

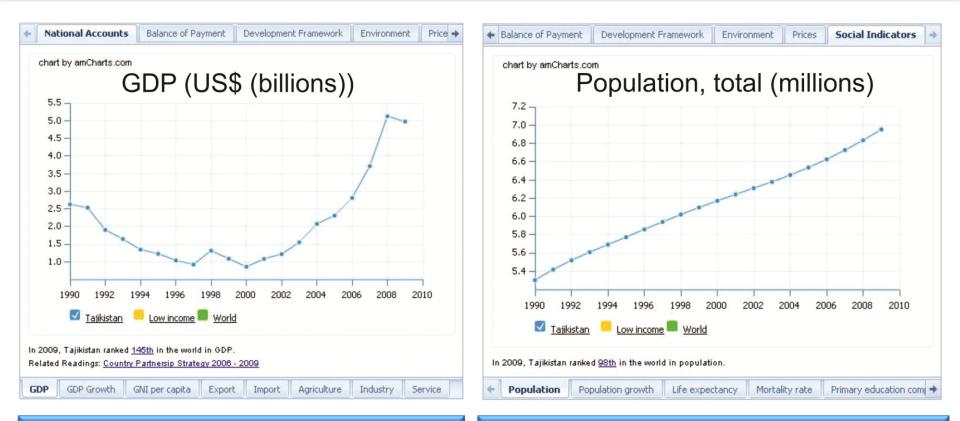
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Institutional Innovative Mechanism in Toll Road Industry Case study – Public Private Partnership (PPP) Dushanbe-Chanak Project, Republic of Tajikistan

Presenter: Mr. Ilkhom Shoev, CPA, MSA, MS Berlin, September 11-14, 2011

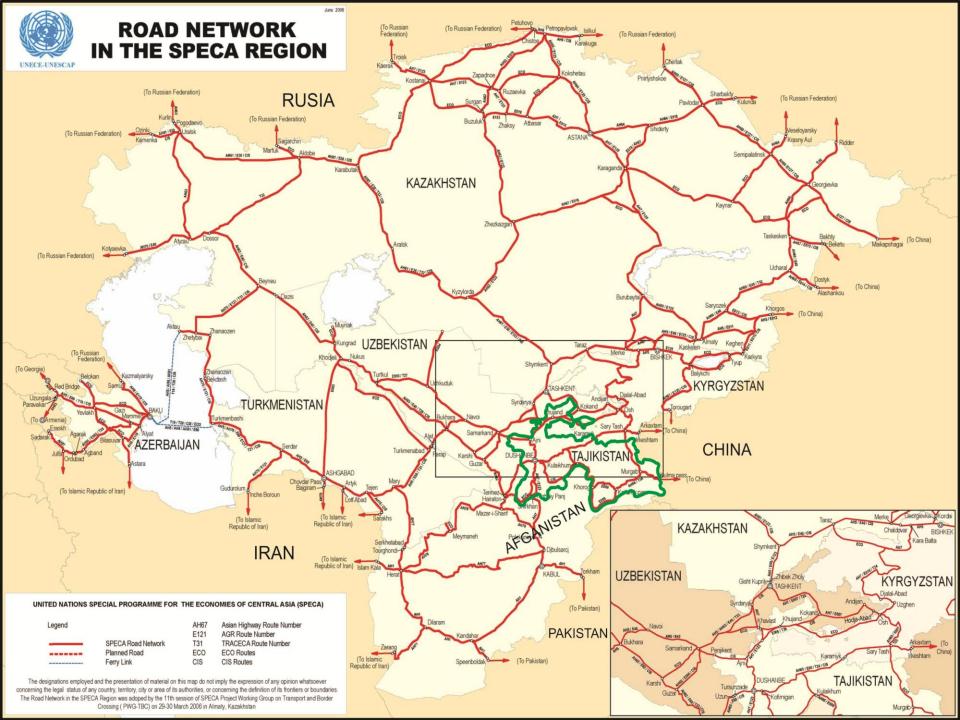
Tajikistan at Glance



Real GDP growth (ave) 8%* Ex. Public Debt, 33% of GDP GDP per ca 700 USD** Territory – 143,100 km2 Topography – 93% mountains Borders – UZ / KG / CN / AF

