SPECA Workshop

Digital transformation of transport services in for better connectivity after pandemics, 17 November 2023, Astana & online

ESCAP
Economic and Social Commission
for Asia and the Pacific

Strengthening digital transformation of land transport in North and Central Asia

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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

Azerbaijan - Policies, Strategies, and Programmes

- National Strategy for the Development of the Information Society in the Republic of Azerbaijan for 2014-2020.

- Strategic Roadmap for Development of Telecommunications and Information Technologies in the Republic of Azerbaijan.

- Strategic Roadmap for the Development of Logistics and Trade in the Republic of Azerbaijan.

- Alat Free Economic Zone.

- The Strategy Kazakhstan-2050.

- State program "Digital Kazakhstan" for 2018-2022.

- State program of infrastructural development "Nurly Zhol" for 2020 - 2025.

- National Development Plan of the Republic of Kazakhstan until 2025.

- Plan of the Nation - 100 Steps to Implement Five Institutional Reforms.

– **National Development Strategy of the Kyrgyz Republic until 2018-2040.**

– **National Development Program of the Kyrgyz Republic until 2026.**

– **Road transport development concept of the Kyrgyz Republic for 2020 - 2024.**

– **Digital Kyrgyzstan 2019-2023.**

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.**

– **Strategy for the Development of the Information Society in the Russian Federation for 2017-2030.**

– **Russian Railways Strategy for Digital Transformation until 2025.**

– **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.**

- Digital Economy Development Concept of Turkmenistan for 2019-2025.

- National Program of Socio-Economic Development of Turkmenistan 2030.

- The Concept of Digital Economy Development for 2019-2025.

- Single Window for Export and Import Transactions" Project.

- Strategy of Actions on Five Priority Areas of Development of the Republic of Uzbekistan for 2017-2021.

- Strategy for the Development of the Transport System of the Republic of Uzbekistan until 2035.

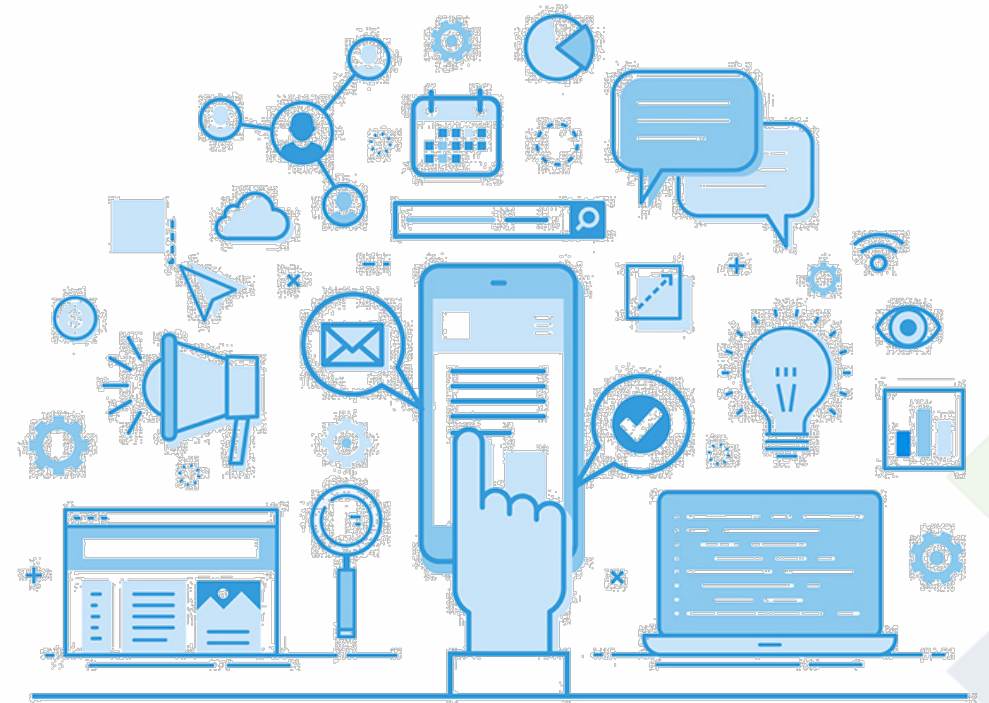- The "Digital Uzbekistan-2030" Strategy.

