



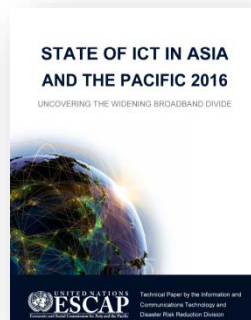
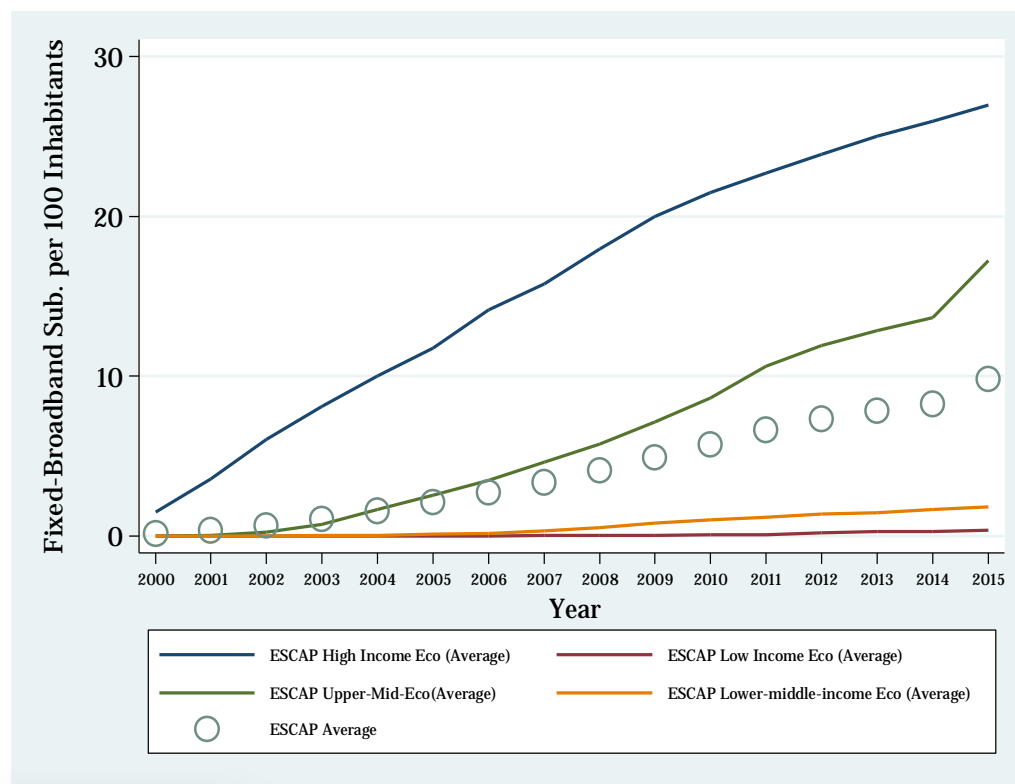
OVERVIEW: ICT CONNECTIVITY AND ASIA PACIFIC INFORMATION SUPERHIGHWAY (AP-IS)

IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE
ASIA-PACIFIC INFORMATION SUPERHIGHWAY



Growing Digital Divide in Asia-Pacific

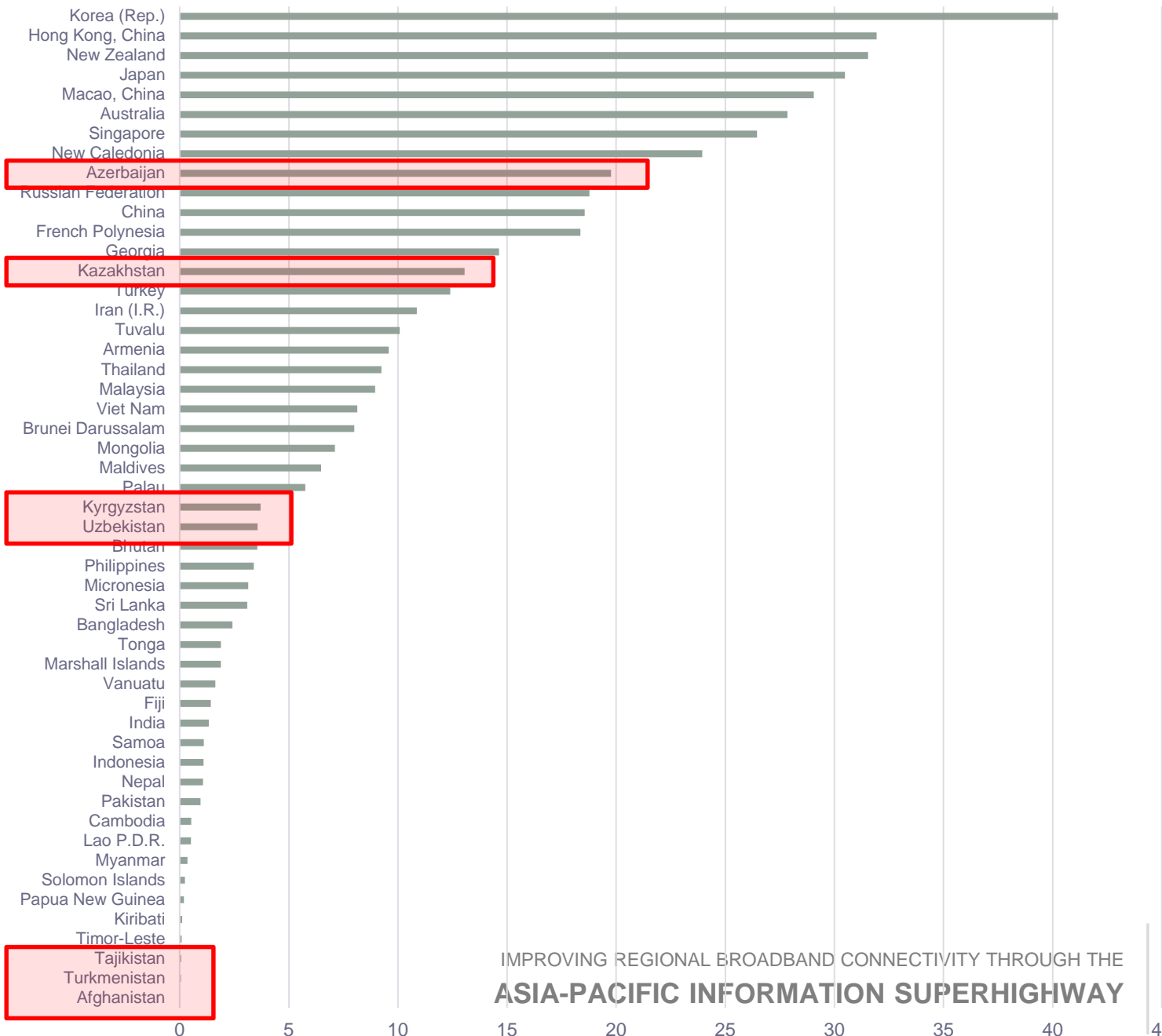
- Asia and the Pacific has 52.3% of fixed broadband users in the world, yet...
 - Average per capita fixed broadband subscriptions is below world average and behind Latin America, North America and Europe;
 - Within Asia and the Pacific, the low income economies are being left further behind



