

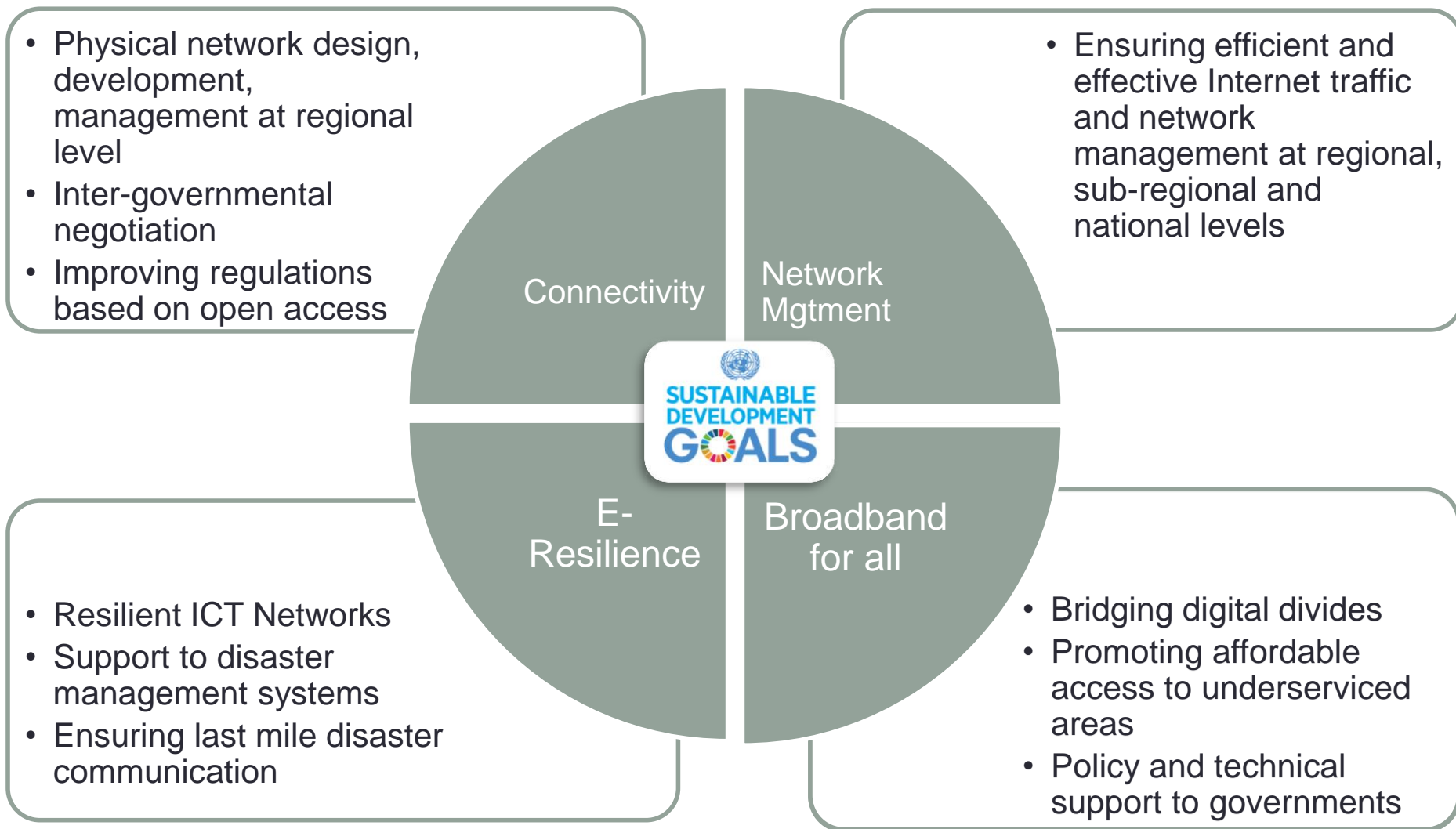
ICT CONNECTIVITY IN CENTRAL ASIA

Alexey Kravchenko
Associate Economic Affairs Officer
ICT and Development Section
ICT and Disaster Risk Reduction Division
ESCAP

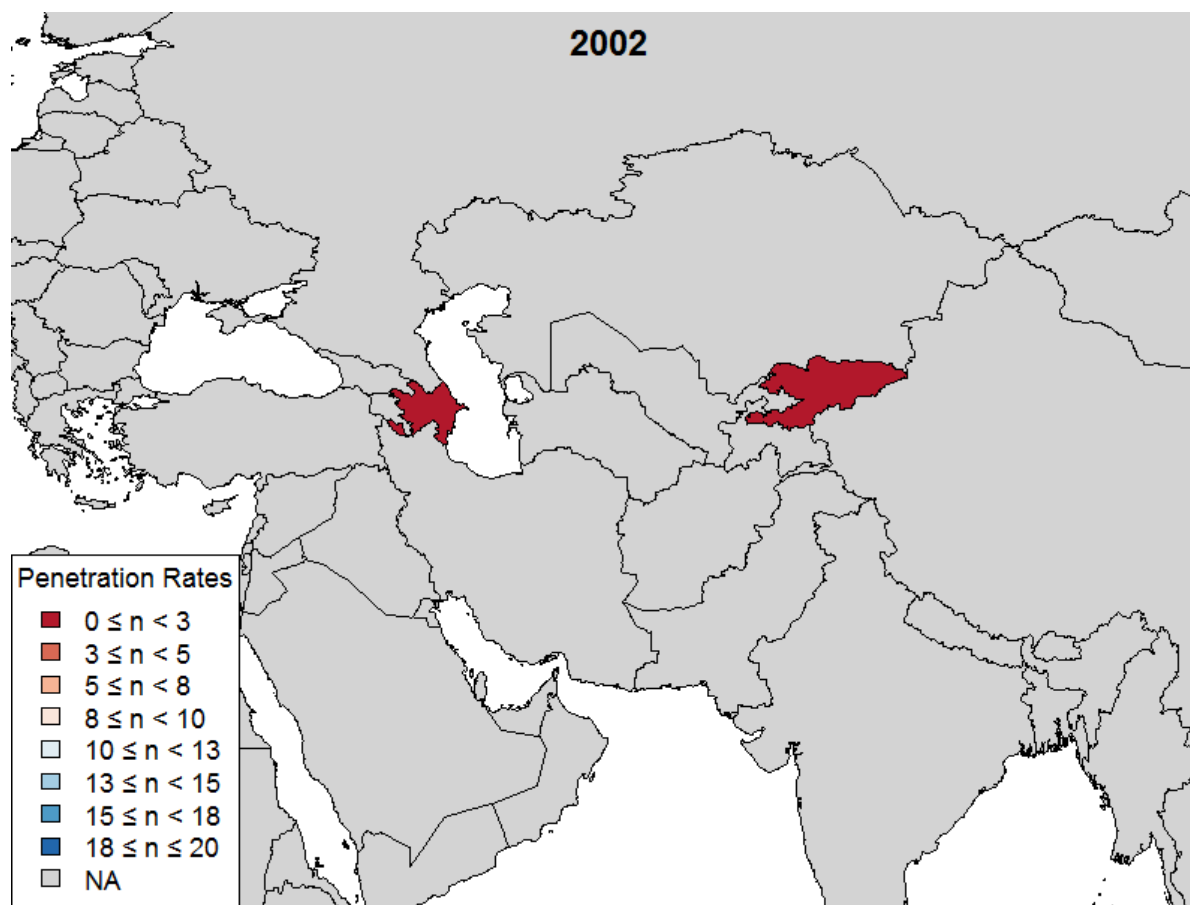
IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE
ASIA-PACIFIC INFORMATION SUPERHIGHWAY



