

PROPOSED DIGITAL DEVELOPMENT PROGRAM IN CENTRAL ASIA AND SOUTH ASIA (CASA)



WORLD BANK GROUP

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6 September 2017

Organization of Presentation

1. Why a Regional ICT Program for Central Asia and South Asia?
2. Proposed Digital Development Program in Central Asia and South Asia (Digital CASA)
3. Where we are and progress so far

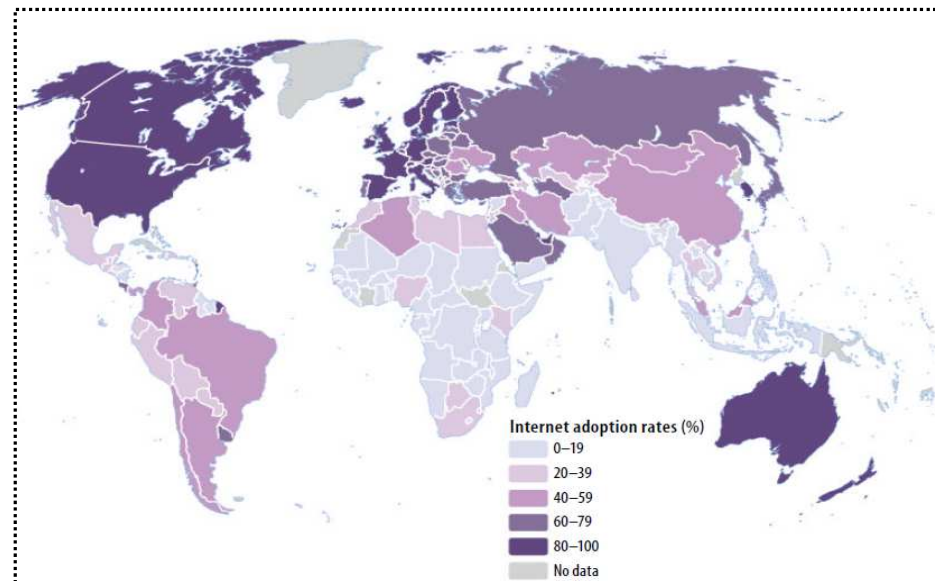
The Widening Digital Divide

Significant North-South Divide

Over 4 billion are without internet access – out of a global population of ~7.4 billion – and many are not even covered by mobile networks

2.5 billion are covered by 3G/4G networks – but don't use the internet – the “usage gap”

