



ANNUAL REPORT **2022-2023**



DRI SOLUTIONS FOR A RESILIENT WORLD



ANNUAL REPORT **2022-2023**

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Notes: Fiscal year (FY) runs from 1 April to 31 March; the financial contributions and expenditures reported are reflected up to 31 March, 2023; all dollar amounts are in U.S. dollars (\$) unless otherwise indicated.

Front Photo Credit: Richard Nyberg
Concept & Development: CDRI Communications
Layout & Design: Santosh K Singh

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What we need is a global people's movement to bring about behavioural change...therefore India is here today to present a practical approach and roadmap. In order to make our infrastructure resilient in the face of disasters, India is launching a Coalition for Disaster Resilient Infrastructure. I invite all member states to join this Coalition. ””

Hon. Prime Minister of India, Shri Narendra Modi

Launching the Coalition for Disaster Resilient Infrastructure
at the 2019 UN Climate Action Summit



CDRI has set a challenging and urgent agenda for itself... As the pandemic has reminded us, no one is safe till everyone is safe! We have to ensure that we leave no community, no place, no eco-system, and no economy behind. ””

Shri Narendra Modi

Hon. Prime Minister of India

CDRI in the News



Hindustan Times

Global meet on disaster resilient infra stresses on people-centred development

By hindustantimes.com

May 04, 2022 07:41 PM IST

Opening day session at ICDRI saw Prime Minister Narendra Modi and his Australian, Japanese and Madagascar counterparts calling for disaster-resilient infrastructure to mitigate impacts of climate disasters.




ETPrime

CDRI and Indian govt sign headquarter agreement

By Pratoy Choudhury, ET Bureau • Last Updated: Aug 22, 2022 11:14 AM IST



Mint

CDRI announces Infrastructure Resilience Accelerator Fund at COP27

1 min read • 09 Nov 2022, 05:22 PM IST

Swati Luthra

IRAF, a multi-donor trust...



The Indian Express

Early Warning System for the entire world in next five years

The programme, launched by UN Secretary General António Guterres, will invest \$1 billion between now and 2027 to create the infrastructure...



INDIA TODAY

COP27: KEY TALKS ON LOSS & DAMAGE




BS

Centre signs headquarters agreement with CDRI, enables international status

The Coalition for Disaster Resilient Infrastructure (CDRI) and the Government of India (GoI) signed a headquarters agreement on Monday in New Delhi.



THE NEW INDIAN EXPRESS

India backs UN action plan for natural hazards

India is spearheading the Coalition for Disaster Resilient Infrastructure (CDRI) applications of climate forecast and early warning. The...



THE WORLD NEWS

COP27: CDRI to propose climate-change adaptation projects on Nov 17

Climate-resilient infrastructure will help society weather self progress in talking with systems...




TIMES NOW




THE WEEK

Union Cabinet approves ratification of Headquarters Agreement with CDRI

The Union Cabinet on Wednesday approved the ratification of the Headquarters Agreement between the Government of India and the Coalition for Disaster Resilient Infrastructure (CDRI).



TIMES NOW

CDRI to help island nations to build disaster resilient infra

The Coalition for Disaster Resilient Infrastructure (CDRI), the India led organisation, is \$5 million to protect island nations. The announcement will be made during the COP27...



ANI @ANI

GoI and CDRI have signed the headquarters agreement that gives CDRI the designation of an International organisation. The focus of CDRI programs is to understand the reasons for disasters because of climate change, and earthquakes: Amit Prothi, Director General, CDRI



El país es parte de iniciativa sobre creac infraestructuras resilientes

Se trata del proyecto IRIS, siglas del inglés Infraestructura Resiliente... Amit Prothi appointed new Director General, CDRI

The Coalition for Disaster Resilient Infrastructure and the U.S. Agency for International Development host the International Conference on Disaster Resilient Infrastructure 2022

CDRI joins in a three-day intensive hybrid conference... The conference will be held from 4-6 May 2022 at the Sheraton Hotel, in New Delhi, India

PM Addresses 4th Edition Of International Conference On Disaster Resilient Infrastructure

