UNITED NATIONS ESCAP
Economic and Social Commission for Asia and the Pacific

Connecting economies
and empowering people

Sixth Session of the SPECA Project Working Group on Knowledge-based Development

Ashgabat, Turkmenistan
11 June 2014

Dominic Leong

ICT and Development Section

ICT and Disaster Risk Reduction Division (IDD)

United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

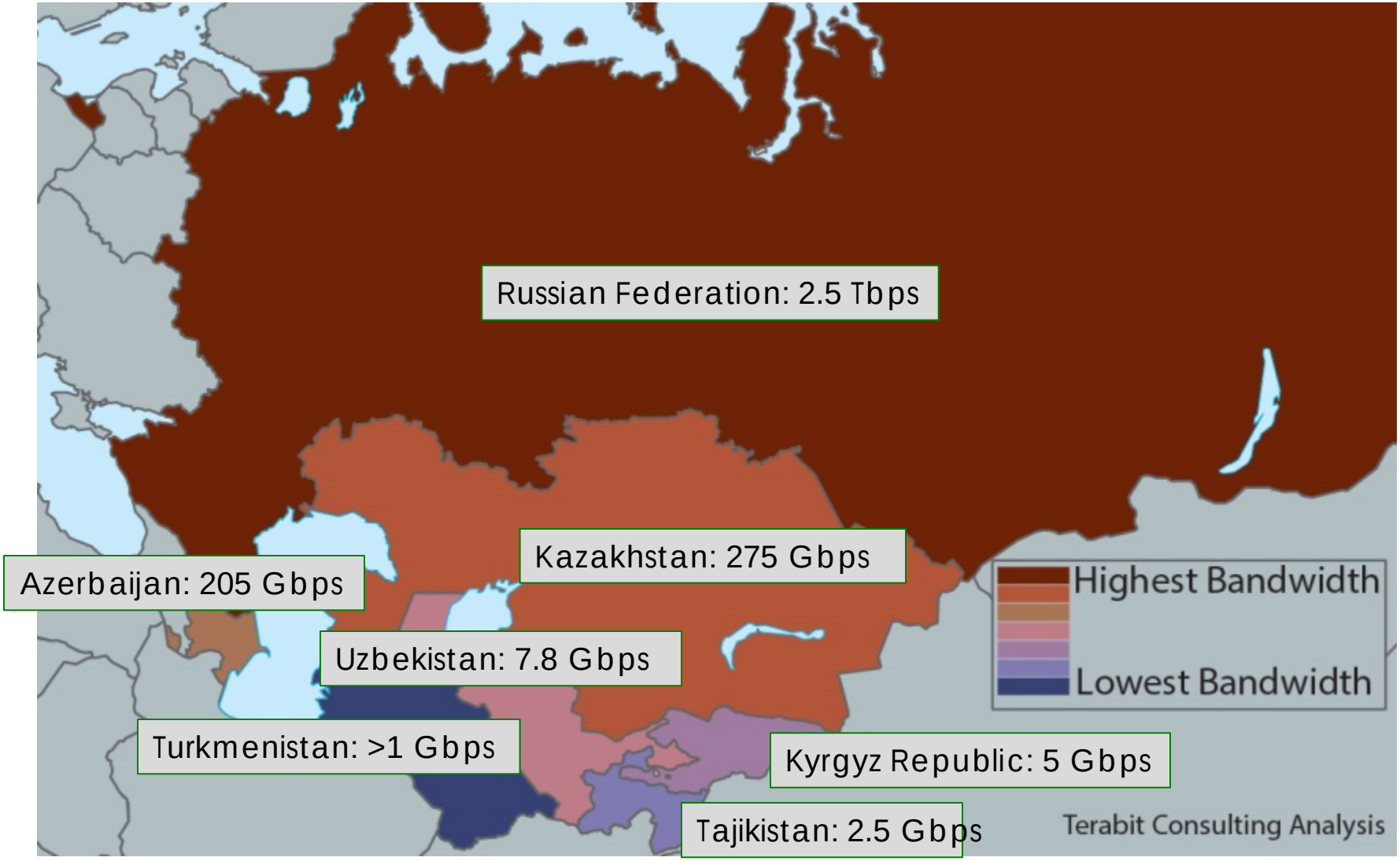
United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