* 2005-2009 years, ADB, Transport outlook ** 2009 year ,





Infrastructure Network Profile

Road profile *

Network	Km	%
Local roads	8670	62
Republic roads	2120	15
International roads	3178	23
Total Road network:	13968	100

Local transportation

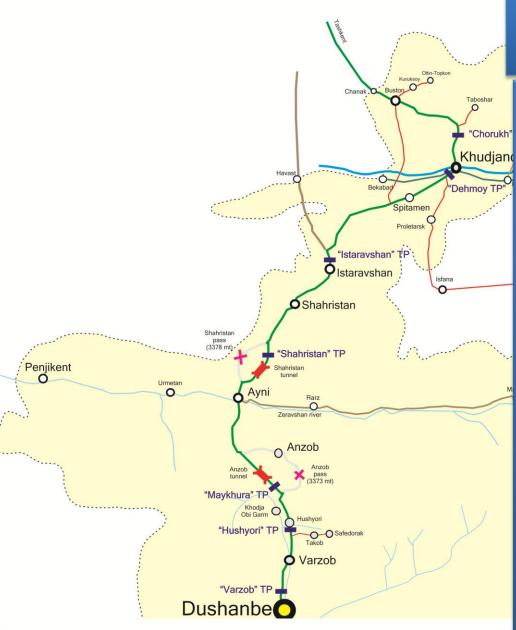
Country Annual Road State Budget – \$8,000,000 which complies with 15% of required amount and equal to \$572 per km.

	Passenger traffic %	Freight traffic %
Road transport	99,8	96,6
Railway transport	0,2	3,4
Air transport	Insignificant	Insignificant

International transportation

	Passenger traffic %	Freight traffic %
Road transport	27	3,5
Railway transport	32	95,9
Air transport	41	0,6

Source : Ministry of Transport of Republic of Tajikistan



Dushanbe-Chanak Toll Road Project

- Length 358.2 km
- Width– 7-11 m
- Category II / III
- Bridges– 58/2447m
- Tunnels 3/11253m
- Galleries 21/3290 m
- Road type open
- Qty of crosses 247
- Population
 - along the road-over 2 mil.
- Altitude range– 247-2700

• Topography – Mountains

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Dushanbe - Chanak Road Before Rehabilitation





INNOVATIVE ROAD

WHY Tolling framework must be introduced in Tajikistan (1)

- Government inability an adequately maintain Road Project given its rehabilitation was externally financed by Chinese Loan \$281 Mln)
- Reducing the financial burden from the state budget towards enhanced demand for current maintenance spending of road infrastructure (i.e. Tunnel, Bridge, Galleries Mountain Roads Force Majore threats)
- Increasing State Budget's savings from current spending towards servicing public debt to China



- Ambitious spending already required to fix the road, utilized 3 years before it was transferred to private concessionaire
- Providing an access throughout a year between capital and north part of the country (currently 6 month limitation due to heavy snowfalls, lack of timely road services)





Primary Goals of Toll Road Framework in Tajikistan (2)

 Attracting private investment through PPP framework in a country with a challenging investment environment (FDI = 5% of GDP)*

 Creating additional job opportunities & increasing their household income for 580 local people

 Introducing an efficient know-how technology in modernized tolling infrastructure

 Creating institutional capacity in road management industry by educating local human capacity

 Maintaining the value of the concessional assets and quality of the road by transforming from unsustainable towards sustainable long term path

 Diminishing costs to road users by shortening travel time (up to 48 hours to 3-5 hours) and distance (from 400 to 348.2 km), providing unmatched comfort, saving thousand lives and money

Setting an Institutional Tolling Framework

- Implementing an open type of tolling system,
- Installing 7 tolling plazas along the road,
- Simplifying all types of vehicles into 4 categories, (I- up to 2 ton, II up to 7 ton, III up to 14 ton, IV over than 14 ton)
- Introducing cash based semi-automatic system of payment at initial stage of the project
- Setting an additional surveillance and monitoring system through fiber system









