



# **CAREC**

## **Transport and Trade Facilitation Strategy Action Plan: Preliminary Draft**

***For information at the***

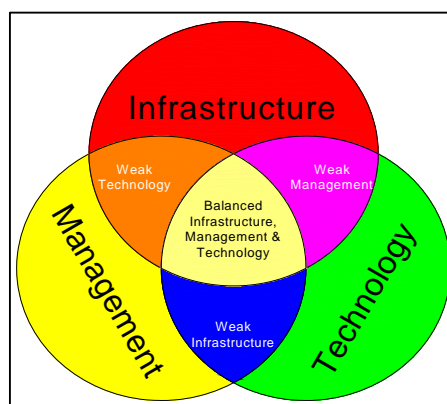
**Senior Officials' Meeting  
on Central Asia Regional Economic Cooperation  
24–25 April 2008  
Baku, Azerbaijan**

This paper has been drafted, based on the preliminary assessment during 1-14 April 2008 of the findings of the second consultations with the CAREC participating countries during February–March 2008. The contents of the paper, thus, will be subject to further reviews and improvements. The views expressed in this paper are the views of the author and do not necessarily reflect the views or policies of the Asian Development Bank (ADB) or its Board of Directors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this draft paper and accepts no responsibility for any consequences of their use. Terminology used may not necessarily be consistent with ADB official terms.

1. The Transport and Trade Facilitation Strategy (TTFS) has evolved based on a series of consultations with the Government officials of CAREC participating countries and stakeholders during 2007. The TTFS including the six CAREC transport and trade corridors was endorsed at the 6<sup>th</sup> CAREC Ministerial Conference held in Dushanbe on 2-3 November 2007.

2. During the last decade, the CAREC participating countries have achieved remarkable economic performance and there has been significantly increased trade. The robust economic and trade performance is expected to continue for the next 10 years. However, the current transport and trade sector will not be able to respond to transport and trade challenges effectively in the future due to the poor condition of infrastructure, high transport costs, and outdated technology and management practices. In order to respond to such challenges, the TTFS has taken a corridor approach to target interventions in the six major corridors, which will optimally serve the CAREC countries, in order to maximize the benefits of the interventions. There has been, however, a growing recognition that a reliable and cost-effective transport and logistics system cannot be achieved only through investments in physical infrastructure. Thus, the TTFS aims at well-balanced development of infrastructure, technology and management for the CAREC transport and trade networks to operate effectively and efficiently as shown below.

### Three Pillars of Successful Corridor Performance



3. The TTFS impact will be inclusive economic development in the CAREC region through pragmatic regional transport and trade facilitation among the CAREC participating countries. To achieve this, an Action Plan (the Action Plan) to implement TTFS has been developed. The Action Plan has three goals: (i) establishment of competitive corridors across the CAREC region; (ii) facilitation of efficient movement across borders; and (iii) development of sustainable, safe, and user-friendly transport and trade networks, based on a balance of infrastructure, management and technology inputs.

4. The Action Plan focuses on the development of the six CAREC corridors that will facilitate transport and trade within and through the CAREC region, and will provide important linkages among the world's dynamic economic markets surrounding the CAREC region:

- (i) Corridor 1: Europe – East Asia;
- (ii) Corridor 2: Mediterranean – East Asia;
- (iii) Corridor 3: Russian Federation – Middle East and South Asia;
- (iv) Corridor 4: Russian Federation – East Asia;
- (v) Corridor 5: East Asia – South Asia; and
- (vi) Corridor 6: Europe – Middle East and South Asia.

5. The Action Plan covers the TTFS goals, constraints, Governments' actions, milestones and indicators, and the projects for 2009-2018. The projects include investment projects and technical assistance (TA) projects. The project list includes information on lead CAREC committee, corridor number, country, project costs and implementation period.

6. A total of 81 investment and 55 TA projects<sup>1</sup> have been identified based on extensive consultations since 2007 to provide the key infrastructure upgrades, technology inputs and managerial improvements, which will lead to effective operation of the transport and trade networks in the CAREC region, covering all transport subsectors and trade facilitation operations.

**Table 1: Summary of Investments and Technical Assistant Projects by Mode**

Amount	Investment Projects			Technical Assistance Projects		
Value (\$ million)	New	Ongoing	Total	New	Ongoing	Total
Roads	5,736.4	9,550.0	15,286.4	7.8	0.0	7.8
Rail	11,947.5	2,553.0	14,500.5	6.3	0.0	6.3
Aviation	569.2	372.5	941.7	14.0	0.5	14.5
Maritime	417.0	0.0	417	2.0	0.0	2.0
Logistics	195.0	100.0	295.0	1.8	0.7	2.6
Trade Facilitation	500.0	0.0	500.0	26.6	0.0	26.6
Regional	0.0	0.0	0.0	4.3	2.5	6.8
Total	19,365.1	12,575.5	31,940.6	62.8	3.7	66.6
Number of Projects						
Road	23	17	40	11	0	11
Rail	23	4	27	10	0	10
Aviation	6	1	7	3	1	4
Maritime	2	0	2	2	0	2
Logistics	3	1	4	3	1	4
Trade Facilitation	1	0	1	18	0	18
Regional	0	0	0	4	2	6
Total	58	23	81	51	4	55

7. For investment projects, about \$32 billion will be required over the next 10 years to develop the corridors, of which over \$12 billion has already been committed. Investment projects are those that the CAREC Governments have already decided to implement and included in investment plans.

8. The TA projects identified for the Action Plan require \$66 million, of which nearly \$4 million has already been committed. The TA projects include feasibility studies leading to investment, technical knowledge transfer, and support for institutional capacity improvement and support to address regional issues.

9. The CAREC participating countries and bi-lateral and multilateral institutions will mainly finance the investment projects, while the Action Plan will also support private sector participation (PSP) in the provision of transport and trade infrastructure and services wherever such opportunities exist.

10. As the corridors evolve, performance of selected corridors will be regularly monitored. A TA project has been developed for this purpose and management support to organizations responsible for transport and trade facilitation in the CAREC participating countries.

11. The preliminary draft Action Plan<sup>2</sup> is shown in Appendix 1. A map showing the six CAREC transport corridors is presented as Appendix 2. Appendix 3 provides maps of the CAREC corridors in each CAREC member along with the investment and TA projects identified for that country. Appendix 4 presents maps of the six CAREC corridors with the projects.

<sup>1</sup> This is the preliminary assessment during 1-14 April 2008 of the findings of the second consultations with the CAREC participating countries during February–March 2008. There are a few projects which still require information from CAREC countries and development partners.

<sup>2</sup> It is drafted, based on the findings of the preliminary assessment during 1-14 April 2008.