- Regional development arm for the United Nations in the Asia-Pacific region
- Headquarters in Bangkok, Thailand
- 62 member States, including Afghanistan, Azerbaijan, Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan, and Uzbekistan
- Major fields of work:
  - Macroeconomic policy
  - Social development
  - Environment and sustainable development
  - Trade and investment
  - Transport
  - **Information and communications technology and disaster risk reduction**

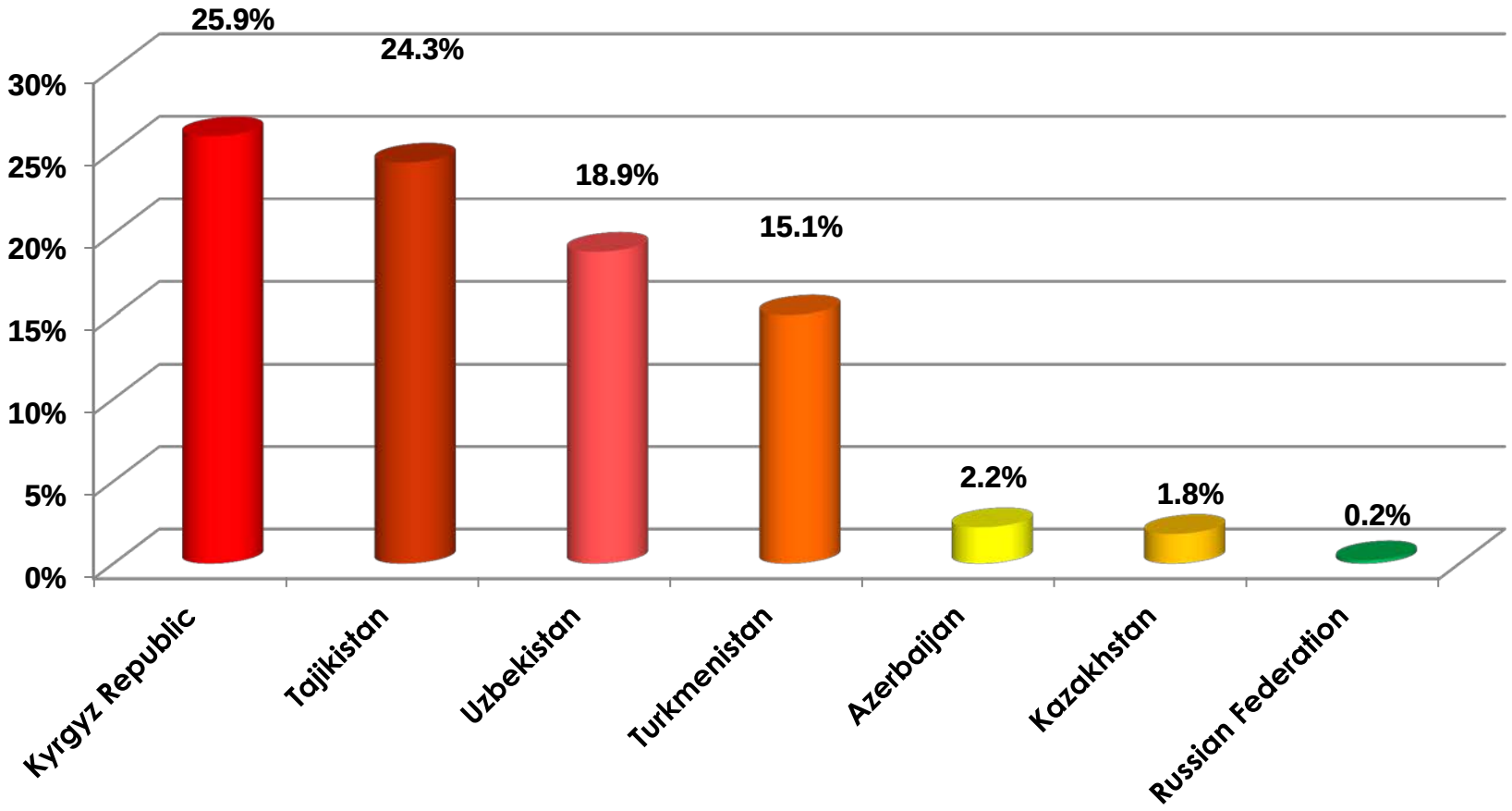
Report of Activities

Expert group meeting on broadband Internet and regional connectivity:

- 3-4 December 2013
- Hosted by the Ministry of Communications and High Technologies, Republic of Azerbaijan;
- Reviewed status of broadband Internet in Azerbaijan, Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan, and Uzbekistan;
- Detailed study available in English and Russian.