The Four Pillars of AP-IS



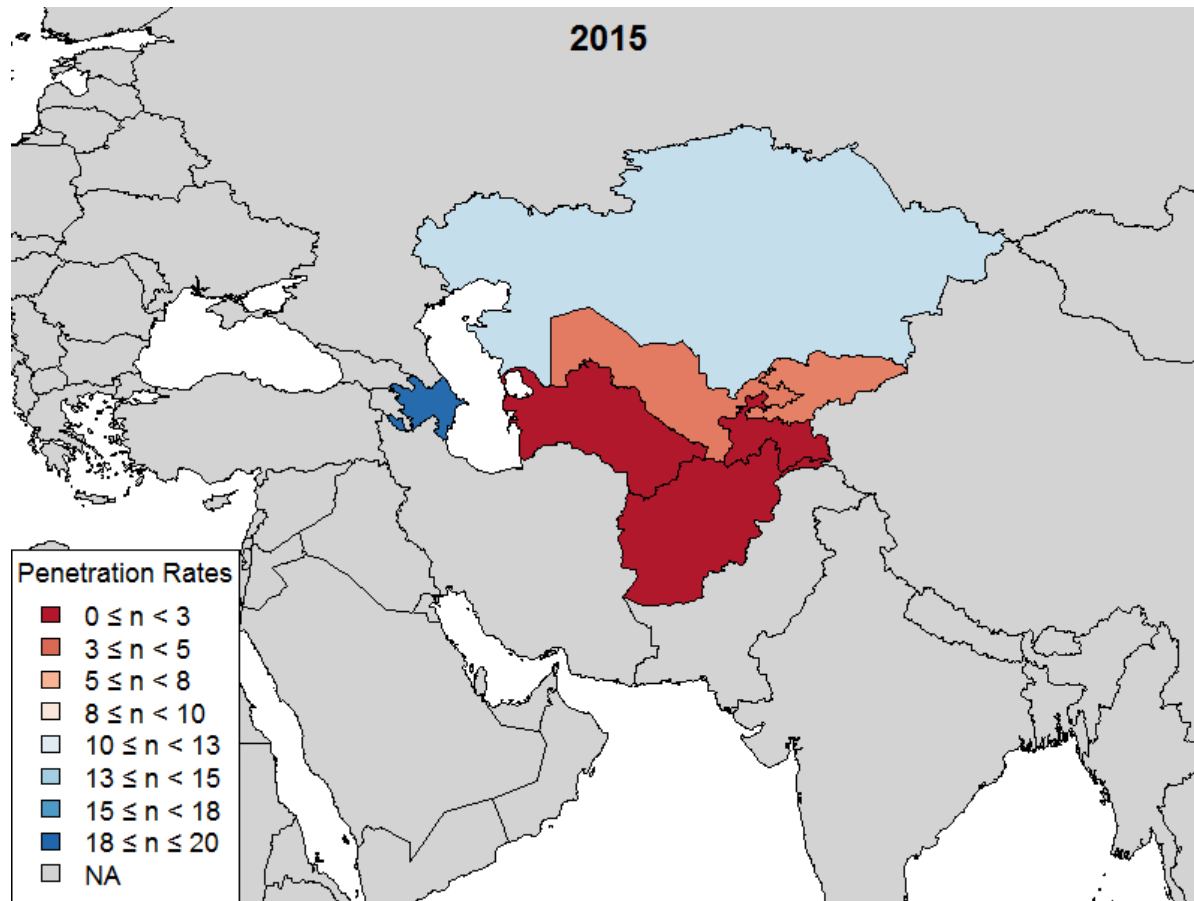
Fixed broadband penetration rates



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