APPENDIX 1: CAREC TRANSPORT AND TRADE FACILITATION PRELIMINARY DRAFT ACTION PLAN <sup>a</sup>											
Objectives	Key Constraints	Government Actions	Outcomes	Milestones and Indicators	Projects						
					Lead CAREC Committee	CAREC Corridors	Country	Project Title <sup>b</sup>	Cost (\$million)	Implementation Period	
Goal 1: To establish competitive corridors across the CAREC region											
To develop, manage and maintain selected CAREC corridors that provide connectivity to markets and reduce transport costs.	Limited transit and intra-regional trade.	Create conditions for improved trade and transit.	Improved access from major CAREC cities to/from markets and seaports outside the region.	Road and rail tariffs are significantly reduced to more competitive international levels.	ROAD by Country						
					TSCC	3-b, 6-a, b, c	AFG	IP 1: Bala Murghab-Qaisar	55.3	ongoing to 2009	
					TSCC	3-b, 6	AFG	IP 2: Bala Murghab-Leman	176.0	ongoing to 2009	
					TSCC	3-b, 6-a, b	AFG	IP 3: Harmaz-Leman	30.0	ongoing to 2009	
					TSCC	3-b, 6-a, b	AFG	IP 4: Armalih-Harmaz	10.0	ongoing to 2009	
					TSCC	5, 6-a, b	AFG	IP 5: North-South Corridor	140.9	2008-2012	
					TSCC	3-b, 6-a, b	AFG	IP 6: Road Network I	150.0	2009-2013	
					TSCC	Feed 3-b, 6-a, b	AFG	IP 7: Kandahar-Herat	76.0	ongoing to 2008	
					TSCC	5, 6-c	AFG	IP 8: Polekhumri-Doshi	10.0	ongoing to 2009	
					TSCC	3-b, 6-a, b	AFG	IP 9: Naibabad-Hairatan	70.0	ongoing to 2009	
					TSCC	Feed 5, 6-c	AFG	IP 10: Kandahar-Spin Boldak	12.0	ongoing to 2009	
					TSCC	Feed 5, 6-c	AFG	IP 11: Badakshan AFG Road Improvement	32.8	2008-2010	
	High transport costs and lengthy travel times.	Implement measures to speed up trade and transit.	Reduction in transport costs and travel times.	Average speed on road and rail has increased, and travel times reduced.	TSCC	3-b, 5, 6	AFG	TA 1: Preparing the National Road Network	1.0	2008	
					TSCC	5, 6-c	AFG	TA 2: Salang Tunnel Feasibility Study	0.8	2009	
					TSCC	5, 6-c	AFG	TA 3: Four-laning Kabul-Jalalabad Feasibility Study	0.8	2008	
					TSCC	3, 5, 6	AFG	TA 8: Transport Sector Planning (All Modes)	1.2	2010	
					TSCC	2	AZE	IP 14: East-West Highway Improvement	93.2	ongoing to 2010	
					TSCC	Feed 2	AZE	IP 15: Southern Corridor Improvement (Masalli-Astara)	249.9	2008-2010	
					TSCC	Feed 2	AZE	IP 16: Southern Corridor Improvement (Alyat-Masalli)	300.0	2008-2010	
					TSCC	2	AZE	TA 10: Road Maintenance Project	0.8	2009	
					TSCC	1-c, 2, 5	PRC	IP 19: Xinjiang Regional Road Improvement	535.0	ongoing to 2012	
					TSCC	1-a	PRC	IP 20: New Road from Jinhe To Ala Shankou	70.0	ongoing to 2009	
					TSCC	1-b	PRC	IP 21: Guo Zhi Go and Qin Shui He Sections Lianyungang-Khorgas Expressway	393.0	ongoing to 2010	
					TSCC	1-b, 6-b, c	KAZ	IP 40: Rehabilitation of Western Europe - Western China Corridor	7,500.0	ongoing to 2012	
	The regional transport network is not integrated, and infrastructure has deteriorated.	Target infrastructure investments in CAREC corridors.	Elimination of inadequate or missing links with the corridors upgraded to international standards.	Traffic increases based on reduced travel costs and times.	TSCC	1-a, c	KAZ	IP 41: Rehabilitation of 238 km of Astana-Karaganda road	1,000.0	2009-2011	
					TSCC	3	KAZ	IP 42: Rehabilitation of 104 km Almaty-Kapchagay road	580.0	2009-2011	
					TSCC	1-b	KAZ	IP 43: Rehabilitation of 301 km Almaty-Khorgos road	1,200.0	2008-2010	
					TSCC	2-a	KAZ	IP 44: Rehabilitation of Aktau-Beineu road	500.0	2009-2011	
					TSCC	Feed 6, 2-a, 1-b	KAZ	IP 45: Construction of 500 km Beineu-Shalkar road	625.0	2009-2013	
					TSCC	1-c	KGZ	IP 46: Bishkek-Torughart Road Rehabilitation	20.0	2009-2011	
					TSCC	3-b, 2, 5	KGZ	IP 47: Maintenance of Regional Road Transport Corridors	20.0	2009-2013	
					TSCC	2, 5, 3-b	KGZ	IP 48: Osh-Sary Tash-Irkeshtam Road Rehabilitation Phase I	170.0	ongoing to 2011	
					TSCC	3-b	KGZ	IP 49: Reconstruction of the Kazakh Border-Talas-Suusamyr Road Phase II	10.0	2008-2011	
					TSCC	2, 5	KGZ	IP 50: Osh-Batken-Isfana Road Project	135.0	2010-2013	
					TSCC	3-b, 5	KGZ	IP 51: CAREC Regional Road (Sary Tash-Tajik border)	79.0	2008-2011	
					TSCC	4-a	MON	IP 58: Western Regional Road Development	199.6	2008-2013	
	Insufficient funding for maintenance with limited private sector participation, and high construction costs for rehabilitation and new alignments.	Provide adequate funds for maintenance, prioritize investments, and outsource to private sector.	Corridors are properly maintained, private sector participates in maintenance, and MIs support rehabilitation and new construction.	Reduction in average vehicle operating costs (VOC) and roughness on road corridors varying between IRI 2 and 4; and routine maintenance budgets reach at least \$1,000/km/year with an increasing number of contracts going to the private sector.	TSCC	4-b	MON	IP 59: Rehabilitation of Ulaanbaatar to Russian Border	120.7	2009-2012	
					TSCC	Feed 4-a, b	MON	TA 14: Feasibility Study for the East-West Road	0.65	2010	
					TSCC	3-b, 5	TAJ	IP 66: Dushanbe-Kyrgyz Border Road Rehabilitation Phase II	39.5	ongoing to 2010	
					TSCC	3-b, 5	TAJ	IP 67: Dushanbe-Kyrgyz Border Road Rehabilitation Phase III	20.0	2009-2012	
					TSCC	Feed 5, 6-c	TAJ	IP 68: Shagon-Zigar Road Rehabilitation Phase III	10.0	2011-2013	
					TSCC	5, 6-c	TAJ	IP 69: Construction of Kulyab-Khalaikum Road	60.0	2012-2015	
					TSCC	6-c	TAJ	IP 70: Dushanbe-Khavast	150.0	ongoing to 2012	
					TSCC	5, 6-c	TAJ	IP 71: Dusti-Nizhni Pianj (and to Kurgan Tube)	60.0	ongoing to 2010	
					TSCC	3-b	TAJ	IP 72: Dushanbe-Tursunzade	100.0	2010-2012	
					TSCC	2, 3, 5, 6	TAJ	TA 19: Transport Sector Master Plan (All Modes)	0.8	ongoing 2008	
					TSCC	2, 3, 6	UZB	IP 73: Regional Infrastructure	173.5	2009-2012	
TSCC					Feed 2-a, 6a	UZB	TA 22: Uchkuduk-Kazakh Border Feasibility Study	0.6	2009		
TSCC					Feed 1-b, 3	REG	IP 80: New Almaty-Issyk Kul Road	110.0	2010-2014		
TSCC	All	REG	TA 25: Collaborative Regional Operations and Maintenance of Corridors	0.5	2010-2011						
TSCC	All	REG	TA 46: Equitable Road Maintenance User Charges and Cross Border Fees	1.0	2009-2011						