State of ICT in Asia and the Pacific 2016: Uncovering the Widening Broadband Divide

REGIONAL BROADBAND CONNECTIVITY THROUGH THE
INFORMATION SUPERHIGHWAY

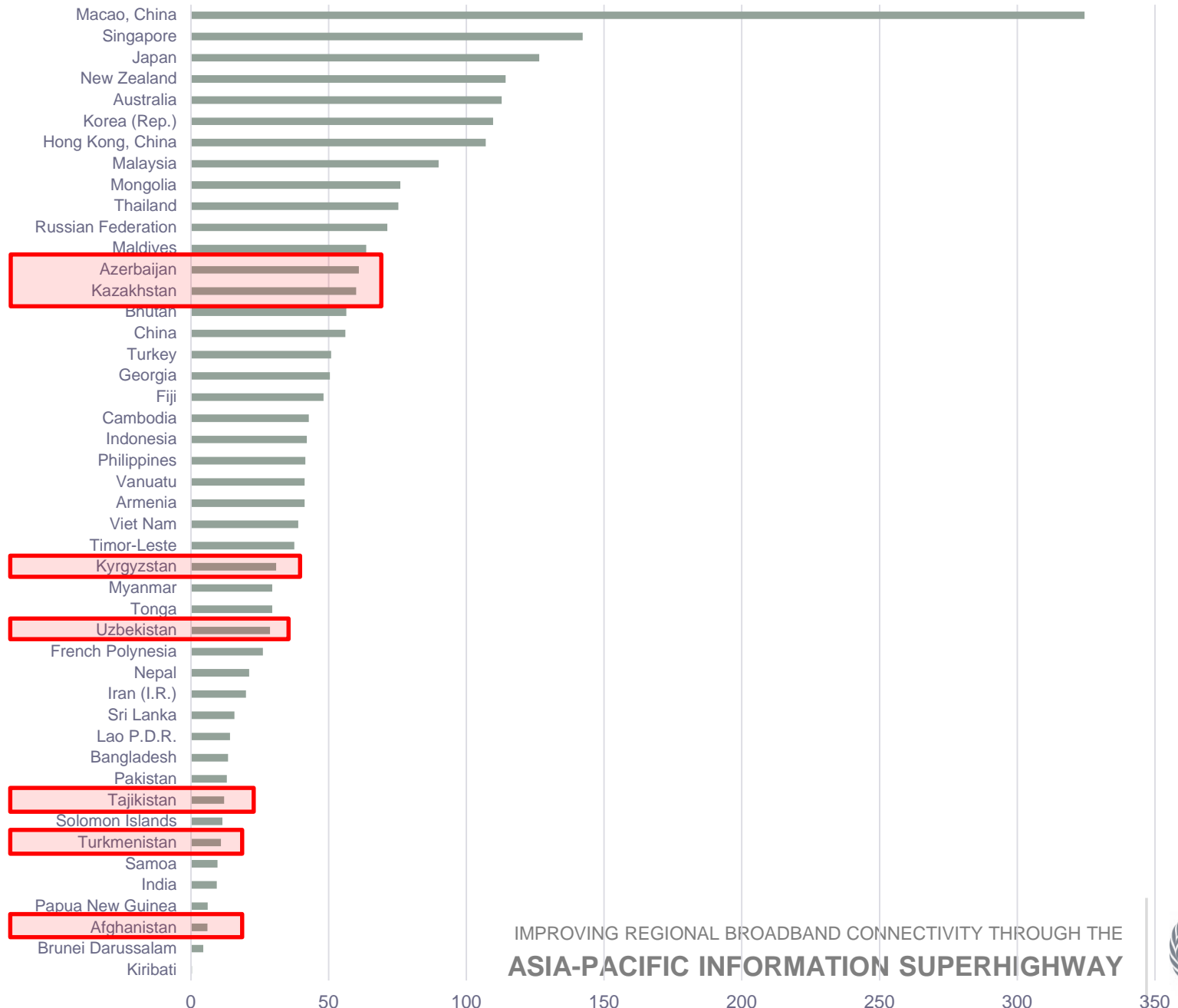




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ASIA-PACIFIC INFORMATION SUPERHIGHWAY



Data source: ITU. (2016). World Telecommunication/ICT Indicators database. Available from: <http://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>

