

# Achieving Resilience of the Transport System in Landlocked Countries

*Challenges and Opportunities*



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# **1. Disaster Risk and Transport System in Landlocked Developing Countries**

*Recovery can be challenging*

# Existing and Evolving *Risks*



*... and risk drivers*

**Dependency for *Transit***



Photo: Karlygash Dairabayeva

## **2. Resilient Transport System**

# Resilience of Systems



*Transport modes differ in vulnerabilities (e.g., road and rail are vulnerable to heavy rainfall and flooding)*

*Source: UNOHRLLS*

# Transport Adaptation to Climate Change



# **3. Options to Enhance Resilience of Transport System in the Context of Disaster Recovery**



# Disaster Loss Database

- 👉 Anticipate the vulnerability of key transportation assets to hazards and mitigate for greater resilience
- 👉 Plan to pay for reconstruction of transportation assets/structures
- 👉 “Risk-based” transportation asset assessments



# Pre-Disaster Mitigation

*Strengthen critical assets  
(or structurally retrofit)  
to reduce vulnerability*



# “Build Back Better”

- ➔ Address *structural deficiencies* in transport infrastructure
- ➔ Enhance *resilience* (stronger and faster next time around) to future disaster impacts
- ➔ Recovery Monitoring
- ➔ Business Continuity Planning



Disaster Recovery Guidance Series

Transport Sector Recovery:  
Opportunities to Build Resilience



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# Thank You!

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