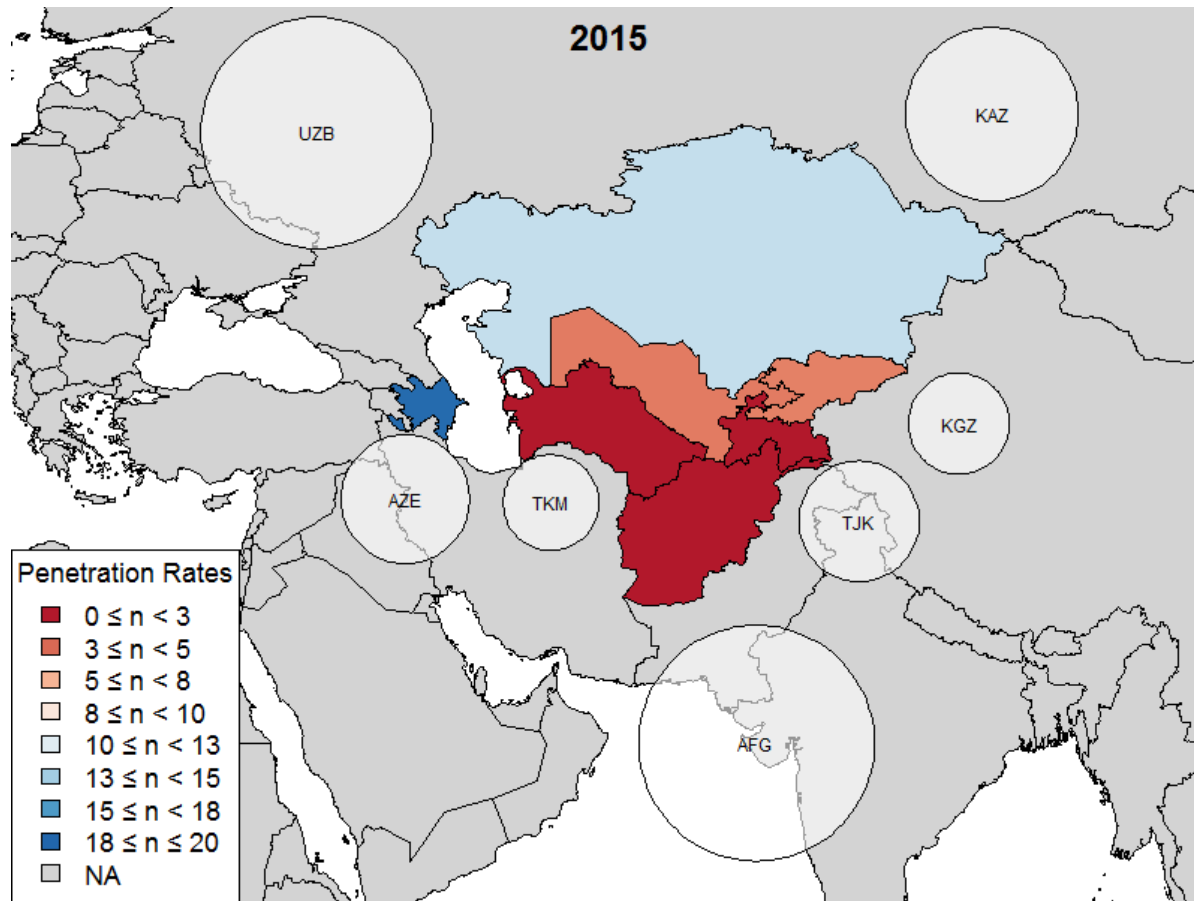
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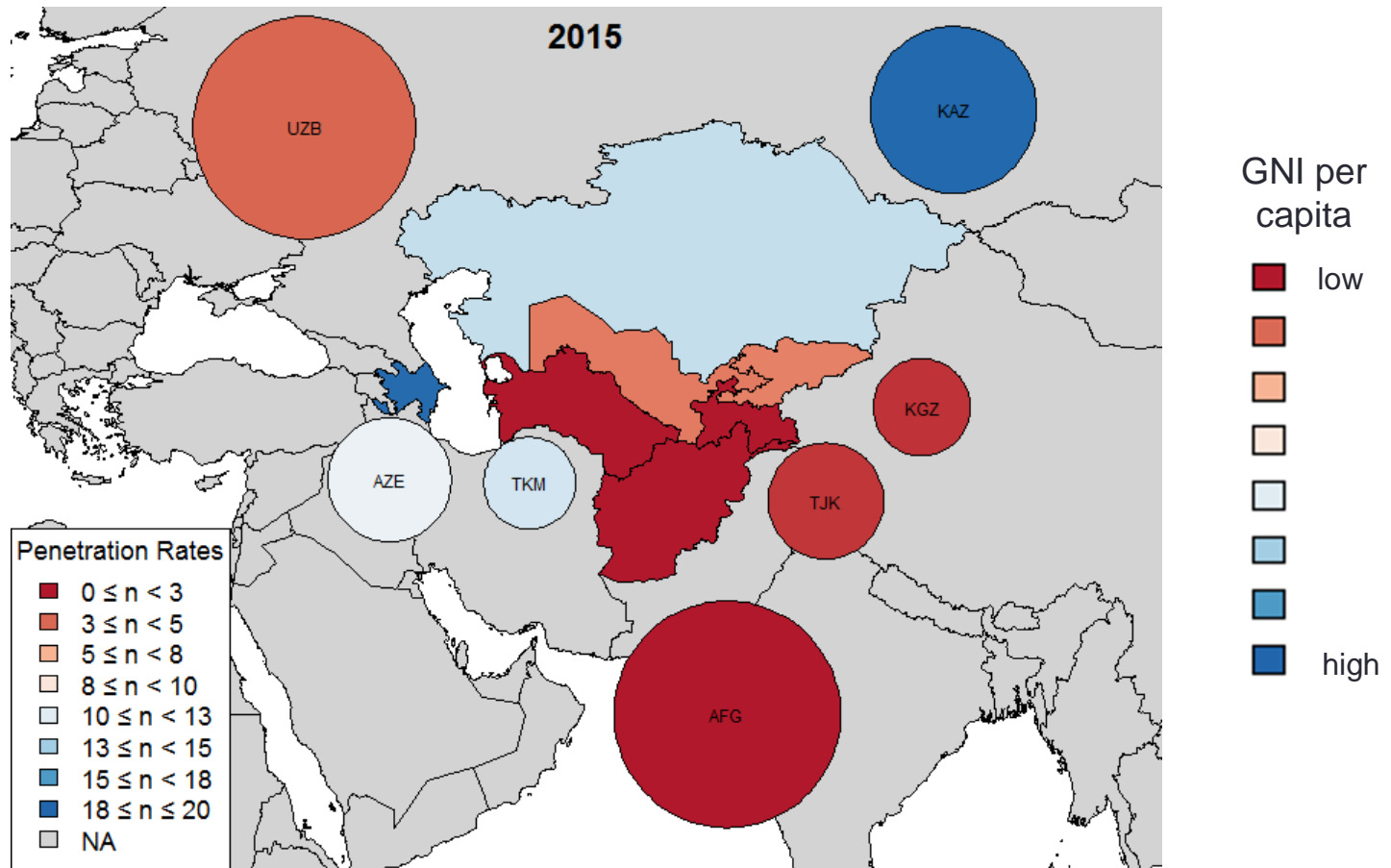
Total Population among SPECA countries