## A1.2

Objectives	Key Constraints	Government Actions	Outcomes	Milestones and Indicators	Projects						Cost (\$Million)	Implementation Period
					Lead CAREC	CAREC Corridors	Country	Project Title <sup>b</sup>				
To develop, manage and maintain selected CAREC corridors that provide connectivity to markets and reduce transport costs	Limited transit and intra-regional trade.	Create conditions for improved trade and transit.	Improved access from major CAREC cities to/from markets and seaports outside the region.	Road and rail tariffs are significantly reduced to more competitive international levels.	RAIL by Country							
					TSCC	Feed 5, 6-c	AFG	IP 13: Regional Railway Phase I (by mining company)		550.0	2009-2015	
					TSCC	3-b, 6-a, b	AFG	TA 4: Sangam-Herat Rail Feasibility Study		0.6	2009	
					TSCC	3-b, 6-a, b	AFG	TA 5: Termez-Mazar-i-Sharif Rail Feasibility Study		0.6	2010	
					TSCC	5, 6-c	AFG	TA 6: Torkham-Jalalabad Rail Feasibility Study		0.6	2011	
					TSCC	Feed 5, 6-c	AFG	TA 7: Spin Boldak-Khandahar Rail Feasibility Study		0.6	2012	
					TSCC	2	AZE	IP 17: Railway Trade and Transport Facilitation		1,275.0	2008-2011	
					TSCC	1-b	PRC	IP 22: Jinhe-Yining-Khorgas Railway		728.0	ongoing to 2009	
					TSCC	1-a,b	PRC	IP 23: Double Track Urumqi-Ala Shankou		348.0	ongoing to 2013	
					TSCC	1-a,b	PRC	IP 24: Electrification: Urumqi-Ala Shankou		697.0	ongoing to 2013	
	High transport costs and lengthy travel times	Implement measures to speed up trade and transit	Reduction in transport costs and travel times	Average speed on road and rail has increased, and travel times reduced	TSCC	1, 2, 5	PRC	IP 25: Electrification: Anxi-Urumqi Railway Administration border		780.0	ongoing to 2013	
					TSCC	1-c, 2, 5	PRC	IP 26: Double Track and Electrification: Turpan-Kashi		3,253.0	2009-2015	
					TSCC	Feed 1-b, 6	KAZ	IP 29: Construction of Beineu-Jezkazgan Railway (988 km)		2,300.0	2008-2012	
					TSCC	Feed 2-a	KAZ	IP 30: Construction of 135 km Mangyshlak-Bautino		190.0	2008-2011	
					TSCC	Feed 2-a	KAZ	IP 31: Construction of 14 km Erailievo-Kuryk Railroad		61.0	2008-2010	
					TSCC	Feed 1-b, 6	KAZ	IP 32: Electrification of 392 km Makat-Kandagash Section		383.0	2009-2012	
					TSCC	3	KAZ	IP 33: Electrification of 558 km Almaty-Aktogay Section		260.0	2009-2011	
					TSCC	Feed 2-a	KAZ	IP 34: Construction of 130 km Uzen-Turkmen border railroad		158.0	2009-2011	
					TSCC	1-a	KAZ	IP 35: Electrification of 558 km Dostyk-Aktogai		134.3	2009-2011	
					TSCC	1-a	KAZ	IP 36: Electrification of 521 km Aktogai-Mointy		251.2	2009-2011	
	The regional transport network is not integrated, and infrastructure has deteriorated.	Target infrastructure investments in CAREC corridors.	Elimination of inadequate or missing links with the corridors upgraded to international standards.	Traffic increases based on reduced travel costs and times.	TSCC	1-b	KAZ	IP 37: Construction of 270 km Khorgos-Zhetysay Railroad		540.0	2008-2011	
					TSCC	1-c	KGZ	IP 54: Electrification of the Bishkek-Balykchy Railroad		100.0	2015-2018	
					TSCC	1-c, 3-b	KGZ	IP 55: Track Rehabilitation Project, Chaldovar-Balykchy		65.0	2011-2014	
					TSCC	1-c, 3-b	KGZ	IP 56: Equipment Purchase for Wagon Repair/Maintenance Facility		4.0	2011-2012	
					TSCC	1-c, 2, 3-b, 5	KGZ	IP 57: China-Kyrgyz-Uzbekistan Railroad		1,400.0	2014-2020	
					TSCC	4-b	MON	IP 62: Modernization of the Mongolia Railway		188.0	2008-2012	
					TSCC	5, 6-c	TAJ	TA 18: Vahdat-Yavan Rail Feasibility Study		0.6	2009	
					TSCC	2-a, 3-a, 6-b,c	UZB	IP 74: Regional Railway		50.0	2010-2014	
					TSCC	2-a, 3-a, 6	UZB	IP 75: Acquisition of locomotives		25.0	2009-2010	
					TSCC	2-a, 3-a, 6	UZB	IP 76: Electrification of Karshi-Tashguzar Boysun-Kumgurgan		180.0	2014-2017	
	Insufficient funding for maintenance with limited private sector participation, and high construction costs for rehabilitation and new alignments.	Provide adequate funds for maintenance, prioritize investments, and outsource to private sector.	Corridors are properly maintained, private sector participates in maintenance, and MIs support rehabilitation and new construction.	Reduction in average vehicle operating costs (VOC) and roughness on road corridors varying between IRI 2 and 4; and routine maintenance budgets reach at least \$1,000/km/year with an increasing number of contracts going to the private sector.	RAIL by Country							
					TSCC	Other	AFG	IP 12: Rehabilitation of Regional Airports II		40.0	2008-2012	
					TSCC	1, 2, 5	PRC	IP 27: Xinjiang Airport Development		372.5	ongoing to 2015	
					TSCC	1, 3	KAZ	IP 38: Reconstruction of Shymkent, Semei and Kokchetav Airports		182.0	2009-2011	
					TSCC	2, 3	KGZ	IP 52: Rehabilitation of Osh International Airport		37.7	2012-2016	
					TSCC	1-c, 2, 3-b	KGZ	IP 53: Kyrgyz ATC Capacity Enhancement		4.5	2010-2013	
					TSCC	4-a	MON	IP 60: Improvement of Olgiy airport		25.0	2008-2010	
					TSCC	4-b	MON	IP 61: Construction of new airport at Ulaanbataar		280.0	2010-2015	
					TSCC	4	MON	TA 13: Rehabilitation of Regional Airports		0.48	2007-2008	
					Maritime by Country							
To introduce technology improvements favoring an integrated multimodal approach and development of the logistics industry.	Absence of a common and integrated technology platform that is regionally oriented in support of multimodal transport infrastructure development.	Plan and implement a logistics development program that is internationally competitive and based on private sector participation.	Increased number of logistics centers based on an integrated multimodal network as evidenced by increased volume of containers for import, export and transit.	TSCC	2	AZE	IP 18: Acquisition of High Capacity Ferries by Caspian Sea Shipping		69.0	2010-2013		
				TSCC	2	AZE	TA 9: Feasibility Study for New Alyat Port		1.0	2009-2010		
				TSCC	2-a	KAZ	IP 39: Expansion of Aktau Port		348.0	2008-2011		
				Logistics								
				TFCC	1-b	PRC	IP 28: Khorgas Global Logistics Center		100.0	ongoing to 2010		
				TFCC	1-a, b, 4-a	PRC	TA 11: Logistics Development and Capacity Building in Xinjiang		0.7	ongoing to 2008		
				TFCC	4-b	MON	IP 63: Establishment of Altanbulag Free Trade Zone		80.0	2010-2011		
				TFCC	4-a	MON	IP 64: Improvement of Tsagaanur Free Trade Zone		25.0	2010-2011		
				TFCC	4-b	MON	IP 65: Establishment of Zamyn Uud Free Trade Zone		90.0	2009		
				TFCC	4-b	MON	TA 15: Feasibility Study for Ulaanbaatar Logistics Park		0.95	2009-2010		
TFCC	4-a	MON	TA 16: Development Plan for Tsagaanur Free Trade Zone		0.3	2009						
TFCC	4-b	MON	TA 17: Comprehensive Master Plan for Zamyn Uud		0.7	2009						
TFCC	2	REG	TA 38: Feasibility Study for Intermodal Transport PRC-KGZ-UZB		0.6	2008-2009						
TFCC	All	REG	TA 51: Development of Logistics Centers and Rail Intermodal Hubs		3.0	2009-2010						
Trade Facilitation and Border Crossing Points Infrastructure Investments												
TECC	All	REG	IP 81: Border Crossing Point Infrastructure Investment		500.0	2009-2011						





