CDRI

Coalition for Disaster Resilient Infrastructure

Data and Technology Strategy

Executive Summary

The Strategy document presents a comprehensive plan to strengthen the Coalition for Disaster Resilient Infrastructure (CDRI) Member Countries' ability and capacity to collect, access, and use high-quality infrastructure risk and resilience data, tools, and technology resources. Leveraging such data and technology as strategic assets will enable Member Countries to make risk-informed and strategic policy, regulatory, and investment decisions to strengthen the resilience of their existing and future infrastructure systems.

The data and technology challenges for disaster resilient infrastructure (DRI) are felt most acutely by the Least Developed Countries (LDCs) and Small Island Developing States (SIDS). CDRI will make a focused effort to accelerate the exchange of knowledge, experience, and advanced technologies from middle-income and developed countries to LDCs and SIDS.

The expected outcomes of this Strategy are:

1. Member Countries enhance and strengthen their capacity to generate, collect, analyze, utilize, and manage high-quality geospatial and infrastructure risk data, tools, and technologies.
2. Member Countries develop risk knowledge and analytical capacity to utilize models, tools, and technologies for assessing infrastructure risk and resilience.
3. Member Countries develop and adopt risk-informed policies and regulations.

These outcomes will be achieved through the following objectives:

1. Facilitate timely access to high-quality geospatial and infrastructure risk data, tools, technologies, and knowledge resources for Member Countries.
2. Provide technical assistance, capacity building, and training to Member Countries to enhance their risk awareness and improve their capacity to assess infrastructure risk and strengthen resilience.
3. Develop CDRI's human and technical resources that leverage data and technology to support Member Countries in achieving their DRI objectives.

The scope covered under the Strategy includes: (a) data elements such as earth observation, geospatial, and risk data related to infrastructure and (b) digital technologies with a focus on Artificial Intelligence and Machine Learning (AI/ML), Internet of Things (IoT), Geospatial, Remote Sensing (RS), and Earth Observation (EO) technologies, data science, and disaster risk assessment modelling and simulation.