CARECCPMM Corridor Performance Measurement and Monitoring

INTEGRATED TRADE FACILITATION IN CAREC: USING CPMM TO SHED LIGHT ON OBSTACLES TO TRADE

An Overview of CPMM, with emphasis on CAREC Corridor 2

Integrated Trade Facilitation 'at the border' and 'behind the border': Reforms and Implementation 11 April 2013, Batumi, Georgia

CAREC Corridor Performance Measurement and Monitoring

CAREC CPMM



Detailed corridor data

CPMM also measures and provides

- statistics, data trends, trade facilitation indicators
- for corridors, sub-corridors and key BCPs
 Trade Facilitation Indicators
- for road and rail transport

30

20

400 200

800

600 400

45

30 15

600 In US\$

In USS

In kph

TFI

TFI2

TFIS

		2010	2011	Q1	Q2	Q 3	Q4	Q1	Q2	Q3
	Overall	17.9	8,5	12.1	21.0	20.8	16.4	12.2	6,9	7.6
	Road	12.7	6.2	3.4	15.4	20.6	9.7	6.4	5.5	6.0
	Rail	24.5	21.2	21.9	23.6	21.2	30.4	24.7	13.6	20.7
~	Overall	158.6	155.9	224.5	159.0	151.2	131.2	104.1	144.7	196 🔩
	Road	174.1	142.9	302.5	209.9	164.2	128.2	90.8	136.0	17 350
	Rail	142.7	235.0	168.7	136.8	135.1	135.9	129.6	198.8	1 300
_									_	C 20
~	Overall	636.6	802.9	836.1	597.9	578.7	571.5	635.8	755.5	
	Road	744.2	909.0	846.4	802.2	707.3	660.6	699.7	928.2	- " "
	Rail	503.0	477.0	813.5	477.8	416.4	444.0	540.4	340.0	2 190 100
_										
	Overall	28.8	25.6	34.9	29.2	28.4	25.8	25.9	24.	50
Ľ	Road	29.5	29.9	45.0	25.9	22.4	24.7	30.2	2	· Q2
	Rail	28.4	21.9	10.1	29.9	31.3	26.6	23.4	1	10
_										8,
SWOD	Overall	39.2	44.6	42.1	37.1	38.2	41.3	42.6	42.8	46.3
	Road	48.6	52.1	54.8	43.5	39.6	53.9	55.0	52.1	52.5
	Rail	33.8	38.0	11.1	35.7	37.5	31.6	35.2	34.6	40.1
		_								
gen	KI:	2010	2011							

Fi1: Time to Cl

12.7 6.5

±0.6

±2.0

±0.6

42.0



±05

+01

+05

IS: SWO IS CY

24.5 14.0

2.0 1.3

8.8 12.0

± 0.7

\$22

±0.7

+ 1.8

Detailed BCP data by activity

On a BCP level, CPMM measures <u>cost and</u> <u>delay factors</u> for the following activities:

- Border Security / Control
- Customs (Single Window)
- Customs Clearance
- Health / Quarantine
- Phytosanitary
- Veterinary Inspection
- Visa/Immigration
- GAI/Traffic Inspection
- Police Checkpoint / Stop
- Transport Inspection
- Weight/Standard Inspection
- Vehicle Registration

- Emergency Repair
- Escort / Convoy
- Loading / Unloading
- Road Toll
- Waiting/ Queue
- Change of Railways Gauge
- Classification of Trains
- Technical Inspection
- Commercial Inspection
- Load Protection
- Security Services

Road BCPs		Duration (hm)																			
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802	Country	Court	Aug.	Notice	Å	8	C	D	Ł	F	6	H	1	J.	ĸ	L	M	N	0	P	Q
1 Ak.25d	N 62	482	- 27	1.6	0.2		0.4	0.2	62	0.1	0.2	0.1	0.1	02	02	0.2			2.0		2.8
Kotthi	KA2	491	3.7	22	0.2		0.4	0.2	62	0.1	0.2	0.2	0.2	0.2	0.2	0.3	3.0	1.0	7.0	0.2	4.2
Jana Jol	6.62	168	2.9	25	0.3		1.1	0.2	0.1	0.1	0.7	0.1	0.4	0.3	0.2	0.2		0.1	1.0	0.5	2.3
Toraget	PRC	168	9.5	4.6	6.3		14	14	02	0.4	0.1	0.4	0.5	0.3	0.4	0.2	8.0		43	9.9	18.0
Trobk	RUS.	162	1.7	0.8	0.3		14	0.2	62	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.4				1.0
Khargan	6.62	161	12.8	12.0	0.3			0.4	02	0.2	0.2	0.2	0.3	0.4	0.2	0.1	0.5		8.4	- 6.4	10.2
Khargan	PRC	158	26.8	16.6	0.3		3.6	14	62	0.2	0.2	0.3	0.4	0.8	84	0.2	4.5		3.5	8.5	21.3
Principyo	11.55	147	2.0	1.6	0.3		14	0.2	02	0.2	0.2	0.1	0.2	0.4	0.2	0.2	0.3			0.1	1.0
Kainak.	1.42	148	1.6	1.2	0.3		1.0	0.2	02	0.2	0.2		0.4	0.3	0.2	0.2	1.0				1.3
Kurgan	11.25	104	0.8	0.3								0.1	0.2	02	0.2		0.4		4.9	213	