### A1.3

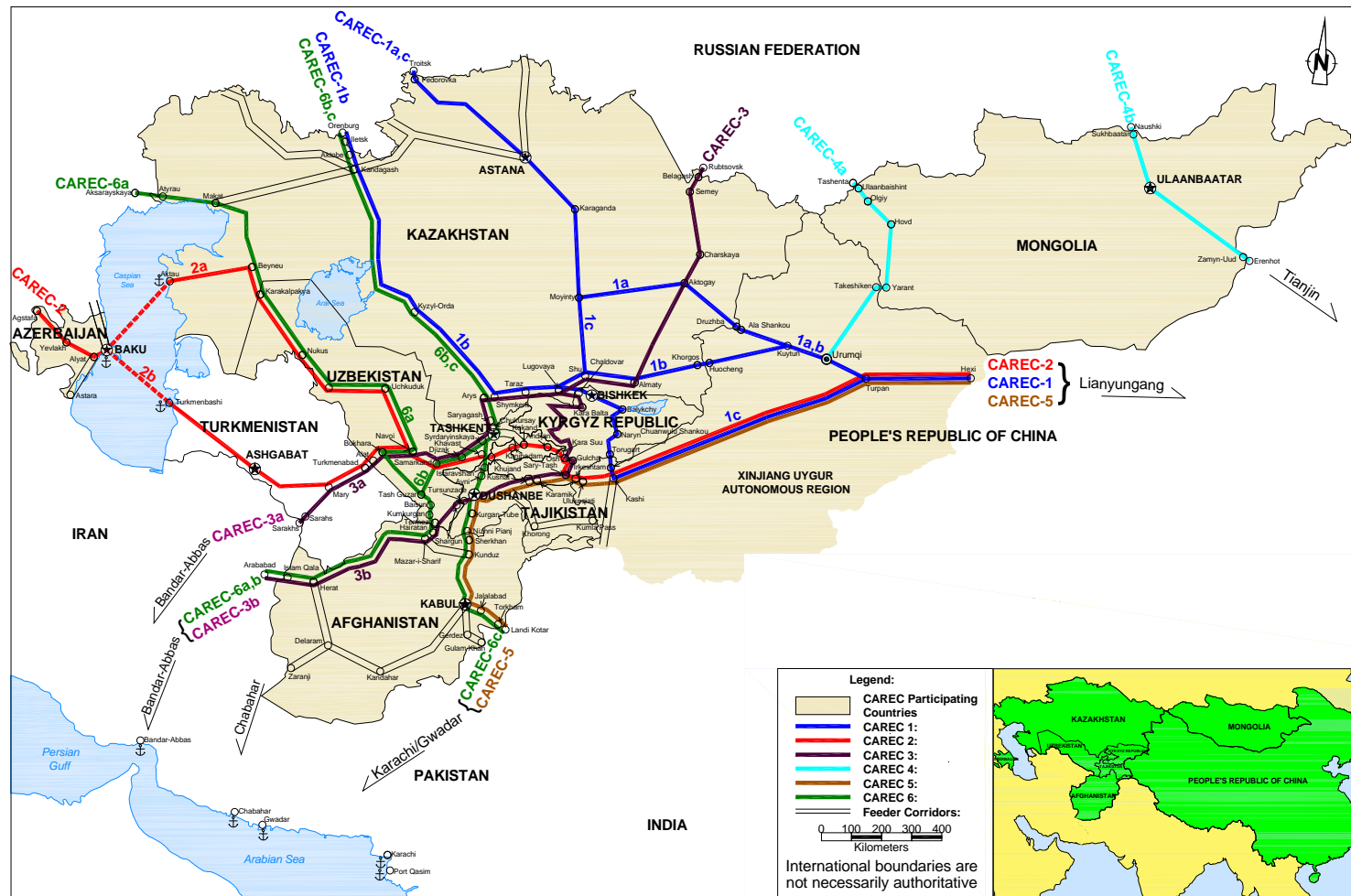
Objectives	Key Constraints	Government Actions	Outcomes	Milestones and Indicators	Projects					Cost (\$million)	Implementation Period
					Lead CAREC	CAREC Corridors	Country	Project Title <sup>b</sup>			
Strategy Goal 2: To facilitate efficient movement through corridors and across borders											
To facilitate border crossing.	Weak procedures.	Coordination among CAREC members.	Simplified and harmonized procedures and documentation.	Processing times and number of documents	TFCC	All	REG	TA 43: Facility and Process Improvements at Border Crossing Points		2.0	2009-2015
	Poor facilities.	Revise laws/regualtions.		Implentation of Harmonization	TS+TFCC	All	REG	TA 54: Strengthening Capabilities of National Certification Agencies		1.0	2009-2010
	Paper-based.	Upgrade technologies.			TFCC	All	REG	TA 55: CAREC Trade Portal		0.6	2009
To develop efficient customs services.	Limited CAREC agreements	Implement agreements	Signed agreements	Implemented agreements	TFCC	1-a, b, 4	PRC	TA 12: Regional Customs Control (PRC-KAZ-MON)		0.4	2008-2009
	Lengthy processing procedures	Accession to Kyoto.	International standards used	Single inspection and time release	TFCC	All	REG	TA 42: Assistance in Implementation of WCO Recommendations for Customs		3.0	2009-2011
	No standardization	CAREC coordination	Agreements	Standard documents	TFCC	All	REG	TA 44: Regional Customs Training and Development		2.0	2009-2012
	Limited data sharing	Training	Automation	Data exchange	TFCC	All	REG	TA 49: Strengthening Customs Guarantee Systems		0.3	2009
To harmonize transport and trade regulations and policies.	Lack of unified regulations	CAREC coordination	International standards used	Standards implemented	TFCC	All	REG	TA 35: Development of Multimodal Transportation along CAREC Corridors		1	2011-2012
					TS+TFCC	All	REG	TA 37: Development of Coordinated National Transport Policies		1.7	2007-2008
	Limited bilateral agreements	Sign agreements	Agreements	Agreements implemented	TSCC	All	REG	TA 45: Establishment of a Third-Party Motor Liability Insurance Regime		0.2	2009
					TSCC	All	REG	TA 47: Implementing International Road Transport Conventions and Agreements		1.0	2010-2011
					TFCC	All	REG	TA 48: Consulting Services for Cross Border Agreements PRC-KGZ-TAJ		0.55	2008-2009
To improve the corridor transport network and services and facilitate multimodalism.	Lack of competition	Remove barriers to competition	Multimodalism	Increased traffic and reduced times	TSCC	All	REG	TA 29: Supporting Management of Cross Border Railway Operations		1.0	2010
	Non-competitive tariffs		Attractive tariffs		TSCC	All	REG	TA 30: Cost Accounting and Tariff Models for Railway Restructuring		0.5	2010-2011
	Lack of regional approaches to operations	NTTFC and coordination among CAREC members.	Rationalized and restructured operations	Increased profitability for transport operators	TSCC	2	REG	TA 31: Needs Assessment of Caspian Shipping Along CAREC Corridors		1.0	2009-2014
					TSCC	All	REG	TA 33: Needs Assessment of Central Asian Civil Aviation		3.0	2010-2011
					TSCC	All	REG	TA 34: Emergency Compliance with ICAO Requirements		6.0	2008-2010
	Outdated services and equipment	Upgrade services and equipment	Improved corridor performance	Increased traffic including transit	TS+TFCC	All	REG	TA 39: Institutional Support for National and Regional Transport and Trade Facilitation		4.0	2009-2016
To support Private Sector	Lack of private sector participation	Enable private sector participation	Increasing role of private sector	Number of companies Share of traffic	TS+TFCC TSCC	All All	REG REG	TA 40: Corridor Performance Monitoring and Reporting TA 41: PSP in Transport and Trade Facilitation TA 50: Financing Renewal of Vehicle Fleets and Equipment		3.0 0.5	2008-2011 2009-2018 2009
Strategy Goal 3: To develop sustainable, safe, and user-friendly transport and trade networks											
Sustainability	Aging vehicle fleet	Adopt EU standards	Standards implemented	Reduced pollution	TSCC	All	REG	TA 23: Common CAREC Vehicle Emission Standards		0.8	2009-2010
	Increasing pollution	Encourage recycling	Increased recycling	Number of businesses	TSCC	All	REG	TA 26: Reducing Environmental Impacts of Vehicles through Recycling Wastes		0.6	2012-2013
	Increasing rate of HIV	Awareness campaigns	Reduced rates	Incidence rate	TS+TFCC	All	REG	TA 36: Mitigating HIV/AIDS/STI, Communicable Diseases and Human Trafficking		1.5	2009-2010
Safety	High road accident rate	Road safety campaigns	Reduced accidents	Road accident rate	TSCC	All	REG	TA 24: Regional Road Corridor Safety Auditing		0.8	2009
	Limited training	Training	Improved air safety	International compliance	TSCC	All	REG	TA 32: Training of CAREC Experts in Aviation Safety		5.0	2009-2011
User-friendly	Lack of regional buses	Enable regional buses	Intercountry buses	Bus services	TSCC	All	REG	TA 27: Developing Inter-country Bus Services		0.5	2013
	Difficult movements for people	Reduce barriers to movement	Increased number of people traveling	Easing of visa restrictions	TS+TFCC	All	REG	TA 52: Facilitating Border Crossing for Drivers, Traders, and Migrant Workers		0.5	2009
Economic development along CAREC corridors	Limited economic development along CARE corridors	Enable private sector participation	Dynamic economic growth along corridors	Number of businesses	TS+TFCC	All	REG	TA 53: Economic Development along CAREC Corridors		0.5	2010-2011

<sup>a</sup> This draft action has been developed during the preliminary assessments during 1-14 April 2008 of the findings of the second consultations with the CAREC participating countries during February–March 2008. There are a few projects which still require information from CAREC countries and development partners.

<sup>b</sup> IP = Investment Project and TA = Technical Assistance.

Source: TA Consultant.