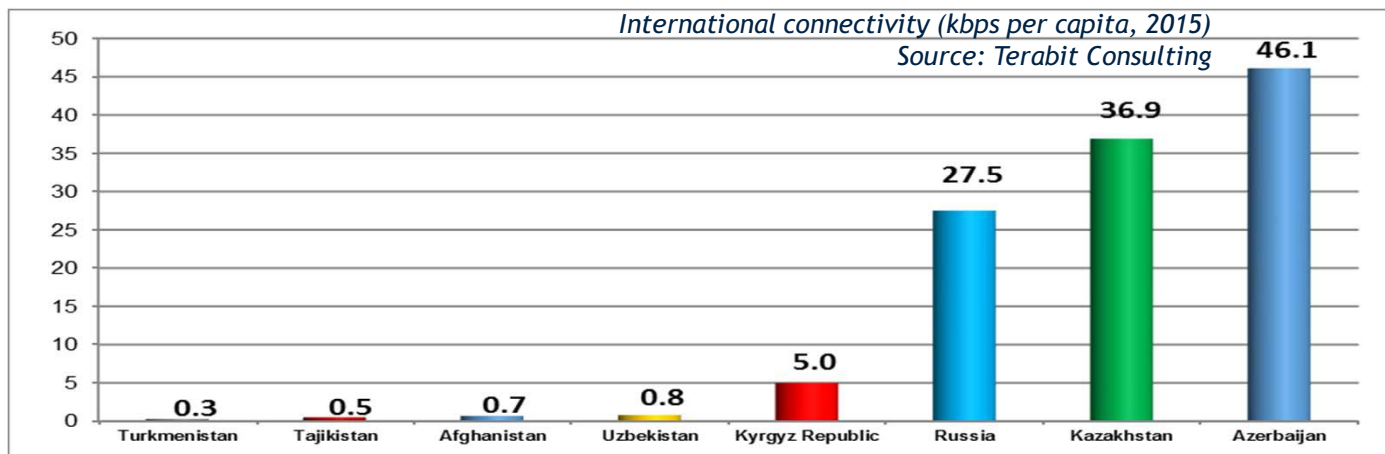
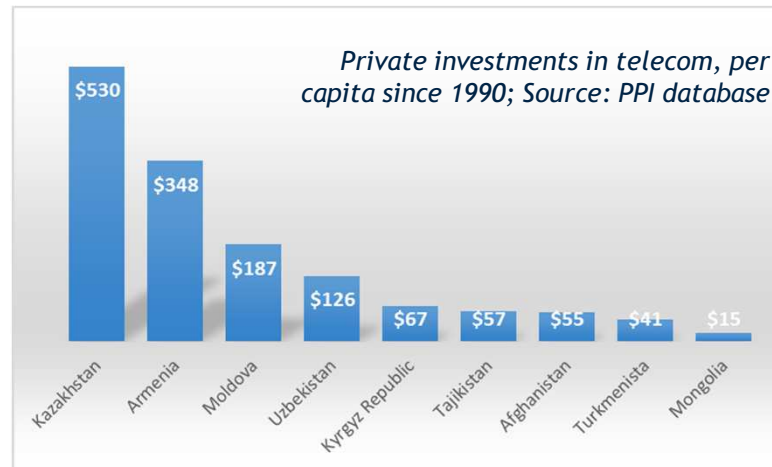
1.6 billion live outside mobile broadband network footprint – the “access gap”



→ The offline population is disproportionately rural, low income, elderly, illiterate, and female

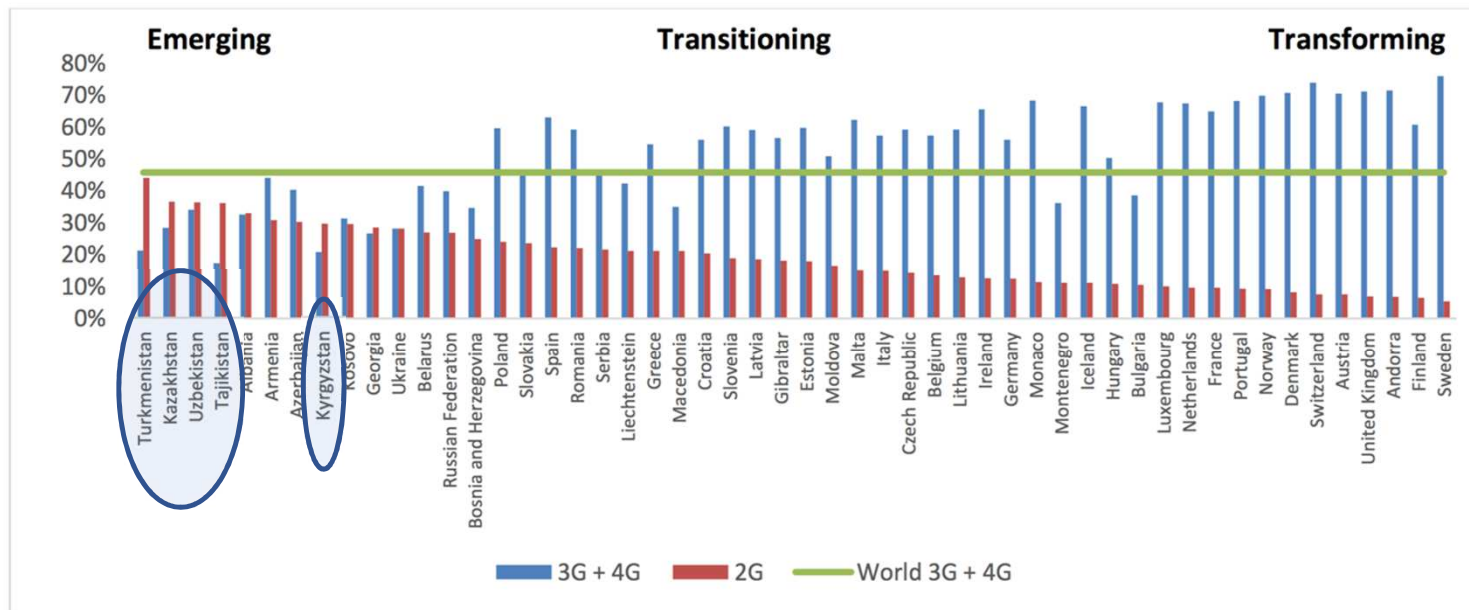
Central and South Asia: Disconnected in the digital age

