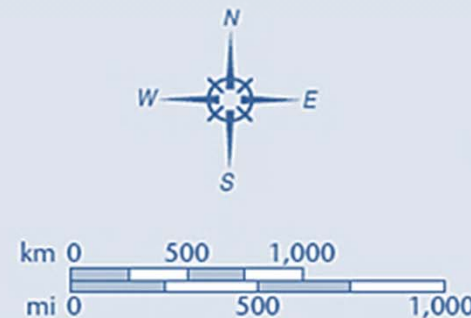


High-level Regional Roundtable on Telecommunications Connectivity in Central Asia

*Exploring practical methods to attract greater
private sector investment in Central Asia
ICT infrastructures, services and business*

Almaty Kazakhstan
2-3 June, 2014



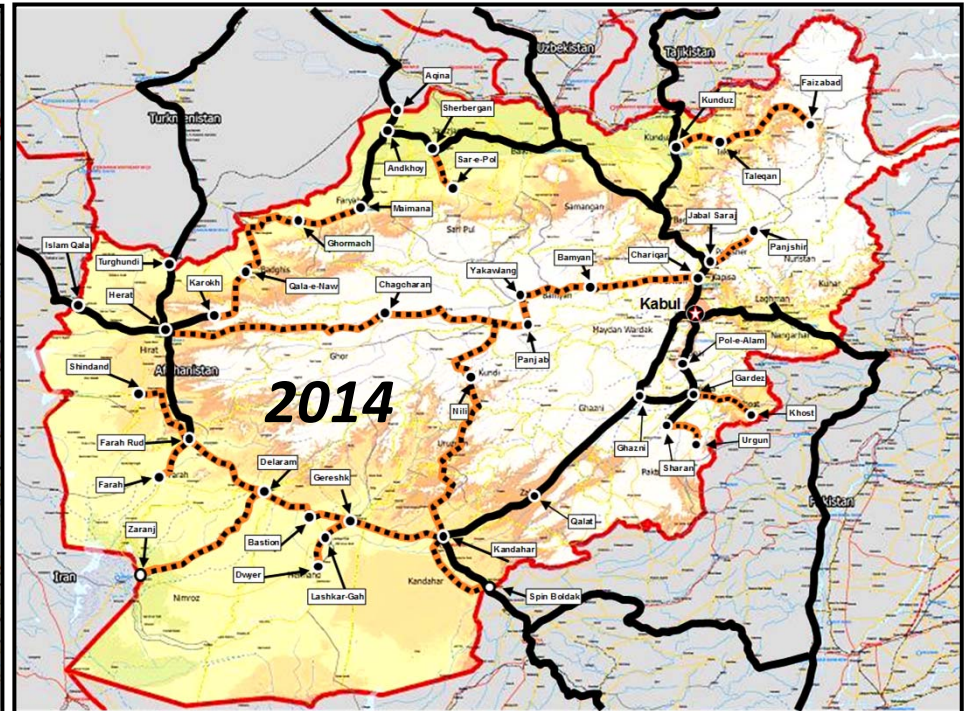
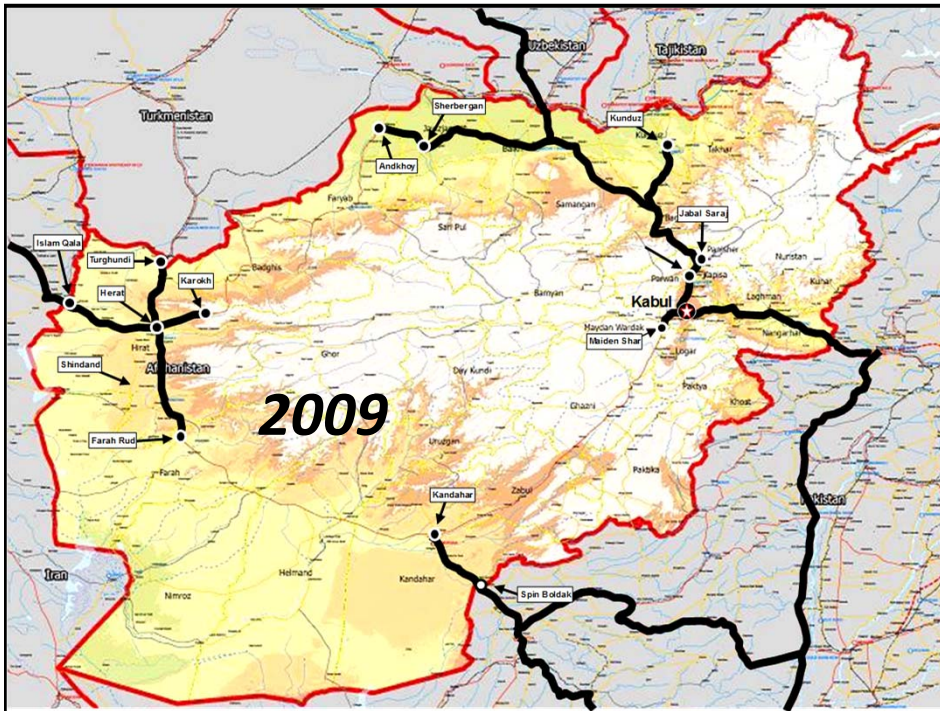
Lewis Shadle
Senior ICT Advisor