## APPENDIX 2: SIX CAREC TRANSPORT CORRIDORS





## **APPENDIX 3: COUNTRY MAPS WITH PROJECTS**



Figure A.3.1: Afghanistan and CAREC Corridors

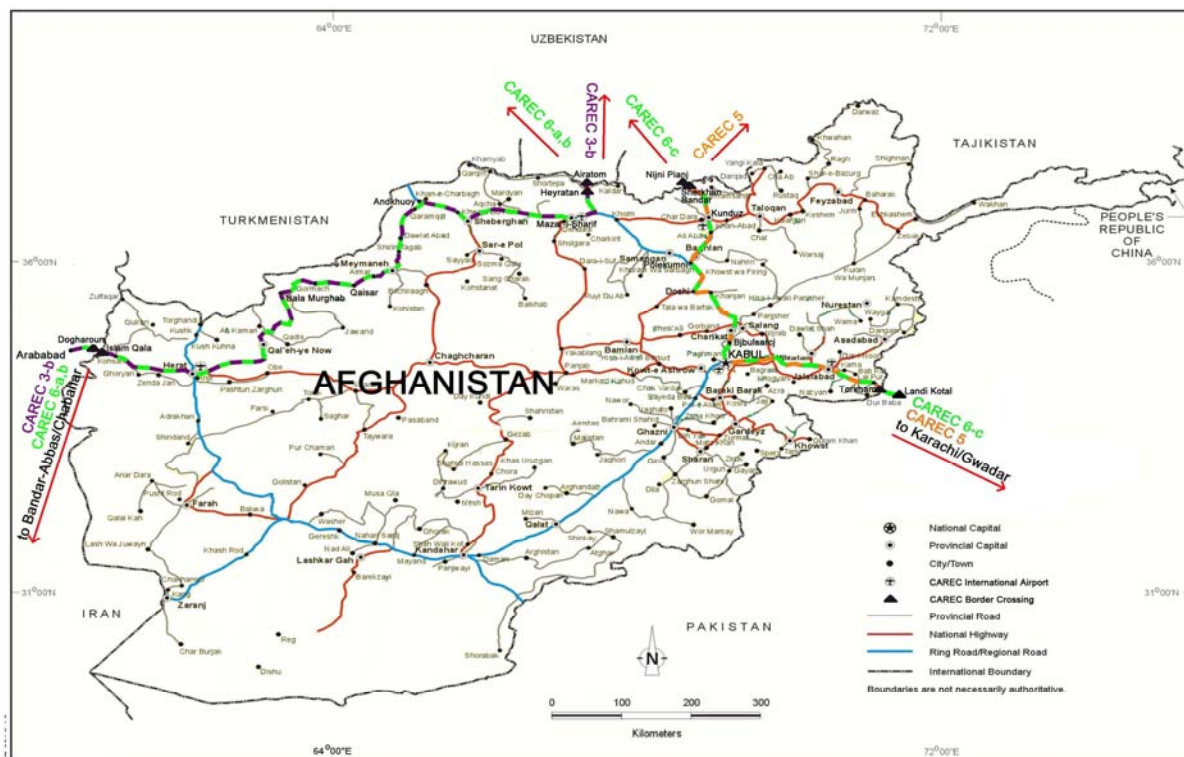


Table 5.5: Afghanistan Projects

Project Type	Project Number	Corridor	Mode	Project Name
I	1	3-b, 6-a, b	Road	Qaisar-Bala Murghab Road
I	2	Feeder 5, 6-c	Road	North-South Corridor
I	3	Other	Aviation	Rehabilitation of Regional Airports II
I	4	3-b, 6-a,b	Road	Road Network I
I	5	3-b, 6-a,b	Road	Qaisar-Andkhuoy
I	6	3-b, 6-a,b	Road	Al Khaman-Bala Murghab
I	7	3-b, 6-a,b	Road	Harmaz-Al Khaman
I	8	3-b, 6-a,b	Road	Armalih-Harmaz
I	9	Feeder 3-b, 6-a, b	Road	Kandahar - Herat
I	10	5, 6-c	Road	Polekhumri-Doshi
I	11	3-b, 6-a,b	Road	Naibabad-Hairathan
I	12	Feeder 5, 6-c	Road	Kandahar-Spin Boldak
TA	1	3-b, 5, 6-a, b, c	Road	Preparing the Road Network III
TA	2	N/A	Road	Road Sector Planning
TA	3	3-b, 6-a,b	Rail	Sangan Herat RR Feasibility Study
TA	4	3-b, 6-a,b	Rail	Termez Mazar-i-Sharif Feasibility Study
TA	5	5, 6-c	Road	Salang Tunnel Expansion Feasibility Study
TA	6	5, 6-c	Road	Four-laning Kabul to Jalalabad Road Feasibility Study

Source: Consultant.

Figure A.3.2: Azerbaijan and CAREC Corridors



Table 5.6: Azerbaijan Projects

Project Type	Project Number	Corridor	Mode	Project Name
I	13	2	Road	East-West Highway Improvement
I	14	Feeder 2	Road	Southern Corridor Improvement
I	15	Feeder 2	Road	Reconstruction of Baku-Astara
I	16	2	Rail	Procurement of Locomotives for ADDY
I	17	2-a, b	Sea	Acquisition of 2 high capacity ferries by Caspian Sea Shipping
I	18	2	Rail	Rehabilitation of Railway Infrastructure
TA	7	2	Sea	Feasibility study for the establishment of a new major international port near Alyat
TA	8	2	Road	Feasibility study on the expansion of the Ganja-Gazakh road
TA	9	2	Road	Road maintenance project: institutional development, capacity building and financing

Source: Consultant.

Figure A.3.3: PRC-XUAR and CAREC Corridors

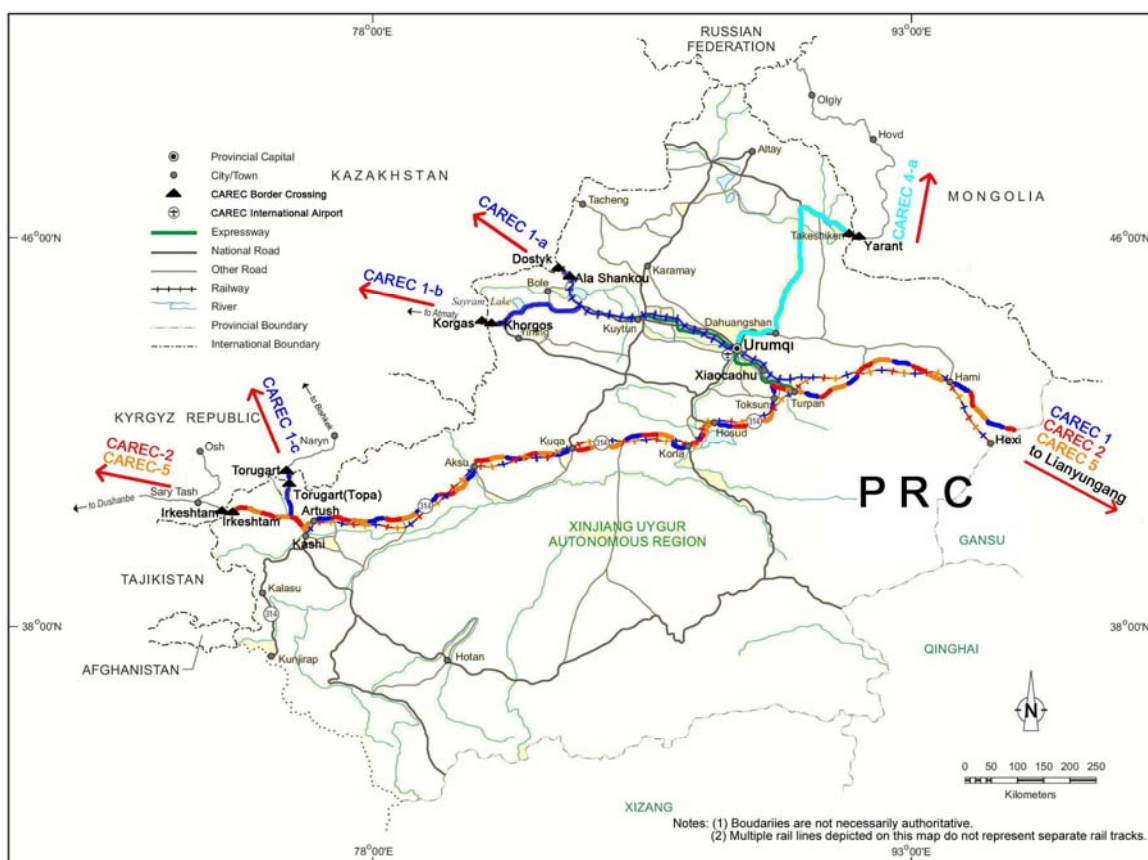


Table 5.7: PRC - XUAR Projects

Project Type	Project Number	Corridor	Mode	Project Name
I	19	1-c, 2, 5	Road	Xinjiang Regional Road Improvement
I	20	1-b	Rail	Jinhe-Yining-Khorgas Railway
I	21	1-a	Rail	Double Track Urumqi-Ala Shankou
I	22	1-a	Rail	Electrification: Urumqi-Ala Shankou
I	23	1-c, 2, 5	Rail	Electrification: Anxi (Urumqi RA border)-Urumqi
I	24	1-c, 2, 5	Rail	Double Track and Electrification: Urumqi-Kashi
I	25	1-a	Road	New Road from Jinhe To Ala Shankou
I	26	1-b	Road	Guo Zhi Go Section Lianyungang-Khorgas Expressway
I	27	1-b	Road	Qin Shui He Section-Lianyungang-Khorgas Expressway
I	79	1, 1-b, c, 2, 5	Aviation	Xinjiang Airport Development
I	28	1-b	Logistics	Khorgas Global Logistics Center
TA	10	1-a, b, 4	Logistics	Preparing the Logistics Development and Capacity Building in Xinjiang

Source: Consultant.

Figure A.3.4: Kazakhstan and CARC Corridors



Table 5.8: Kazakhstan Projects

Project Type	Project Number	Corridor	Mode	Project Name	Project Type	Project Number	Corridor	Mode	Project Name
I	29	1-a	Rail	Increase throughput of Dostyk Station & Dostyk-Aktogay Line to 25 mil ton/yr	I	40	6-b, c	Rail	Construction of 419km Zhezkazgan-Kyzyl-Orda Railroad
I	30	Feeder 6-a, b, c	Rail	Construction of 529 km Beineu-Saksaulskaya	I	41	Feeder 1-b, c, 3	Rail	Construction of 270km Khorgos-Zhetysay Railroad
I	31	6-a	Rail	Construction of 440km Beineu-Shalkar	I	42	Feeder 6-b, c	Rail	Construction of 620km Arkalyk-Shalkar Railroad
I	32	Feeder 3	Rail	Construction of 150km Shar-Ust Kamenogorsk Railroad	I	43	Feeder 1, 6-b, c	Rail	Construction of 188km Arkalyk-Shubarkol Railroad
I	33	Feeder 6-a	Rail	Construction of 135km Mangyshlak-Bautino	I	44	1, 6-b, c	Aviation	Reconstruction of Aktoke, Shymkent, Kostanay, Kyzyl-Orda Airports
I	34	Feeder 6-a	Rail	Construction of 32km Eralivo-Kuryk Railroad	I	45	6-a	Aviation	Construction of passenger & cargo terminal Atyrau Airport
I	35	6-a	Rail	Electrification of 392km Makat-Kandagash	I	46	All	Aviation	Construction of maintenance center for Western aircraft
I	36	3	Rail	Electrification of 558km Almaty-Aktogay	I	47	2-a	Sea	Expansion of Aktau Port
I	37	Feeder 1	Rail	Electrification of 48km Kostanai-Zeleznorudnaya Section	I	48	6-a	Sea	Rehabilitation of Atyrau shipyard
I	38	Feeder 6-b, c	Rail	Electrification of 402km Chrometau-Altynsarin	I	80	2-a, 6-a	Road	Rehabilitation of International and Regional Roads
I	39	Feeder 6-b, c	Rail	Construction of 520km Zhezkazgan-Saksaulskaya Railroad					

Source: Consultant.