- Poor quality and expensive internet connectivity
- General reasons:
 - Incomplete policy and regulatory environments
 - Landlocked, global Internet traffic bypassing CA
 - Limited regional integration
 - Limited use of ICT
 - Low level of private investment



3G + 4G Up-Take

➤ Central Asian economies lag behind in comparison to other countries

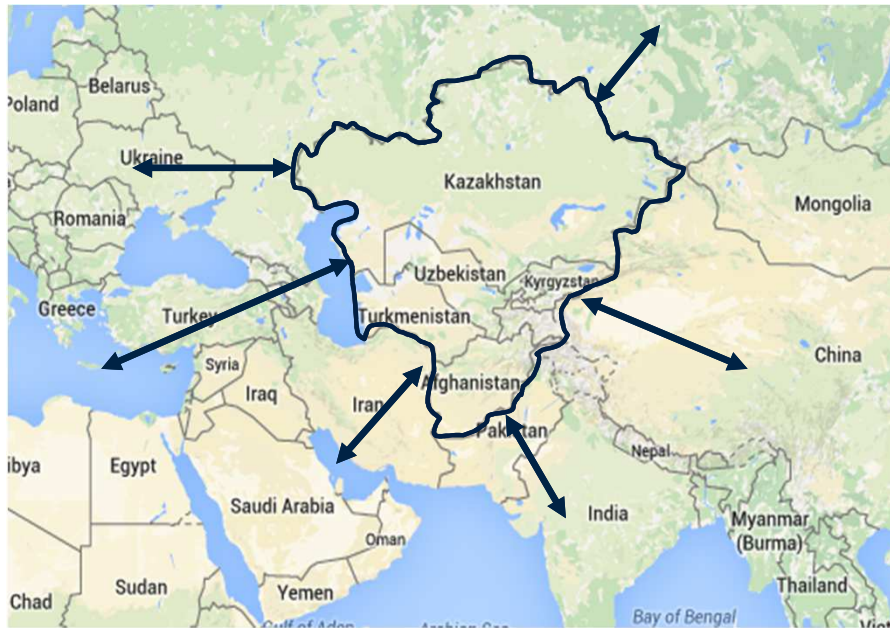


Source: GSMA, Q1, 2016

Lack of Access to Affordable Internet Impacts International Positioning

International Indices (2016) / # Countries	KYR	UZB	KAZ	TJK	TKM	AFG
ITU ICT Development / 175	113	110	52	--	--	164
UN E-Government Development /193	97	80	33	139	140	171
UN E-Participation /193	67	47	67	149	179	104
WEF Networked Readiness /139	95	--	39	114	--	--
ITU Global Cybersecurity (2014) /29	25	24	23	24	26	20
UNCTAD B2C E-Commerce (2015) /137	109	108	88	--	--	130
WEF Enabling Trade /136	113	--	88	114	--	--

