



## Second Meeting of the Railway Working Group

18-19 April 2016 • Bangkok, Thailand

Второе заседание Рабочей группы по железнодорожному транспорту

18-19 апреля 2016 г. • Бангкок, Таиланд

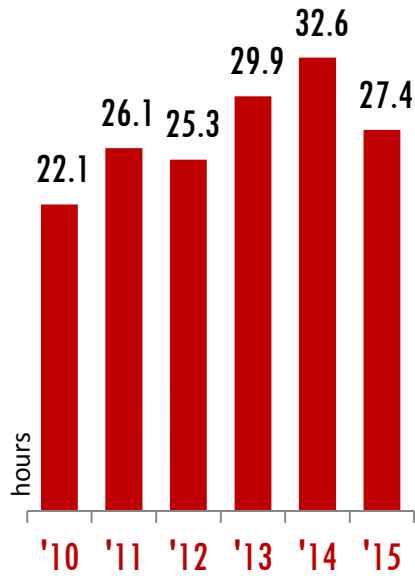
# CAREC CPMM

## Corridor Performance Measurement and Monitoring

Monitoring of CAREC corridors – lessons  
for cross-border transport improvement

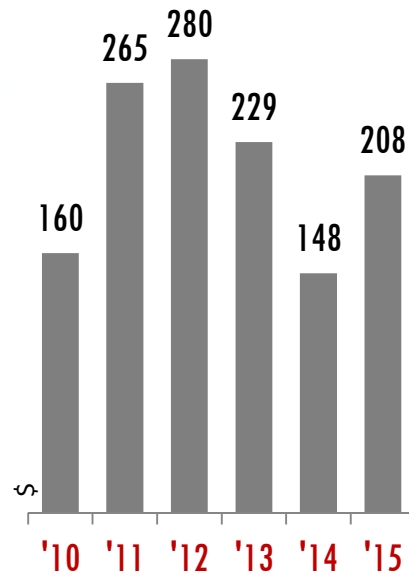
# TFI Trends 2010-2015

## Rail Transport



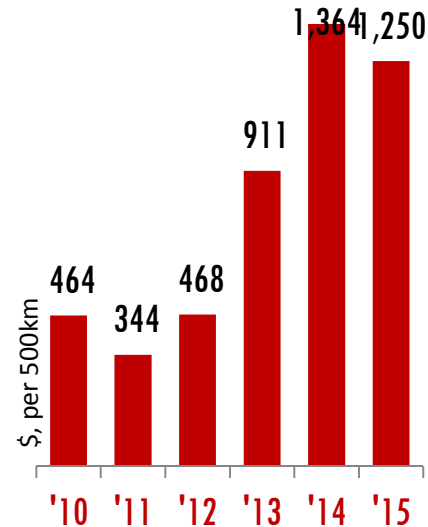
**TFI1**

Time to Clear a BCP



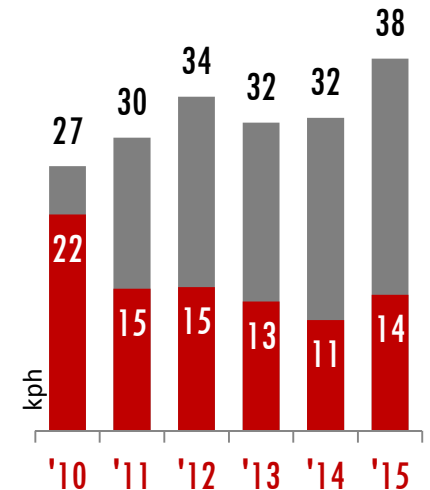
**TFI2**

Cost Incurred at BCP



**TFI3**

Cost Incurred to Travel a  
Corridor Section



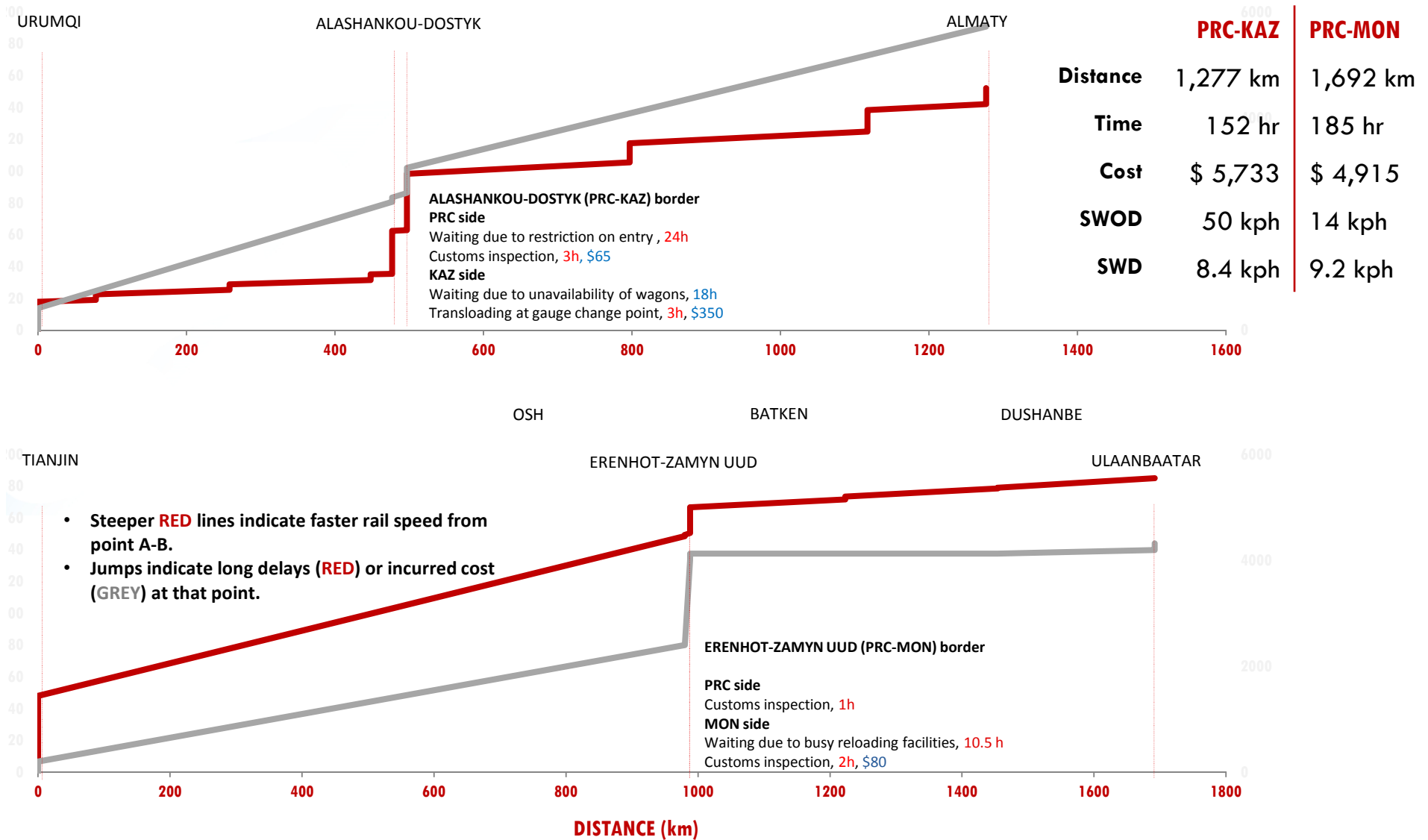
**TFI4**

Speed to Travel on CAREC  
Corridors (SWD)