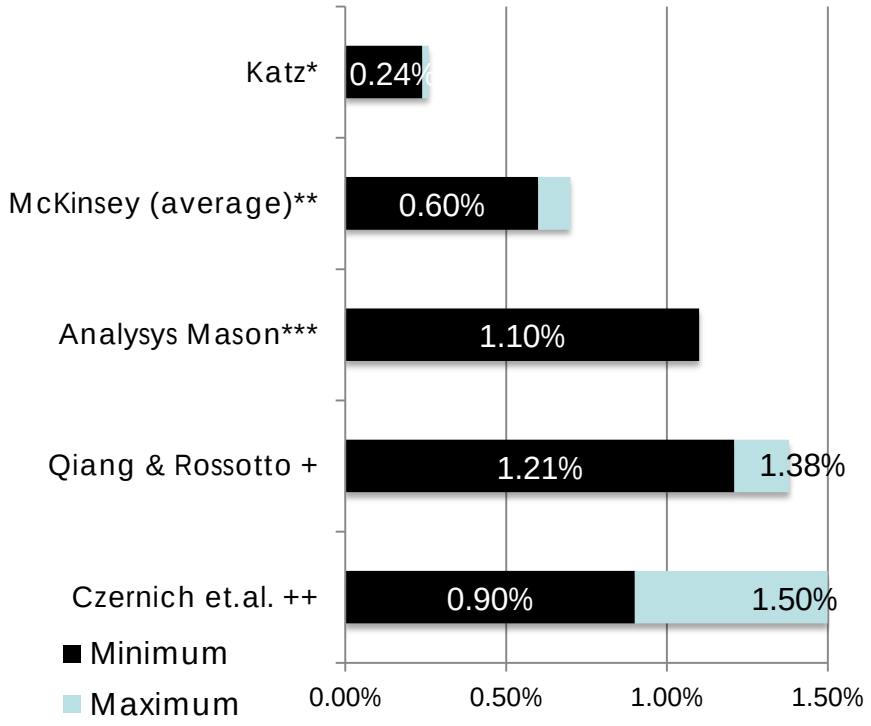

Russian Federation: 2.5 Tbps
Kazakhstan: 275 Gbps
Azerbaijan: 205 Gbps
Uzbekistan: 7.8 Gbps
Turkmenistan: >1 Gbps
Kyrgyz Republic: 5 Gbps
Tajikistan: 2.5 Gbps
Highest Bandwidth
Lowest Bandwidth
Terabit Consulting Analysis