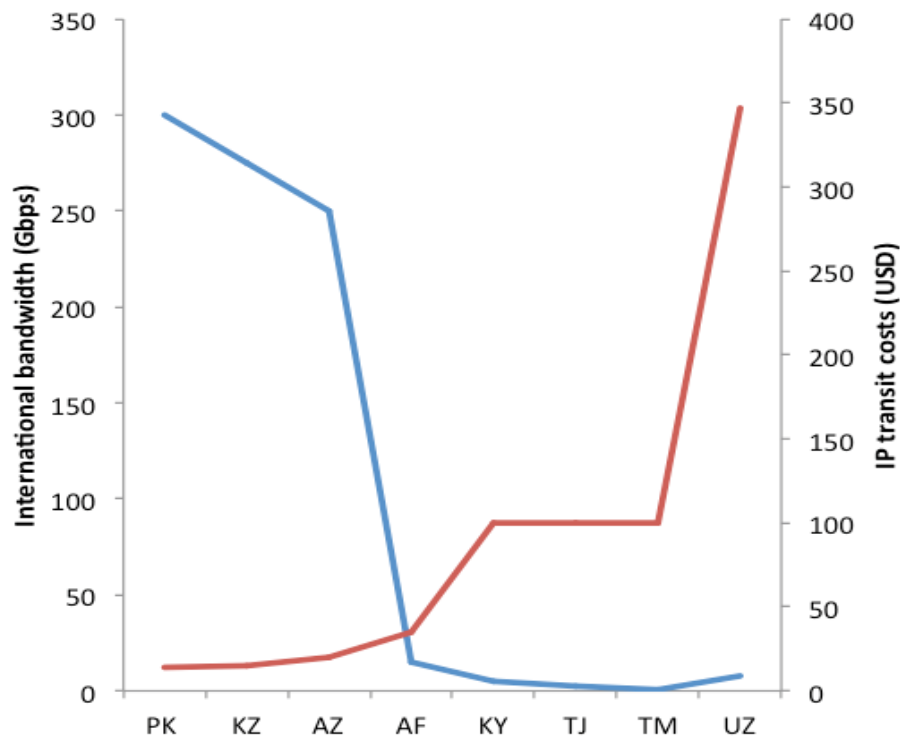


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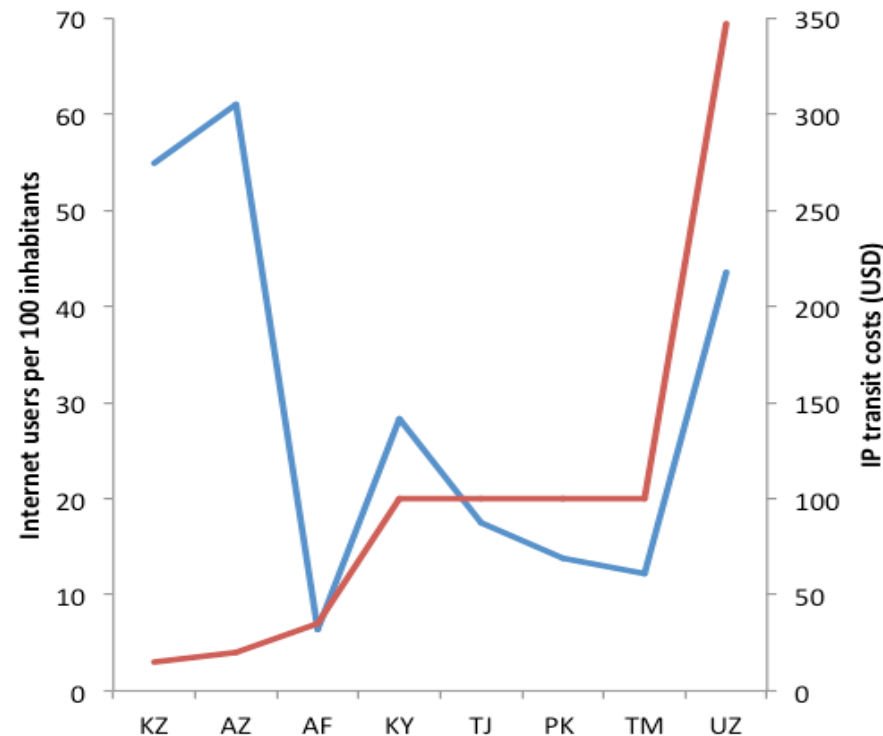


Without effective supply and competitive transit, prices remain high and take up remains low

International bandwidth vs. IP transit costs



Internet penetration vs. IP transit costs

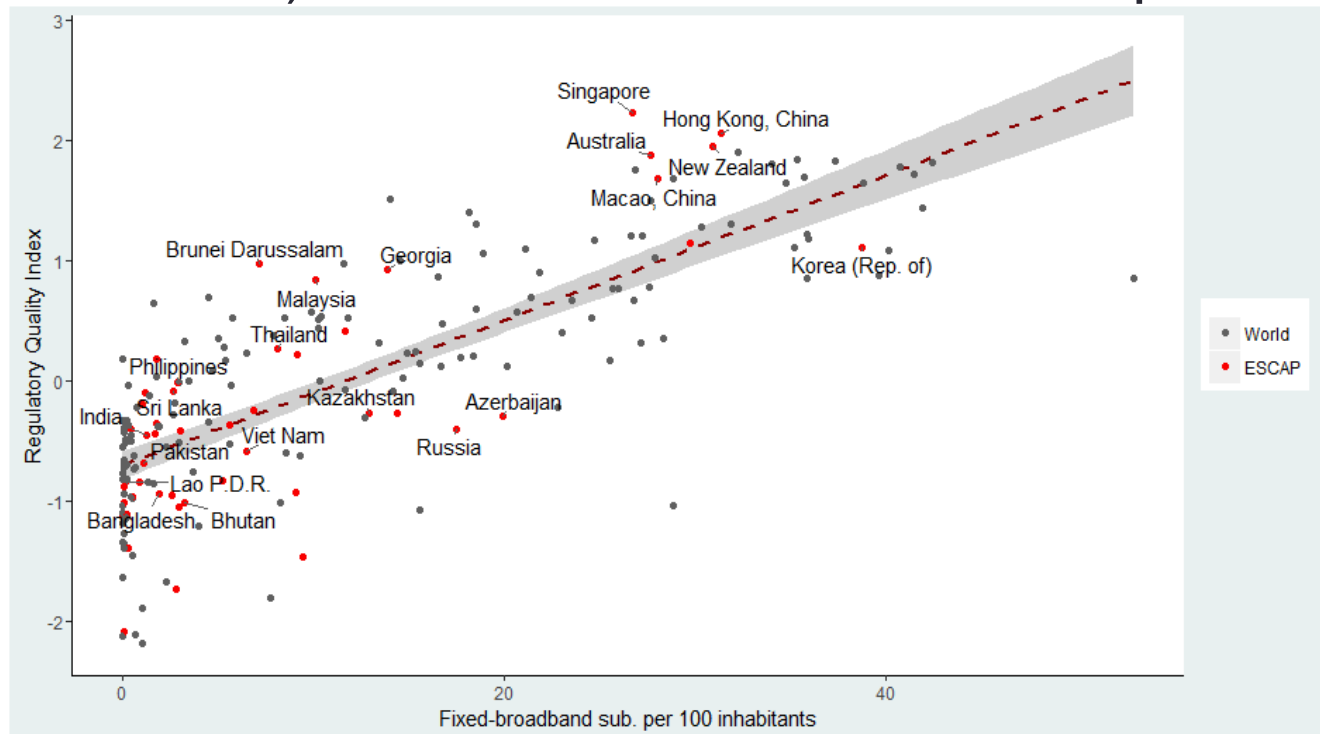


Note: Tajikistan, Turkmenistan and Uzbekistan: outlier status (largely due to dominance of incumbent)