Vision for future Europe-to-Asia Data Transit Hub

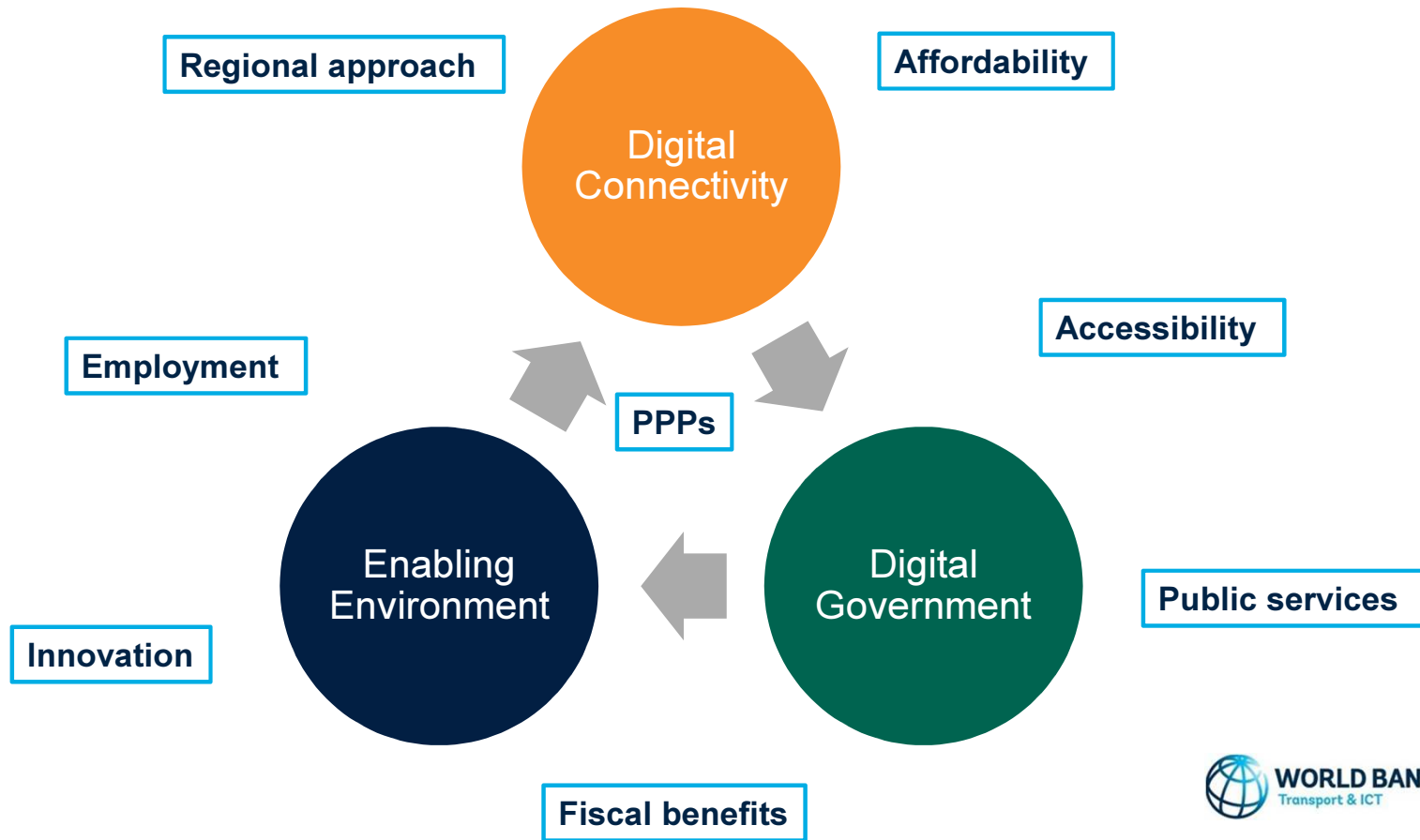


Conditions are ripe:

- Open economy
- Competitive telecom sector
- Eurasian EU
- Links to China, Central and South Asia
- Qualified IT professionals
- Access to cheap green energy
- Strong political will

