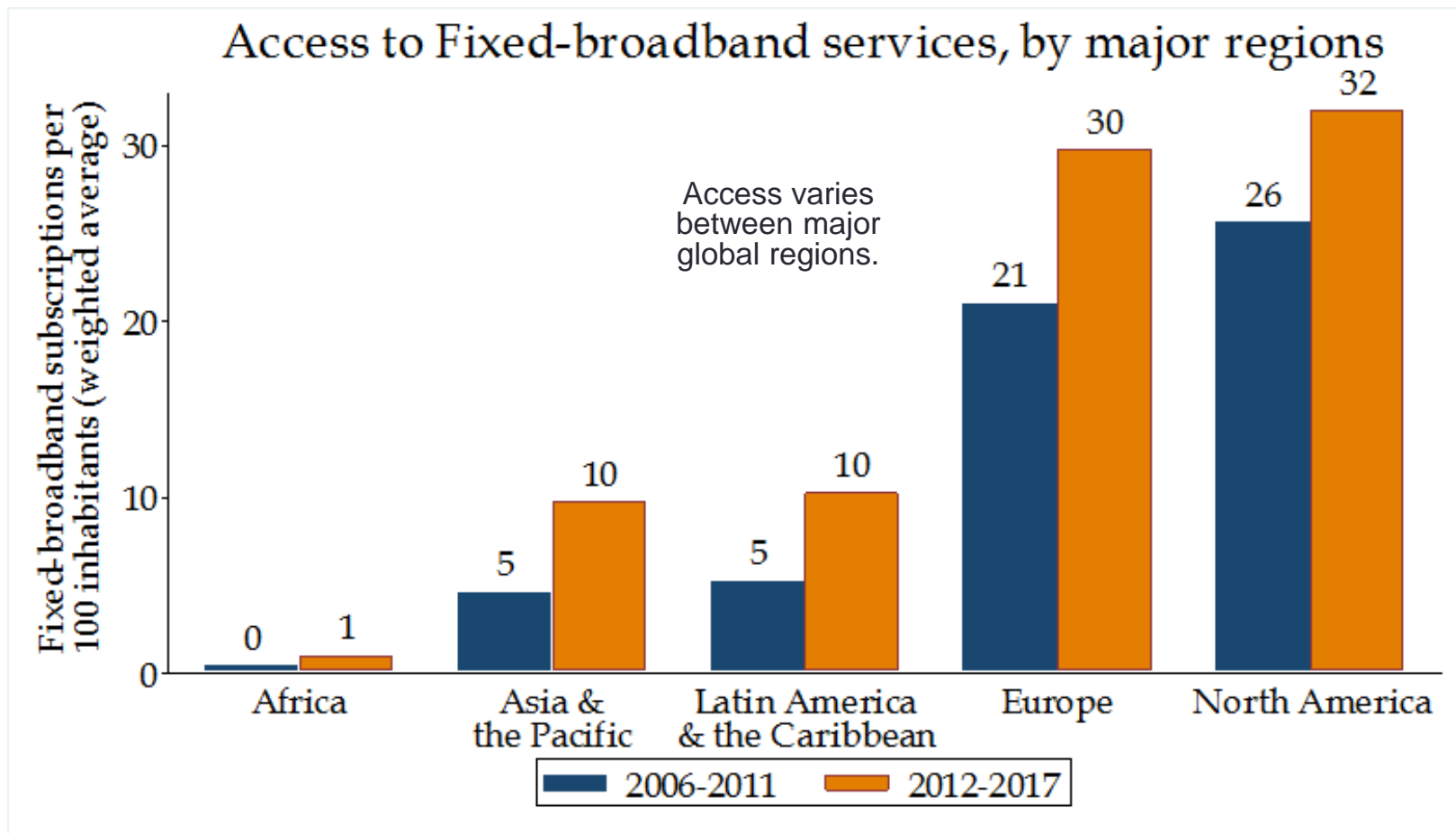
Broadband connectivity for sustainable development:

Broadband connectivity continues to be a critical link between users and leveraging the opportunities of the information communication technologies. Broadband connectivity is important for:

- a) Industry sectors productivity (manufacturing, e-commerce, banking, transportation etc);
- b) E-government services (public services); among others...



Global trends:

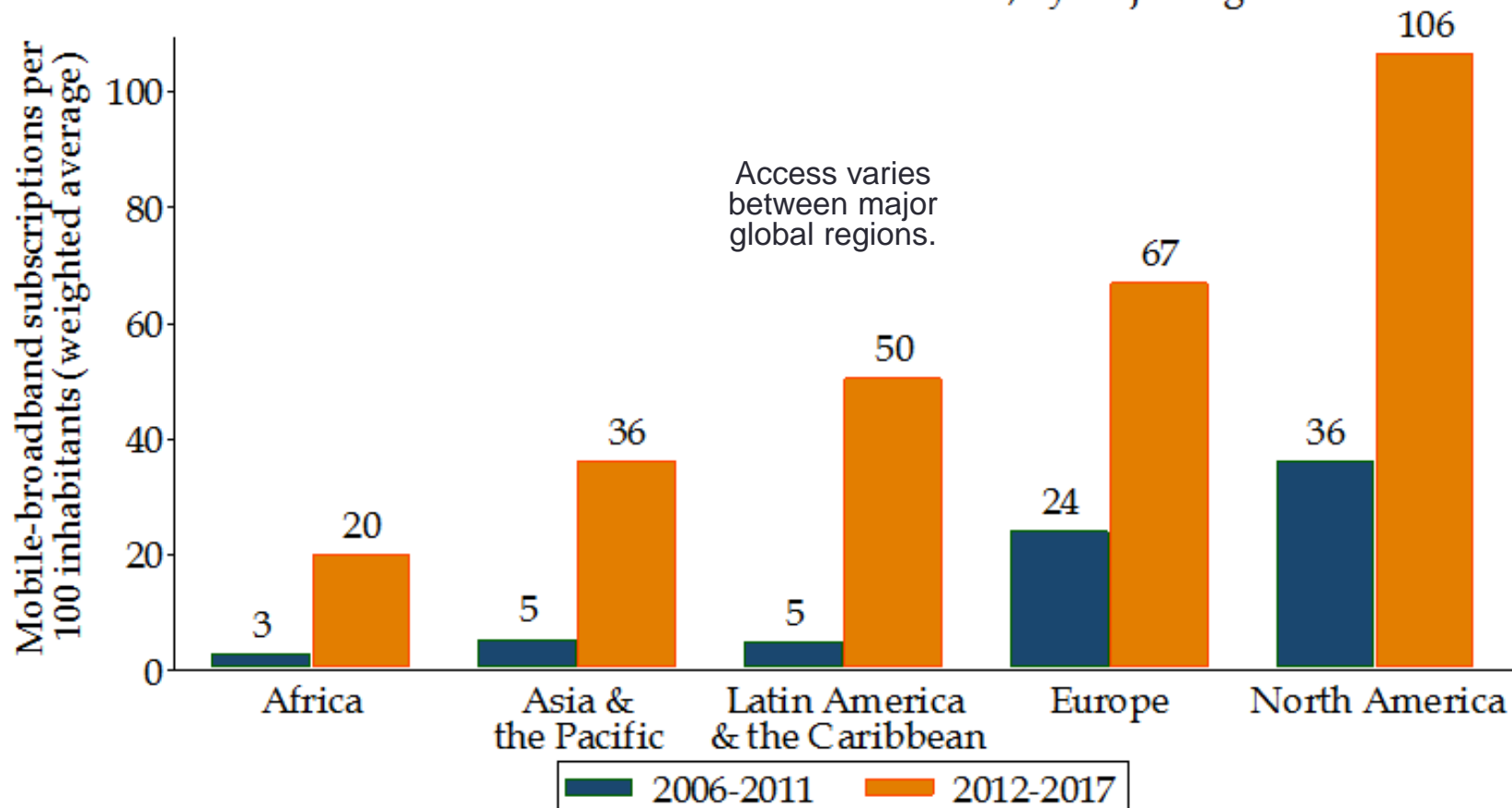


Source: Produced by ESCAP based on data from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018. Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>



Global trends:

Access to Mobile-broadband services, by major regions

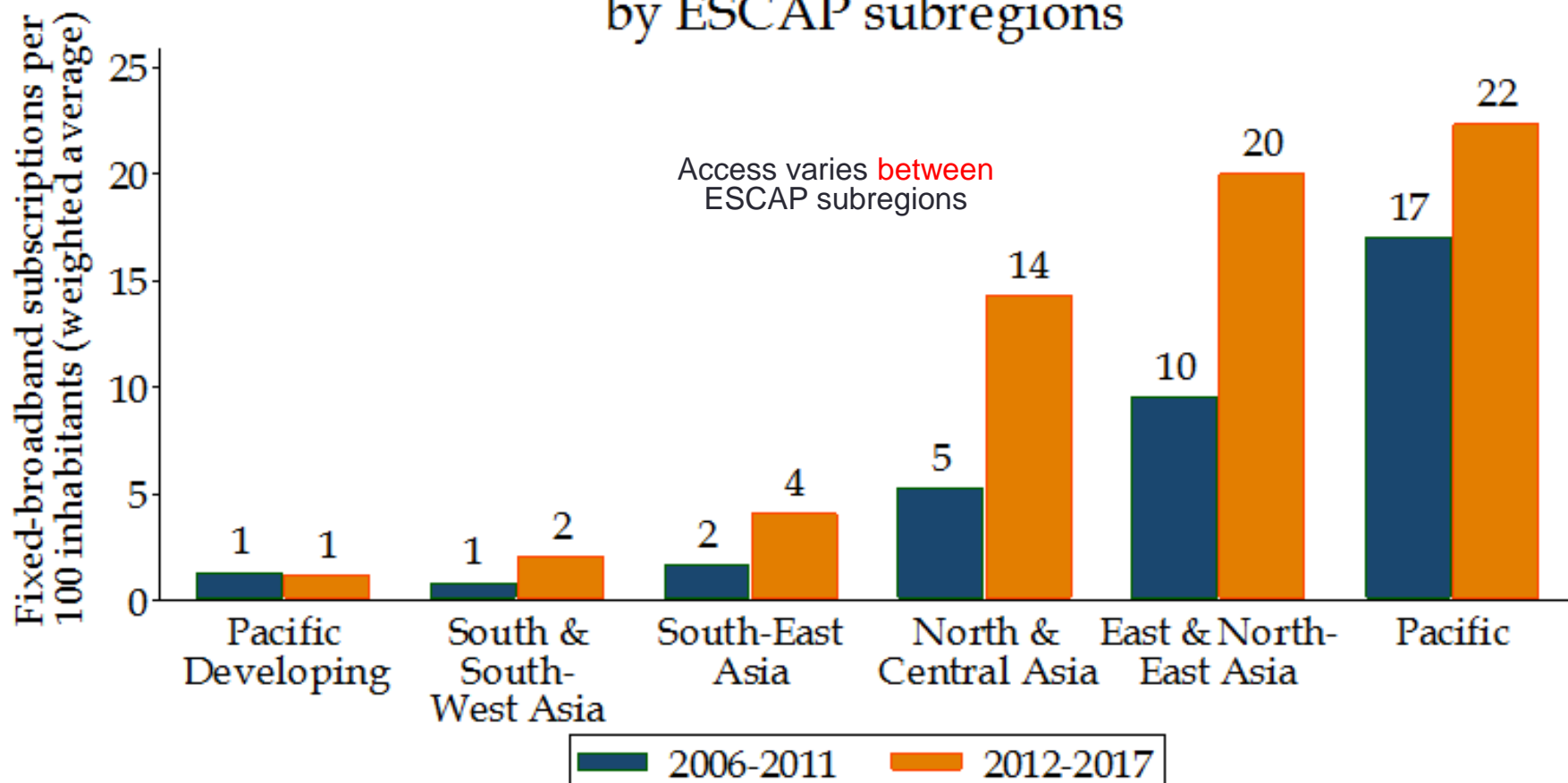


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ESCAP trends:

Access to Fixed-broadband services, by ESCAP subregions



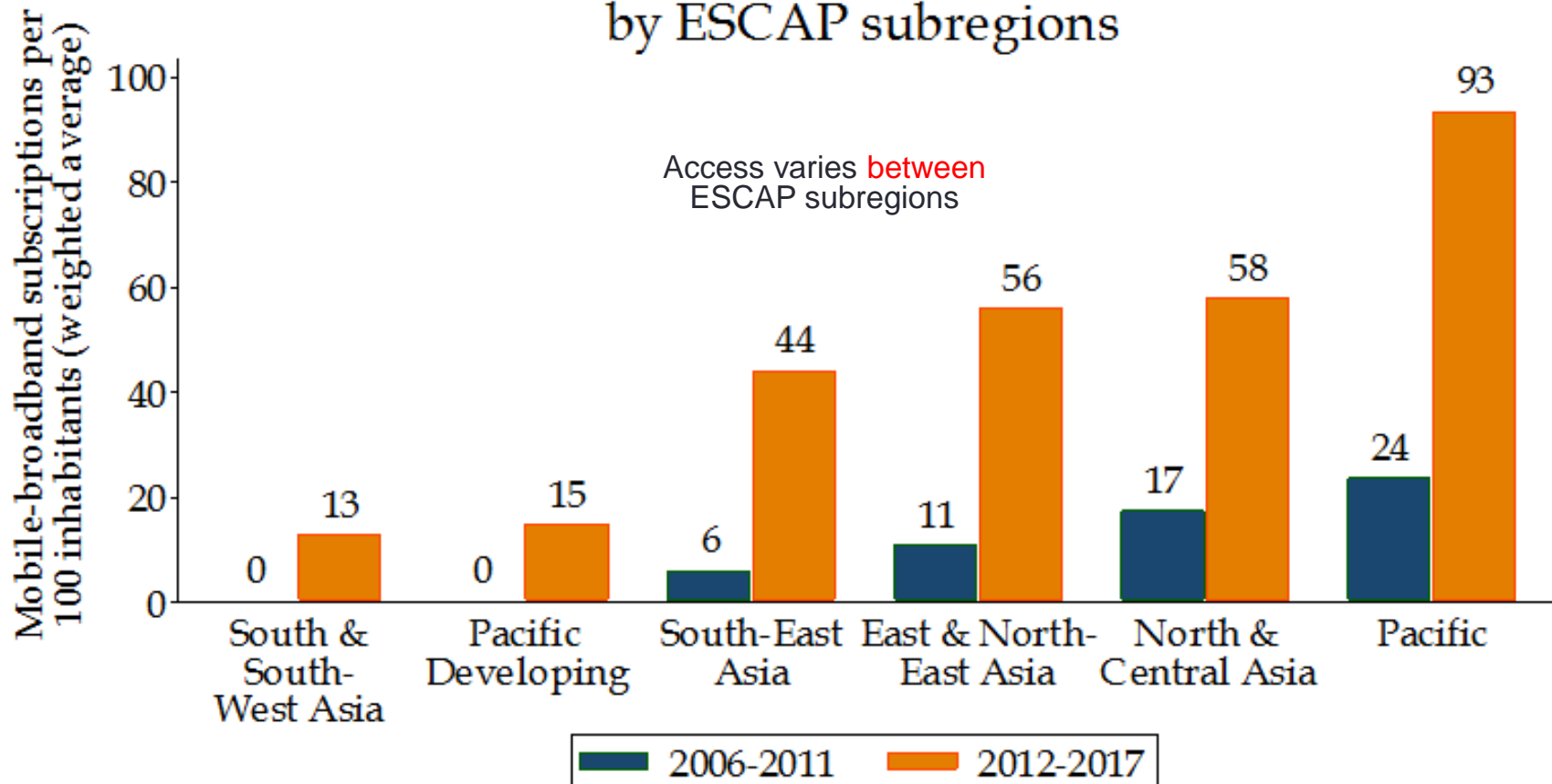
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IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE
ASIA-PACIFIC INFORMATION SUPERHIGHWAY



ESCAP trends:

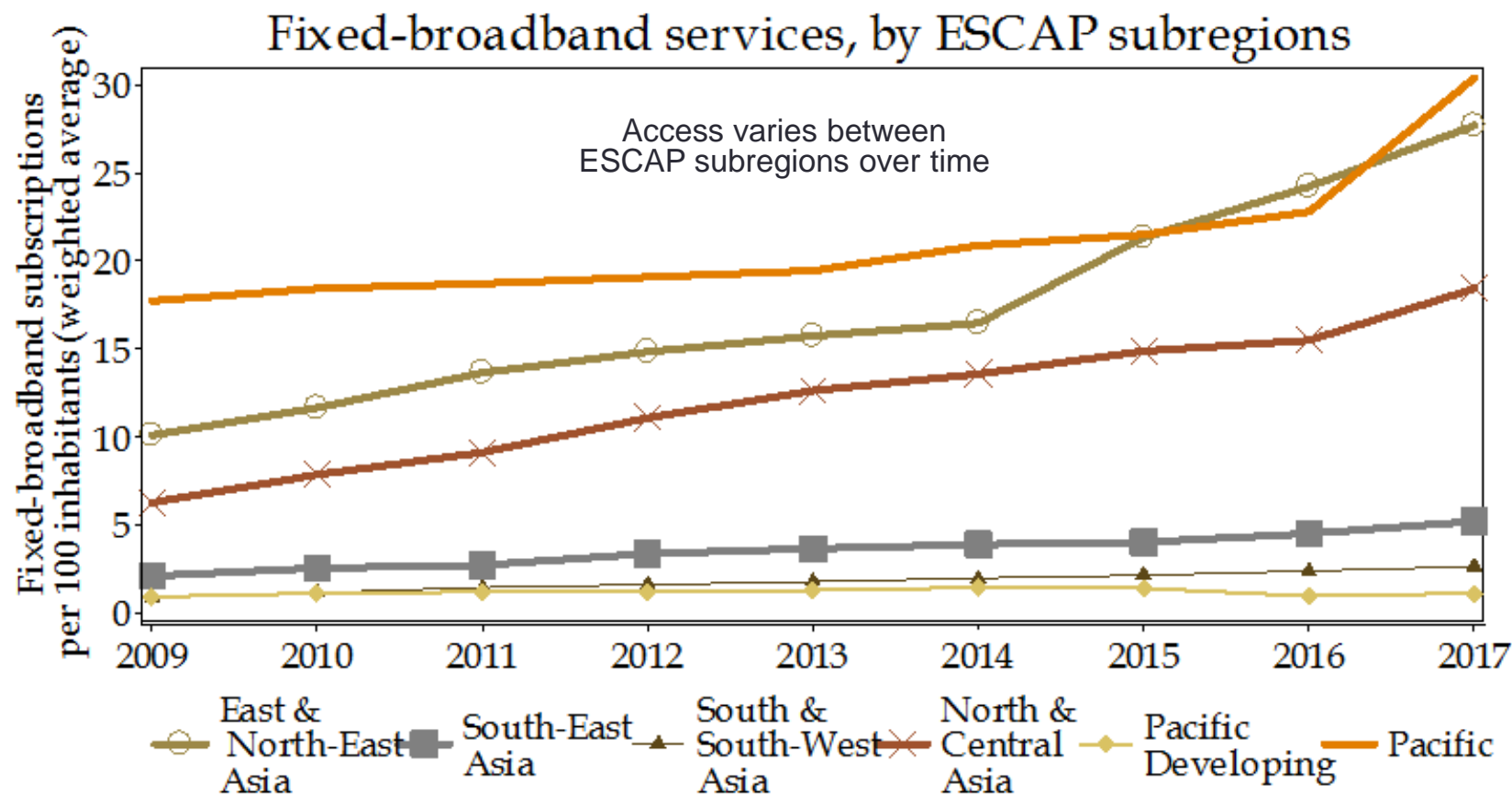
Access to Mobile-broadband services, by ESCAP subregions