Challenges : Regulations and Broadband Access

- There is a strong correlation between the perceptions on quality of regulations (World Bank – World Governance Indicators) and fixed-broadband subscriptions.



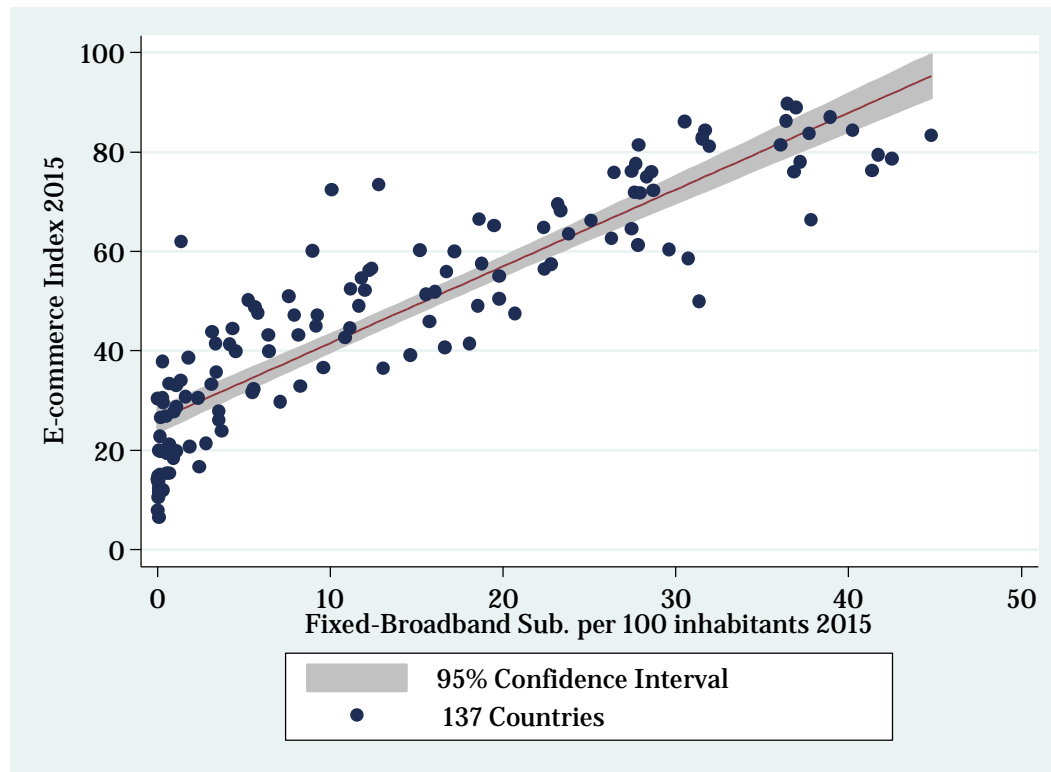
Better quality of regulation instill certainty in investment environment, which encourages private operators to invest more.



Challenges : E-commerce and ICT Access

- Strong positive correlation between E-commerce and broadband access
- Hence, **if broadband infrastructure is not in place, it limits access and therefore e-commerce.**

Figure 15: E-commerce versus fixed broadband access, 2015



Sources: ESCAP estimates; UNCTAD B2C E-Commerce Index 2016; and fixed broadband per 100 sourced from ITU.



Projected bandwidth demand

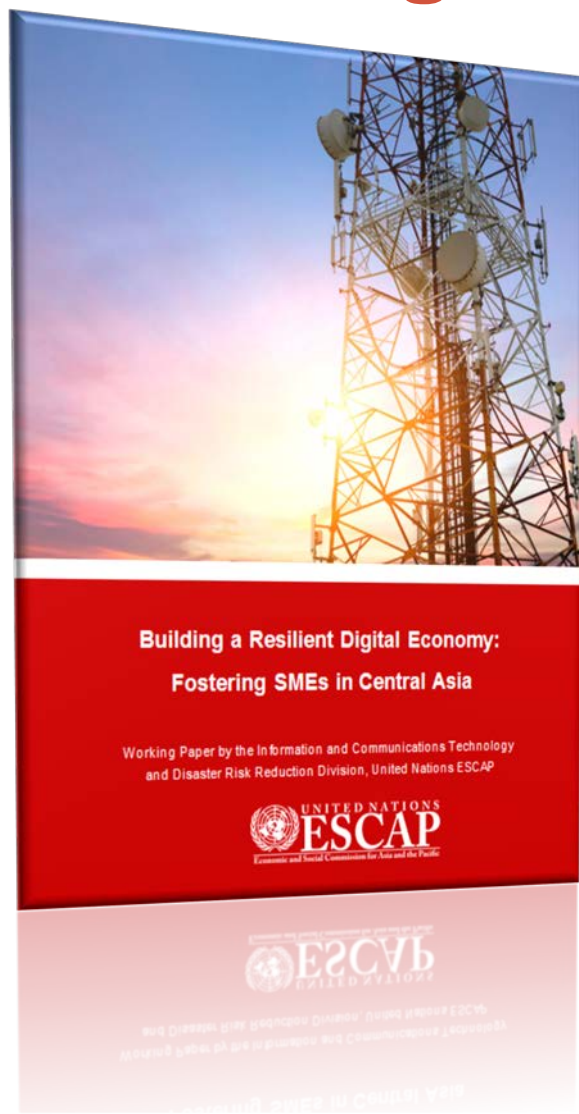
	Projected annual growth 2016-2020	Projected Total growth 2016-2020	Share of corporate data in international bandwidth demand 2016	Share of corporate data in international bandwidth demand 2020	Share of Internet in international bandwidth demand 2016	Share of Internet in international bandwidth demand 2020
Afghanistan	72.3%	+779.5%	7.7%	6.1%	89.7%	93.6%
Azerbaijan	45.7%	+350.2%	11.3%	12.5%	88.7%	87.4%
Kazakhstan	49.6%	+399.5%	16.6%	16.7%	83.2%	83.3%
Kyrgyzstan	51.4%	+423.3%	2.2%	5.1%	97.8%	94.9%
Tajikistan	102.5%	+1562.5%	12.5%	8.3%	87.5%	91.7%
Turkmenistan	132.7%	+2700.0%	7.5%	8.9%	75.0%	91.1%
Uzbekistan	57.5%	+508.0%	8.0%	11.5%	88.0%	86.1%
Region	49.8%	+403.6%	14.4%	14.8%	85.3%	85.1%

