

17th Transport Sector Coordinating Committee (TSCC) Meeting

18-20 April 2018 | Istanbul, Turkey

17-е заседание Координационного комитета по транспортному сектору (ККТС)

18-20 апреля 2018 года | Стамбул, Турция

# CAREC Corridor Implementation Progress, Actions Planned and Support Needs

# Republic of Kazakhstan Ministry for Investment and Development

# **CONSTRUCTION AND RECONSTRUCTION OF ROADS UNDER NURLY ZHOL**



# 1, Temirtau-Karaganda-61 km Including Karganda bypass, tolk road Cost – 64 bittion tenges Budget 2018 – 138 villagi tenges Implementation period: 2017-2020

2. South-West Astana bypass road – 33 km Cost - 60.2 hillion tenues. Budget 2018 - 26.8 billion tenges. Implementation period: 2017-2019

3. Astana-Pavlodar-Semei – Kalbatau – 914 km Cost - 305 billion tenges. Budget 2018 – 48 billion tenges. Implementation period: 2010-2019

#### 4. Astana-Petropavlovsk-RF border – 61 km Including access road to Kokshetau

Cost - 44,2 billion tenges. Budget 2018 – 12,9 billion tenges, Completed B 2019

#### 5. Шучинск-Зеренда – 80 km

Cost - 15,2 billion tenges, Budget 2018 - 3.3 billion tenges. Implementation period: 2017-2019

#### 6. Kostanai-Denisovka – 114 km Cost - 36,2 hillion tenues.

Budget 2018 - 3.5 billion tenges. Implementation period: 2017-2020

#### 7. Aktobe-Makat – 458 km

Cost - 178.9 hillion tenges ( Budget 2018 - 51.3 billion tenges. Implementation period: 2017-2020

12. Zhetybai-Zhanaozen – 73 km

Budget 2018 - 7.7 billion tenges.

Implementation period: 2017-2019

13. Kordai bypass road – 80 km

Budget 2018 - 11,5 billion tenges.

Implementation period: 2015-2018

Uzvnagash-Otar section (96 km)

Implementation period: 2017-2020

Budget 2018 – 18,6 billion tenges.

15. Merke-Burylbaital – 266 km

Budget 2018 - 13.3 billion tenges.

Implementation period: 2017-2020

14. West Europe – West China. including

Cost - 29.6 billion tenues

Cost - 25.5 billion tenges.

Cost - 18.6 billion tenges

Cost - 101.8 billion tenges

#### 8. Atvrau-Astrakhan – 274 km

Cost - 134.3 billion tenges Budget 2018 - 25,6 billion tenges. Implementation period: 2017-2020

### 9. Uralsk-Taskala – 100 km Cost - 27 billion tenges.

Budget 2018 - 4.9 billion tenges. Implementation period: 2015-2018

#### 10. Beineu-Akzhigit – 84 km

Cost - 20.1 billion tenges. Rudget 2018 - 7.9 billion tenges. plementation period: 2017-2019.

#### 11. Beineu-Aktau – 60 km

Cost – 12.4 billion tenges, Budget 2018 - 0.4 billion tenges. Implementation period: 2011-2018.

# **CONSTRUCTION AND RECONSTRUCTION OF ROADS IN 2018**



#### 16. Burybaital-Kurty – 228 km

Cost - 112.6 billion tenges. Budget 2018 – 22.9 billion tenges. Implementation period: 2017-2021.

17. Balkhash-Burylbaital – 297 km Cost - 200billion tenges. Budget 2018 - 14.9 billion tenges.

## 18. Kapshaqai-Taldykorgan – 40 km Cost - 8.9 billion tenges.

Budget 2018 – 1 billion tenges Implementation period: 2012-2018.

#### 19 .Taldykorgan – Ust-Kamengorsk– 763 km

Cost - 291 billion tenges Budget 2018 - 30 billion tenges, Implementation period: 2017-2021. 20. Usharai-Dostvk–180 km

Cost - 41.2 billion tenges. Budget 2018 - 7 billion tenges. Implementation period: 2017-2020

#### 21. Taskesken-Bakhtv– 20 km

Cost - 3,8 billion tenges. Budget 2018 - 3,5 billion tenges. Implementation period: 2017-2018

#### 22. Kalbatau-Maikapshagai–415 km

Cost - 159 hillion tenues. Budget 2018 - 20.4 billion tenges. Implementation period: 2017-2021

#### 23. Osinovskvi pass – 32 km

Cost - 16.1 hillion tenges. Budget 2018 - 4.4 billion tenges. Implementation period: 2017-2019

# **INTRODUCTION OF ROAD TOLLS AT REPUBLICAN ROADS**





# ONGOING PROJECTS ROAD TOLL SYSTEM

# Hardware to automate road toll collections

The road toll system components will be installed at toll road section following a phased approach:



- A mobile application, account replenishment, information for drivers;
- Non-stop traveling for vehicles with RFID for contact-free withdrawal of funds when traveling;
- Cameras recognizing plate numbers for identification.

Since 2013 it is operational at Astana-Schuchinsk section, annual collections about to **1.2 billion tenges**, which fully cover maintenance costs.