Source: Produced by ESCAP based on data from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018. Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>



ESCAP trends:

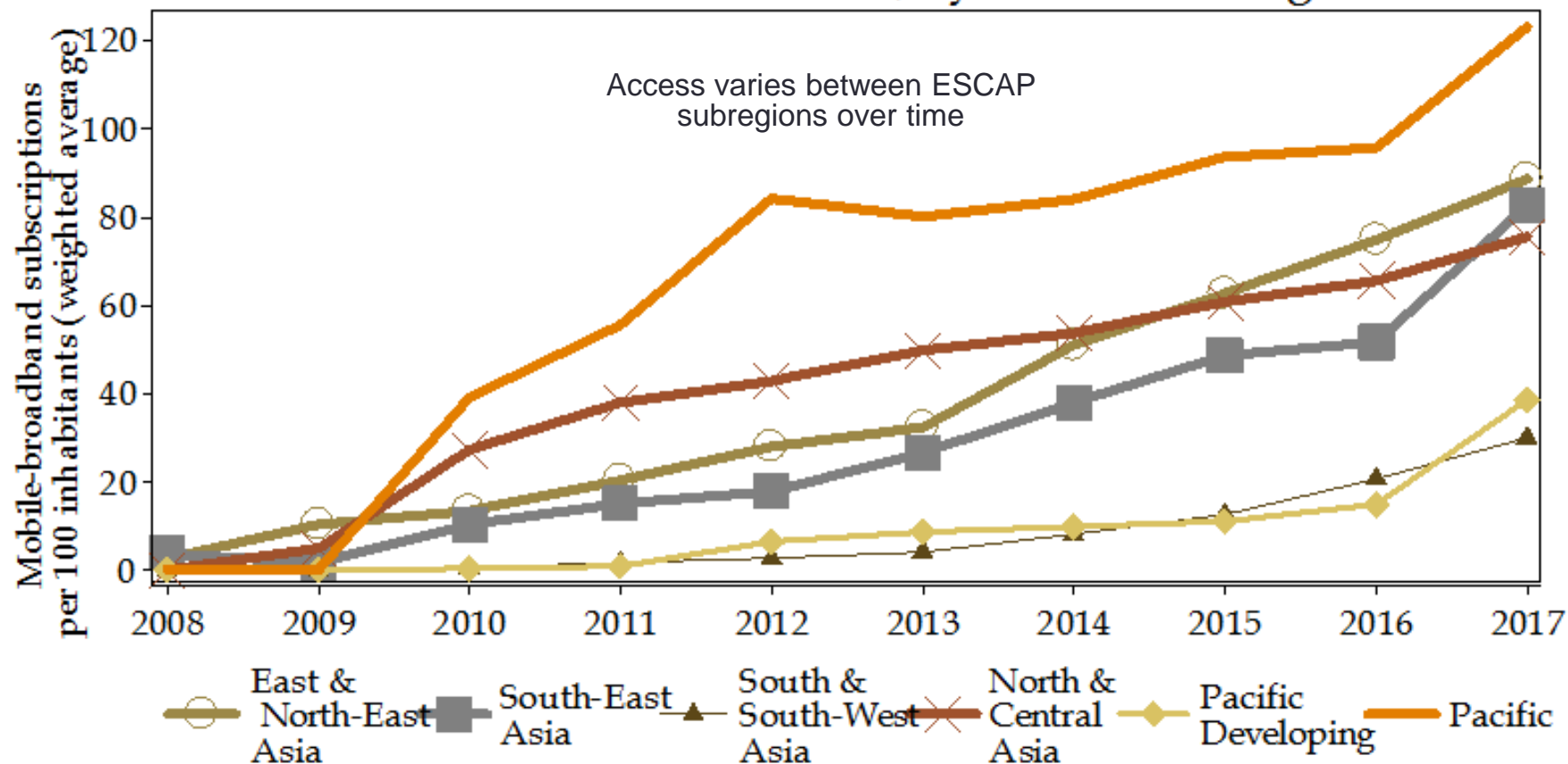


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ESCAP trends:

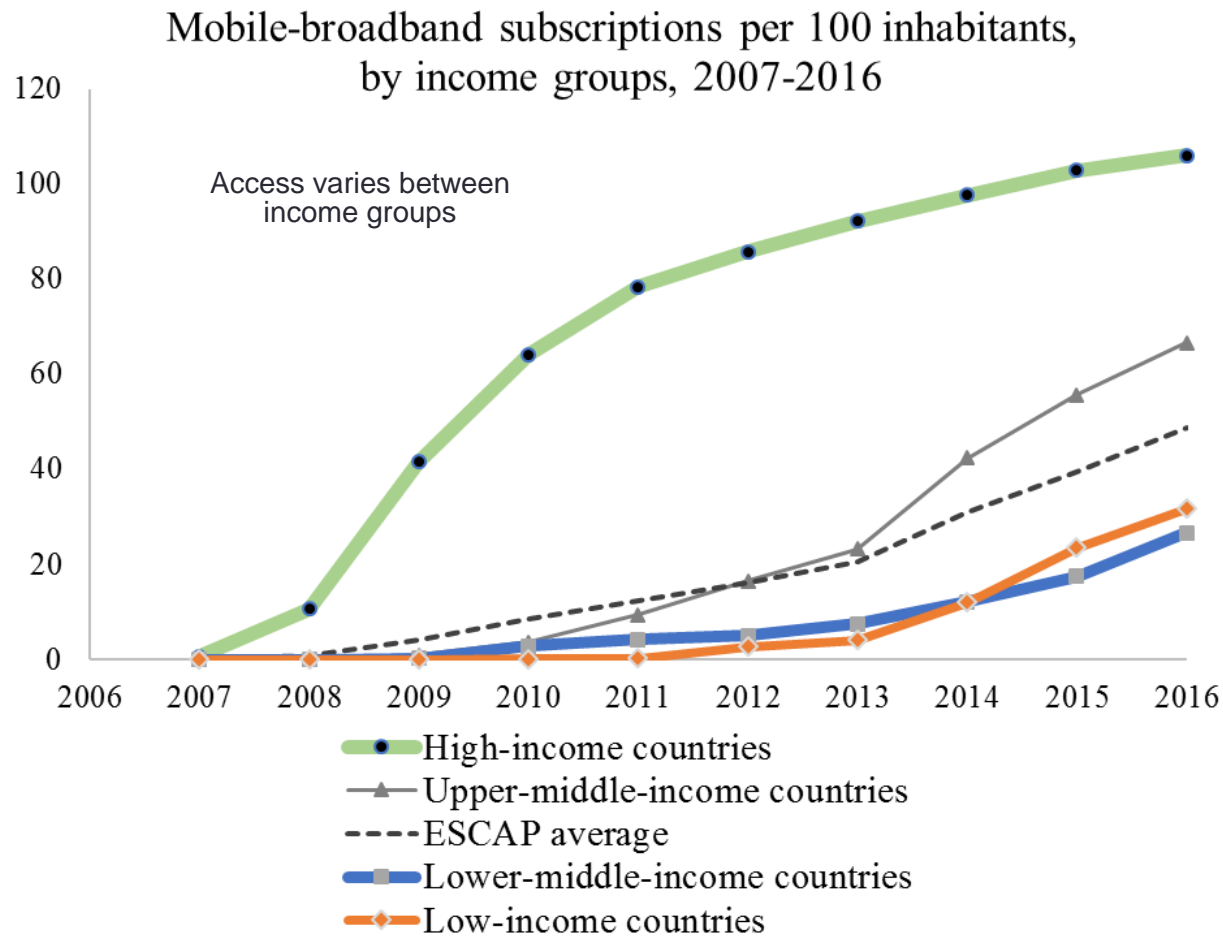
Mobile-broadband services, by ESCAP subregions



Source: Produced by ESCAP based on data from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018. Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>



ESCAP trends:

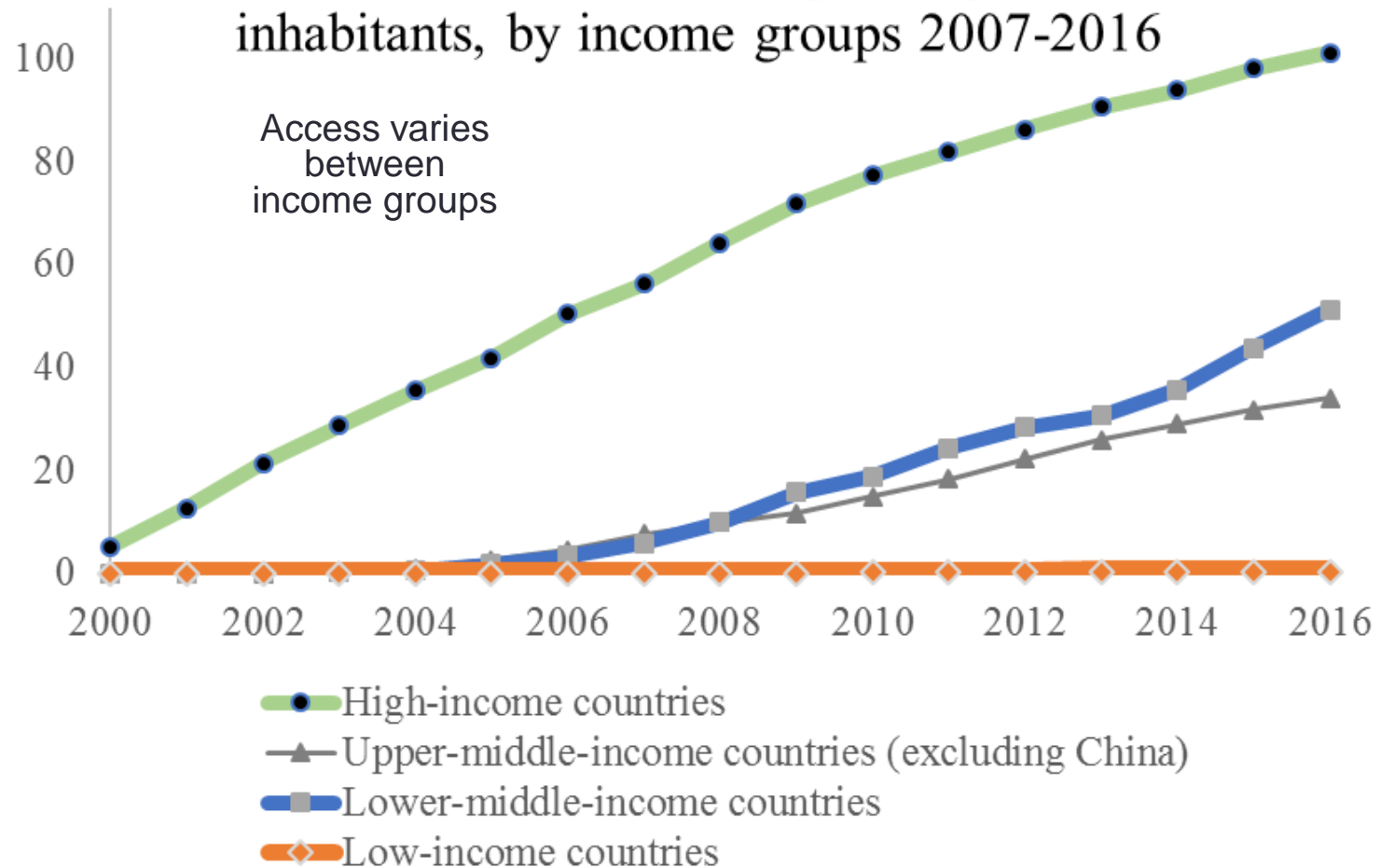


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ESCAP trends:

Fixed-broadband subscriptions per 100 inhabitants, by income groups 2007-2016



Source: Produced by ESCAP based on data from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018. Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>



ESCAP trends:

Digital divide could be examined using a combination of factors:

- 1) **Access** (fixed & mobile-broadband services per 100 inhabitants);
- 2) **Speed** (download speed for mobile-broadband service (Mbps));
- 3) **Network capacity** (International Internet **bandwidth** per Internet user (bit/sec);
- 4) **Affordability** (Mobile-cellular monthly sub-basket as % of GNI/capita); and
- 5) **Coverage** (Percentage of the population covered by at least a 3G mobile network).



ESCAP trends:

- Measuring ICT access:
 1. **ITU – ICT Infrastructure Development Index (IDI)**: Only global ICT dataset for most countries and years. Variables included **access** indicators (Int. Internet bandwidth/user etc); **ICT use** (% of individuals using the Internet etc) & **ICT skills** (mean years of schooling etc);
 2. **Others** (E-Government Index, World Bank's Little Data Book on ICT, the new Facebook/Economist Intelligence Unit '3i' index and the WEF's Global Information Technology index): use mostly sourced from the ITU statistics.



ESCAP trends:

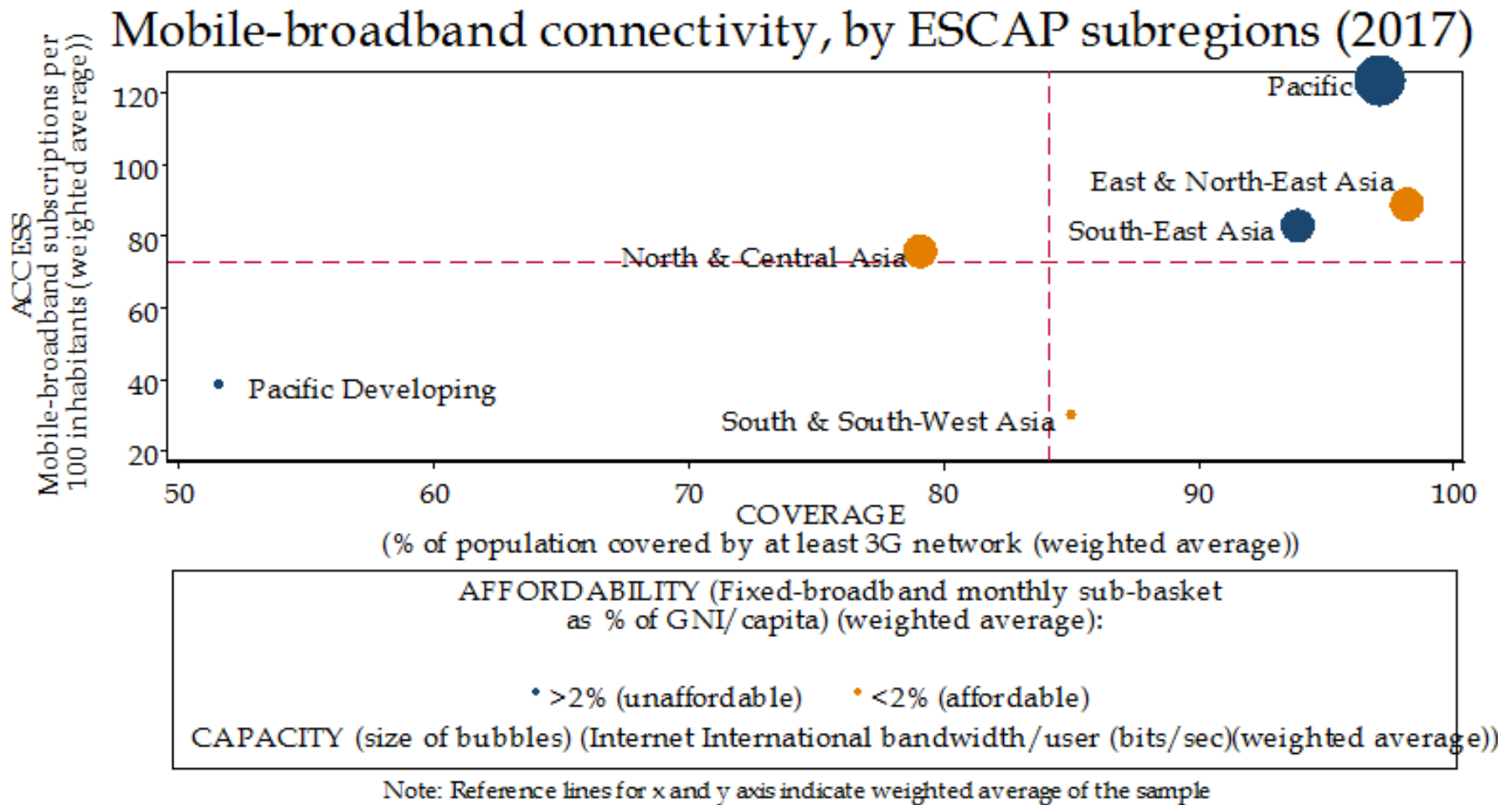
Internet speed

Selected ESCAP countries	Download speed for Mobile-broadband (July 2018) Mbps	Mobile-broadband subscriptions per 100 inhabitants	International Internet bandwidth per Internet user (bit/sec)	Percentage of the population covered by at least a 3G mobile network	Mobile-cellular monthly sub-basket as % of GNI/capita
Republic of Korea	42	113	53,308	100	1
New Zealand	43	102	94,581	98	0
Australia	51	135	88,660	99	0
Singapore	54	148	958,635	100	0
Simple average	45	116	78,850	99	1
Uzbekistan	9	59	5,437	75	3
Nepal	7	52	3,855	54	4
Afghanistan	6	16	11,302	24	9
Tajikistan	5	18	2,442	90	4
Simple average	7	37	5759	61	5