BUT need to work collectively with regional partners

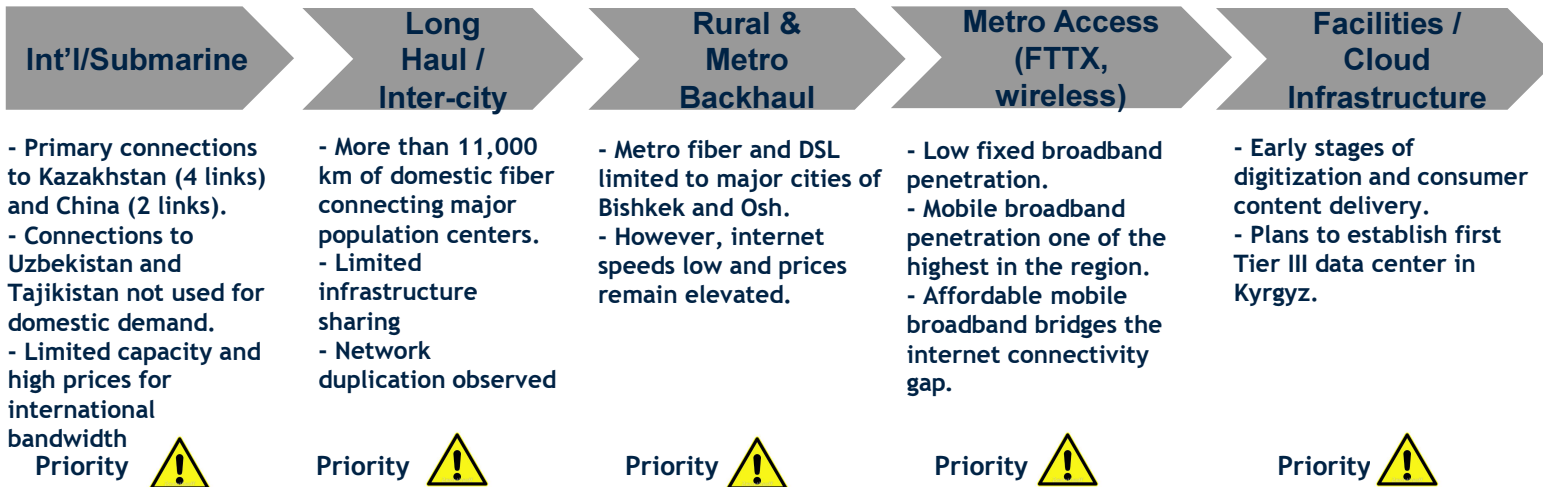
Structure of Proposed Digital Central and South Asia Regional Program



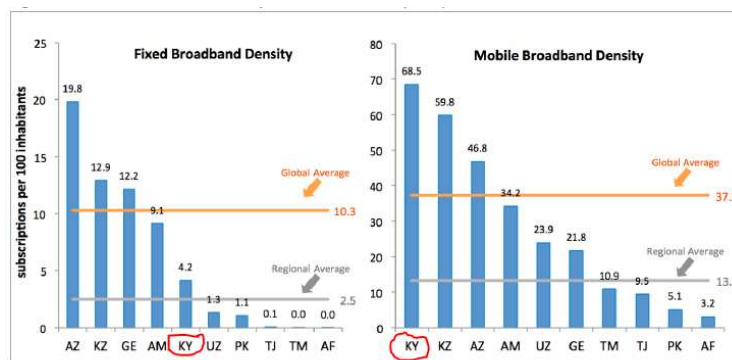
Proposed Digital Central and South Asia Regional Program

- **Digital CASA – Program level Objective:** To increase access to more affordable internet services, improve government's capacity to deliver digital public services and facilitate opportunities for digitally-enabled income generation.
- **First countries to join:** Afghanistan (\$90 mln) and Kyrgyz Republic (\$50 mln). Expected Board dates for both are late 2017/early 2018.
- In Kyrgyz the project has been carefully designed to complement the **Taza Koom Program**.
- We hope more countries decide to join in the interest of entire region.