In 2017 a system is being constructed at 3 sections (Astana-Temirtau, Almaty-Kapshagai and Almaty-Khorgos)

In 2019-2020 – construction of toll systems at 13 sections along main road corridors

Investment 🚳

Construction and commissioning: 86 billion tenges

Impact



- Annual collection from 3 sections: 4 billion tenges.
- Annual collections from 17 sections: 30 billion tenges.
- New jobs: 1,689 people

# **Development of roadside facilities**

n 2015 the National Standard for roadside facilities was approved

# 2.1 thousand roadside service facilities are operational

**CURRENT STATUS** 

70% are not in line with the National Standard



# STATE INFRASTRUCTURE DEVELOPMENT PROGRAM "NURLY ZHOL"

Under the Program, 260 roadside service facilities are planned to be constructed and upgraded along major international corridors by 2020

# Category «A»

A filling station; a motel; a service station, a car wash; a health post; a refreshment point; toilets, shower rooms, retail shops, a shopping and leisure area.

# Category «B»

A filling station; a motel; a service station, a car wash; parking; a health post; a refreshment point; toilets, shower rooms, retail shop.

# Category «C»

Parking; a refreshment point; a retail shop.

Category «D» A filling station; a retail shop.

# CAREC The intellectual transport system will consist of video monitoring, road traffic management systems, systems to inform drivers about road conditions and to collect e-payments for transport services





# INTELLECTUAL TRANSPORT COMPONENTS TO BE IMPLEMENTED

	System for road operation and road construction project management	2018 PPP Concept	2019-21.
	system to simulate toda construction	in concept	implementation
	Road traffic management system Providing traffic information to drivers	2019 PPP Concept	2020-22 . Awarding, implementation
	System to analyze and forecast climate conditions A network of weather stations along roads	2018 PPP Concept	2019-22 . Awarding, implementation
	System for video monitoring and identification of traffic rules violations A network of cameras for video and photo-registration	2018-19 . PPP Concept	2019-22 . Awarding, implementation
	<b>Decision-making support system</b> System to analyze big data	2018 Architecture	2018 - continuously Awarding, implementation
	<b>Digitalization of road transport operations</b> Single platform for transport process participants to ensure transparency and accessibility of services	2019 Marketing	20-21. Implementation
O	Roadside service management system System to promote roadside services	2019 Marketing	20-21. Implementation
	<b>Road construction portal</b> Single platform for participants of road construction works to ensure transparency and accessibility of services	2019 Marketing	20-21. Implementation
	Integration with a single vehicle unit Single vehicle unit for navigation and SOS button	2021 Technical requirements	2022 Implementation



# ONGOING PROJECTS ROAD ASSETS MANAGEMENT SYSTEM

The road assets management system (RAMS) on the basis of detailed road condition data will enable to optimize financing allocated for road maintenance and repairs:

- An objective road condition assessment ;
- Savings from road repairs due to optimization of costs for their life cycle;
- Transition to the performance-based budget concept.



In 2018 – establishment of the National Center for Road Assets Quality

In 2018-2020 – expansion and updating the road data base (for the republican road network)

In 2017 – pilot implementation of 2 modules of the road assets management system

Investment 🚳

Project cost: 0.485 billion tenges

Impact

(RAMS)



- Saving from repairs of the republican road network by 2025: **110.1 billion tenges**
- New jobs **158 people**
- Including in the area of digitalization (IT-administrators, engineers) 63 people

# Information on road accidents along the republican roads for 2016/2017

No	Object	<b>Road accidents</b>			Casualties			Injuries					
IN≌	Oblast	2016	2017	+/-	%	2016	2017	+/-	%	2016	2017	+/-	%
1	Almaty	688	549	-139	-20	277	171	-106	-38	1016	862	-154	-15
2	Akmola	175	190	15	9	75	80	5	7	320	373	53	17
3	Aktyubinsk	105	108	3	3	32	45	13	41	182	200	18	10
4	Atyrau	34	31	-3	-9	26	12	-14	-54	66	61	-5	-8
5	East Kazakhstan	199	183	-16	-8	66	41	-25	-38	345	308	-37	-11
6	Zhambyl	302	356	54	18	83	89	6	7	617	772	155	25
7	West Kazakhstan	91	74	-17	-19	40	44	4	10	135	138	3	2
8	Karaganda	194	161	-33	-17	53	74	21	40	323	270	-53	-16
9	Kyzylorda	42	57	15	36	33	34	1	3	67	79	12	18
10	Kostanai	86	72	-14	-16	29	23	-6	-21	171	122	-49	-29
11	Mangistau	58	54	-4	-7	45	31	-14	-31	108	76	-32	-30
12	Pavlodar	94	105	11	12	28	13	-15	-54	195	198	15	8
13	North Kazakhstan	46	42	-4	-9	28	20	-8	-29	61	42	-19	-31
14	South Kazakhstan	310	393	83	27	107	114	7	7	499	641	142	28
Total:		2 424	2 375	-49	-2	922	791	-131	-14	4105	4142	49	<b>1</b> 9

# **ANALYSIS OF ROAD ACCIDENTS FOR 2015-2017**



# **ANALYSIS OF ROAD ACCIDENTS BY OBLAST, 2017**







Arrangement of noise strips

In 2017 – 5,519.4 m2 arranged

Installation of LED road signs

In 2017 - 116 units installed

Installation of speed measuring units with radar boards

In the current year speed measuring units with information radar boards are planned to be installed in 4 oblasts (*Atyrau, Mangistau, South Kazakhstan, Kyzylorda oblasts*)



# Thank you for attention!