Figure A.3.5: Kyrgyz Republic and CAREC Corridors

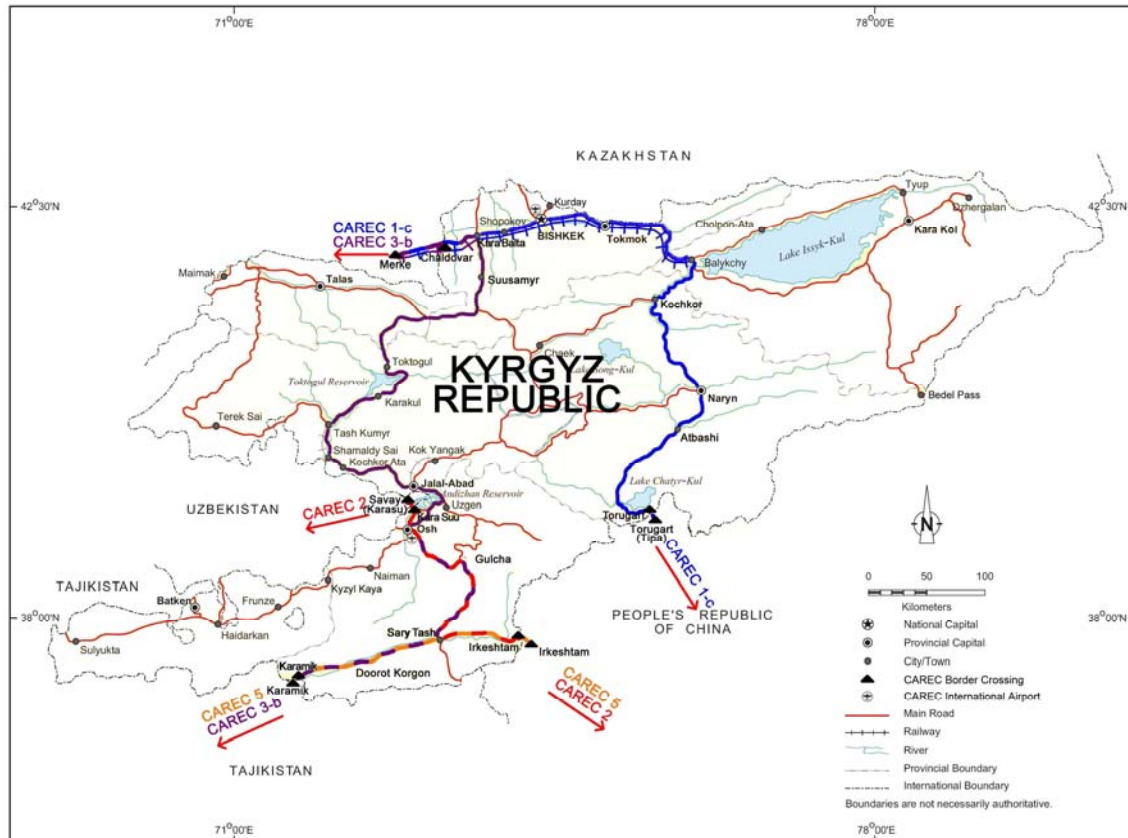


Table 5.9: Kyrgyz Republic Projects

Project Type	Project Number	Corridor	Mode	Project Name
I	49	1-c	Road	Bishkek-Torughart Road Rehabilitation
I	50	1-c, 2, 5	Road	Maintenance of Regional Road Transport Corridors
I	51	2,5	Road	Osh-Sarytash-Irkeshtam Road Rehabilitation Phase I
I	52	3-b	Road	Reconstruction of the Taraz-Talas-Suusamyr Road Phase II
I	53	2, 3b	Aviation	Rehabilitation of Osh International Airport
I	54	1c, 2, 3b	Aviation	Kyrgyz ATC Capacity Enhancement
I	55	1c, 3b	Rail	Electrification of the Bishkek-Balykchy Railroad
I	56	1c, 3b	Rail	Track Rehabilitation Project, Chaldovar-Balykchy
I	57	1c, 3b	Rail	Equipment Purchase for Wagon Repair/Maintenance Facility
I	58	Feeder 1c, 2, 3b, 5	Rail	China-Kyrgyz-Uzbekistan Railroad
I	59	Feeder 2, 5	Road	Osh-Batken-Isfana Road Project

Figure A.3.6: Mongolia and CAREC Corridors



Table 5.10: Mongolia Projects

Project Type	Project Number	Corridor	Mode	Project Name
I	60	4	Road	Western Regional Road Development
I	61	other	Road	Regional Transport
TA	11	4, others	Aviation	Rehabilitation of Regional Domestic Airports

Source: Consultant.



Figure A.3.7: Tajikistan and CAREC Corridors

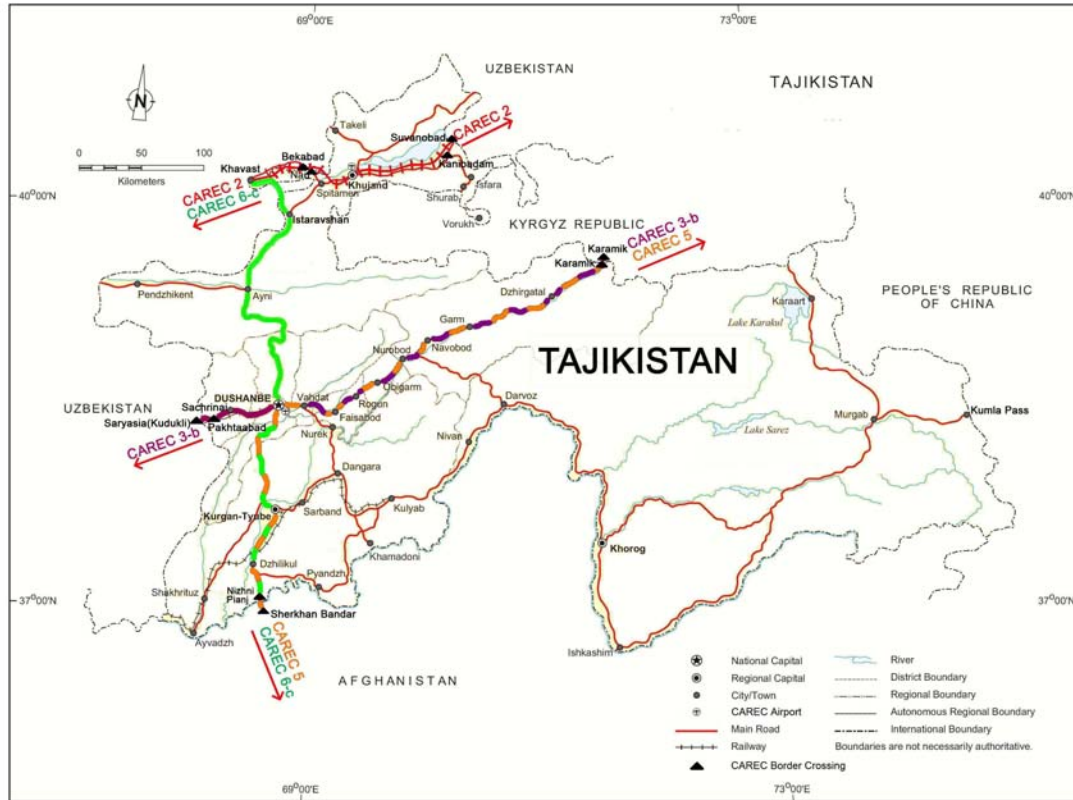


Table 5.11: Tajikistan Projects

Project Type	Project Number	Corridor	Mode	Project Name
I	62	3-b,5	Road	Dushanbe-Kyrgyz Border Road Rehabilitation Phase II
I	63	3-b,5	Road	Dushanbe-Kyrgyz Border Road Rehabilitation Phase III
I	64	Feeder 3-b, 5	Road	Shagon-Zigar Road Rehabilitation Phase III
I	65	Feeder 3-b, 5	Road	Construction of Kulyab-Khalaikum Road
I	66	6-c	Road	Dushanbe-Khavast
I	67	5, 6-c	Road	Dzhilikul-Nijni Pianj
I	68	3-b	Road	Dushanbe-Tursunzade
TA	12	5, 6-c	Rail	Feasibility Study for Dushanbe-Vakhsh Railway
TA	13	Other	All	Transport Sector Master Plan

Source: Consultant.