Source: ESCAP, “Updated Analysis of the Broadband Infrastructure in Asia Pacific”, 2016. Available from <http://www.unescap.org/resources/updated-analysis-broadband-infrastructure-asia-pacific>

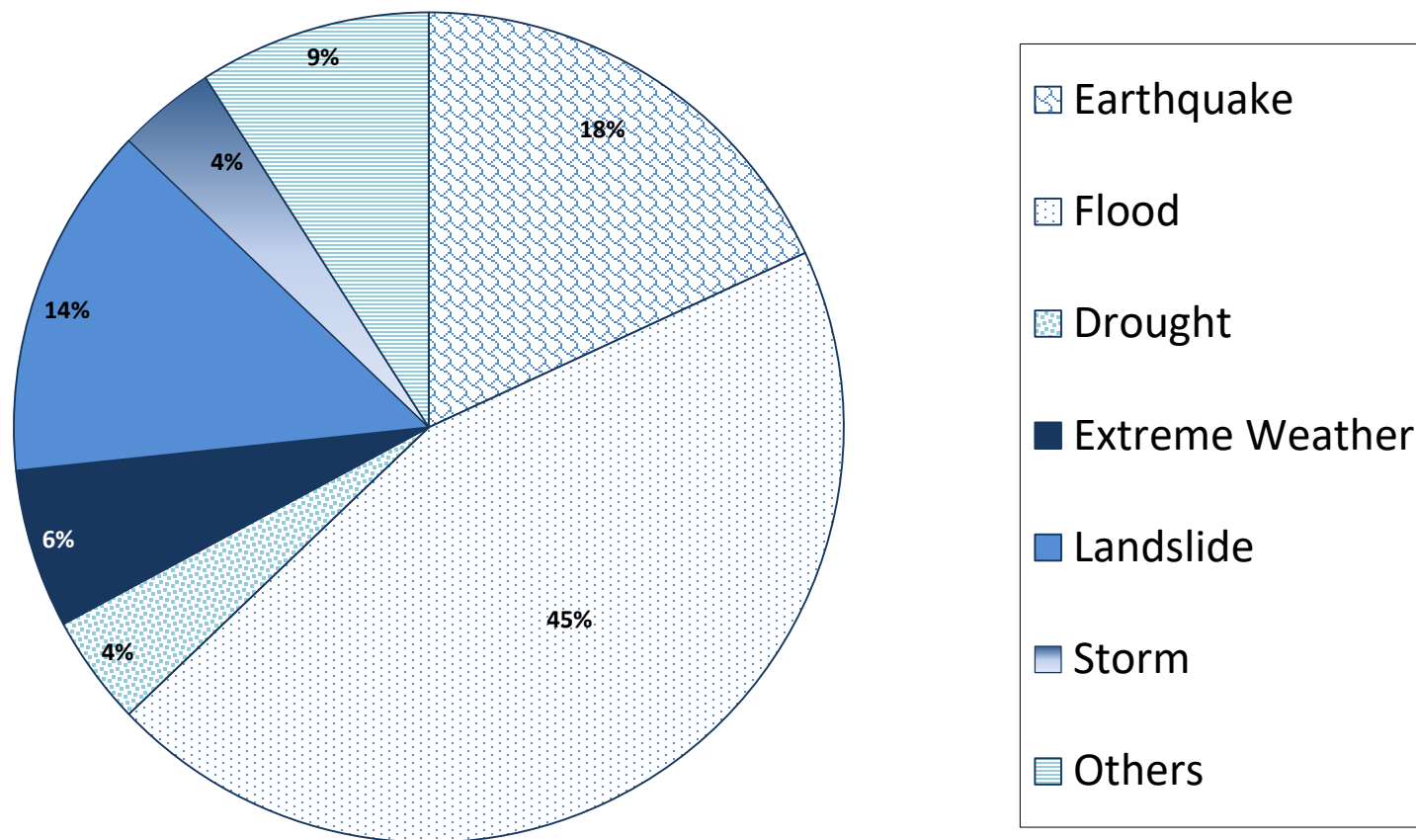


Building a Resilient Digital Economy: Fostering SMEs in Central Asia

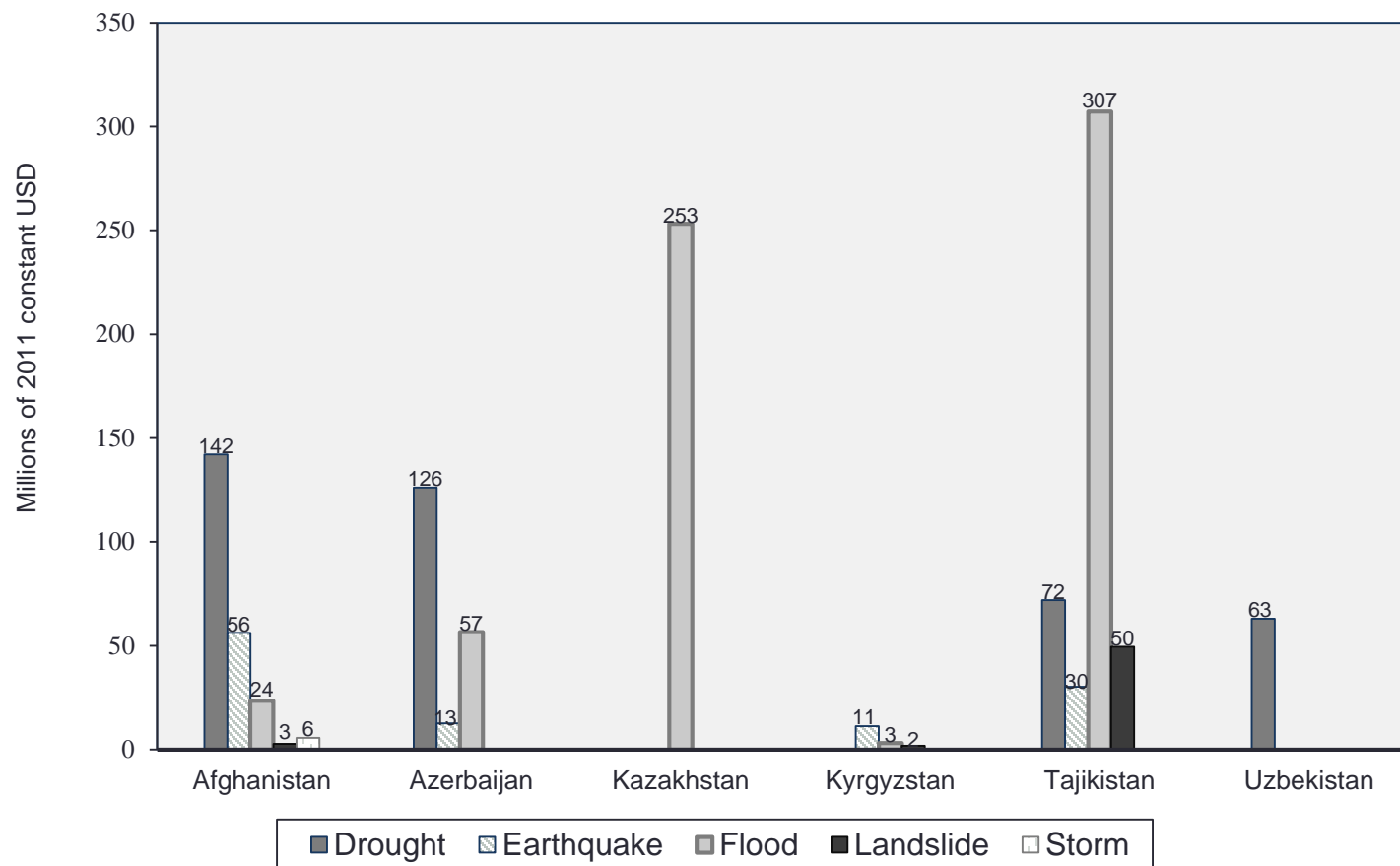
- Economic Structure and the State of ICT in the SPECA Subregion
- The Challenges posed by Disasters in Building a Resilient Digital Economy in the SPECA Subregion