The session was also addressed by Scott Morrison MP, Prime Minister of Australia, H.E. Nana Addo Dankwa Akufo-Addo, President of Ghana, Fumio Kishida, Prime Minister of Japan and H.E. Andry Rajoelina, President of Madagascar

sarkaritel.com Premium Conversations | Adaptation finance will be key part of COP27: CDRI DG

CDRI joins in a three-day intensive hybrid conference... The conference will be held from 4-6 May 2022 at the Sheraton Hotel, in New Delhi, India



\$50m fund to support disaster-proof infra

Sharm el-Sheikh: The Coalition for Disaster Resilient Infrastructure (CDRI) on Wednesday announced setting up the Infrastructure Resilience Accelerator Fund (IRAF) with allocation of \$50 million to support global action to build robust infrastructure, especially in developing nations...

Climate risk turns focus on need for resilient infrastructure

UN agencies and governments, in an effort to address the growing threat of climate change, have agreed to focus on building resilient infrastructure...

APORDOM acciona para prevenir desastres



Alleyes on Egypt to steer climate finance towards adaptation

NEW DELHI: The Coalition for Disaster Resilient Infrastructure (CDRI) on Thursday announced a multi-party initiative to support Egypt's efforts to steer climate finance towards adaptation...



CDRI inks deal with govt; to be global, independent body

NEW DELHI: The Centre for Disaster Resilient Infrastructure (CDRI) on Monday announced a deal with the Government of India to become a global, independent body...



PRESS MEET ON DISASTER RESILIENT INFRASTRUCTURE

NEW DELHI: In the run-up to the ICARDI 2022, the Centre for Disaster Resilient Infrastructure (CDRI) and the USAID are hosting a press meet at Le Meridien hotel in New Delhi from 12 pm onwards on Monday...



Business Standard

CDRI announces Infrastructure Resilience Acc Fund at COP27, gets USD 50 million in financial commitments

NEW DELHI: The International Conference on Disaster Resilient Infrastructure (ICARDI) 2022, the Centre for Disaster Resilient Infrastructure (CDRI) and the USAID are hosting a press meet at Le Meridien hotel in New Delhi from 12 pm onwards on Monday...

International Conference on Disaster Resilient Infrastructure from Wednesday

The International Conference on Disaster Resilient Infrastructure, to be held from Wednesday, will present a critical discourse on the approach to put people at the centre of infrastructure development and resilience...



From the Desk of Director General



Amit Prothi
Director General, CDRI

It has been an honour for me to lead the CDRI Secretariat over the past nine months. To be able to join the Coalition at a critical point in its journey and support its evolution into a globally recognized international organization is a once-in-a-lifetime opportunity. I am humbled to have been selected by the Coalition's Governing Council for this role.

For CDRI, the past year has been about moving out of the shadows of Covid towards launching new programmes and initiatives, within India, and across the globe. Our membership has grown and we have also developed a roadmap to define the next four years of priority areas.

Some of the notable achievements during 2022-23 include:

- The Infrastructure for Resilient Island States (IRIS) initiative that was launched by global leaders including the Honourable Prime Minister of India at COP26, has picked significant momentum. In response to a 'Call for Proposals' that was announced at COP27, we received 50 expressions of interest from 28 Small Island Developing States

to support initiatives such as development of early warning systems, nature-based solutions for coastal protection, and building codes that address risks from cyclones. We are in the process of shortlisting the proposals that will receive support.

- In accordance with our Charter, we designed and launched a US\$50 million trust fund, the Infrastructure Resilience Accelerator Fund (IRAF), to facilitate implementation of our global initiatives.
- We organized two flagship events: (a) The fourth annual edition of the International Conference on Disaster Resilient Infrastructure (ICDRI 2022) that brought over 100 experts and 2000 participants from 66 countries together (physically and virtually) to deliberate on the theme of 'Envisioning a People-centered and Resilient Infrastructure Transition'; and (b) A conference of technical experts who contributed to our first Special Journal Publication on 'Adaptive Pathways for Resilient Infrastructure.'
- Our Fellowship Programme has been very well



Vision

CDRI seeks to rapidly expand the development and retrofit of resilient infrastructure to respond to the SDG of expanding universal access to basic services, enabling prosperity and decent work.