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
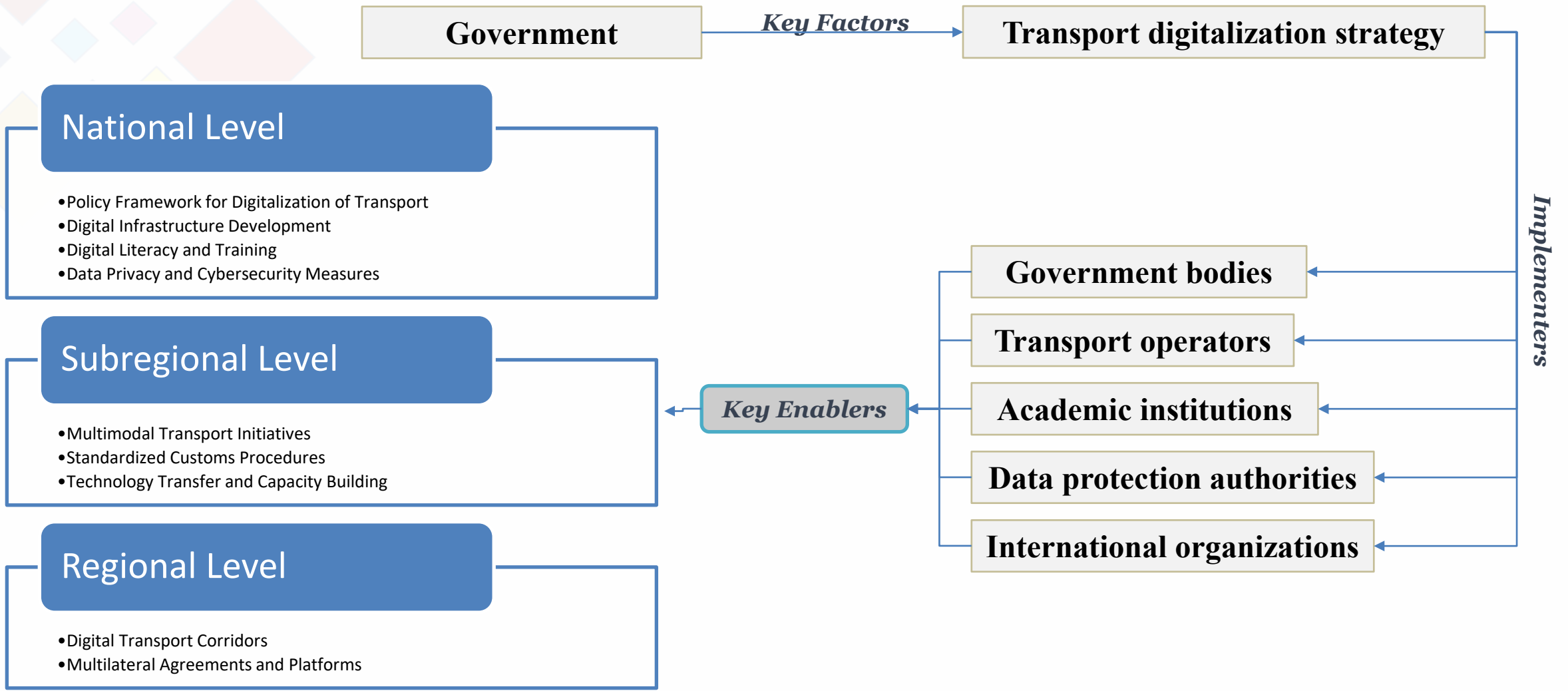- Resilience and Disaster Preparedness

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

Government — *Key Factors* → **Transport digitalization strategy**

National Level

- Policy Framework for Digitalization of Transport
- Digital Infrastructure Development
- Digital Literacy and Training
- Data Privacy and Cybersecurity Measures

Subregional Level

- Multimodal Transport Initiatives
- Standardized Customs Procedures
- Technology Transfer and Capacity Building

Regional Level

- Digital Transport Corridors
- Multilateral Agreements and Platforms

Key Enablers

Government bodies

Transport operators

Academic institutions

Data protection authorities

International organizations

Implementers

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