- <http://www.unescap.org/resources/building-resilient-digital-economy-fostering-smes-central-asia>



Share of disasters in the SPECA subregion by number of occurrences, 2000-2015



Disaster damage in the SPECA subregion, 2000-2015



**ASIA-PACIFIC
INFORMATION
SUPERHIGHWAY**

亚太信息高速公路

**АЗИАТСКО-
ТИХООКЕАНСКАЯ
ИНФОРМАЦИОННАЯ
СУПЕРМАГИСТРАЛЬ**

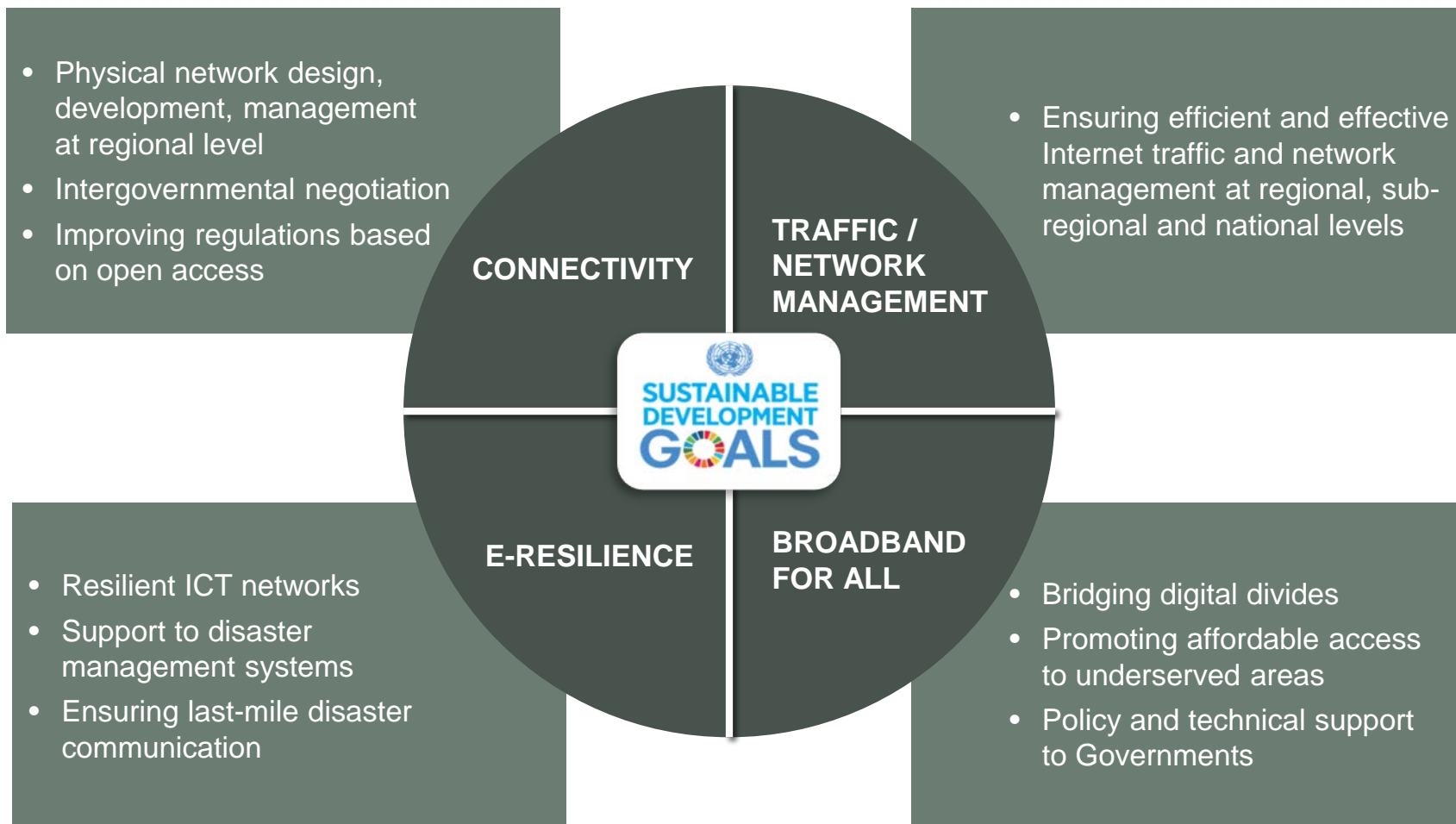
**L'AUTOROUTE
ASIE-PACIFIQUE
DE L'INFORMATION**