This will need to be implemented simultaneously with accelerated and expanded climate action and disaster risk reduction, from the local and national to regional and global scale.

received. This year saw the culmination of the first year of the Programme with a convocation of the first Cohort of our Fellows from 9 Member Countries. These teams leveraged the seed grant and capacity building support they received to augment their research on solutions that address disaster risks – for example, technologies to strengthen hospital buildings from risks related to earthquakes, and geospatial tools that allow for understanding risks to infrastructure in steep terrain or riverbeds. We also announced and onboarded the second Cohort of Fellows from 11 Member Countries.

- We facilitated extensive consultations with our key stakeholders to develop our workplan for 2023-27. The workplan outlines our ambitious **vision** for the next four years, specifically via three key priorities – first, to continue to build a strong Coalition; second, to aggregate and make accessible the best knowledge on DRI; and, third, to build capacities and evidence through on-ground implementation of DRI initiatives.

- We launched two new initiatives this year – (a) A pilot study of telecommunications infrastructure to inform governments on physical risks that could disrupt services and potential approaches to address such risks; (b) A disaster risk financing study where budgets across several states in India and four Member Countries are being evaluated to understand the amounts of fiscal risks that these governments may face in the event of disasters. The study will also identify potential pathways to reduce fiscal risks.

While we continue to build on our ongoing initiatives and identify new priority areas, our Secretariat is also growing and new staff who bring vital experience and expertise are being added. The support of Member Countries has been and will remain critical as we collectively work towards achieving the ambition that has been laid out for CDRI – to address the challenges posed by increasing disasters and climate risks that impact our infrastructure and thus, affect the lives, livelihoods, and wellbeing of hundreds of millions of people.



01

About CDRI



About CDRI

Launched by the Honourable Prime Minister of India, Shri Narendra Modi, at the 2019 United Nations (UN) Climate Action Summit, in New York, Coalition for Disaster Resilient Infrastructure (CDRI) is a global partnership of national governments, UN agencies and programmes, multilateral development banks, the private sector, and knowledge institutions.

CDRI was accorded the status of an **'International Organization'** by the Government of India via a Headquarter Agreement in August 2022.

CDRI seeks to advance the cause of climate and disaster resilient infrastructure (DRI), thereby ensuring sustainable development. The Coalition's resilience programmes draw on the operational principles of - collaboration, inclusion and focusing on the most vulnerable, while considering the emerging priorities of its Members. This is becoming increasingly critical in the backdrop of rapidly exacerbating climate extremes and disaster risks.



CDRI Members

AS OF 31 MARCH 2023

Member Countries



31

Countries

6

International Organizations

2

Private Sector Organizations

Member Organizations



Asian Development Bank



Coalition for Climate Resilient Investment



European Union



European Investment Bank



The Private Sector Alliance for Disaster Resilient Societies



United Nations Development Programme



United Nations Office for Disaster Risk Reduction



World Bank Group

CDRI Governance and Secretariat

The governance arrangement of the Coalition comprises of three principal bodies, namely: the Governing Council, the Executive Committee, and the Secretariat.

Samantha Power, Administrator of the United States Agency for International Development (USAID), United States of America, is the current rotational Co-chair of the GC. USAID holds the Co-chair for the period of 2022-24.

The Governing Council

The Governing Council (GC) is the highest policy-making body of CDRI and comprises all Members of the Coalition. The GC has two Co-chairs – permanent and rotational. India is the permanent Co-chair of CDRI's Governing Council.

The fourth CDRI Governing Council meeting is scheduled to be held in April 2023 in New Delhi.

The Executive Committee

The Executive Committee (EC) is the managerial body of CDRI that oversees the implementation of

Executive Committee Meeting
September 2022



the decisions of the Governing Council.