1 Mbps Broadband Connection: Annual Subscription + Installation as a % of Per-Capita GDP



Broadband drives growth and jobs and opens up new opportunities

Impact on GDP of an increase of 10% in broadband penetration



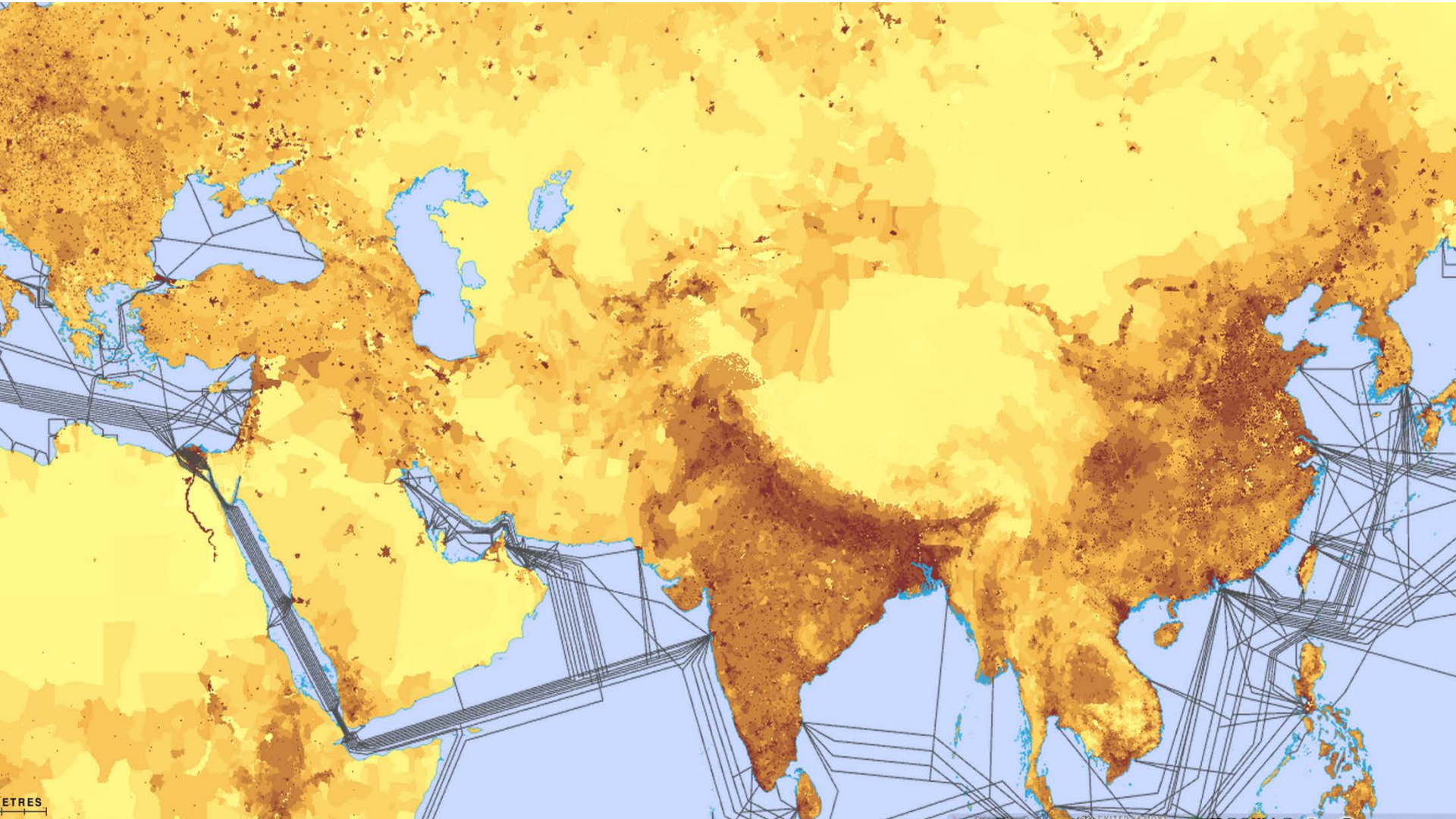
Estimated broadband employment creation multipliers

Study	Year	Scope	Type I	Type II	Network Effect
Crandall et.al.	2003	US	…	2.17	…
Katz et.al.	2008	CH	1.4	…	…
Atkinson et.al.	2009	US	…	3.60	1.7
Katz et.al.	2009a	US	1.83	3.43	…
Libenau et.al.	2009	UK	…	2.76	…
Katz et.al.	2009b	DE	1.45	1.93	…

