About CDRI

Launched at the UN Climate Action Summit on 23 September 2019

Based in New Delhi, CDRI was recognized as an International Organization on 22 August 2022

- Multi-stakeholder partnership of national governments, UN agencies and programmes, multilateral development banks and financing mechanisms, the private sector and knowledge institutions
- Provide a forum for countries at all stages of development — to access knowledge and resources from other members, to make their infrastructure resilient and thus, contribute to each other’s economic growth and progress
CDRI Membership

Member Countries

Member Organisations

As on September 2022
Infrastructure - A Priority for Adaptation

US$80 Trillion to be invested in infrastructure in the next 15 years

Challenges
• Accentuated climate and disaster risks to people and infrastructure
• Rapid urbanization and population increase
• Increasing demand and significant transitions in critical sectors
• Interdependencies

Need for
• Integrated, inclusive planning and investment in sustainable infrastructure
• Sustainable infrastructure - social, ecological and grey/physical infrastructures
• Climate-resilient critical infrastructure development – energy, transport, telecom
US$80 Trillion to be invested in infrastructure in the next 15 years

- 79% of all greenhouse gas emissions & 88% of total adaptation cost attributed to infrastructure (UN, 2021)
- Low and middle-income countries - US$ 4 return on every US$ 1 spent on future-focused resilient infrastructure (UN, 2021)
- Resilient and climate-compatible infrastructure development will strengthen climate adaptation, DRR, and sustainability agenda – Paris Accord, SDGs, SFDRR
- Important to consider climate risks & adaptation plans in infrastructure planning process
- Policy shift, technologies and innovation, knowledge and capacities, and sustainable finance is critical
Aim to address the challenges of building resilience into infrastructure systems and associated development

**Delivers** on the climate adaptation agenda through an infrastructure resilience perspective

**Engages** with member countries through research, knowledge management and advocacy initiatives to deliver the global climate goals

**Mainstreams** resilience principles in sector wide policies, processes and practices across different stakeholder groups through well defined sectoral focus and thematic areas.

**Promotes** economic, social and climatic well being of societies through climate and disaster resilient infrastructure
CDRI Programme Approach

**SECTORAL PROGRAMMES**

- Power
- Telecom
- Transportation
- Health Infra
- Urban Infra

**THEMATIC PROGRAMMES**

- Disaster Risk Finance
- Capacity Building and Training
- Nature Based Solutions
- Standards and Certification
- Infrastructure Governance
- Early Warning systems

**MULTI-SECTORAL PROJECTS**

- Infrastructure for Resilient Island States (IRIS)
- Global Flagship Report
- CDRI Fellowship
Pillars of Biennial Report on Infrastructure Resilience

1. Global Infrastructure Risk Model (GIRM)
   - 8 components

2. Global Infrastructure Resilience Index (GIRI)
   - 3 components

3. Nature-based Solutions
   - Thematic focus on Nature-based Solutions in First Edition

4. Progress Monitoring
   - Progress monitoring towards meeting global goals

5. Financing Infrastructure Resilience
   - Focus on building the financial and economic case for resilience in infrastructure
Key Components and Outputs of Biennial Report

**Pillar 1**
- Global Infrastructure Risk Model
  - Global Infrastructure Exposure Model
  - Vulnerability Functions
  - Update of GAR buildings exposure model
  - Landslide hazard model
  - Flood and hydrological drought hazard model
  - Tropical cyclone hazard model
  - Multi-hazard risk modelling
  - National Resilience Studies

**Pillar 2**
- Global Infrastructure Resilience Index
  - Infrastructure Resilience Index
  - Open-source data platform for resilience assessment by countries
  - Global Infrastructure Resilience Survey (GIRS)

**Pillar 3**
- Nature-based Solutions
  - Thematic focus on Nature-based Solutions in First Edition

**Pillar 4**
- Progress Monitoring
  - Baseline of infrastructure risk and resilience metrics
  - Progress monitoring towards meeting global goals

**Pillar 5**
- Financing Infrastructure Resilience
  - Focus on building the financial case for resilience in infrastructure
GOAL: To achieve sustainable development in SIDS through a systematic approach towards resilient, sustainable and inclusive infrastructure

➢ Outcome 1: Increase resilience of SIDS infrastructure to climate change and disaster risks

➢ Outcome 2: Strengthen knowledge and partnerships for integrating resilience in SIDS infrastructure

➢ Outcome 3: Promote gender equality, disability inclusion and social inclusion through resilient SIDS infrastructure

➢ Hosted at CDRI Secretariat

➢ Geographic coverage: Pacific, Caribbean, Atlantic and the Indian Ocean SIDS

➢ Physical presence in different SIDS through regional hubs

➢ Hubs to be co-located within existing regional organizations /facilities
Infrastructure for Resilient Island States

SIDS representatives and stakeholders

[Logos of various organizations related to disaster management and resilience.]
DRI Academic Network

Aim

Higher education students and professionals across various countries in the world have access to a supportive learning ecosystem to enable them to champion disaster and climate resilience of infrastructure in their home country and the region.

Objectives

- To ensure availability/access to Doctoral / masters / elective / Professional development courses on DRI
- To foster collaborations with government department and private organizations for supporting students with scholarships and immersive learning opportunities through internships and industry placements
- To contribute to ongoing knowledge creation through action-based learning in real situations by way of infrastructure resilience labs.

Strategic Approach

Engagement with diverse stakeholders
Focus on trans-disciplinarity

Promote inclusion
Foster global collaboration
DRI Academic Network

Value Proposition

- Curriculum development/ Academic offerings at graduate, post graduate and doctoral level
- Faculty development programmes
- Students/Doctoral/ Faculty exchange programme
- Scholarships for students and faculty
- Immersive Learning labs across institutions to focus on specific issues related to DRI and fellowships
- Internship/ Job placements/ Alumni/ Roster of trained DRI professionals at national and regional levels
 Greater frequency and severity of natural hazards and climate-induced weather events are creating disruptions in the global supply chain.

 World economy is set to lose up to 18% GDP from climate change if no action is taken (3.2°C increase) by 2050 and 4% if Paris Agreement targets are met (below 2°C increase)

 The world is highly interdependent for resources and services and the major share of global supply chain and trade is through infrastructure such as maritime and aviation.

 The value of global trade reached USD 28.5 trillion in 2021 with maritime trade accounting to 80% of international trade volume.

 Infrastructure needs to be resilient to damages and disruptions to reduce the stress on operations, supply and value chain, inflation, food security, use of construction materials and capex investments, and return on investment.
Charting Infrastructure Pathways for Climate Adaptation and Resilience

Engages with member countries through research, knowledge management and advocacy initiatives to deliver the global climate goals.

Mainstreams resilience principles in sector wide policies, processes and practices across different stakeholder groups through well defined sectoral focus and thematic areas.

Infrastructure will be a key component of the climate adaptation and financing agenda. CDRI is being uniquely positioned, with the leadership of India, to leverage action on this critical agenda that has the potential for widespread impact globally.

Adoption of the Global Goal on Adaptation at COP26 (Glasgow), further positions resilience to climate change and its impacts as a critical pathway for attaining sustainable development with infrastructure resilience potentially playing a pivotal role.

CDRI will proffer technical assistance solutions, knowledge repository and policy engagement to strengthen capabilities of governments to undertake their adaptation agenda with a focus on making infrastructure systems resilient.
THANK YOU