Representatives from notional constituencies of the GC constitute the EC. The EC convenes bi-annually, and on a day-to-day basis it manages the programmatic work and decisions of the Coalition. Article 6 of the Coalition for Disaster Resilient Infrastructure (CDRI) Charter states that the EC of CDRI needs to be reconstituted after a term of two years.

During the Financial Year 2022-2023, the CDRI Executive Committee meeting was held twice - September 2022, and March 2023.

CDRI Secretariat

Located in New Delhi, the CDRI Secretariat is headed by a Director General. CDRI currently has a total workforce of 49, including three personnel on secondment from the United Nations Development Programme (UNDP), five from USAID (Miyamoto International), and one from France.

*Executive Committee Meeting
March 2023*



Members of the CDRI Executive Committee during 2022-2023

Notional Constituency	Representative
Permanent Co-chair (India)	Mr. Kamal Kishore, Member Secretary, NDMA, Government of India Indian Co-Chair, CDRI Executive Committee
Rotating Co-Chair (United States)	Ms. Veena Reddy, Mission Director, USAID, India US Co-Chair, CDRI Executive Committee
Director General CDRI	Mr. Amit Prothi, Director General, CDRI
MDBs/ IOs, and UN Agencies	Ms. Mami Mizutori, Special Representative of the Secretary-General for Disaster Risk Reduction, UNDRR
	Mr. Abhilash Panda, Deputy Chief, Intergovernmental processes, Interagency cooperation and Partnerships Branch, UNDRR
	Mr. Carlos Sanchez, Executive Director, CCRI
	Mr. Rowan Douglas, Head Climate & Resilience Hub, Willis Towers Watson
SIDS	H.E. David Puig, Ambassador, Embassy of the Dominican Republic in New Delhi, India
Africa	Mr. John Kissi (EngD), Technical Advisor, Ministry of Works and Housing, Government of Ghana
Asia-Pacific	Dr Cate Rogers, Assistant Secretary, Climate Financing and Programming Branch, Department of Foreign Affairs and Trade, Govt of Australia
Latin America and the Caribbean and North America	H.E. André Aranha Corrêa do Lago, Ambassador, Embassy of Brazil, New Delhi (Alternative EC) Mr. Eduardo Uziel, Deputy Head of Mission, Minister Counsellor, Embassy of Brazil, New Delhi
Europe	H.E. Emmanuel Lenain, Ambassador of France in India

CDRI Engagements

CDRI engages with its Member Countries, Multilateral and International Organizations through country level programmes and projects; participation in national, regional, and global advocacy events and platforms; and facilitation of knowledge exchange.

During the Financial Year 2022-2023, Member Countries contributed technical, financial and expertise support for CDRI's sectoral studies and capacity building to support the Coalition in achieving the Global Goals. During this period, CDRI initiated regional and multilateral cooperation.

Memorandum of Understanding (MoUs)

- An MOU was signed with the Indian Ocean Rim Association (IORA) in April 2022 for cooperation and collaboration on disaster resilient infrastructure in the Indian Ocean Region.
- An MOU was signed with the International Energy Agency (IEA) and World Meteorological Organization (WMO) in June 2022 and a Letter of Intent was signed in August 2022 for technical and knowledge partnerships on energy sector resilience.

The Headquarters Agreement (HQA)

The Government of India accorded to CDRI the status of International Organization (IO) in accordance with its own legislation. The Headquarters Agreement (HQA) was signed between Government of India and CDRI on August 22, 2022, for exemptions, immunities, and privileges to CDRI as per Section 3 of the United Nations (Privileges and Immunities) Act, 1947 of Government of India. This will allow more flexibility with the norms applicable for operations of the Secretariat, facilitate hiring of international staff, secondments, visa, and taxation amongst others, drawing on the immunities and privileges enshrined by this recognition as an IO.

The transition to an IO will also enable smooth implementation of projects outside India through regional offices, ease of travel permits and deployment of

specialists in other countries. Such arrangements will also foster collaborative working and technical assistance to Member Countries on post-disaster infrastructure recovery. The Secretariat will undertake discussions with countries, on a case-to-case basis, to seek the legal processes and approvals that may be necessary for CDRI to undertake activities in Member Countries, or to establish regional offices.