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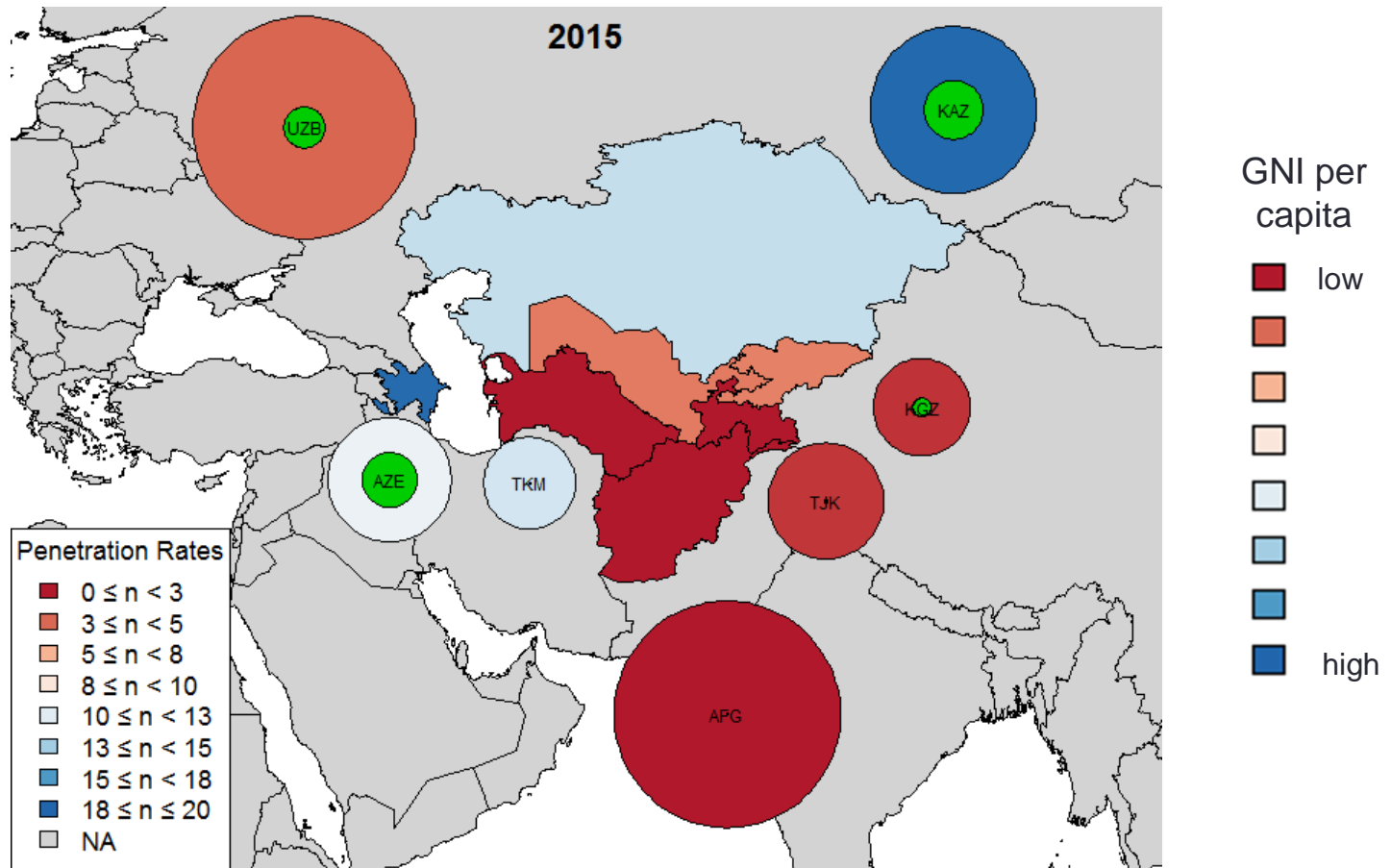
Gross National Income per Capita



