**Geohazard Perspective**

**Transportation Asset Management**

Geohazards are increasing across the globe due to climate change and increase the risk of long-term disruption to transport systems. A stable and efficient transport system is a major catalyst for the development of a country and the backbone of its functioning. Disruption to the transport system will cause economic, livelihoods and health impacts on security and access to critical infrastructure (e.g., hospitals, schools, shelters, etc.). Therefore, a geohazard risk management perspective that incorporates people, environment, hydrology, geology, and the transportation infrastructure needs to be adopted to reduce and resilient transport network.

The traditional approach to maintaining transport network is reactive and remediate geohazard events as they occur. A proactive approach that evaluates hazards, monitors the network, and manages the infrastructure can result in 80-90% life-cycle cost savings.

- Soil properties and geology
- Hydrology
- Ecology
- Infrastructure
- People

**Types of Geohazards**

- Glacial Lake Outburst Floods
- Avalanche
- Volcano
- Earthquakes, liquefaction
- Floods
- Tsunamis
- Landslides, Rockslides, Debris Flows
- Mudslides

**Transport Asset Management**

- Geohazard risk assessment from a landscape perspective
- Hazard Monitoring
- Early warning systems
- Structural measures
- Emergency preparedness and response plan
- Institutional coordination and management