CAREC Corridor Performance Measurement

Focus: Corridor 2



Comparison with other Corridors



Speed Indicators (TFI4), 2011



Compared to other corridors, Corridor 2 suffers longer delays but less cost when crossing borders.

Not only at borders, Corridor 2 registered lowest cost during transit along corridor sections.

In terms of speed, Corridor 2 experienced faster SWD and SWOD, higher than the overall average, compared to other corridors.

Trade Facilitation Indicators (TFIs)

		Over	all	Roa	d	Rail		
	Indicator	2010	2011	2010	2011	2010	2011	
TFI1	Time to Clear a Border Crossing Point, in hours	8.7	7.9↓	6.3	6.2↓	22.1	22.3-	
TFI2	Cost Incurred at Border Crossing Clearance, in US\$	186	156↓	192	148↓	160	223↑	
TFI3	Cost Incurred to Travel a Corridor Section, in US\$, per 500km per 20 ton	712	959 <mark>↑</mark>	758	1,055 <mark>↑</mark>	571	503↓	
TFI4	Speed to Travel on CAREC Corridors, in kph (SWD)	23.5	21.9↓	24.4	24.5	22.3	17.7↓	
SWOD	Speed without Delay, in kph	35.2	38.0↑	41.0	43.0↑	27.2	30.1 ↑	
		the second	and the second	A 44				
	Corridor 2							
TFI1	Time to Clear a Border Crossing Point, in hours	6.5	8.6 个	6.5	8.6 个	2.0	5.0 个	
TFI2	Cost Incurred at Border Crossing Clearance, in US\$	216	142↓	215.9	141.7↓	213.6	-	
TFI3	Cost Incurred to Travel a Corridor Section, in US\$, per 500km per 20 ton	607	679 ↑	595.3	679.3 个	906.7	664.7↓	
TFI4	Speed to Travel on CAREC Corridor 2, in kph (SWD)	26.1	22.7↓	25.5	22.5↓	31.3	24.9	
SWOD	Speed without Delay, in kph	40.4	40.0	40.9	40.4	35.4	36.1	

Border Crossing Delays and Cost



Road Transport



Speed Indicators (TFI4), 2011



In road transport alone, Corridor 2 suffers the longest delays and only below average cost during border crossing.

However, transit cost remained the lowest.

Corridor 2 speeds registered below average in both SWD and SWOD.

MONGOLIA

Rail Transport



TFI3 Cost Incurred to travel a corridor section, per 500km



Speed Indicators (TFI4), 2011



Due to insufficient data, no rail border crossing cost was recorded for Corridor 2. However, delay duration is way below average compared to other corridors.

But cost incurred during transit are the highest for rail transport.

In terms of speed, Corridor 2 fared better than other corridors.

Time/Cost-Distance (TCD) Methodology

TCD from Baku (AZE) – Bishkek (KGZ)



These TCD samples are collected on a monthly basis from selected CFCFA member associations since 2009

Time/Cost-Distance (TCD) Methodology

TCD from Chirchik (UZB) – Poti (GEO)



These TCD samples are collected on a monthly basis from selected CFCFA member associations since 2009

Variation in Sample



The Coefficient of Variation (CV) measures the uncertainty in the speed estimates, and lower values are preferred which means delivery time is consistent.

The quadrants provide the relative efficiency of corridors in terms of SWD.

Policy Implications



CPMM revalidation with TRS



Time Release Studies (TRS) measure the average time taken to release cargoes for each step/intervention in a border procedure

However, initial stages of TRS require sufficient knowledge on location and scope of study which CPMM can supply to efficiently utilize funds and resources

Thank You!

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11

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