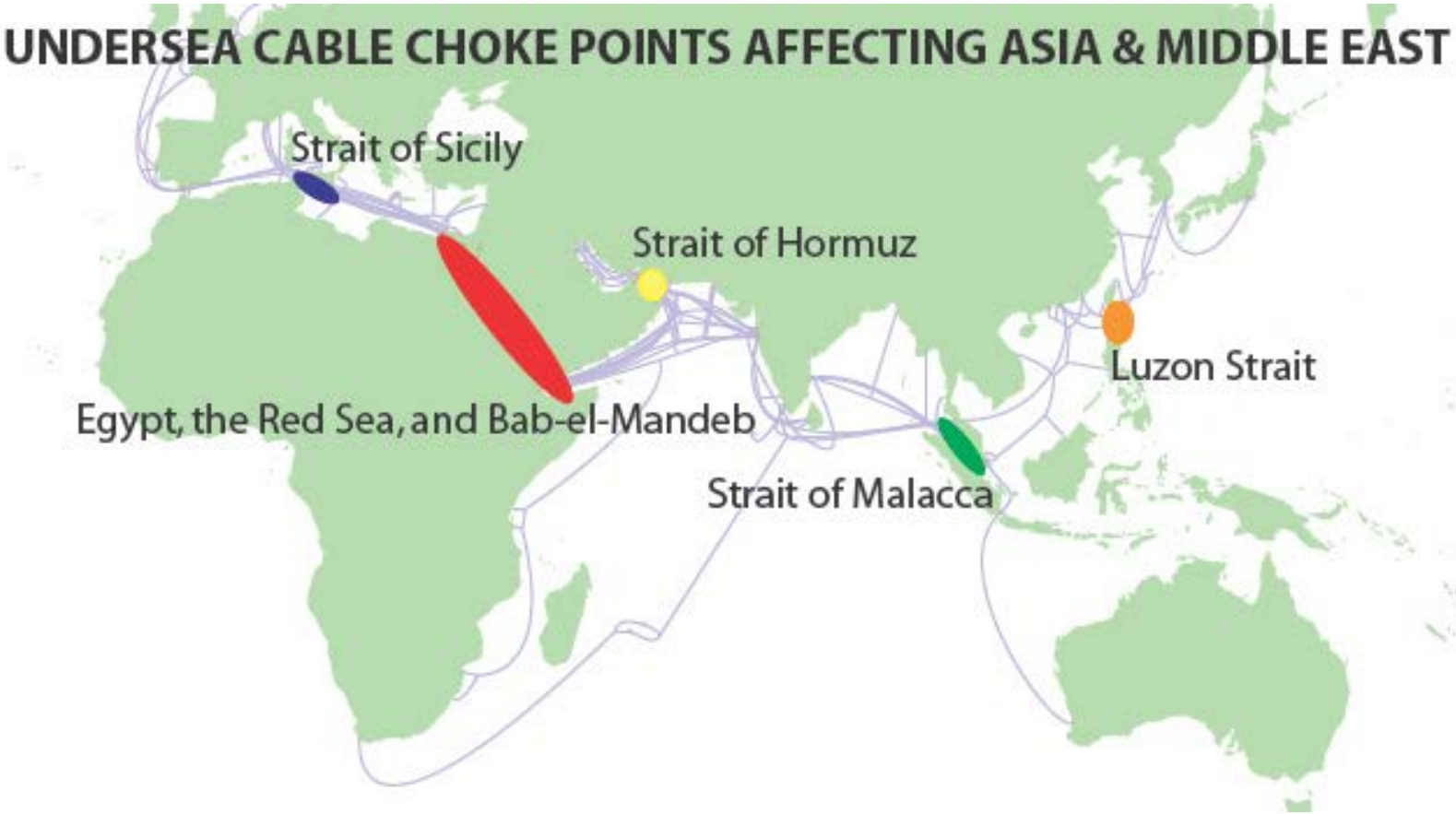
Impact of BB investment is well established.

- 10% annual broadband penetration increases annual GDP growth by 0.24-1.5 p. p., and creates 1.5 to 4.5 indirect jobs for each job created.