Deloitte Consulting LLP
lshadle@deloitte.com

Topics of Discussion:

- **Practical methods to attract greater private sector investments in Central Asian ICT**
- **Collaborative Public-Private-Partnerships approaches that:**
 - Recognizes, rewards and benefits incumbent operators who have already taken significant risks;
 - *But also spurs competition and ICT business opportunities to new entrants in the market*
 - Have statutory and policy support from the public sector participants/beneficiaries
 - Provides broad and pervasive access to new ICT-centric services to consumers;
 - *Access to Government Services as well as a host of new business and social-based services*
- **Addressing financing gaps**
 - In terms of developing institutional, policy and regulatory capacities
 - In terms of developing core infrastructures needed to strengthen connectivity in Central Asia
- **Potential business models/strategies to attract investment and close financing gaps**
 - Public-private initiatives
 - Private sector-led effort, where the public sector focuses on providing the enabling environment:
 - *Providing strategic investments where needed*
 - Public sector focuses on creating the legislative, policy and regulatory environment:
 - *To incentivize and protect long-term capital investment*
- **Open Discussion / Q&A**

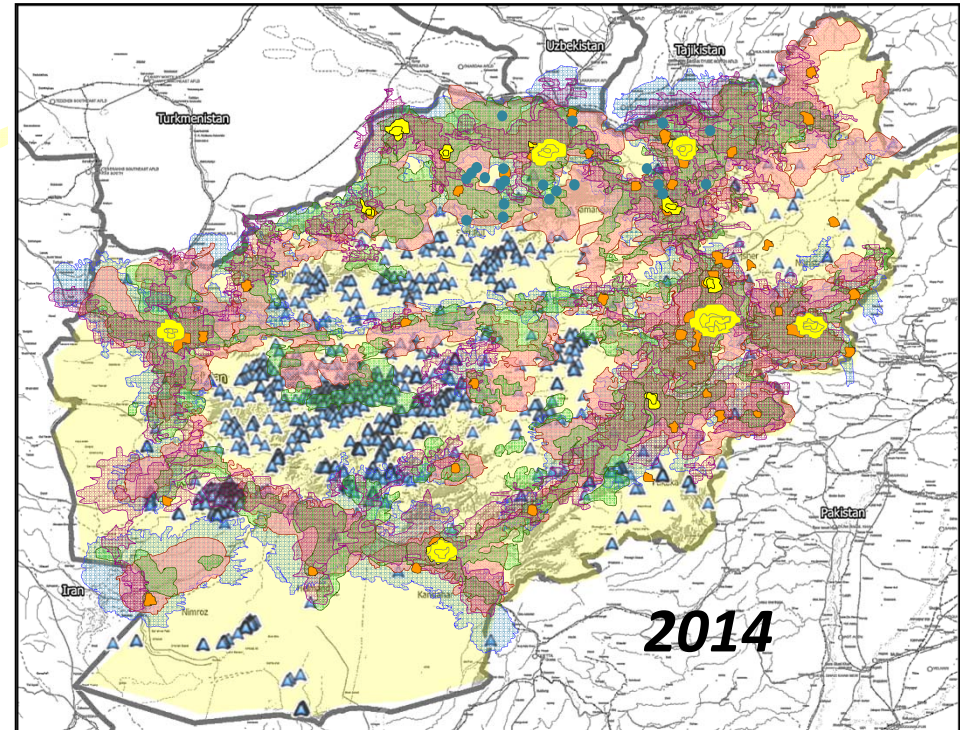
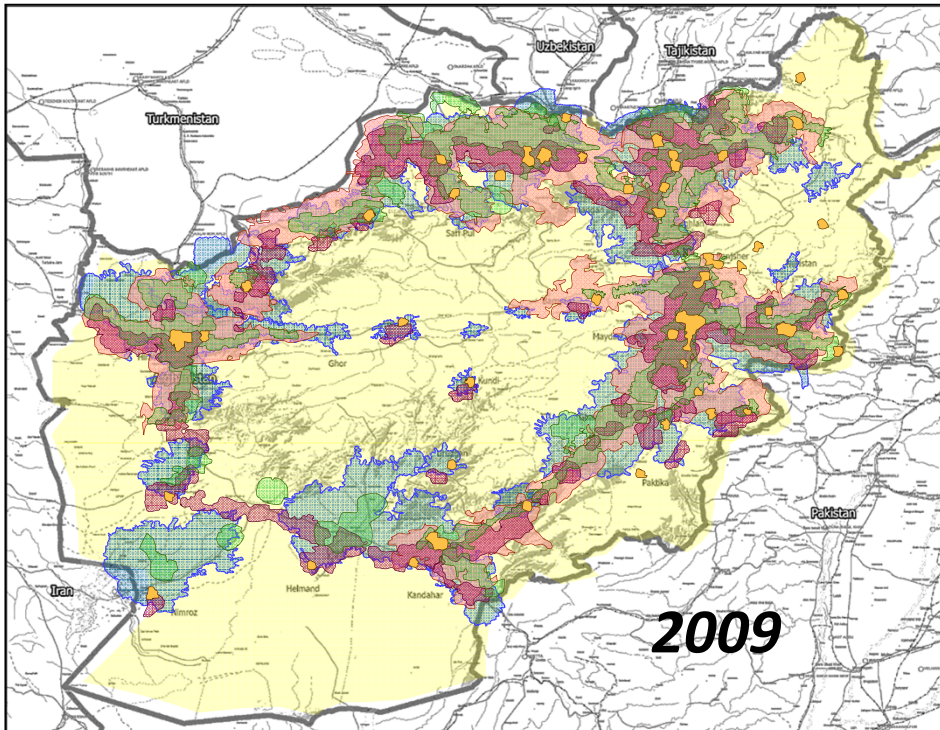
CASE STUDY: Afghanistan National & International Fiber Infrastructure 2009 - 2014



- Afghanistan connected to three neighboring countries via optical fiber network; approximately 1,300 km fiber operational