Country Overview: Kyrgyzz

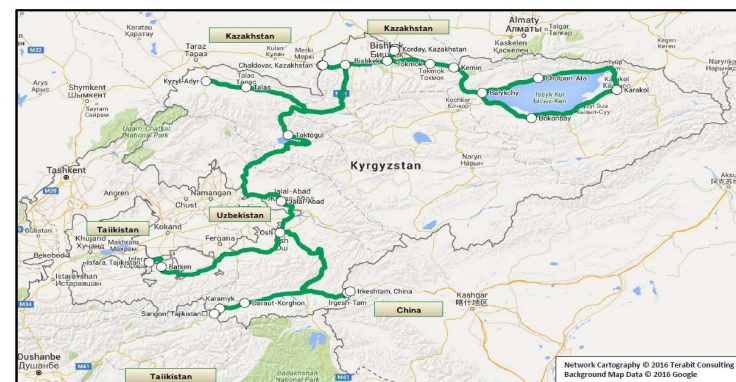


Internet Users



Source: ITU (2015), "World Telecommunication/ICT Indicators Database"

Backbone Network

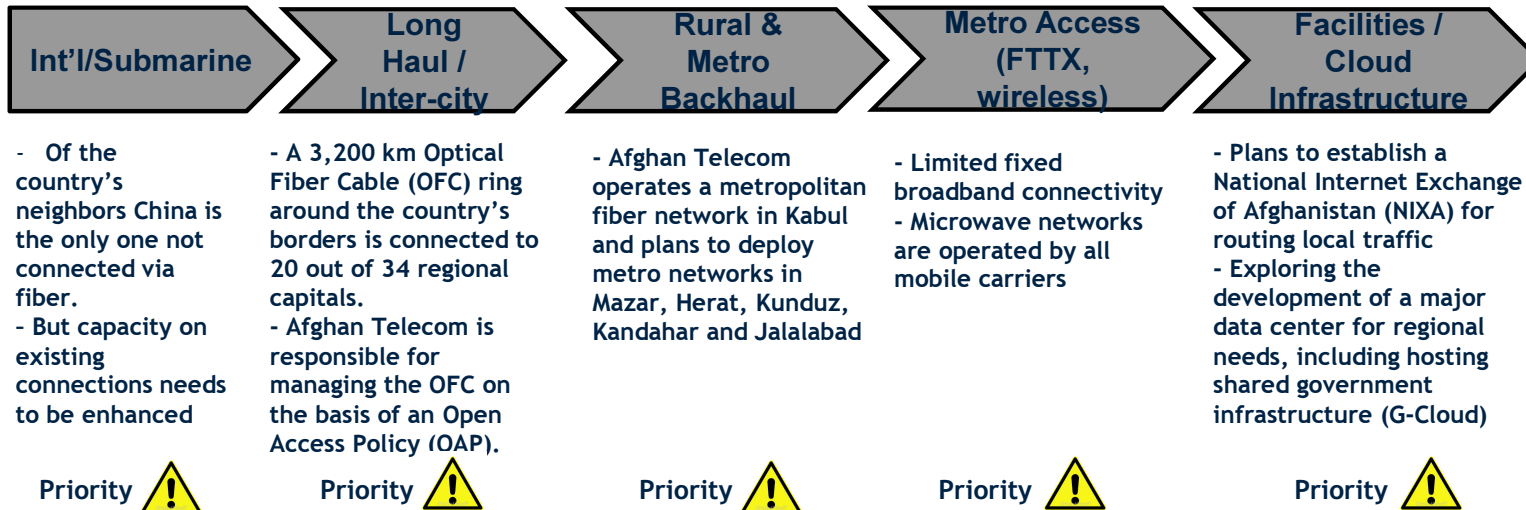


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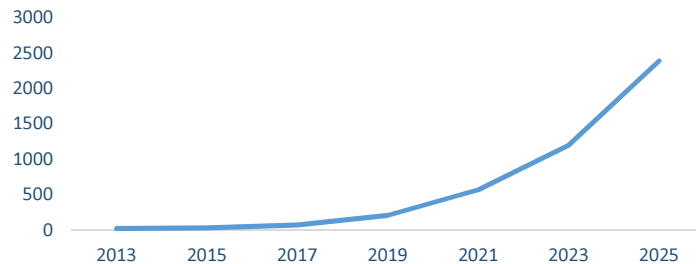
Proposed Project Structure for Kyrgyz Republic

Components		Description	Total project cost
Component 1: Digital Infrastructure	1.1	Completion of regional Backbone consisting of existing fiber optic networks and newly established cross-border fiber-optic nodes and support of regional ISPs (including pre-purchase of int capacity)	
	1.2	Expanding the government data transmission network (Virtual GovNet)	
		Total sub-component 1	\$25.0
Component 2: Digital Platforms and Smart Solutions	2.1	The cloud infrastructure (G-Cloud)	
	2.2	Digital Platforms, Shared Services and "smart solutions"	
		Total sub-component 2	\$14.0
Component 3: Enabling environment for digital economy	3.1	Legal and Regulatory Reform and implementation	
	3.2	Partnerships for ICT Skills Development, Job Creation and Innovation	
		Total sub-component 3	\$6.0
Component 4: Project Management and Digital Leadership development	4.1	Project management	
	4.2	Digital Leadership Development	
		Total sub-component 4	\$5.0
		TOTAL PROJECT COST	\$50.0