Creating Regional Road Management System

 Setting 4 ambitious technical bases with 3 regional offices

 Supplying more than 100 units of specialized road maintenance machineries

 Employing local road professionals (engineers, mechanization experts, technical staff, etc (580 people))

 Due to lack of professional services provided by contractors or (sub) in the country on road rehabilitation purposes, concessionaire does all the work i.e., make available use of internal funds and technical capacity

Social Responsibility

 Providing significant discounted fares for local road users by Road
 Operator given government's
 limited resources to compensate
 safety nets to low income
 households

- Campaigning safe driving habits
 via multiple multimedia equipment
 as well as the removal of road
 police throughout the road
- Establishing unmatched customer service (24 / 7)
- Accountability to the public, enhancing transparency through annual reporting



Improving security and collaboration with government to prevent crime etc

Environmental benefits

Average traffic time reduced (from 24 hours to 4 up to 6 hours) Target is 3 hours!

Global challenges (1)

✓ Geographic barriers

✓ Climatic constraints

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Project key challenges (2)

✓ Financial indicators

✓ Socio-economic indicators

Poverty (53%)*

Price +

2010

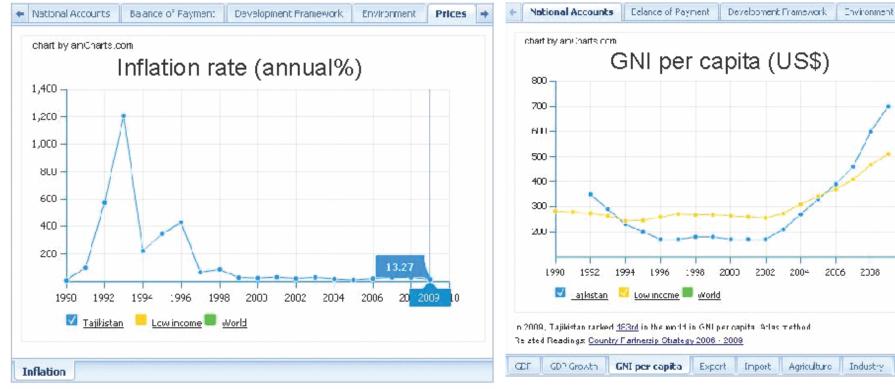
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Fluctuating exchange rate (6.02%)

&

Inflation rate (14.5%)



* 2007, ADB, Tajikistan Transport Outlook

Systematic challenges (1)

Extremely low traffic flows

✓ 70 % of cargo vehicles are old ✓ Overloaded vehicles





Systematic challenges (2)

✓ Legislation
 requires further improvements
 ✓ Operational challenges

 ✓ Initial social protest due to unfamiliarity with the system and local mentality,
 ✓ From transitional to market oriented reforms





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Short Term Project Achievements

 ✓ Higher level of public acceptance (yet with some conservatives) Accelerated road rehabilitation and maintenance process





Short Term Project Achievements

 ✓ Gradually striving towards improving the regulatory framework in toll road system,

✓ Increasing the role of private sector in one of the transitional economies in the region

 ✓ Obtaining consecutively within two years
 recognition awards by one
 of the top ten corporations
 in the world, XCMG: "Best
 Partner in 2010",
 "Innovation of the Year in
 2011"



Company's Strategic Development Plan (SDP) 2010-2015

Modernization and up scaling current toll road system

➢Widening toll plazas to avoid traffic and provide faster services (given limited physical structure of the road)

Development of forecasting system based on the data obtained by surveillance to headquarter

> Building road supporting technical infrastructure (i.e., mobile asphalt and stone crasher plants, specialized vehicles tailored to specifics of this project

Maintaining corporate ethics and social responsibilities

Replicating existing institutional innovative mechanism to other similar projects by executing expansion strategy of SDP 2010-2015 and Business Plan 2009

Tajikistan's solution – tolling is for better future!





Dushanbe - Chanak project presentation

Thank you!

www.irs.tj www.innovativeroadsolutions.com info@innovativeroadsolutions.com

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