Source: Speed data from Ookla speedtest (<http://www.speedtest.net/>), other broadband variables sourced from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018. Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>



ESCAP trends:

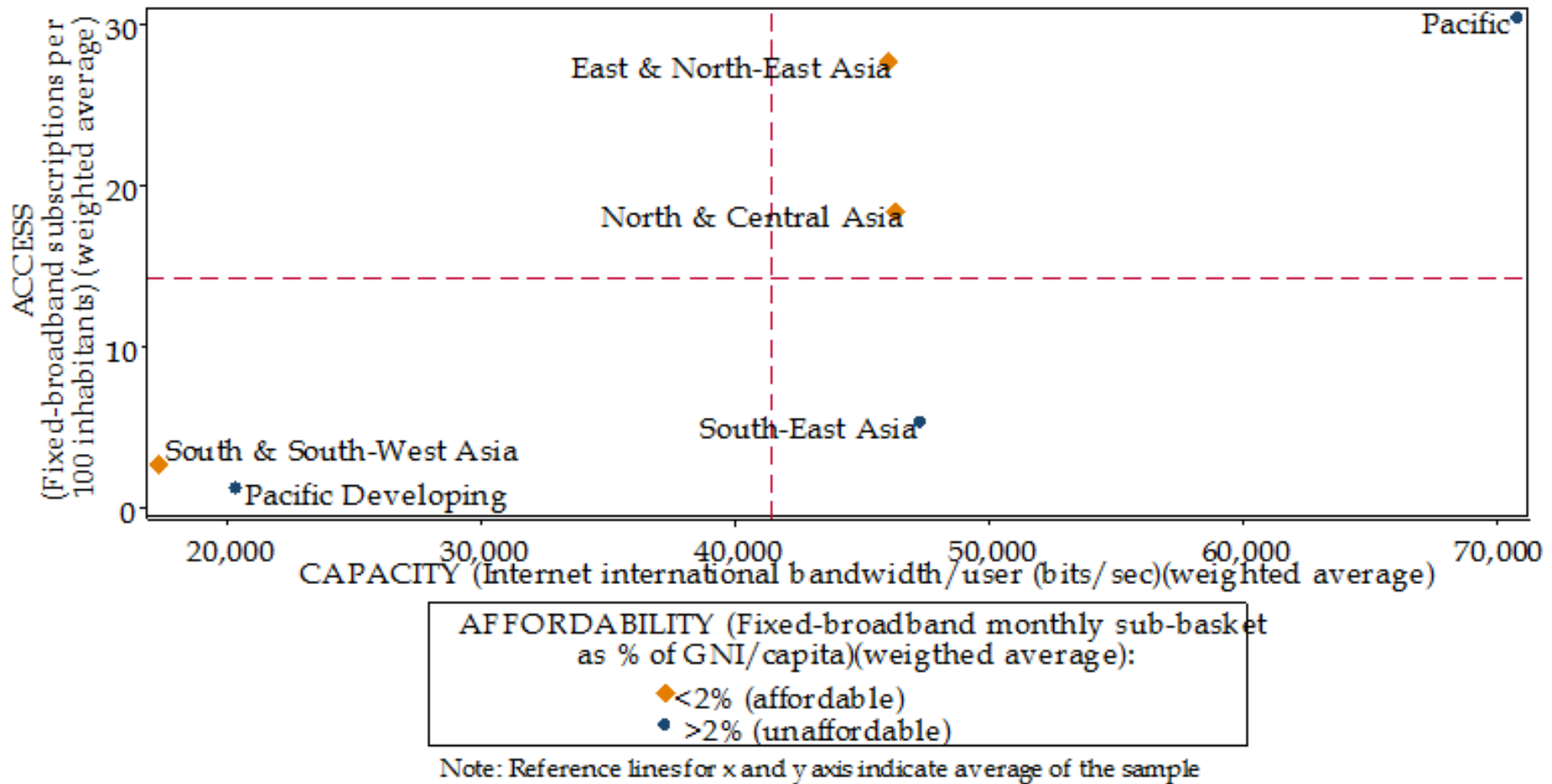


Source: Produced by ESCAP based on data from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018. Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>



ESCAP trends:

Fixed-broadband connectivity, by ESCAP subregions (2017)

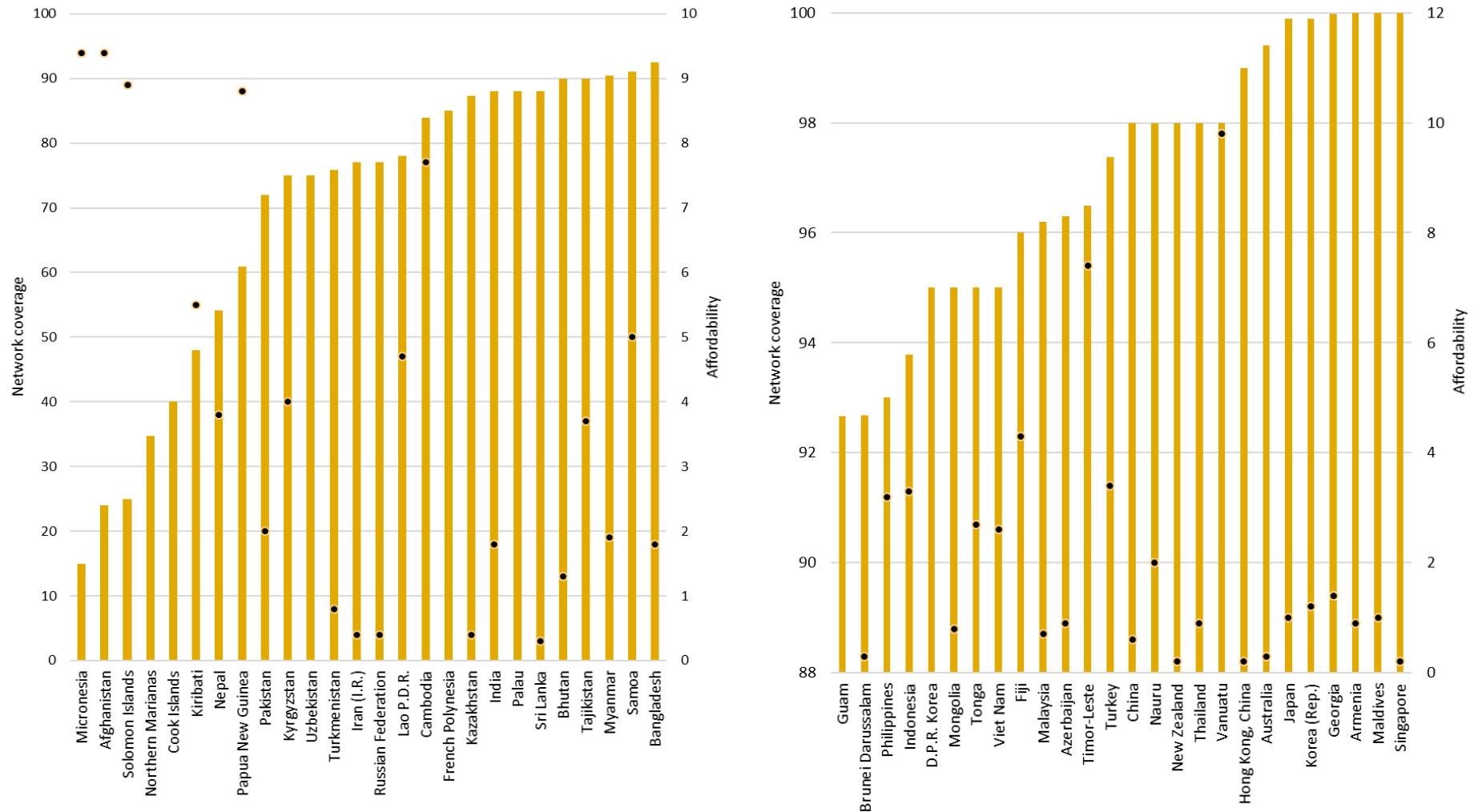


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ESCAP trends:

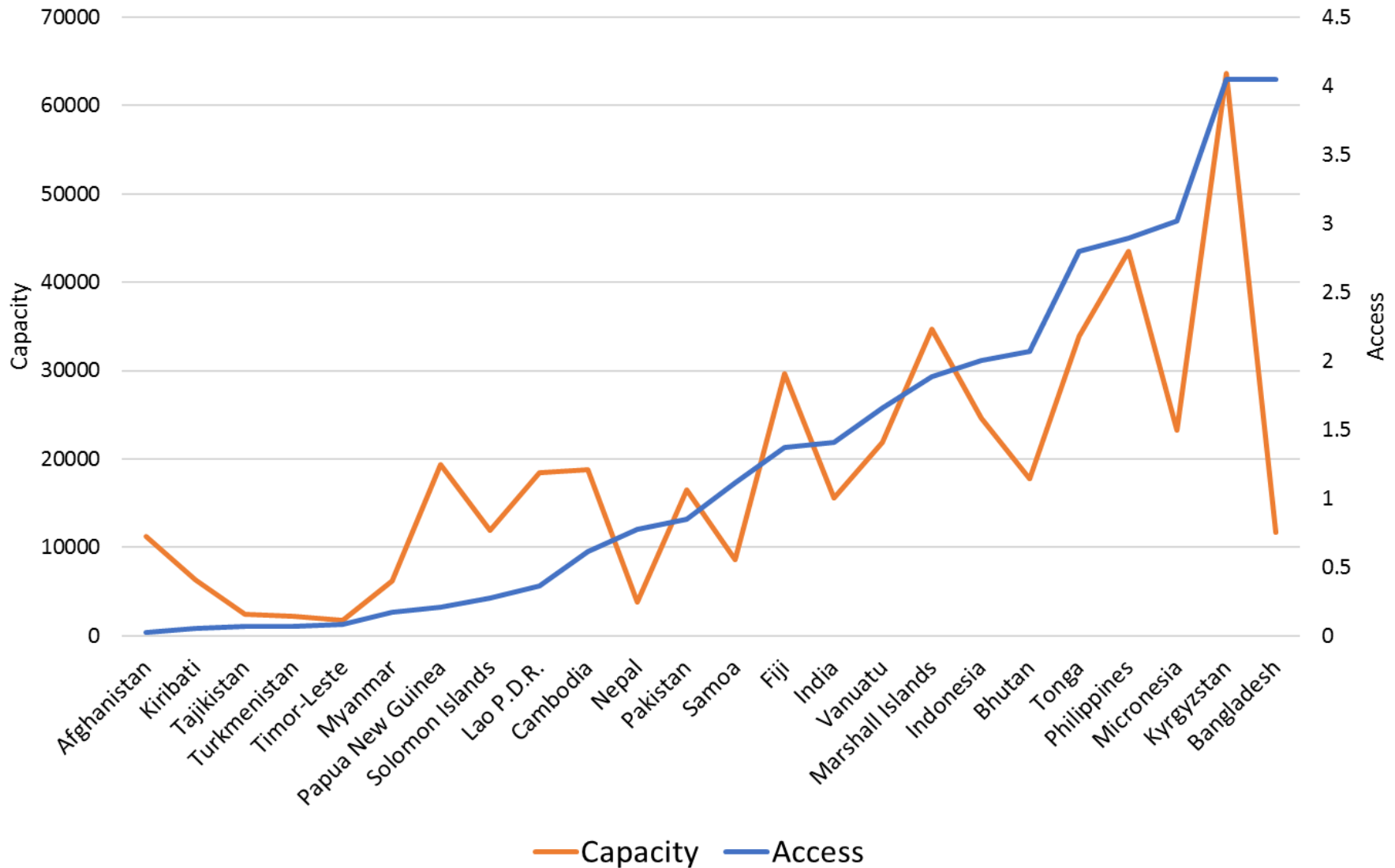
NETWORK COVERAGE (% of population covered by at least a 3G mobile network) & AFFORDABILITY (Mobile-cellular monthly sub-basket as % of GNI/capita), 2017



Source: Produced by ESCAP based on data from ITU, World Telecommunication/ICT Indicators database 2018 (22nd Edition/June 2017), 17 July 2018.
Available from: <https://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>

ESCAP trends:

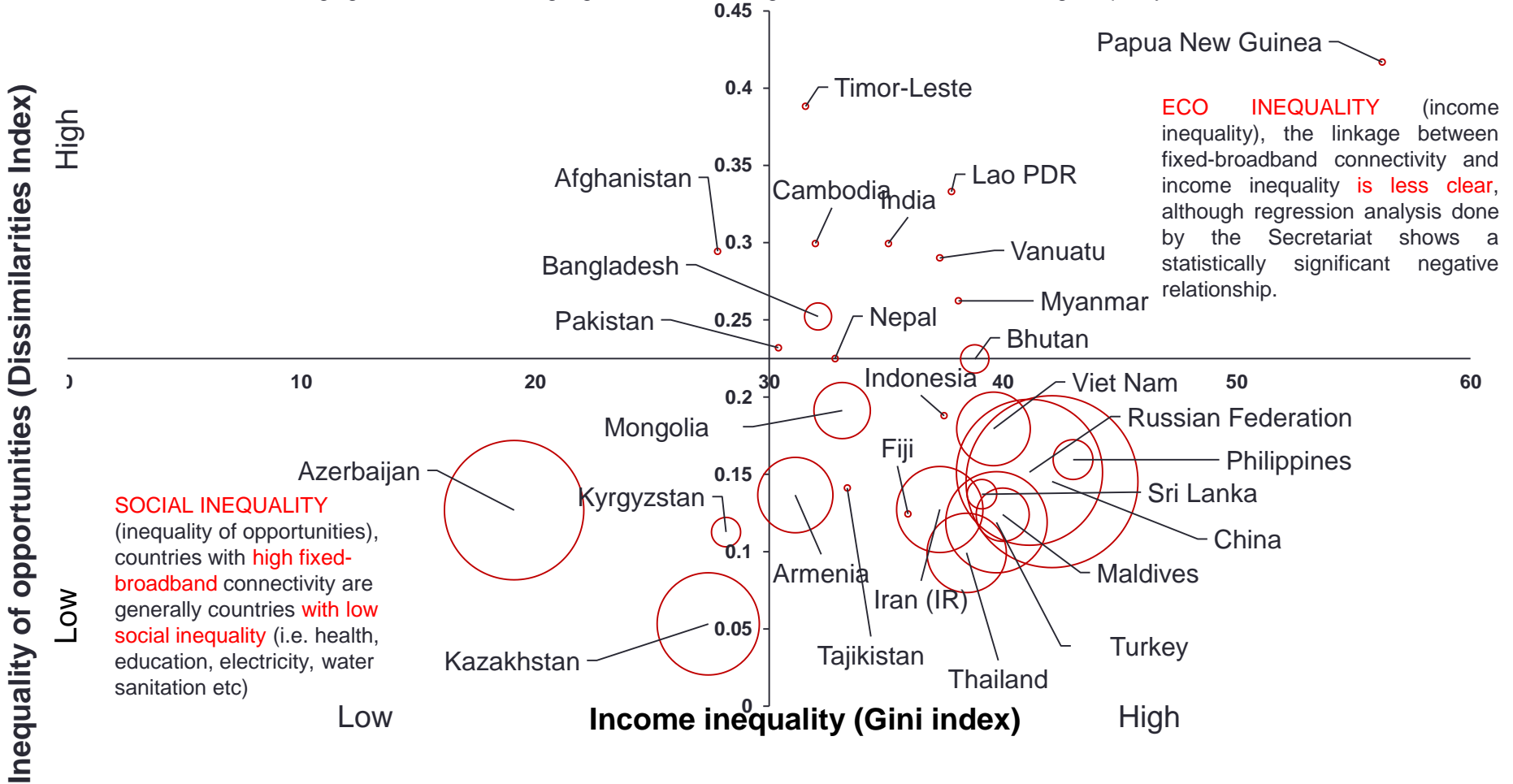
ACCESS Fixed-broadband subs./100 inhabitant) & CAPACITY(International Internet bandwidth per Internet user (bit/sec), 2016



ESCAP trends:

Inequality and Fixed-broadband connectivity in selected Asia-Pacific countries

Bridging the current widening digital divide in the region will contribute to narrowing inequality as well.



Source: ESCAP (2018), "Inequality in Asia and the Pacific in the era of the 2030 Agenda for Sustainable Development", ESCAP



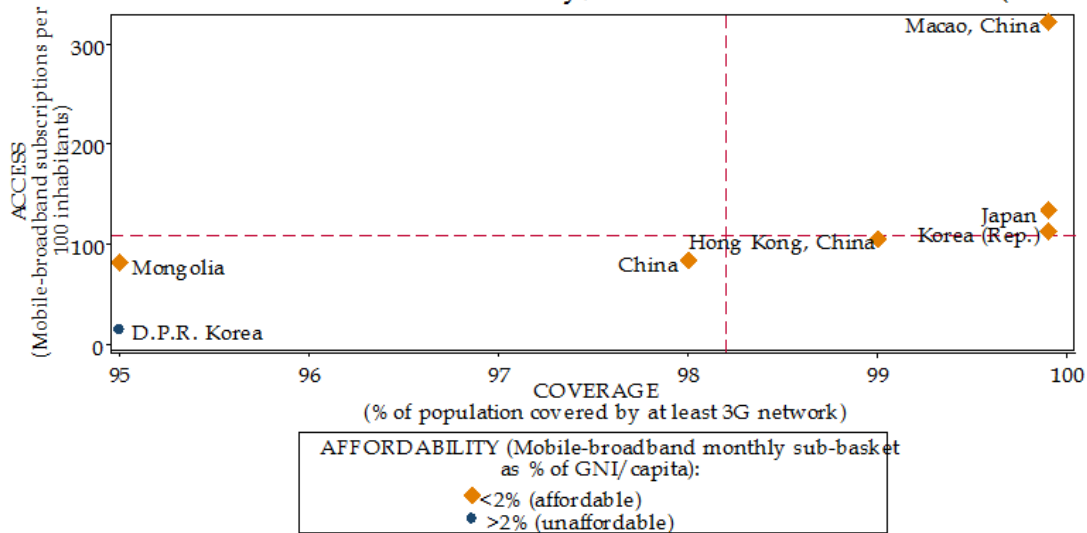
Thank you



ESCAP trends:

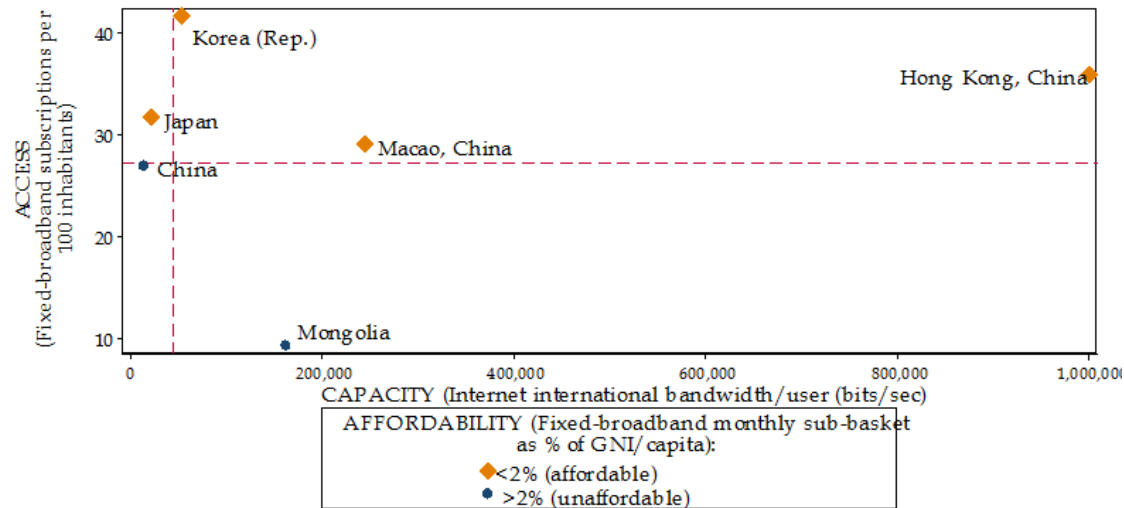
Mobile-broadband connectivity, East & North-East Asia (2017)

ESCAP ENEA



Note: Reference lines for x and y axis indicate weighted average of the sample; Based on 2017 or earliest data available

Fixed-broadband connectivity, East & North-East Asia (2017)

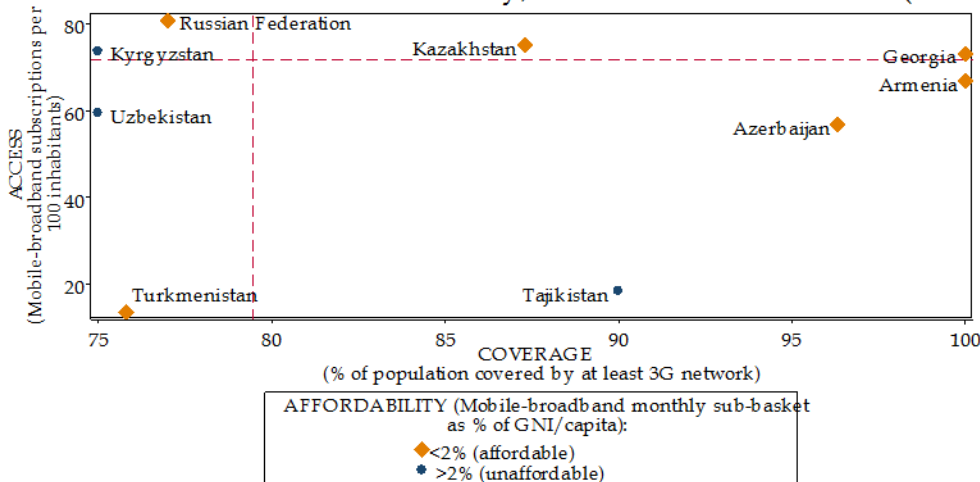


Note: Reference lines for x and y axis indicate weighted averages of the sample; Based on 2017 or earliest data available; Hong Kong, China's international Internet bandwidth has been scaled back for the graph, actual value is 5,936,926 per user

ESCAP trends:

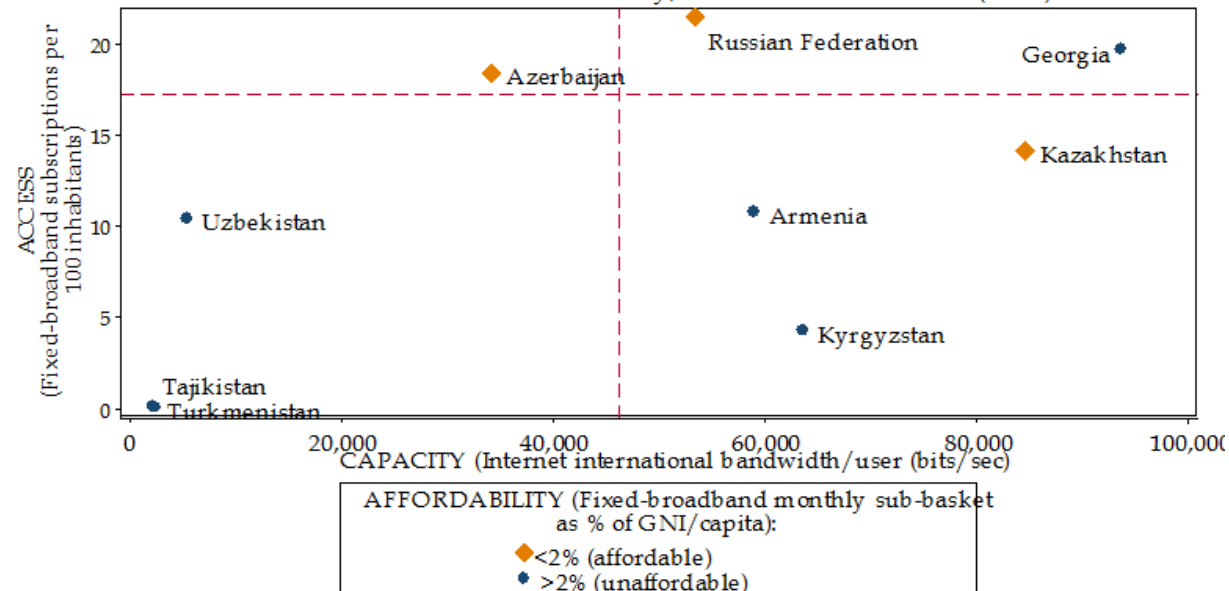
Mobile-broadband connectivity, North and Central Asia (2017)

ESCAP NCA



Note: Reference lines for x and y axis indicate weighted average of the sample; Based on 2017 or earliest data available

Fixed-broadband connectivity, North & Central Asia (2016)

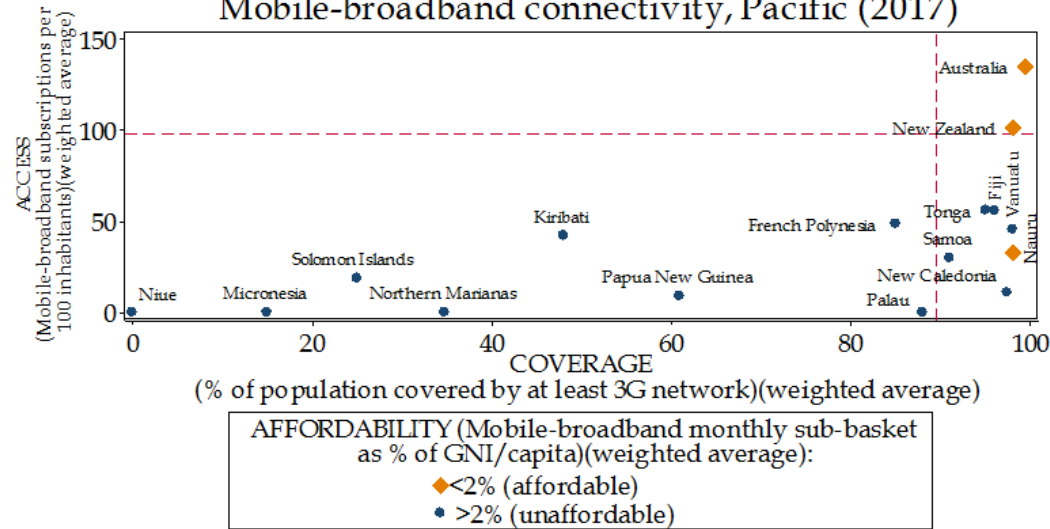


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ESCAP trends:

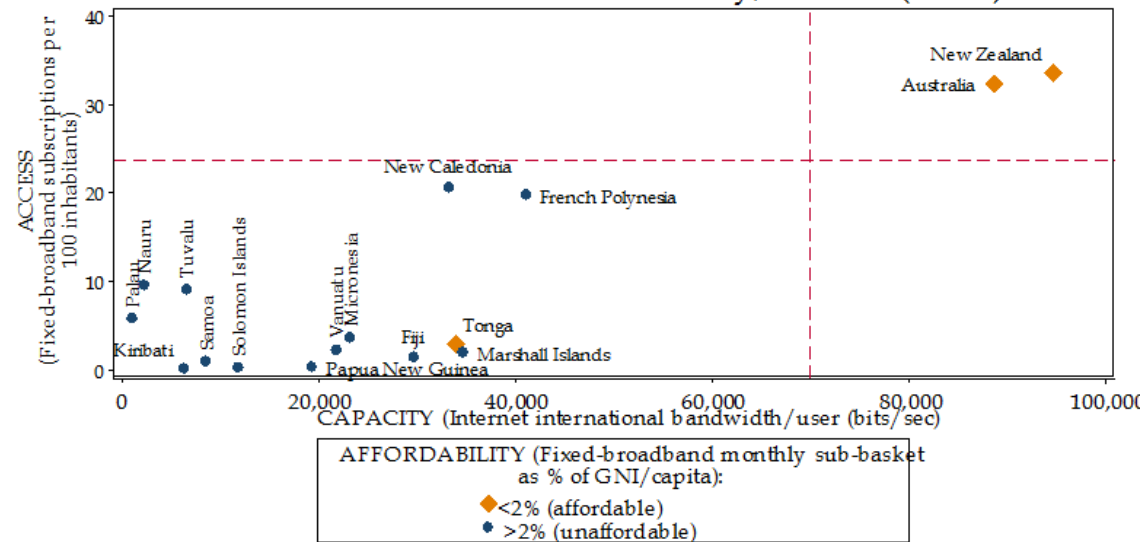
ESCAP Pacific

Mobile-broadband connectivity, Pacific (2017)