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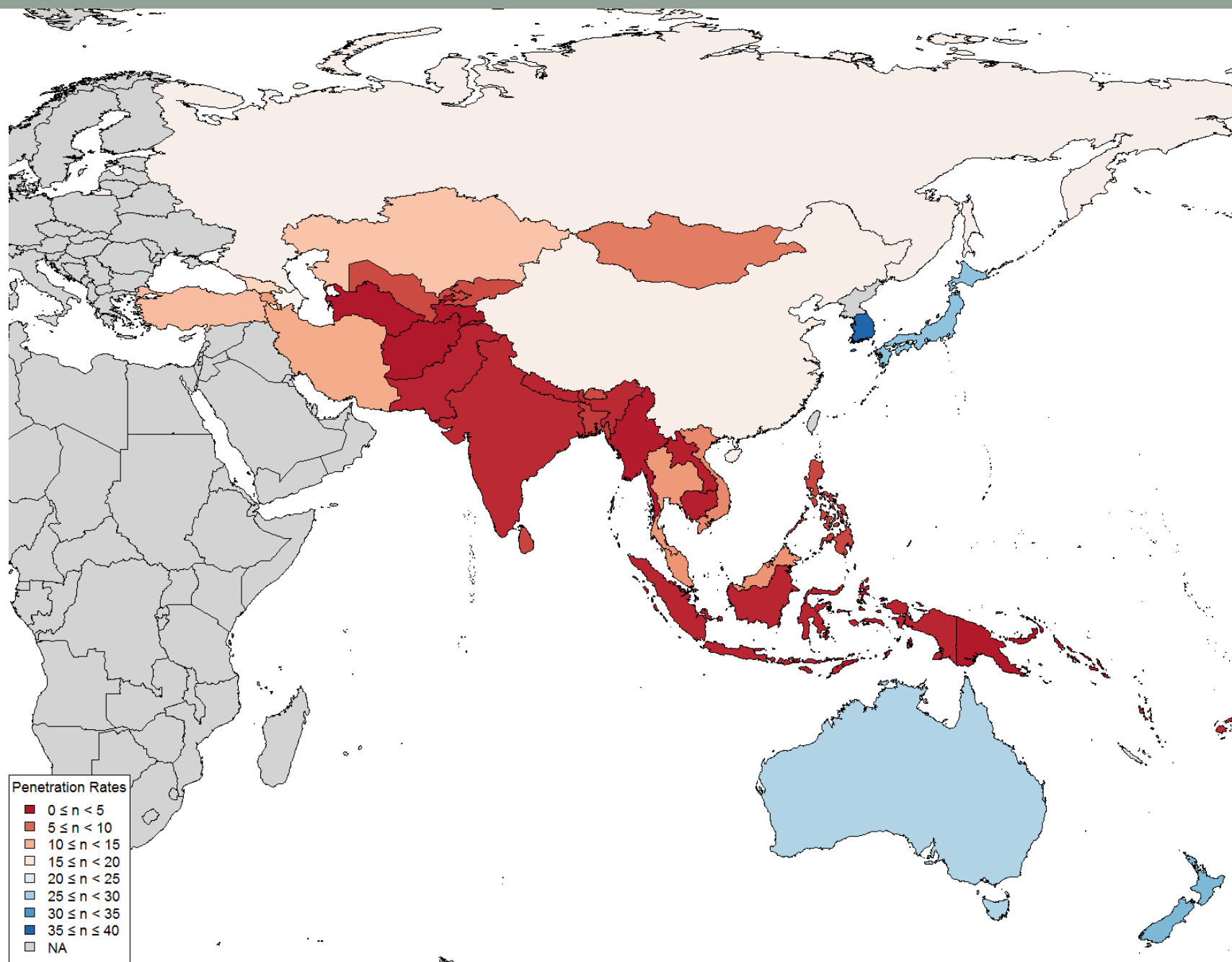