Country Overview: Afghanistan

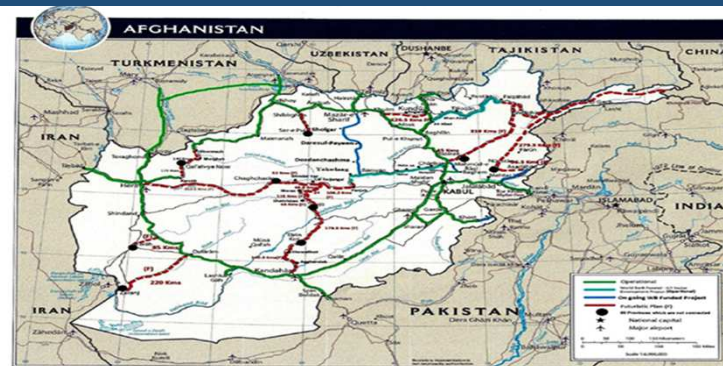


Projected International Bandwidth Requirement (Gbps)



Source: Terabit Consulting.

Backbone Network



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Proposed Project Structure for Afghanistan

Components		Description	Total project cost
Component 1: Digital Infrastructure	1.1	Regional and domestic connectivity infrastructure (including pre-purchase of international bandwidth)	\$45.0
	1.2	Government Network (GovNet)	\$9.0
	1.3	Internet exchange point (IXP)	\$6.0
Total sub-component 1			\$60.0
Component 2: E-government	2.1	Shared eGovernment Infrastructure	\$3.0
	2.2	Digital Platforms, Shared Services and "smart solutions"	\$7.0
Total sub-component 2			\$10.0
Component 3: Enabling Environment / Skills, jobs and Innovation	3.1	Policy, Regulatory and Legal Frameworks	\$3.0
	3.2	ICT Skills Development, Job Creation and Innovation	\$10.0
Total sub-component 3			\$13.0
Component 4: Project Management	4.1	TA for M&E, communications, procurement, FM, environmental and social safeguards, audits and incremental operating costs.	\$5.9
	4.2	Institutional Strengthening and Digital Leadership Capacity Development	\$1.1
Total sub-component 4			\$7.0
Total Project Costs			\$90.0
Front-End Fees			\$0.0
Total Financing Required			\$90.0

THANK YOU!

