

### **Transport: Climate Risk and Decarbonization**

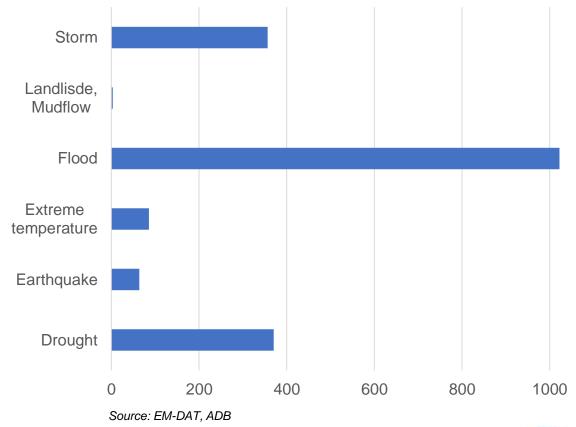
CAREC Working Group on Climate Change Astana 29 May 2024



### **Vulnerability of CAREC Transport Assets**

- Natural hazards, exacerbated by climate change, cause extensive loss and damage of critical transport infrastructure.
- Adverse climate impacts will likely increase due to more frequent and severe natural hazards.
- CAREC corridors and transport operations are vulnerable to climate change.
- Climate adaptation and mitigation measures are *must have* in all new CAREC projects.

#### CAREC: Economic losses by to Natural Hazards Sum of total damage (billion USD 2000-2024)







### Climate Change action in transport (case studies)



# Ongoing Border Crossing Point (BCP) improvement project.

Facilities were designed and built based on the existing public works standards. In 2024 exceptionally heavy rains caused damage to almost complete buildings. They had to be redesigned and rebuilt.

# New Border Crossing Point improvement project.

A BCP was moved away from a riverbank, anti-flooding engineering features were added, specifications amended to improve wind and blizzard resistance of facilities, autonomous ground water supply, and solar panels and batteries are added.





### **How to decarbonize the Transport Sector?**

- Holistic approach to decongestion, higher efficiency and digitalization of multimodal nodes and cross-border transport facilities and operations to help reduce transport and logistics assets and facilities which emit GHG and pollutants.
- Increased focus on Smart Mobility in urban areas to improve livelihood and quality of air in large agglomerations.
- Promotion of mass transit solutions for cargo and passengers (intercity and international bus services, speed trains, container block trains).
- Development of public and private infrastructure for **Electric Vehicles**, and private sector financing and technical assistance to expedite **replacement of old commercial vehicles**.
- Promotion and support to Net Zero airports, railway stations and bus terminals.





### **CAREC Transport Sector actions in Transport Decarbonization**

- CAREC Transport Strategy 2030 will be updated to cover Transport Decarbonization theme.
- Proposed new pillars of CAREC Transport (Smart Mobility and Emerging Areas) to enhance urban transport, digitalization, and transport decarbonization actions.
- CAREC Development Partners give high priority to climate initiatives and are scaling up climate finance availability.
- Climate change vulnerability assessments for road and transport networks, and Paris Agreement Assessments for new projects.
- CAREC DMCs will get additional technical assistance for scoping and preparing new projects that support transport decarbonization and climate change adaptation initiatives to help them achieve their NDCs in the transport sector.







## Thank you for your attention!