

Smart Mobility Development

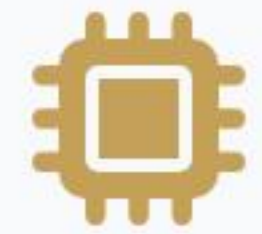
Digitalizing Turkmenistan's Transport Ecosystem

Inaugural Meeting of the CAREC Smart Mobility Working Group
Manila, May 2026

Strategic Vision

Transitioning from infrastructure-based connectivity toward data-enabled connectivity across the CAREC region.

BEYOND PHYSICAL CONNECTIONS



Intelligent Corridors

Integrating infrastructure, logistics, and border facilitation into a single, operationally intelligent transport ecosystem.



Operational Excellence

Improving freight predictability and reducing administrative friction through harmonized digital workflows.

"For Turkmenistan, smart mobility is a broader regional connectivity agenda."

CAREC FRAMEWORK ALIGNMENT



Intelligent Systems

Development of ITS for corridor traffic management and real-time performance optimization.



Smart Logistics

Digital platforms for smart freight coordination and seamless multimodal logistics integration.



Urban Modernization

Public transport upgrades using data-driven fleet management and passenger information systems.



Smart Borders

Transitioning toward paperless operations and accelerated processing at key transit nodes.

ROAD TRANSPORT

- ✓ **E-Permit Exchange:** Pilot project launched with Uzbekistan to reduce administrative friction.
- ✓ **e-TIR Implementation:** Integration with ASYCUDA World for faster border clearance.
- ✓ **e-CMR & Digital Tachographs:** Establishing legal foundations under the AETR framework.

MEASURABLE EFFICIENCY GAINS

Results from pilot operations on the India–Iran–Turkmenistan–Uzbekistan corridor:

Traditional Processing

100% (Baseline Time)

e-TIR / ASYCUDA Pilot

50% (Time Reduction)

Impact: 30% to 50% Reduction in Border Processing Time

SMART URBAN MOBILITY



Passenger-Centric Tech

- ✓ **GPS Monitoring:** Real-time tracking of public bus and taxi fleets.
- ✓ **Cashless Systems:** Smart transport cards and mobile ticketing.
- ✓ **Route Optimization:** Data-driven planning to improve service reliability.

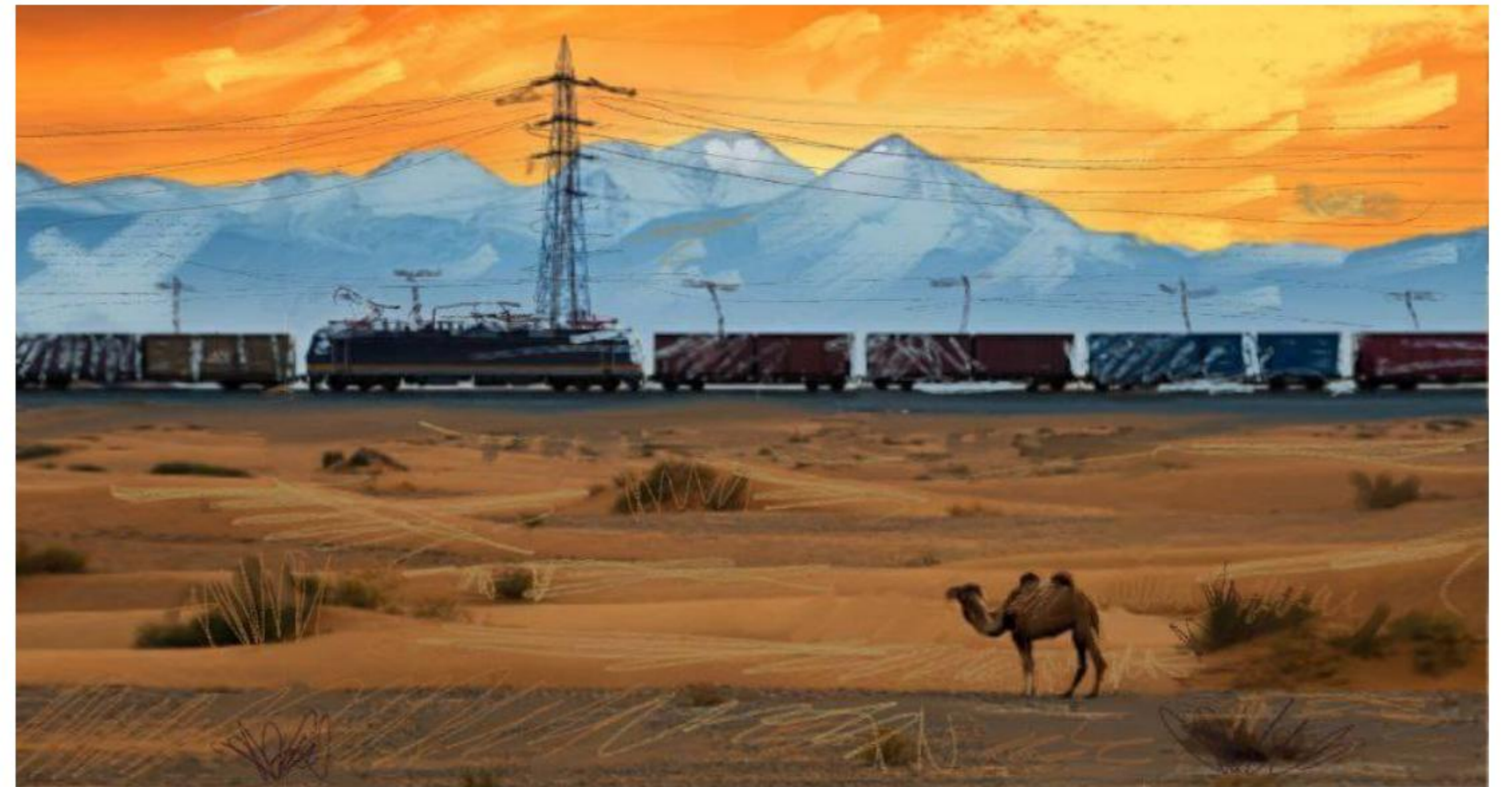
RAILWAY SMART LOGISTICS

Corridor Competitiveness

The strategic priority is shifting from physical capacity to cargo visibility and multimodal coordination.

Key Initiatives:

- Digital freight workflows
- Real-time cargo tracking systems
- Seamless rail-port integration



Maritime Digital Hub

Turkmenbashi International Seaport is evolving into a digital logistics platform, connecting Central Asia to the Caucasus and Europe.

Maritime Single Window

IMO FAL Principles

Port Community System

Multi-stakeholder Integration

INTEGRATION CHALLENGES



Interoperability

Synchronizing digital systems across borders and diverse transport agencies.



Standardization

Aligning national and regional data standards for seamless exchange.



Cybersecurity

Building resilient frameworks to protect sensitive transport and freight data.



Investment

Ensuring projects are technically sustainable and financially realistic.

INVESTMENT PRIORITIES

Focus Area	Priority Initiative	Outcome Goal
National Level	Unified ITS Architecture	Network-wide traffic optimization
Border Management	Smart Infrastructure	Zero-paper customs processing
Maritime & Port	Port Community System (PCS)	Multimodal node synchronization
Cross-Border	Data Exchange Mechanisms	Full corridor visibility

Questions?

Thank you for your attention

Ministry of Transport and Communications of Turkmenistan
Smart Mobility Working Group • CAREC 2026

IMAGE SOURCES

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