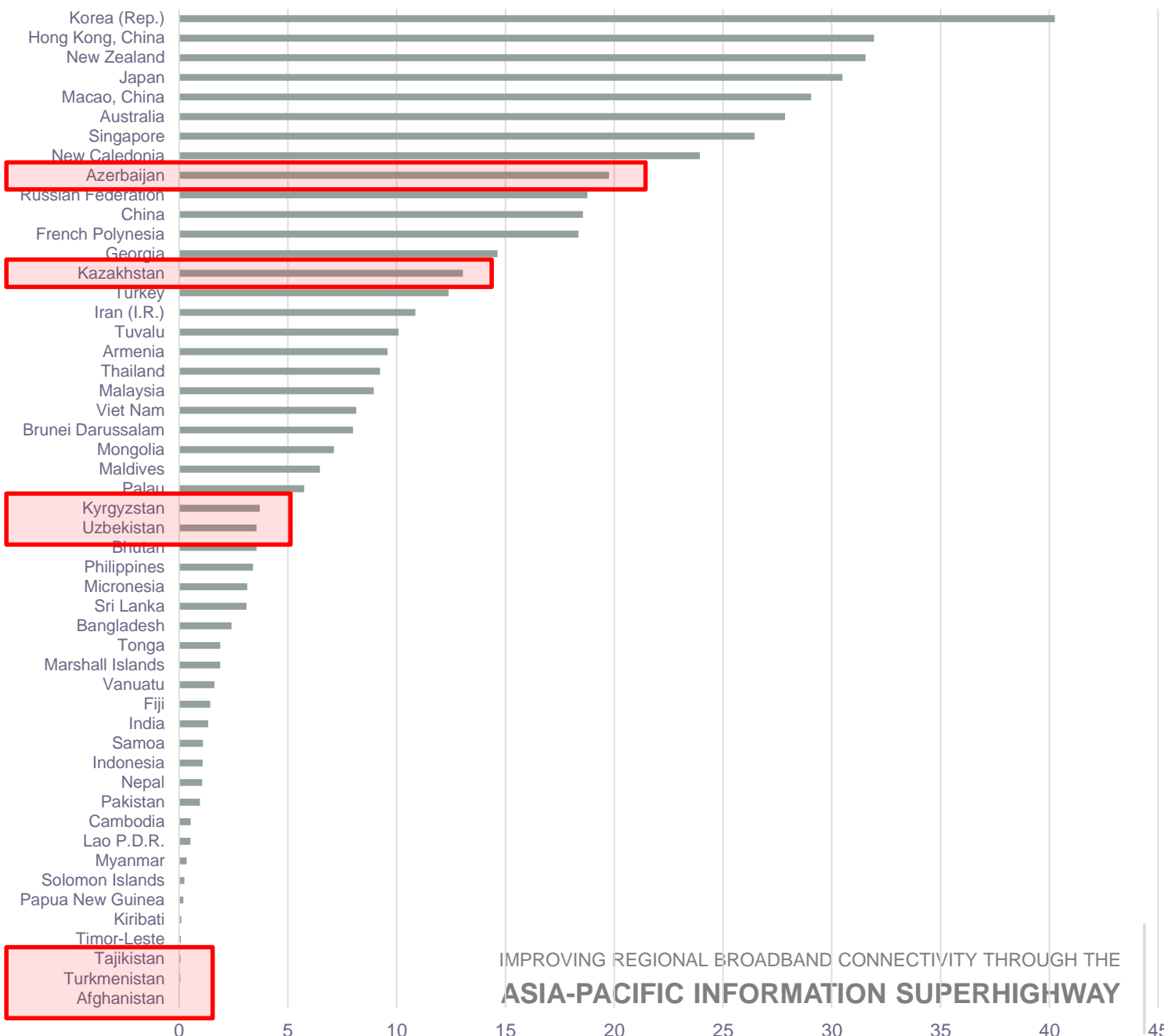
Total Fixed Broadband Populations



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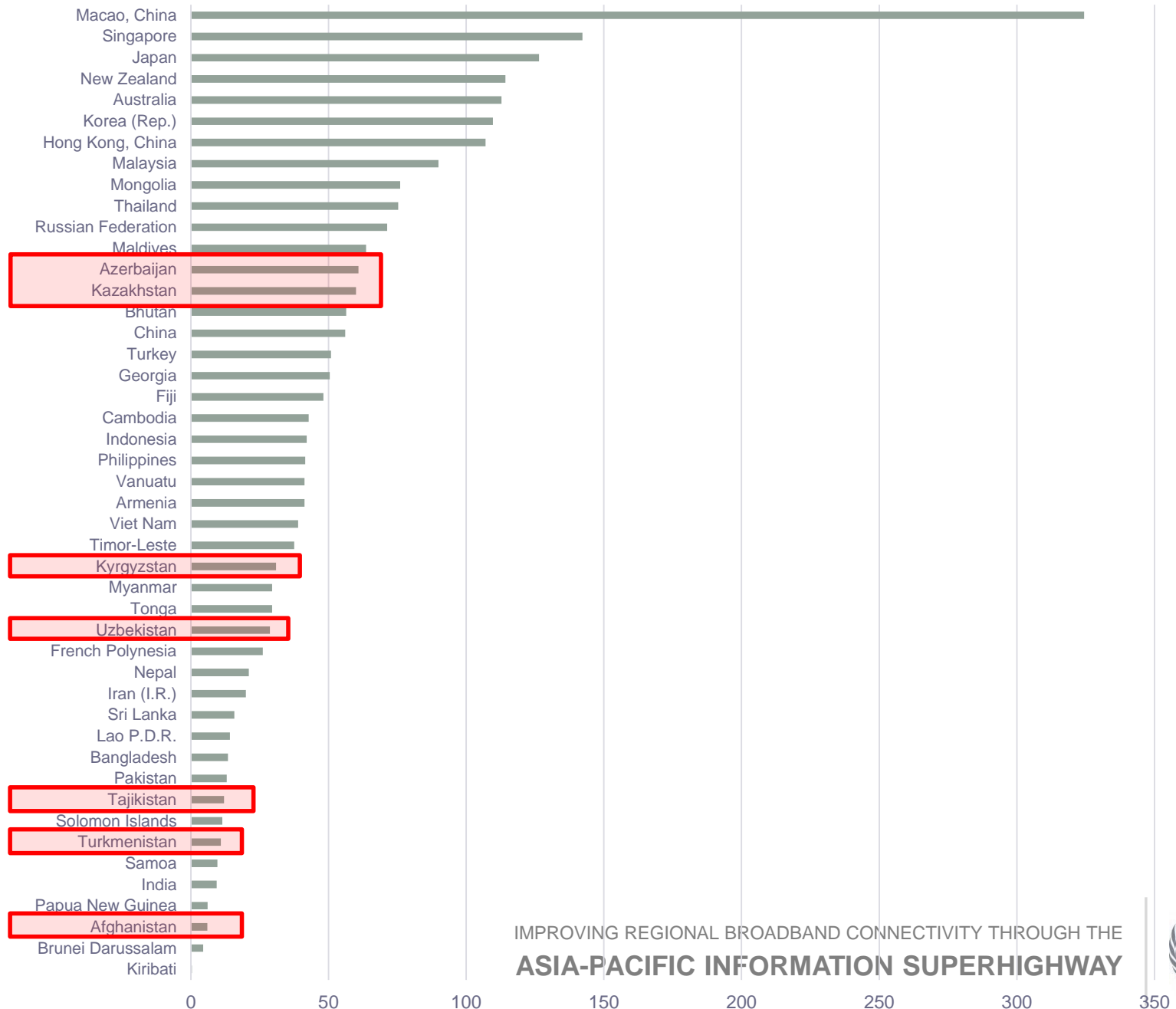






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Affordability of fixed broadband services in SPECA countries

	Monthly Subscription (USD)	Cost (% of GNI per capita)	Cost (% of GNI per capita PPP)	Evaluation
Afghanistan	69.00	123.6	42.2	Unaffordable
Azerbaijan	9.50	1.5	0.7	Affordable
Kazakhstan	20.60	2.1	1.1	Affordable
Kyrgyzstan	5.83	5.6	2.2	Moderate
Tajikistan	58.44	64.9	26.4	Unaffordable
Turkmenistan	171.40	25.6	14.2	Expensive
Uzbekistan	37.5	21.5	7.7	Expensive

