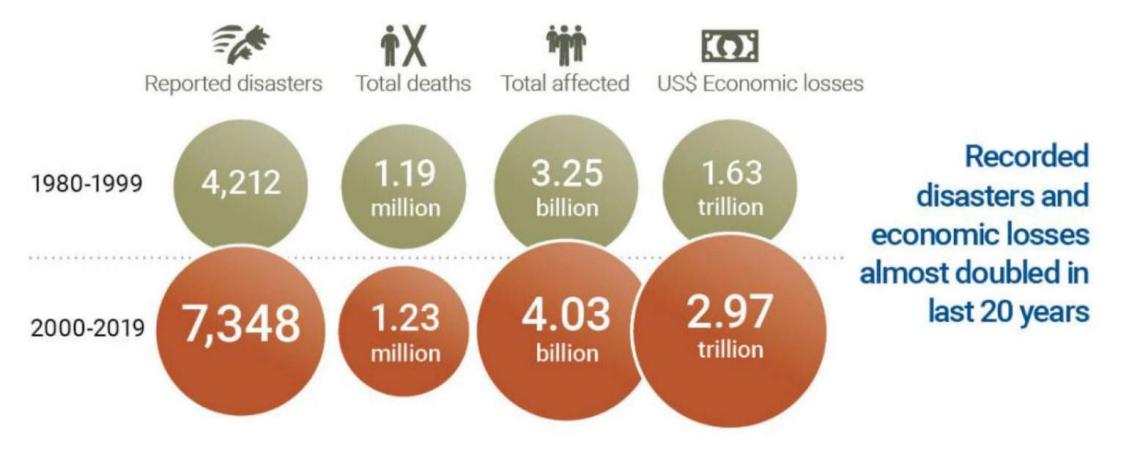
Resilience of critical infrastructure

DETEC Mobility Conference 2023

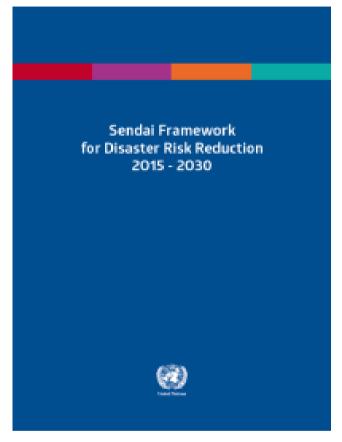
Sujit Mohanty, Chief, Intergovernmental, Interagency cooperation and Partnership Branch, UNDRR







The Sendai Framework for Disaster Risk Reduction 2015-2030



15-year, voluntary, non-binding agreement with 4 Priorities for Action and 7 Global Targets.



Infrastructure Resilience in Global Agreements

Sendai Framework Target D

Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030.



SDG 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Urgent action required for infrastructure resilience

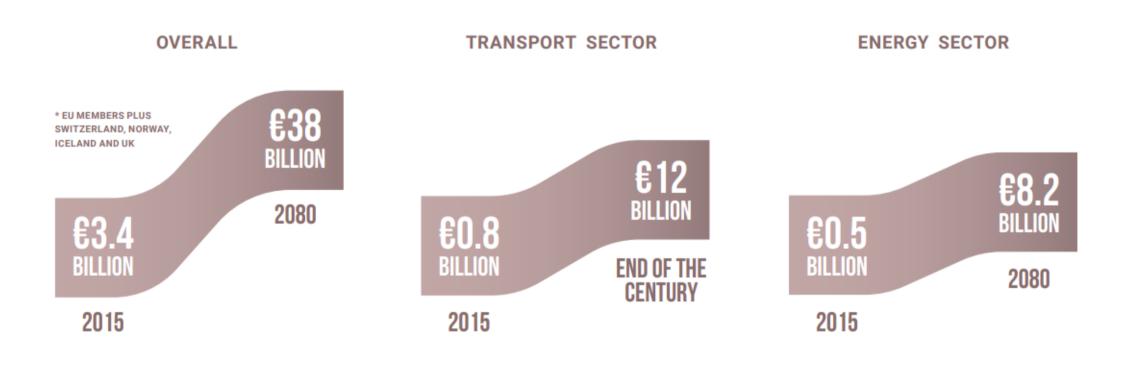
142,852 per year between 2015-2021 Critical infrastructure units and facilities destroyed or damaged by disasters

Disasters disrupting basic services, including health and education.

363,184 in 2020 & 2021



ESTIMATED MULTI-HAZARD ECONOMIC DAMAGES



The Six Principles for Infrastructure Resilience



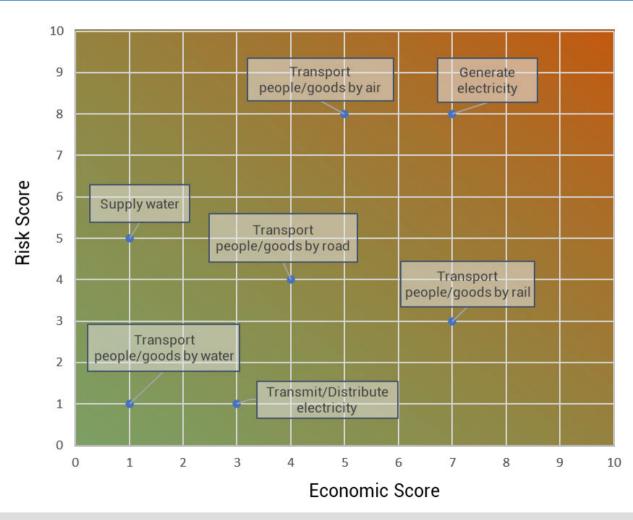
Examples of how the principles can be used for enhancing resilience in the transport sector

- (P1) Continuously Learning conducting stress testing to expose weaknesses in transport systems
- **(P2) Proactively protected** raising essential safety requirements of transport assets
- (P3) Environmentally Integrated using nature based solutions such as mangrove restoration to protect coastal roads by stabilizing slopes
- (P4) Socially Engaged engaging local communities in rural road development and maintenance
- (P5) Shared responsibility information on the cost of port elevation versus potential flooding costs can trigger resilience building investment
- (P6) Adaptively transforming include manual overrides to allow for human discretion during an aborted plan landing



Stress testing infrastructure resilience

Identifying vulnerabilities and cascading impacts



Provides data and reveals vulnerabilities for enhancement and continuity of services

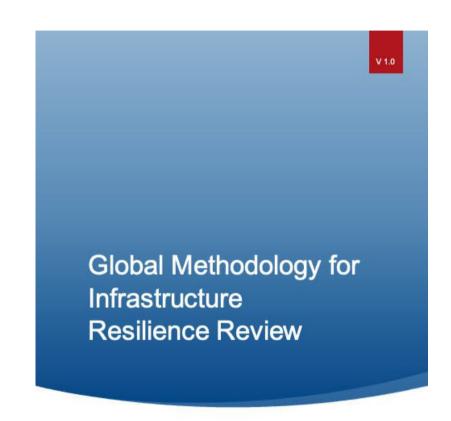
Enhancing resilience of the transport sector in Costa Rica



Source: Comisión Nacional de Emergencias, Facebook

Global Methodology for Resilient Infrastructure Review

- Increased awareness and understanding of infrastructure vulnerability and resilience among key stakeholders
- Strengthened national capacity for riskinformed infrastructure planning and delivery
- Enhanced collaboration between the stakeholders and exchange of knowledge





Tailor to the country context





Thank you



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