# Time/Cost-Distance (TCD) Methodology



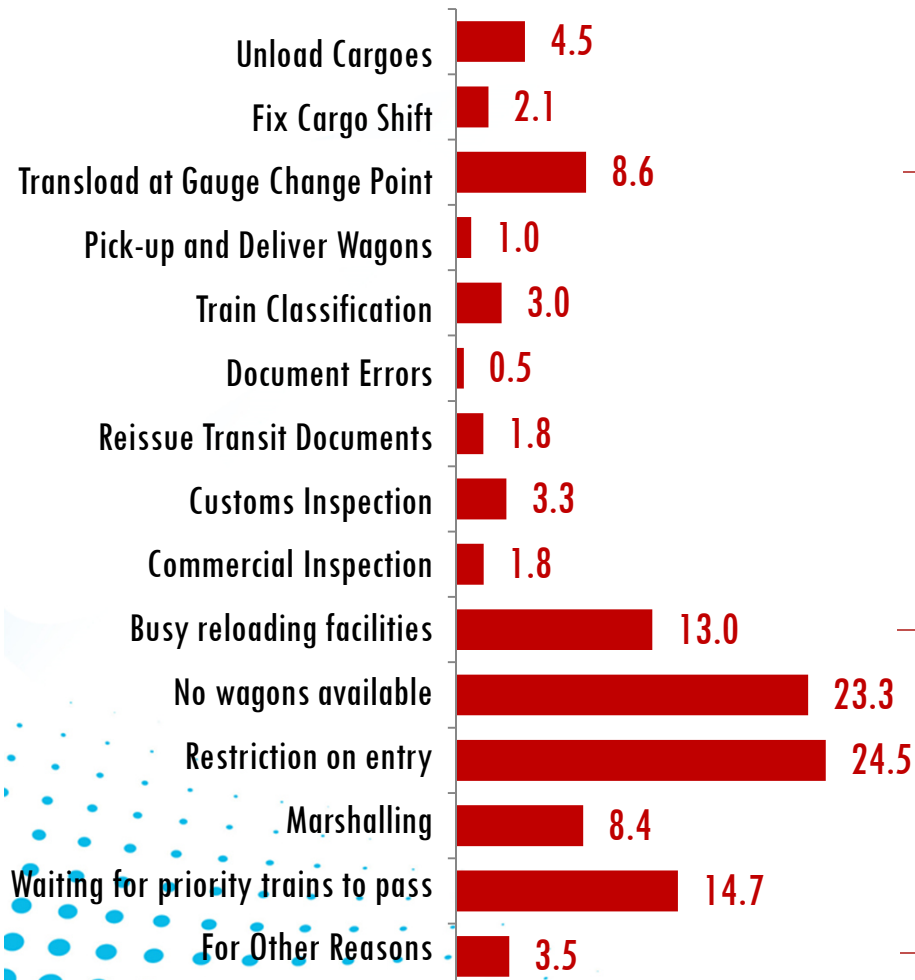
Sample TCD: Urumqi (PRC)-Almaty (KAZ) (above), Tianjin (PRC)-Ulaanbaatar (MON) (below)



# Delays at the border, rail

## Average duration of delays at BCPs

2015, rail transport, in hours



Aside from waiting in queue, delays due to **transloading at the break in gauge** are commonly encountered at BCPs during inbound border crossing.

- Erenhot (PRC), 33.6 hrs
- Dostyk (KAZ), 4.8 hrs
- Zamyn-Uud (MON), 1.3 hrs

**Waiting in queue** for rail transport is divided into several categories. In 2015, trains are delayed due to restriction on entry (24.5 hours) and unavailability of wagons (23.3 hours).

# East-West Traffic (originating in PRC)



<b>Rail</b>		<b>Alataw Shankou</b>		<b>Dostyk</b>		<b>Total</b>		
		Time*	Cost**	Time	Cost	Time	Cost	
Containerized, 40 ft., Express	<b>2015</b>	n.a	n.a	<b>46.0</b>	<b>293</b>	<b>46.0</b>	<b>293</b>	
	2014	n.a	n.a	44.3	122	44.3	122	
Containerized, 40 ft., conventional		<b>33.6</b>	<b>113</b>	<b>45.4</b>	<b>404</b>	<b>79.0</b>	<b>517</b>	
		42.0	138	60.4	232	102.4	370	
Bulk chemicals		<b>64.3</b>	<b>199</b>	<b>83.8</b>	<b>359</b>	<b>148.1</b>	<b>558</b>	
		94.0	246	102.0	215	196	461	
Industrial materials		<b>30.0</b>	<b>84</b>	<b>41.0</b>	<b>395</b>	<b>71.0</b>	<b>479</b>	
		45.8	149	67.0	246	112.8	395	
<b>Road</b>		<b>Korgas</b>		<b>Khorgos</b>		<b>Total</b>		
		<b>2015</b>	<b>10.6</b>	<b>633</b>	<b>5.8</b>	<b>332</b>	<b>16.4</b>	<b>965</b>
		2014	19.3	644	6.8	308	26.1	952

\* Average time, in hours, all activities, \*\* Average cost, in USD equivalent, all activities