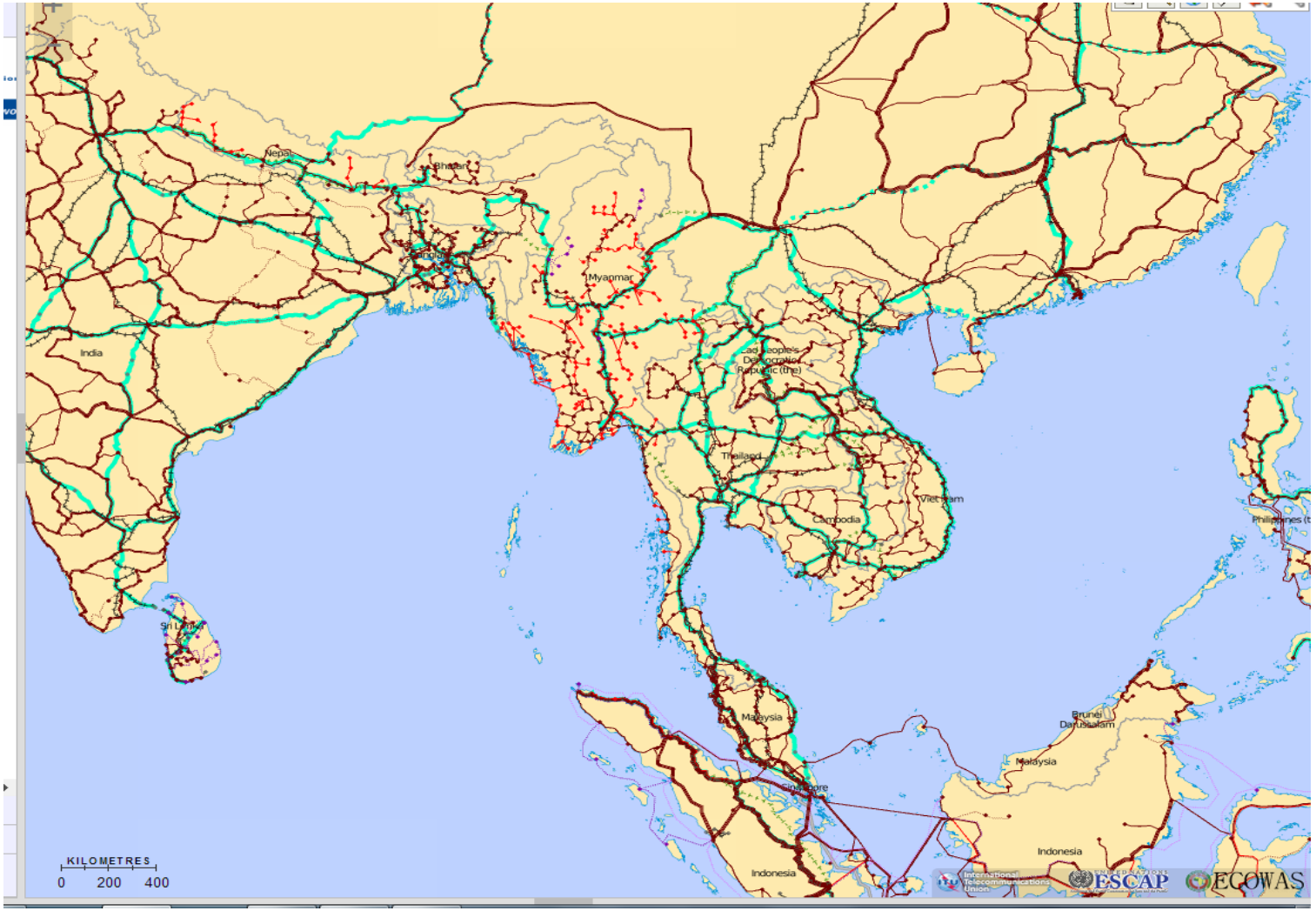
Central Asia connectivity is provided through **submarine cables**



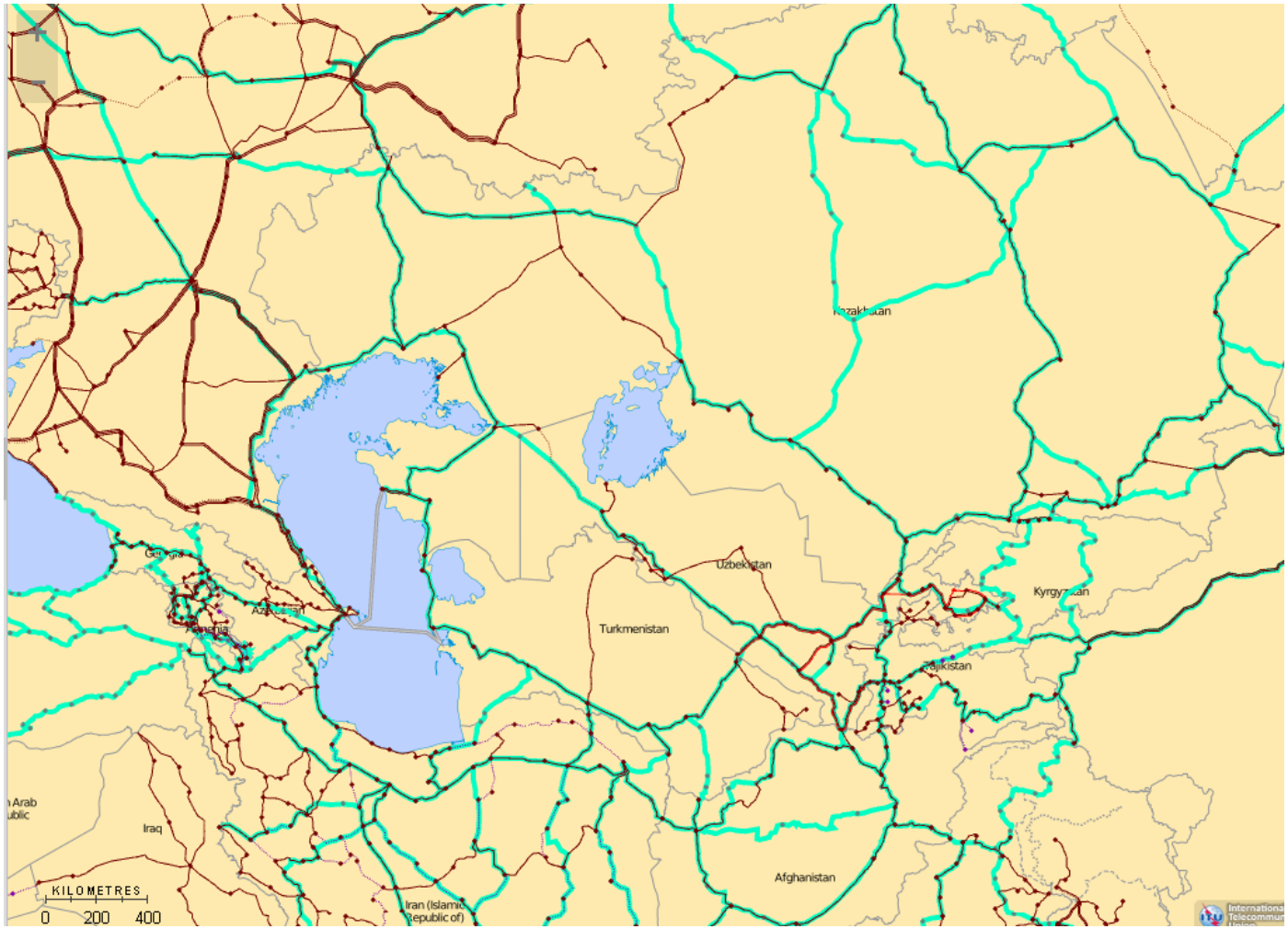
Europe-Asia data transit flow is the fastest growing data market