Within the Indian laws, the ongoing transition to an IO is progressing well. Further, the Coalition being a Charter based organization, the Secretariat is in the process of reviewing if the Charter, in its current form, suffices for it to function as an IO. A detailed plan encompassing the next steps will be developed in discussion with the Members.

Recognition of CDRI as an International Organization



From (L) to (R): Shri Prabhat Kumar, OSD (ER & DPA), Ministry of External Affairs; Mr. Dammu Ravi (IFS), Secretary (Economic Relations), Ministry of External Affairs; Mr. Md. Noor Rahman Sheikh (IFS), Joint Secretary (ED), Ministry of External Affairs; Dr P.K. Mishra, Principal Secretary to PM, Government of India and CDRI Governing Council Co-chair; Mr. Amit Prothi, Director General, CDRI; Ms. Veena Reddy, USAID/India Mission Director and CDRI Executive Committee Co-chair; Mr. Kamal Kishore, Member Secretary, National Disaster Management Authority, Government of India and CDRI Executive Committee Co-chair

Strategic Work Plan 2023-2026

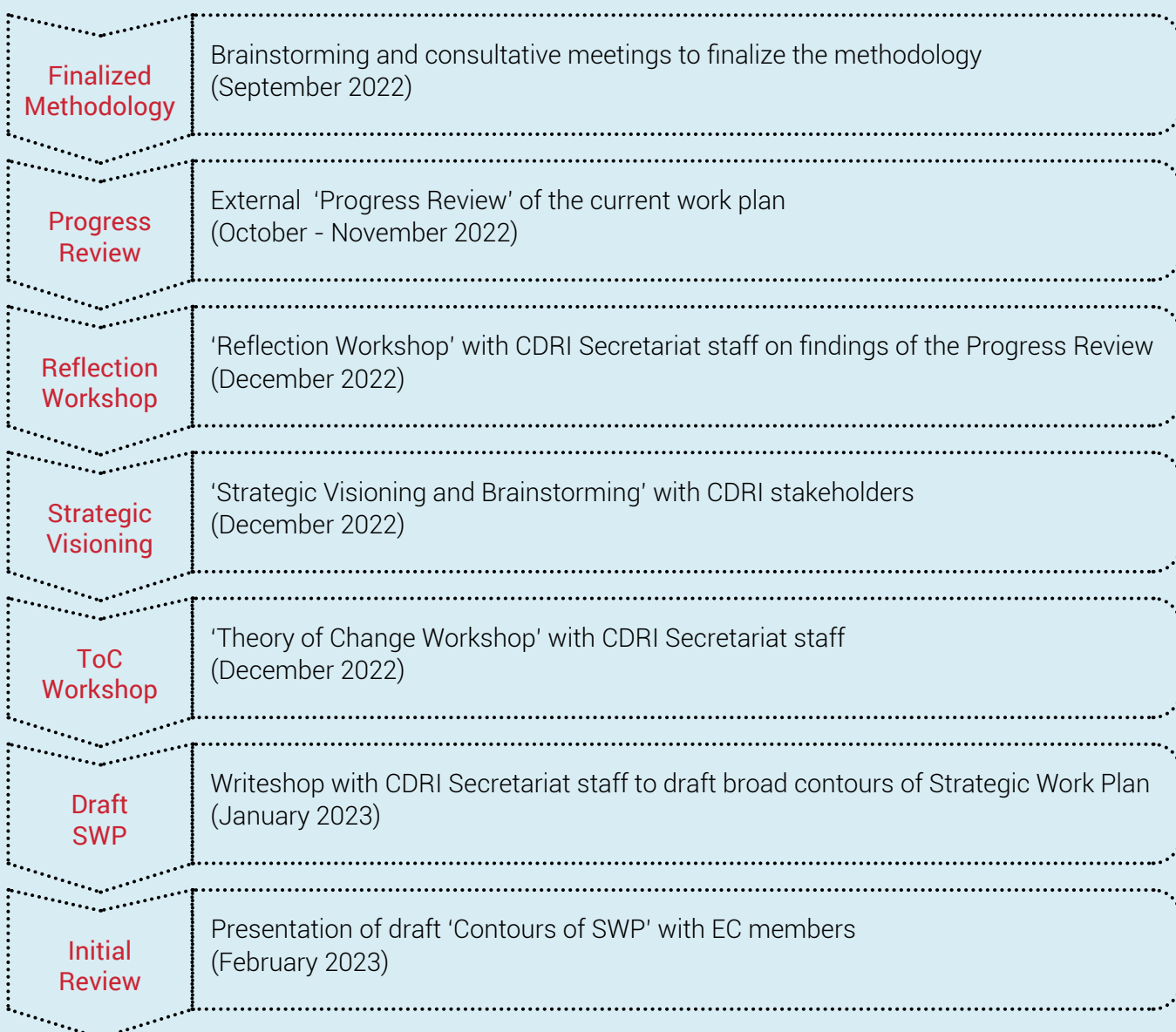
The Secretariat undertook a detailed exercise to develop a Theory of Change (ToC) to inform the new Strategic Work Plan 2023-26 (SWP) in FY 2022-23. The exercise was undertaken as the CDRI Work Plan 2020-2022 concluded in December 2022.