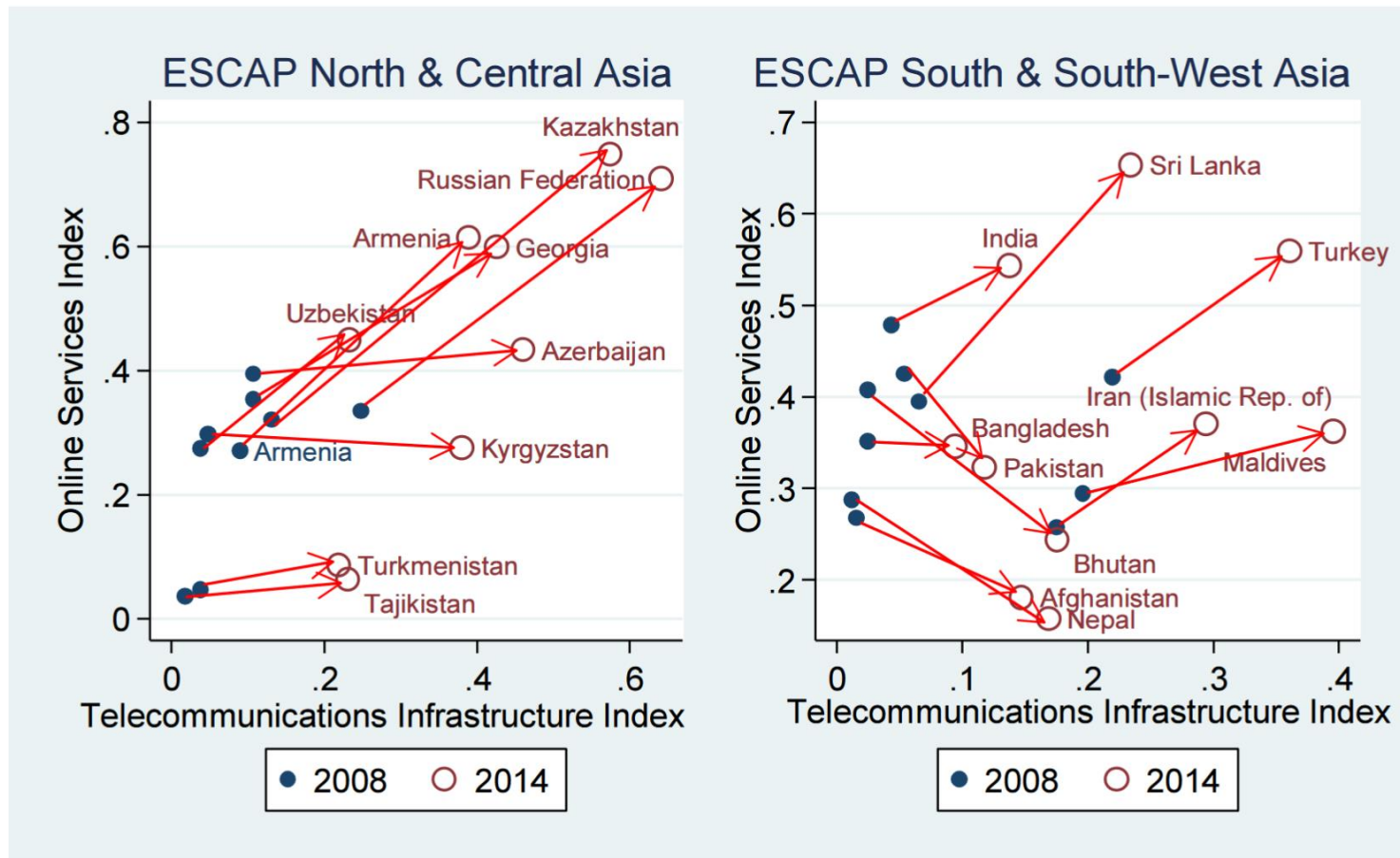
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Source: ADB, ESCAP and ISOC, "Unleashing the Potential of the Internet in Central Asia, South Asia, the Caucasus and Beyond", 16 December 2015. Available from <http://www.unescap.org/resources/unleashing-potential-internet-central-asia-south-asia-caucasus-and-beyond>