Note: Reference lines for x and y axis indicate weighted averages of the sample; Based on 2017 or earliest data available

Fixed-broadband connectivity, Pacific (2017)

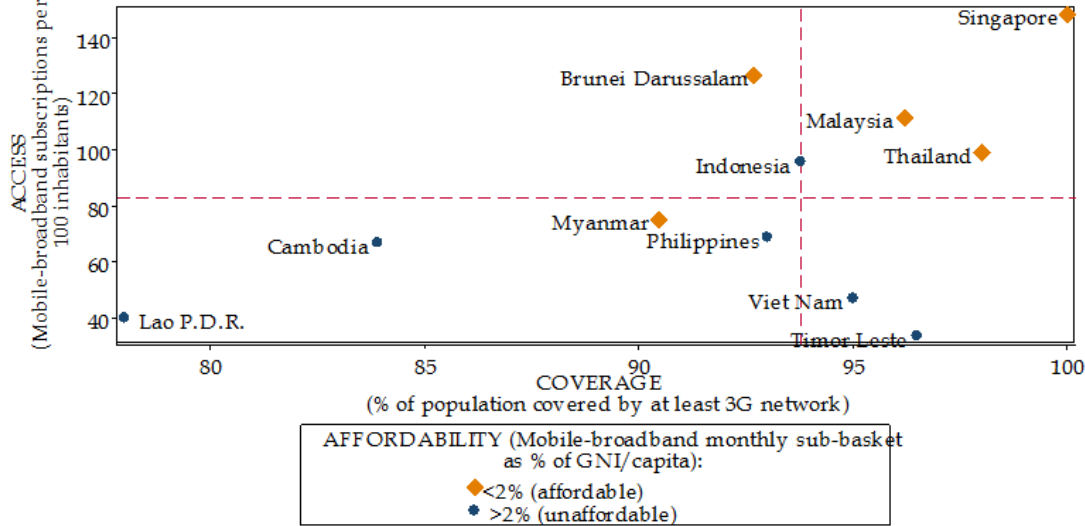


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ESCAP trends:

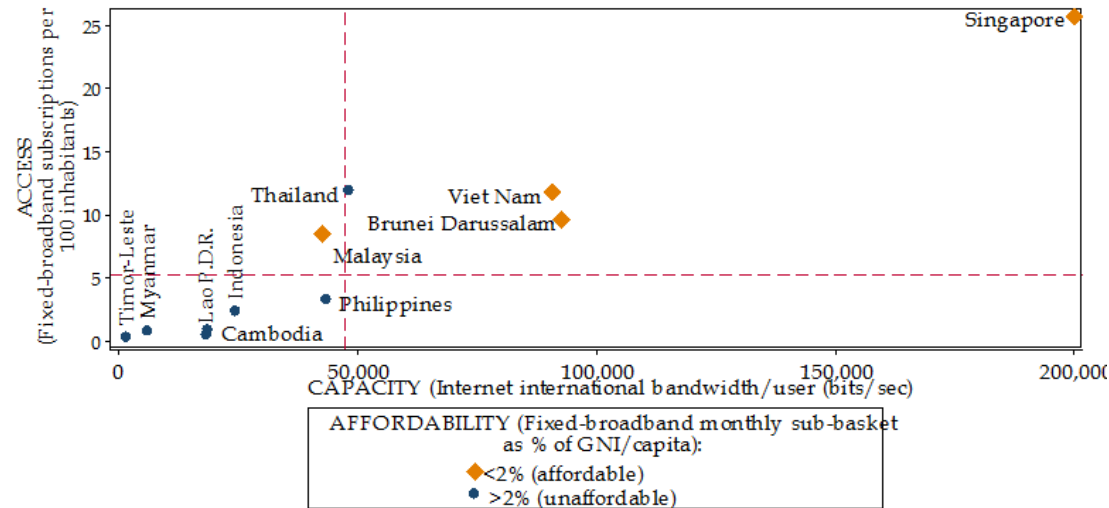
ESCAP SEA

Mobile-broadband connectivity, South-East Asia (2017)



Note: Reference lines for x and y axis indicate weighted average of the sample; Based on 2017 or earliest data available

Fixed-broadband connectivity, South-East Asia (2017)

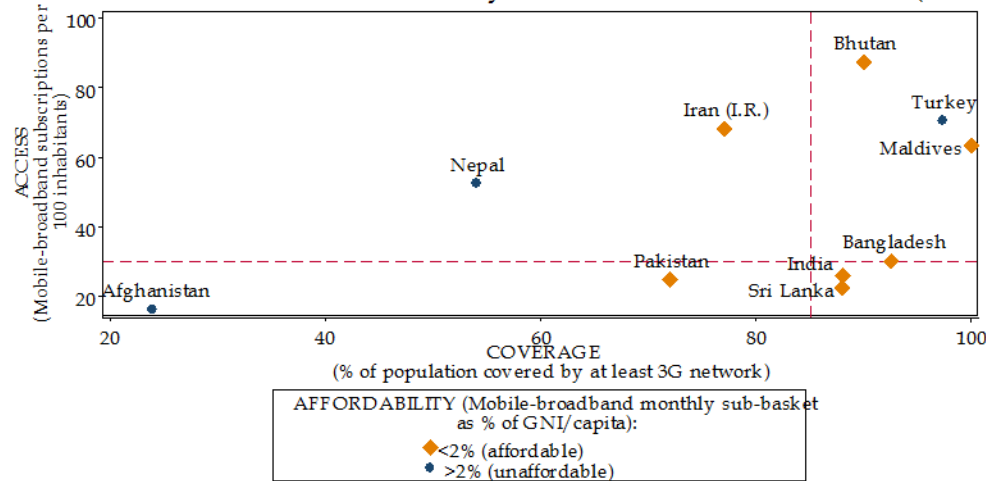


Note: Reference lines for x and y axis indicate weighted average of the sample; Based on 2017 or earliest data available; Singapore's international Internet bandwidth has been scaled back for the graph, actual value is 958,635 per user

ESCAP trends:

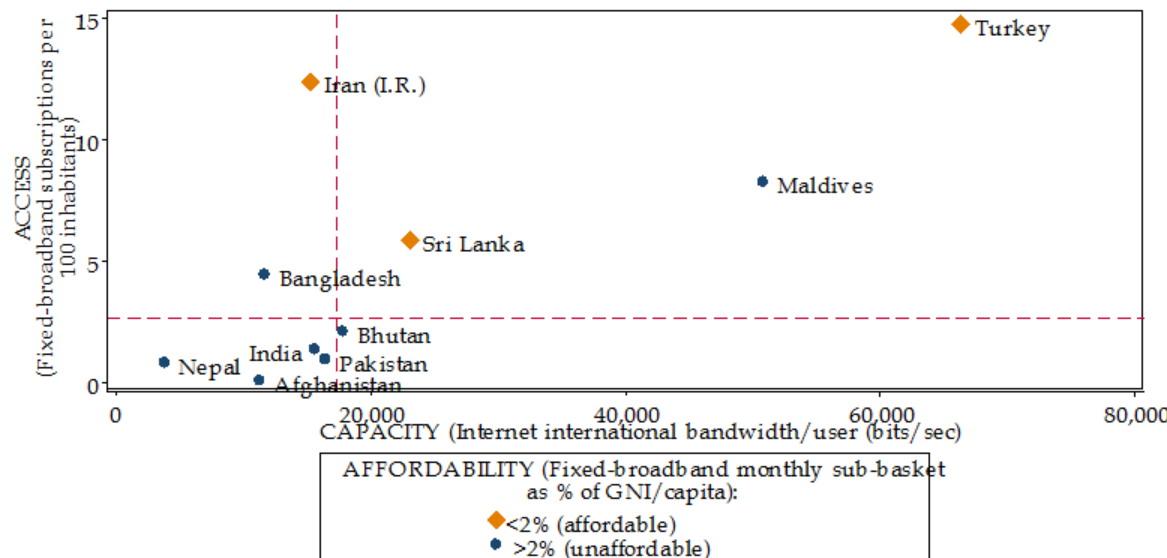
ESCAP SSWA

Mobile-broadband connectivity, South & South-West Asia (2017)



Note: Reference lines for x and y axis indicate weighted average of the sample; Based on 2017 or earliest data available

Fixed-broadband connectivity, South and South-West Asia (2017)



Note: Reference lines for x and y axis indicate weighted average of the sample; Based on 2017 or earliest data available