Figure A.3.8: Uzbekistan and CAREC Corridors

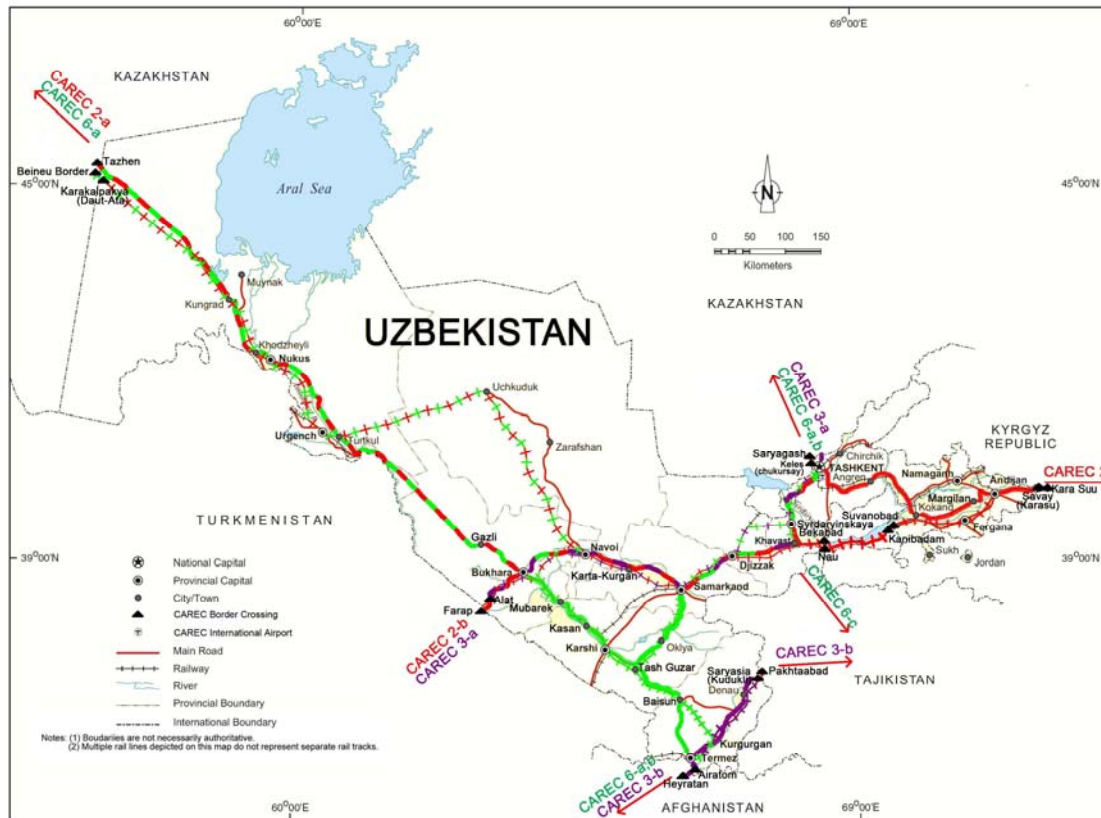


Table 5.12: Uzbekistan Projects

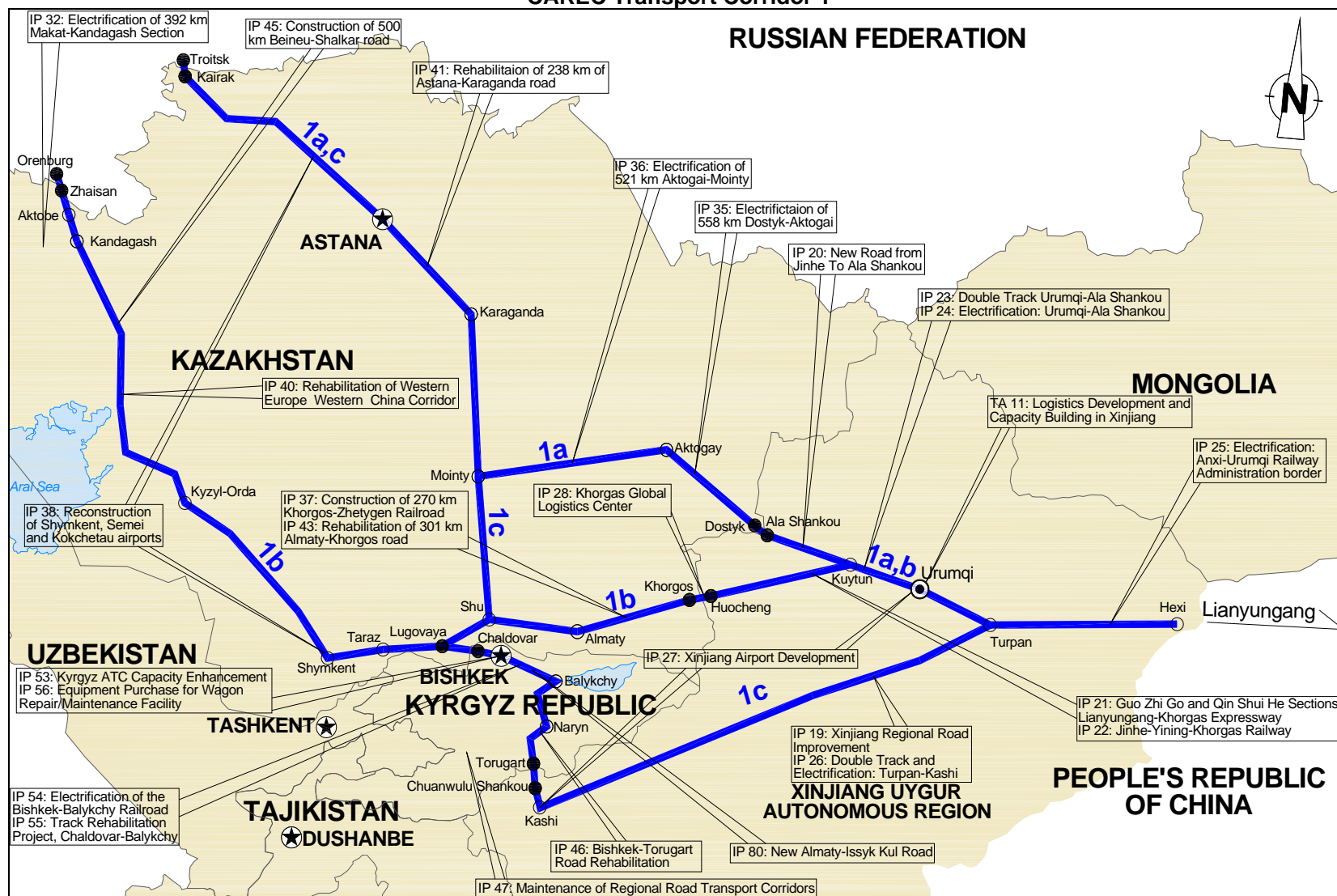
Project Type	Project Number	Corridor	Mode	Project Name
I	70	2-a, 3-a, 6-a	Road	Regional Infrastructure
I	71	2-a, 3-a, 6-a	Rail	Regional Railway
I	72	3-a, 6-b	Aviation	Rehabilitation and Expansion of Tashkent Airport Terminal
I	73	6-a, b, c, 2, 3-a	Rail	Acquisition of locomotives
I	74	N/A	Rail	Electrification of Tashkent-Agren
I	75	6-a, b	Rail	Electrification of Samarkand-Karshi
I	76	2b, 3a	Rail	Electrification of Samarkand-Bukhara
I	77	2a, 6a	Rail	Electrification of Uchkuduk-Nukus-Oasis
I	78	2a, 6a	Road	Road rehabilitation of Nukus-Kazak border
TA	14	2	Rail	Feasibility Study for new railway Agren - Pap in Ferghana valley
TA	15	All	All	Institutional Development Study to establish Ministry of Transport and restructuring of UzA
TA	16	All	Aviation	Feasibility Study for Tashkent airport expansion

Source: Consultant.