Online Services & Telecommunications Infrastructure Indices



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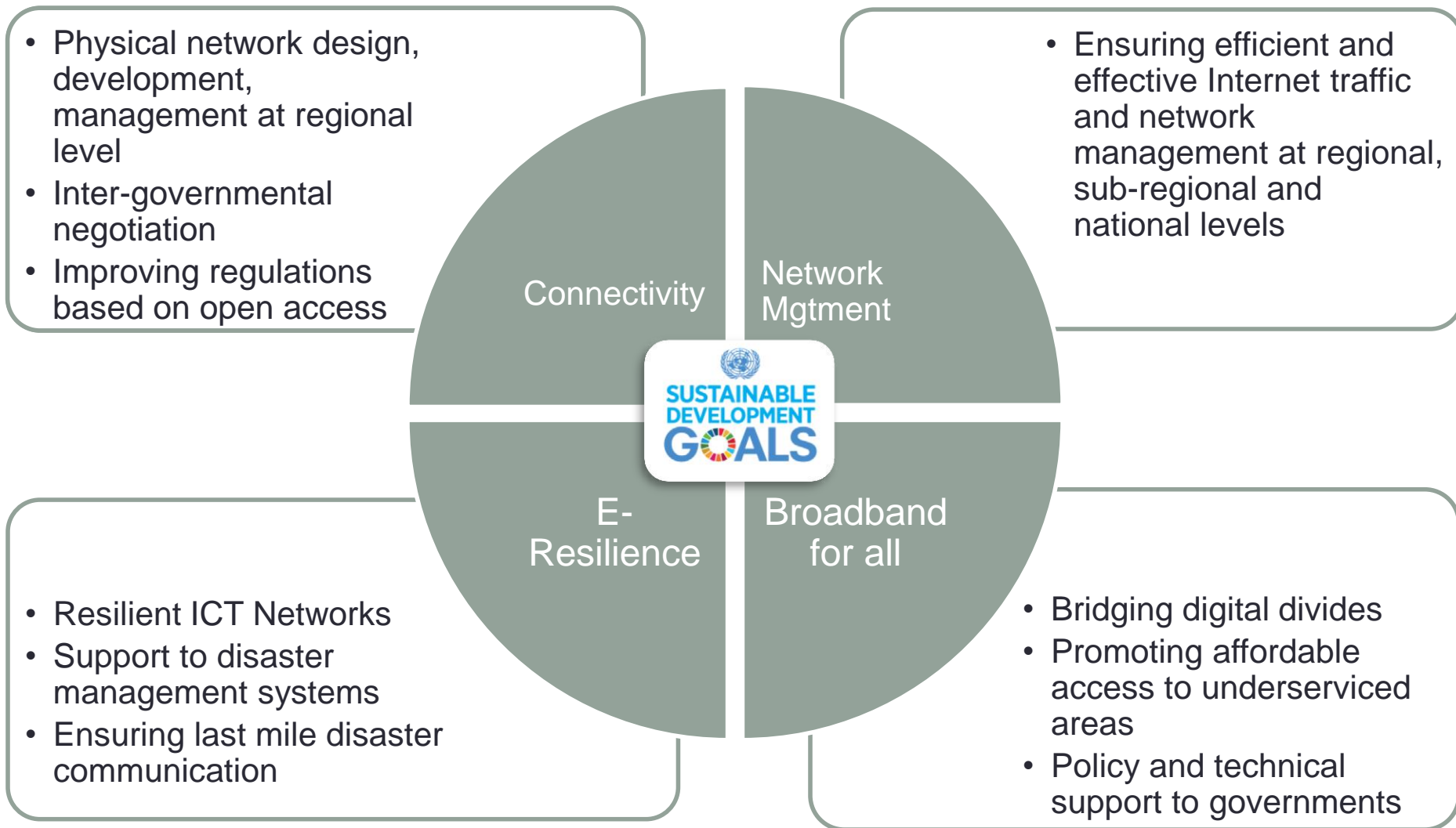
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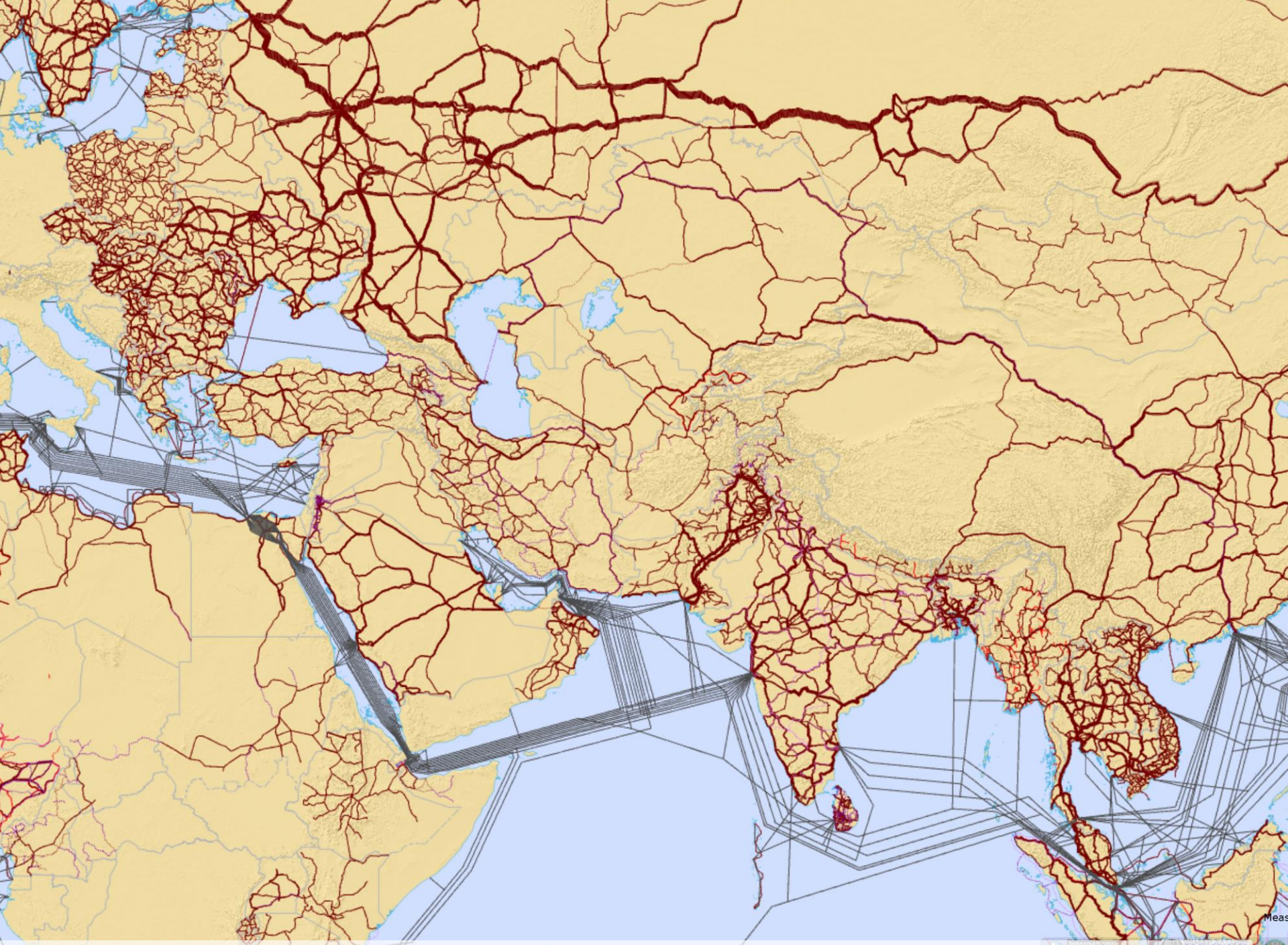
Source: ESCAP. (2016). The State of ICT in Asia and the Pacific: Uncovering the Widening Broadband Divide. Available from:

<http://www.unescap.org/resources/state-ict-asia-and-pacific-2016-uncovering-widening-broadband-divide>



The Four Pillars of AP-IS





Source: ITU. (2016). ITU Interactive Terrestrial Transmission/ESCAP Asia-Pacific Information Superhighway map. Available from: <https://www.itu.int/itu-d/tnd-map-public/>

The Four Pillars of AP-IS

- Physical network design, development, management at regional level
- Inter-governmental negotiation
- Improving regulations based on open access

Connectivity

- Ensuring efficient and effective Internet traffic and network management at regional, sub-regional and national levels

Network
Mgtment



E-
Resilience

- Resilient ICT Networks
- Support to disaster management systems
- Ensuring last mile disaster communication

Broadband
for all

- Bridging digital divides
- Promoting affordable access to underserved areas
- Policy and technical support to governments



Source: ISOC. (2016). Internet Exchange Points (IXPs) Maps: Available from: <http://ixptoolkit.org/ixps>

Not enough international bandwidth

	International Bandwidth (Gbps),2015	International Bandwidth Percapita (Kbps)	Transit Price (USD per Mbs)
Afghanistan	24.4	0.79	35
Azerbaijan	448.8	48.76	20
Kazakhstan	1,082	64.67	15
Kyrgyzstan	30.1	5.30	30-100
Tajikistan	4.5	0.56	>100
Turkmenistan	2.4	0.47	>100
Uzbekistan	19.25	0.64	347

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E-Resilience

- The first 72 hours after a disaster event are most crucial.
- Due to disasters, ICT systems are usually rendered inoperable.
- Enhancing ICT system resilience (e-resilience) will enable more efficient recovery.
- Enhancing e-resilience also means better preparedness.



Thank You

