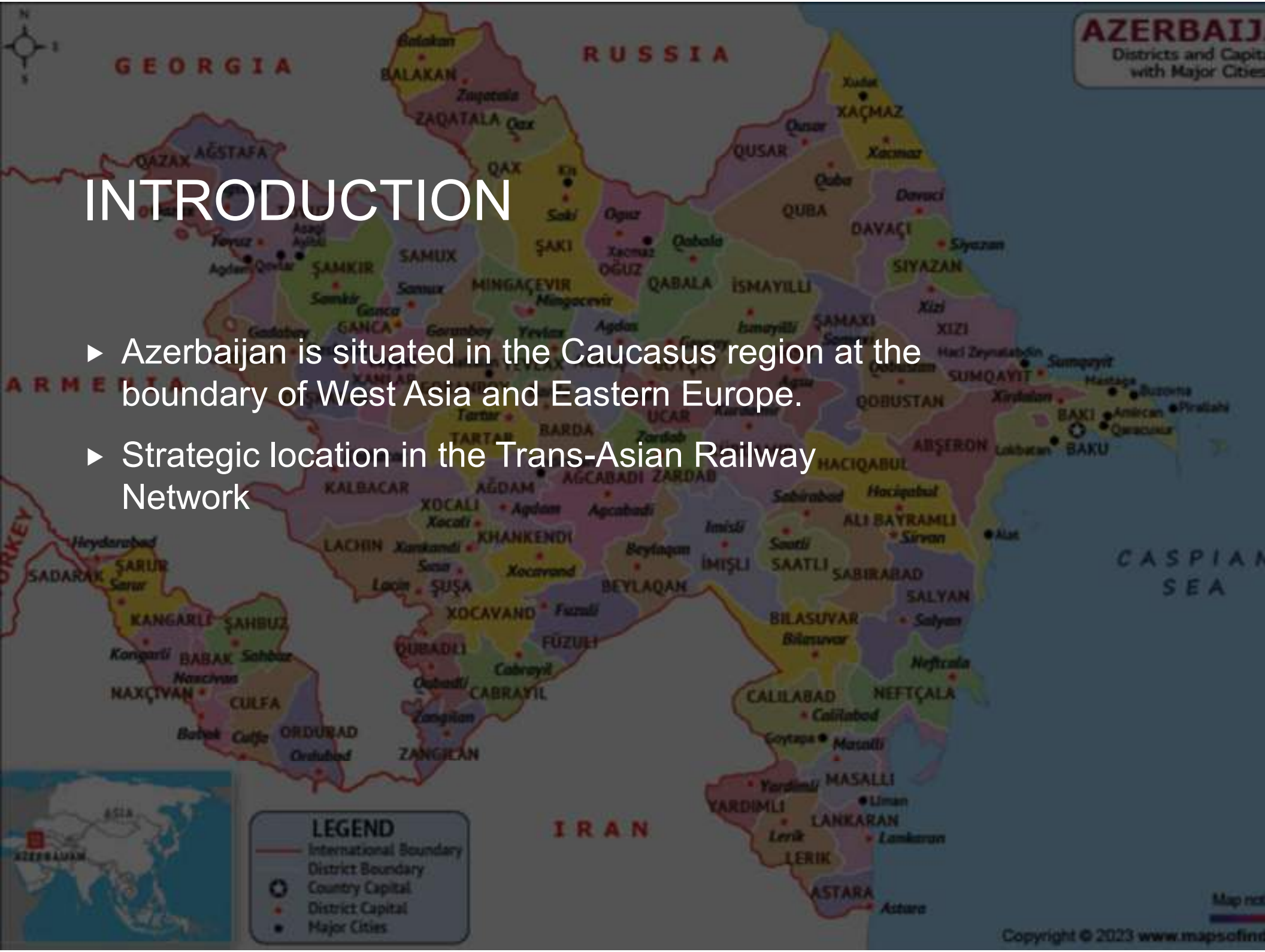
RAIL DIGITALIZATION STRATEGIES AND POLICIES – AZERBAIJAN'S PERSPECTIVE

High-Level Meeting on Deepening Digitalization of International Rail Transport in Asia-Pacific

13-15 May 2025, Xi'an, China

INTRODUCTION

- Azerbaijan is situated in the Caucasus region at the boundary of West Asia and Eastern Europe.
- Strategic location in the Trans-Asian Railway Network



MINISTRY OF DIGITAL DEVELOPMENT
AND TRANSPORT
OF THE REPUBLIC OF AZERBAIJAN

AZCON
HOLDING

ADY

INTRODUCTION

- **Ministry of Digital Development and Transport** – as policy-maker and regulatory executive body
- **AZCON Holding** – as centralized management of transport and communication
- **Azerbaijan Railways CJSC** – as rail transport operator

KEY DIGITAL PROJECTS IMPLEMENTED

- ADY Smart Platform
- Unified CIM/SMGS Electronic Waybill
- ADY Mobile Application
- Contactless Payment Systems
- Infrastructure Modernization

RAIL DIGITALIZATION STRATEGY

- **Core Digitalization Initiatives**
  - Enterprise Resource Planning (ERP) System
  - ADY Smart Platform
  - Unified CIM/SMGS Electronic Waybill
- **Infrastructure Modernization**
  - Electrification and Signaling Upgrades
  - Integration into International Corridors
- **Workforce Development**
  - Digital Skills Training

STRATEGIC GOALS BY 2030

- **Increased Transit Shipments**
  - Annual transit shipments, targeting 15 million tons by 2030, with potential to reach up to 30 million tons
- **Enhanced Passenger Services**
  - To increase annual passenger ridership from 7.2 million in 2023 to 15 million by 2030
- **Post-2030 Vision**
  - Providing high-quality, innovative services, including regional distribution, e-commerce support, and advanced logistics solutions, leveraging digital technologies to enhance customer experience and operational efficiency

CROSS-BORDER DIGITAL INITIATIVES

- **Unified CIM/SMGS Electronic Waybill**
  - Enabling automated data exchange based on the "single entry" principle
- **Integration into the Middle Corridor**
  - Connection of China and Europe via rail
- **Digital Portal for Smarter Services**
  - Enables users to submit requests, track updates, and receive prompt replies

IMPACT OF DIGITALIZATION

- 🔮 **Operational Efficiency**
- 🌍 **Enhanced Cross-Border Logistics**
- 👥 **Improved Customer Experience**
- 💰 **Cost Reduction**
- 🔐 **Safety and Security**
- 📊 **Data-Driven Decision Making**
- 🌱 **Environmental Benefits**

WAY FORWARD / REGIONAL COOPERATION



Aligning Digital Standards Across the Region



Enhancing Bilateral and Multilateral Interoperability



Strengthening Regional Digital Skills and Capacity



Utilizing Regional and International Platforms



CONCLUSION

- Azerbaijan is committed to advancing digital innovation in railways
- Cooperation with our regional and international partners to build a smarter, more connected railway system

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THANK YOU FOR YOUR ATTENTION