INFO & PUBLICATIONS ON
WWW.UNESCAP.ORG/APIIS

The Asia-Pacific Information Superhighway initiative aims to increase the availability and affordability of broadband Internet across Asia and the Pacific, by strengthening the underlying Internet infrastructure in the region.

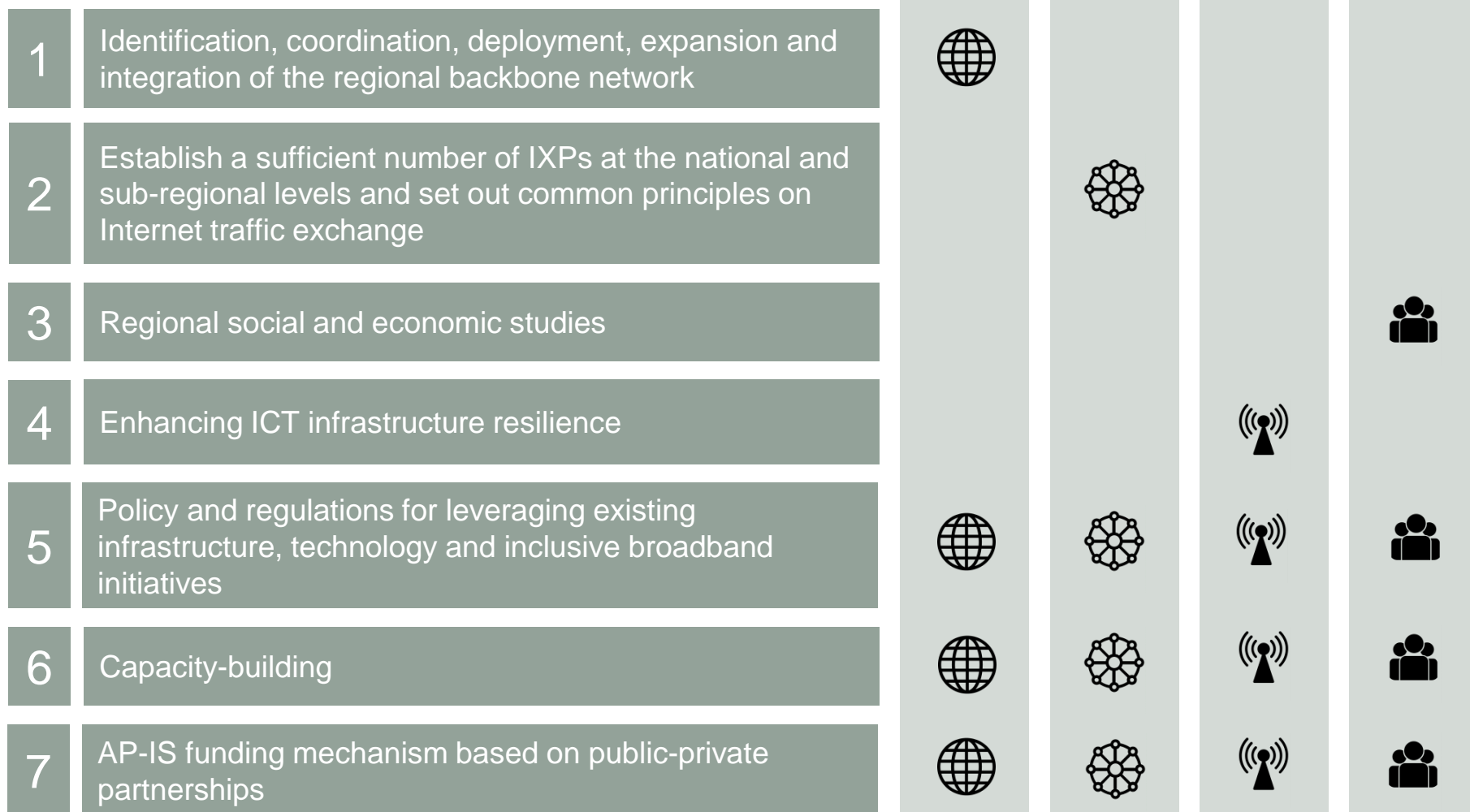
- Promote terrestrial and submarine fibre-optic connectivity
- Provide a regional intergovernmental platform focusing on the missing fibre-optic links between ESCAP countries