The process of development of the SWP was carried out with the support of USAID-funded technical assistance and included several discussions during September 2022-January 2023, which helped in drawing lessons and insights on implementation of

the previous workplan, focusing on emerging issues of infrastructure resilience and identifying potential opportunities. These discussions helped to draw lessons and insights related to the implementation of the earlier workplan, as well as maintain a line of sight on emerging issues of infrastructure resilience and identify potential opportunities.

The **Progress Review** exercise included internal and external surveys, key informant interviews and focused group discussions with the key stakeholders.

SWP Development Process: A Summary of Steps



The respondents, including representatives from Member Countries, partners, donors, and other stakeholders, shared their perspectives on several dimensions of CDRI's work and deliberated on CDRI's key value proposition.

The insights, synthesized and presented through a Reflection Workshop in December 2022 informed the Strategic Brainstorming and Visioning Exercise. This helped in shaping the Theory of Change (ToC) and influenced the following:

- Development of the key imperatives that would guide CDRI's work till 2030.
- Strategic Work Plan 2023-26 (SWP)

CDRI Mandate

CDRI has been envisioned and established as a global network to advance the agenda, support coordinated action among stakeholders, and focus on bringing voices from vulnerable geographies and populations on to international policy forums.

Internationally agreed upon goals in the SDFRR, the SDGs and the Paris Climate Agreement provide the foundational framework that guide the Coalition's vision and mission. Consultations with CDRI Members, partners and stakeholders confirmed that the Coalition's vision, mission and approach, as defined in its Charter, remain relevant in the context within which it operates.



Vision

CDRI seeks to rapidly expand the development and retrofit of resilient infrastructure to respond to the SDG of expanding universal access to basic services, enabling prosperity and decent work.

This will need to be implemented simultaneously with accelerated and expanded climate action and disaster risk reduction, from the local and national to regional and global scale.



Mission

To support countries to upgrade their systems to ensure disaster and climate resilience of existing and future infrastructure.

This shall be fully aligned with the SDGs, the Paris Climate Agreement and the Sendai Framework.

Approach - Pathways to our Mission

1

Raise awareness at all levels, on the benefits of resilient infrastructure systems, and build linkages with other relevant initiatives

2

Serve as a platform where knowledge is generated and exchanged on multiple dimensions of disaster and climate resilient infrastructure

3

Enhance nationally and regionally appropriate standards, codes, specifications and guidelines for the planning, design, operation and maintenance of infrastructure systems

4

Enhance capacities and practices to reduce infrastructure damages, and interruption of basic services and economic activity, from disasters and climate change

5

Enable technological and institutional innovation for resilient infrastructure systems

6

Make technical expertise available to countries for developing resilient infrastructure in accordance with their disaster and climate risks and resources

7

Advocate for innovative financial arrangements, including risk transfer, that support development of resilient infrastructure

8

Assist countries to adopt appropriate risk governance arrangements and strategies for resilient infrastructure

The CDRI Value Proposition

As a global partnership, the Coalition aims to ensure that the investments of its members and partners are aligned and well-coordinated in support of the shared ambition of disaster and climate resilience of new and existing infrastructure. **The two unique yet interconnected roles that CDRI shoulders in this direction are:**

A Strong Coalition Driving Collaborative DRI Action

In March 2023, CDRI stands as a partnership of 31 national governments, six international organizations and financial institutions, and two private sector organizations.