Map of the Asian Information Superhighway



Broadband infrastructure in Central Asia



UN Map

- International Boundary
- Other Line of Separation
- Capital City
- Other Major City

Transmission Networks

- Fibre Optic Cable - Operational
- Fibre Optic Cable - Under Constr.
- Fibre Optic Cable - Planned
- Fibre Optic Cable - Proposed
- Microwave - Operational
- Microwave - Planned

Range from Fibre Node

- 10-km
- 25-km
- 50-km

Population Density

- 0
- persons per sqkm
- > 1000

Trans-Asian Railway, Asian Highway

- Asian Highway Route
- Potential Route
- Railway
- Planned Railway / Under Constr.
- Potential Railway
- Ferry Link

Report of Activities

High-level Regional Roundtable on Telecommunications Connectivity in Central Asia:

- 3 June 2014;
- Co-organized with the World Bank and the ESCAP Sub-regional Office for North and Central Asia;
- Two objectives;
  - Review good practices in infrastructure sharing between the ICT and transport sectors;
  - Review of policy reforms that would create an enabling environment for competitive markets and lower broadband Internet prices;
- Adoption of the Almaty Declaration on Strengthening Telecommunications Infrastructure in Central Asia

Asia-Pacific GATEWAY for Disaster Risk Management and Development

- Online platform for sharing DRM knowledge products and services;
- Access to hundreds of DRM policies, strategies and plans;
- Inventory of hazard, vulnerability and risk assessments;
- Access to national geo-portals (forthcoming);
- Storage of satellite imagery for disaster-affected areas (forthcoming);

SPECA Programme of Work 2014

- **Phase II of the project "Expanding connectivity of North and Central Asia through the development of ICT infrastructure and networks"**
  - Enhancement of the Asian Information Superhighway maps;
  - Sub-regional consultation on 24-25 July, Thimpu, Bhutan

- **Enhance national capacities to use ICT for socio-economic development**
  - Conduct capacity building workshops on APCICT's flagship ICT for development programmes.
  - Development of localized versions of the APCICT training modules, targeted at SPECA member States.

- **Capacity development on the utilization of ICT for disaster risk reduction and climate change adaptation**
  - Support the development of the Asia-Pacific Gateway for Disaster Risk Management and Development.
  - Develop content in the Russian language.

Thank you

For further information please contact:

Dominic Leong: leongd@un.org