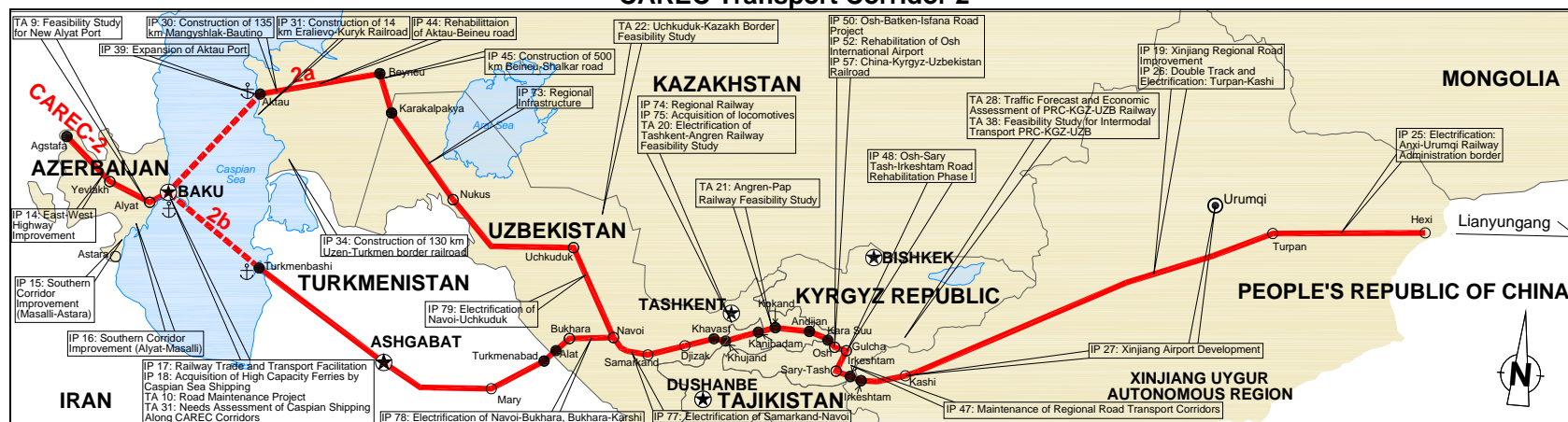


## **APPENDIX 4: CORRIDOR MAPS WITH PROJECTS**

# CAREC Transport Corridor 1



## CAREC Transport Corridor 2



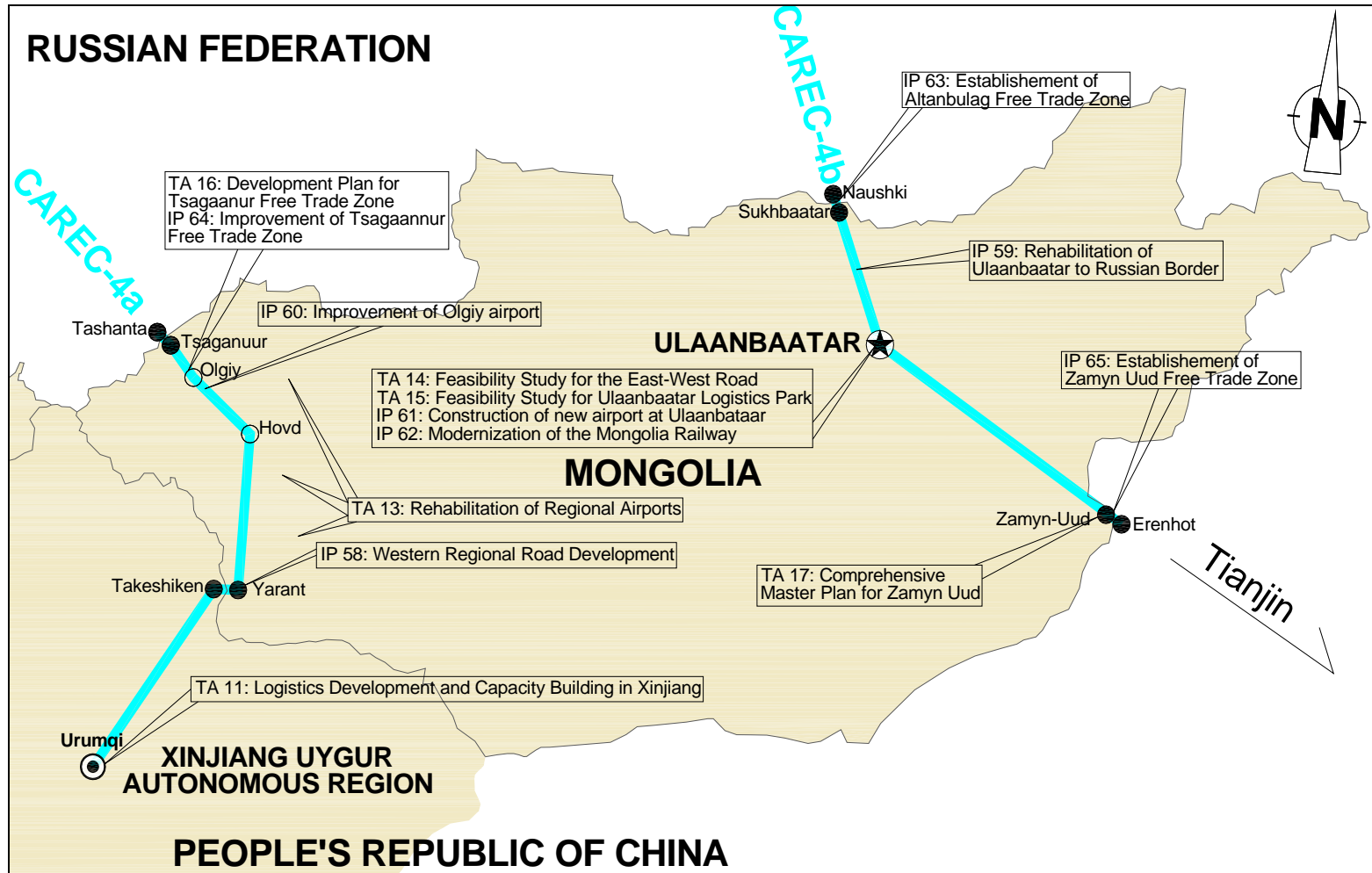
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## CAREC Transport Corridor 3

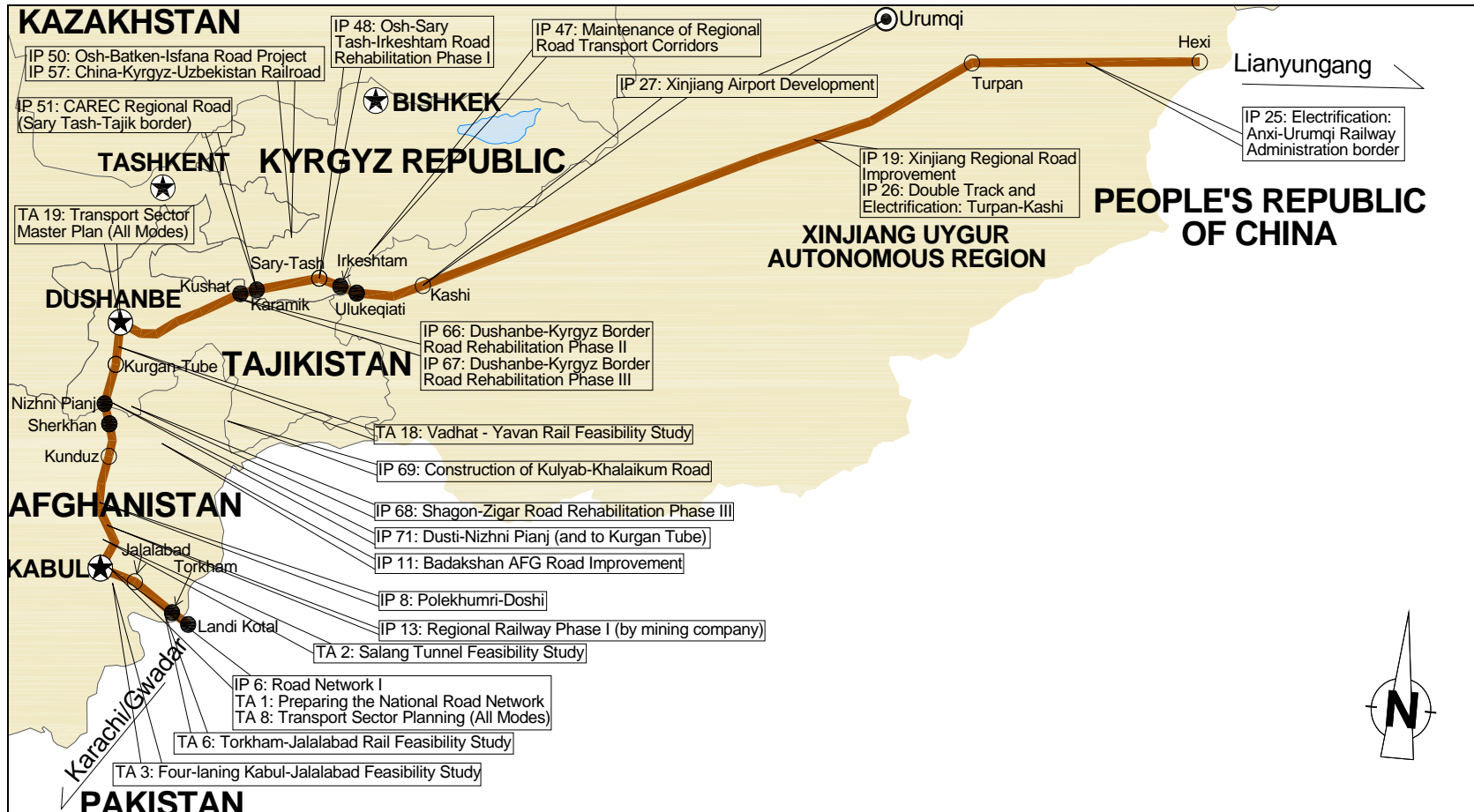




**CAREC Transport Corridor 4**



# CAREC Transport Corridor 5



## RUSSIAN FEDERATION