The Coalition enjoys robust political support which propels its efforts to advance the interests.

In this role, as an active, multi-stakeholder Coalition, CDRI:



Connects and mobilizes local, national, and international stakeholders, working within and across different geographies and sectors, to accelerate and scale-up DRI action, drive increased public and private investment, and deliver concrete progress on the DRI agenda.



Uses its collective influence to advocate for an ambitious, future-focused DRI agenda, and amplify the voices of vulnerable regions and populations most at risk.

A Solution-Focused Centre of Excellence for DRI

As a Centre of Excellence for DRI, the Coalition strengthens the individual and collective capacities of its members and partners by aggregating and sharing knowledge, brokering need-based partnerships, and strengthening capacities through collaborative learning and action.

In this role, as a solution-oriented and future-focused Coalition, CDRI:



Strengthens member capacities and capabilities on DRI, through direct support, providing opportunities for collaboration, and by brokering member-to-member and partner-to-member support.



Generates and curates future-focused research and knowledge, including innovations, to influence DRI policy and practice.



Supports its Member Countries to attain their DRI objectives by leveraging on the Coalition's diversity of expertise and experience to mobilize global cooperation and facilitate transformative action.

Theory of Change (ToC)

CDRI's Theory of Change (ToC) provides a framework for the Coalition members and partners to collaborate, cooperate and advocate for achieving the intended impact. It explains how the Coalition's interventions or programmes work together to deliver results or outcomes that contribute to achieving the said **impact**:



By 2050, over US\$10 trillion of new and existing infrastructure investments and services are resilient to natural hazards and climate change through enhanced capacity, informed policy, planning, and management leading to improved quality of environment, livelihood and life of over 3 billion people.

Strategic Work Plan 2023-26 (SWP)

The SWP 2023-2026 was presented to the Governing Council and approved in March 2023. The SWP 2023-2026 will inform the Annual Action plans for the period.

The SWP provides a framework for the Coalition members and partners to collaborate, cooperate and advocate for meeting DRI goals. It also explains how the Coalition's interventions work together to deliver results or outcomes that contribute to achieving the intended impact. The Strategic Outcomes (SOs) embedded in the SWP are interdependent and mutually reinforcing. Each SO includes a

set of intermediate outcomes envisioned as building blocks for achieving the higher-order strategic outcome or result. The three Strategic Outcomes are:

Strategic Outcome 1: A Strong Coalition that has the membership, resources and global leadership to drive global, national, regional, and local DRI action.

Strategic Outcome 2: Global DRI research, Coalition-led peer engagement, and CDRI-curated and generated knowledge promote risk-informed policy and practice.

Strategic Outcome 3: Enhanced capacities of government, private enterprises, and communities to implement post-disaster recovery and DRI action at scale.



Ultimately leading to...

By 2050, over \$10 trillion of new and existing infrastructure investments and services are resilient to natural hazards and climate change through enhanced capacity, informed policy, planning, and management leading to improved quality of environment, livelihood and life of over 3 billion people

Towards achieving...

The Coalition drives an ambitious, future-focused, global and local policy and implementation agenda for DRI

Countries mainstream resilience in infrastructure development through appropriate governance and institutional arrangements

In-country institutional ecosystems deliver DRI action at scale, especially for people most at risk.

CDRI will work to...

Undertake coalition building activities
Identify opportunities for Member engagement on global platforms
Attract members from vulnerable regions

Establish clusters of excellence
Champion experiential learnings
Drive development and upgradation of standards

Leverage expertise from members
Foster, amplify and accelerate innovations
Facilitate innovative financing

Through its initiatives...

