Strengthening digital transformation of land transport in North and Central Asia

by Fedor Kormilitsyn, Economic Affairs Officer,
Transport Division, ESCAP
ESCAP project on digital transformation of rail and multimodal transport in North and Central Asia

- **Objectives:**
  - Help reduce inefficiencies which impede cross-border railways transport operations,
  - Facilitate introduction of advanced solutions of rail and intermodal transport operations involving railway transport in North and Central Asia,
  - Facilitate increase of railways' share in the international transport of goods

- **Geographical scope and beneficiary countries:**
  - Azerbaijan, Kazakhstan, Kyrgyzstan, Russian Federation, Tajikistan, Turkmenistan and Uzbekistan
Subregional inventory of policies and strategies on transport digitalization:

- Mapping the policies, good practices and lessons in beneficiary countries and their main trading and transit partners in using new technologies and digital transformation

- Based on the previous analytical and technical work on rail connectivity and intermodal integration, develop draft policy recommendations on strengthening cooperation to enhance digital transformation and application of new technologies in railway and intermodal operations in North and Central Asia and their main trading and transit partners


– Alat Free Economic Zone.
Kazakhstan - Policies, Strategies, and Programmes

- The Strategy Kazakhstan-2050.
- State program of infrastructural development "Nurly Zhol" for 2020 - 2025.
- Plan of the Nation - 100 Steps to Implement Five Institutional Reforms.
− National Development Program of the Kyrgyz Republic until 2026.
− Road transport development concept of the Kyrgyz Republic for 2020 - 2024.
Russian Federation - Policies, Strategies, and Programmes

- National goals and strategic objectives for the development of the Russian Federation until 2024.
- Transport Strategy of the Russian Federation until 2030, with a forecast for the period up to 2035.
- 6 main digital transformation projects of the Russian regions.
- Digital Economy in Tajikistan.
- National Development Strategy of Tajikistan until 2030.
- State target development program of the transport complex of the Republic of Tajikistan till 2025.
- The second phase of the Central Asia Road Links Program.
- Program for Implementation of the Road Asset Management System in the Republic of Tajikistan for the period 2021-2024.
Turkmenistan - Policies, Strategies, and Programmes

- Digital Economy Development Concept of Turkmenistan for 2019-2025.
- National Program of Socio-Economic Development of Turkmenistan 2030.
- Single Window for Export and Import Transactions" Project.
Uzbekistan - Policies, Strategies, and Programmes

- The "Digital Uzbekistan-2030" Strategy.
Policy recommendations:

• Enlarged policy segment on new technologies and digital transformation in support of resilient and competitive railway operations in North and Central Asia, held back-to-back with joint meetings of the ESCAP Working Groups on Trans-Asian Railway and on Dry Ports held on 13 September 2023

• Draft policy recommendations presented for further review and finalization
Factors Impacting Success in Advancing Digitalization

- Government Policies and Regulations
- Technological Readiness
- Financial Resources
- Data Management and Security
- Interoperability and Standards
- Public and Private Sector Collaboration
- Urbanization and Population Growth
- Infrastructure Development
- Workforce Skills and Training
- Resilience and Disaster Preparedness
Digitalization Enablers

- **Digital infrastructure** - provides the foundation for modern transportation systems
- **Big Data Analytics** - leverages large datasets to improve transportation planning and enable optimization
- **Seamless Exchange** - facilitates smooth information sharing among different transportation modes and stakeholders
- **Cybersecurity** - reliability and safety of transportation systems
- **Private Sector Support** - vital role in funding, innovating, and partnering
- **Technical Assistance** - provides the necessary expertise and guidance
- **Interoperability** - promotes efficient operations and enhanced user experiences.
Tailoring Digitalization Strategies

**Key Factors**

- Government
- Key Enablers
- Transport digitalization strategy

**Government**
- Key Enablers:
  - Policy Framework for Digitalization of Transport
  - Digital Infrastructure Development
  - Digital Literacy and Training
  - Data Privacy and Cybersecurity Measures

**National Level**
- Key Enablers:
  - Multimodal Transport Initiatives
  - Standardized Customs Procedures
  - Technology Transfer and Capacity Building

**Subregional Level**
- Key Enablers:
  - Digital Transport Corridors
  - Multilateral Agreements and Platforms

**Regional Level**
- Key Enablers:
  - Government bodies
  - Transport operators
  - Academic institutions
  - Data protection authorities
  - International organizations
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