Four Pillars of AP-IS



AP-IS Initiatives

Strategic Initiatives 2016-2018



AP-IS Master Plan and the Regional Cooperation Framework Document for the AP-IS

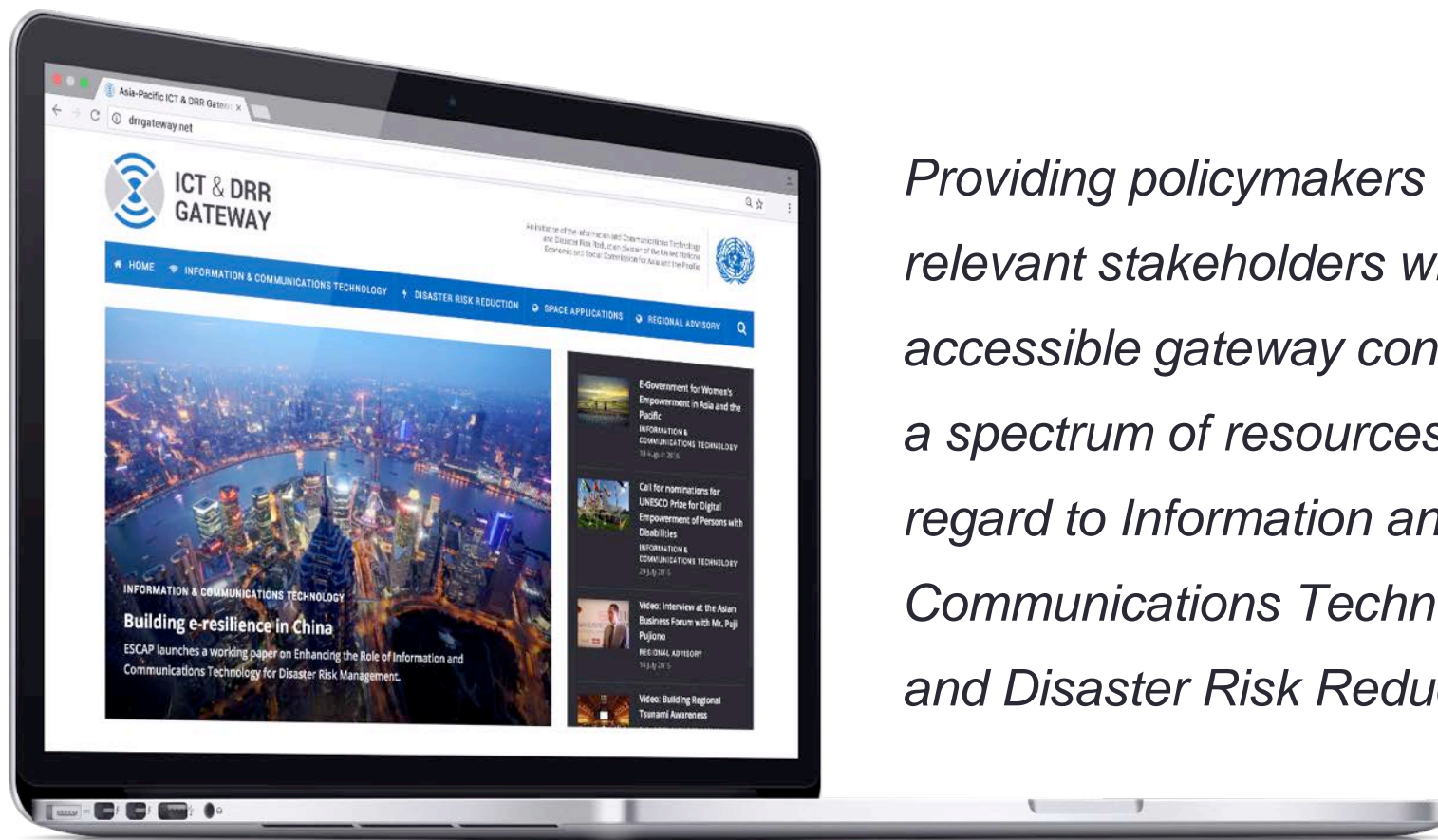
- Both documents are available (including Russian Version):



- <http://www.unescap.org/our-work/ict-disaster-risk-reduction/asia-pacific-information-superhighway/master-plan-for-the-ap-is-and-ap-is-regional-cooperation-framework-document>
- Report of the Committee on Information and Communications Technology, Science, Technology and Innovation, first session, 5-7 October, 2016, Bangkok, Thailand
 - <http://www.unescap.org/official-documents/committee-information-and-communications-technology-science-technology-and-innovation/session/1>
- AP-IS Flyer
 - <http://www.unescap.org/resources/asia-pacific-information-superhighway-ap-overview>



Asia-Pacific ICT & DRR Gateway



Providing policymakers and relevant stakeholders with an accessible gateway containing a spectrum of resources with regard to Information and Communications Technology and Disaster Risk Reduction



Online Communities



The screenshot displays the 'Infrastructure and connectivity (AP-IS)' community page on the Unite Connections platform. The page layout includes a navigation bar at the top with 'unite connections', 'Home', 'Profiles', 'Communities', and 'Apps'. The main content area is divided into several sections:

- Communities:** A sidebar on the left showing the 'Overview' tab and a list of tags including 'ap-is', 'connectivity', 'infrastructure', and 'Cloud'.
- Community Description:** A central section with the title 'Infrastructure and connectivity (AP-IS)' and the description: 'Knowledge sharing on infrastructure with a focus on cross-border fiber optic broadband projects.'
- Forums:** A section with the heading 'Forums' and a prompt: 'Ask a question, brainstorm, or simply share your ideas.' Below this is a link to 'Start the First Topic'.
- Bookmarks:** A section with the heading 'Bookmarks' and a prompt: 'Share Web resources with your community.' Below this is a link to 'Add Your First Bookmark'.
- Files:** A section with the heading 'Files' and a prompt: 'There are no files for this community.' Below this is a link to 'Add Your First File'.
- Right Sidebar:** Contains a search bar for 'This Community', a 'Community Actions' dropdown, 'Important Bookmarks' with the text 'Highlight key Web resources.', and 'Members' showing three profile pictures and a link to 'View All (3 people)'.

*Communities on **Unite** platform facilitating dialogue on 4 pillars:*

1. Infrastructure and connectivity
2. Internet traffic and network management
3. E-resilience
4. Broadband for all



THANK YOU

IMPROVING REGIONAL BROADBAND CONNECTIVITY THROUGH THE
ASIA-PACIFIC INFORMATION SUPERHIGHWAY