- A commercial mobile network operator (AWCC) has a national microwave network
- Capacity maximum STM-16
- Commercial and civil use of the OFC generating about \$27M USD/year for AfTel

- Afghanistan is connected to five neighboring countries via optical fiber network; over 5,000 km fiber planned
- A commercial mobile network operator (AWCC) has a national microwave network
- Capacity up to STM-64 in some segments; tender underway for tech refresh; MPLS
- Planning for fiber to the home in six metropolitan areas
- Commercial and civil use of the OFC generates about \$100M USD/year for AfTel

CASE STUDY: Afghanistan National Telephony Infrastructure 2009 - 2014



- Six mobile network operators- 4 GSM (2G), 2 CDMA
- 3,359 operational cellular towers; 12.7M subscribers with 43% penetration; and 74% population coverage
- Village Communications Network (130 VSAT terminals) providing phone service in remote villages
- < 750k internet users estimated in 2009 (80% considered military coalition and international assistance community)

- Six mobile network operators- 5 GSM (2G/3G), 1 CDMA
- > 5,626 operational cellular towers; 21.6M subscribers with 80% penetration; and 90% population coverage
- Village Communications Network (1,222 VSAT terminals) providing phone service in remote villages
- Over 2M internet users in 2013
- 3G service available in 11 provinces; MCIT plans to offer frequencies for 4G soon; MNOs are the primary ISP providers

https://www.yunbaogao.cn/report/index/report?reportId=5_5444

预览已结束，完整报告链接和二维码如下：



7: Iraq National & International Fiber Infrastructure