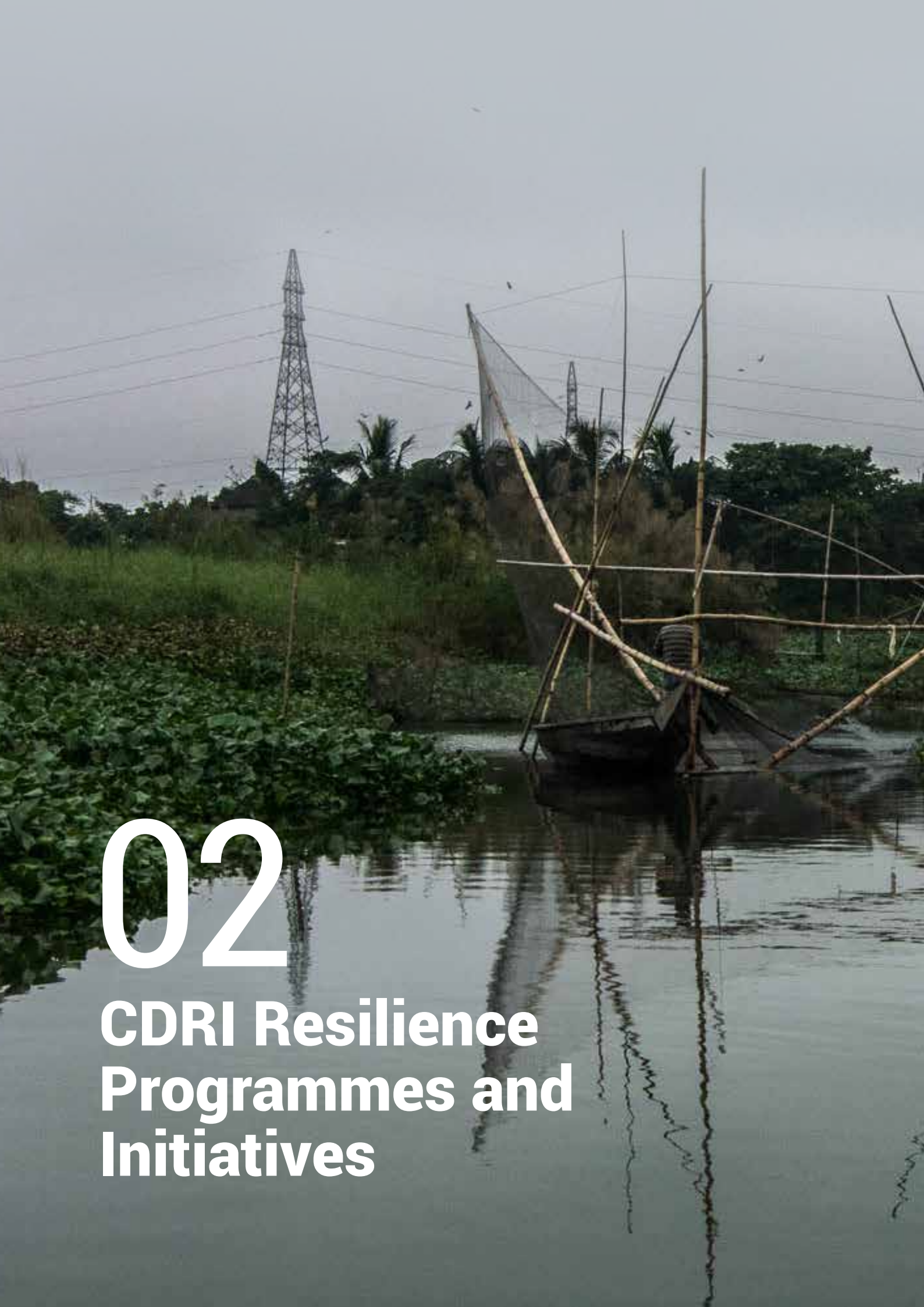


Strengthened geo-political partnerships and networks for future proofing of Infrastructure globally

Focus on gender, inclusion, vulnerable countries and populations

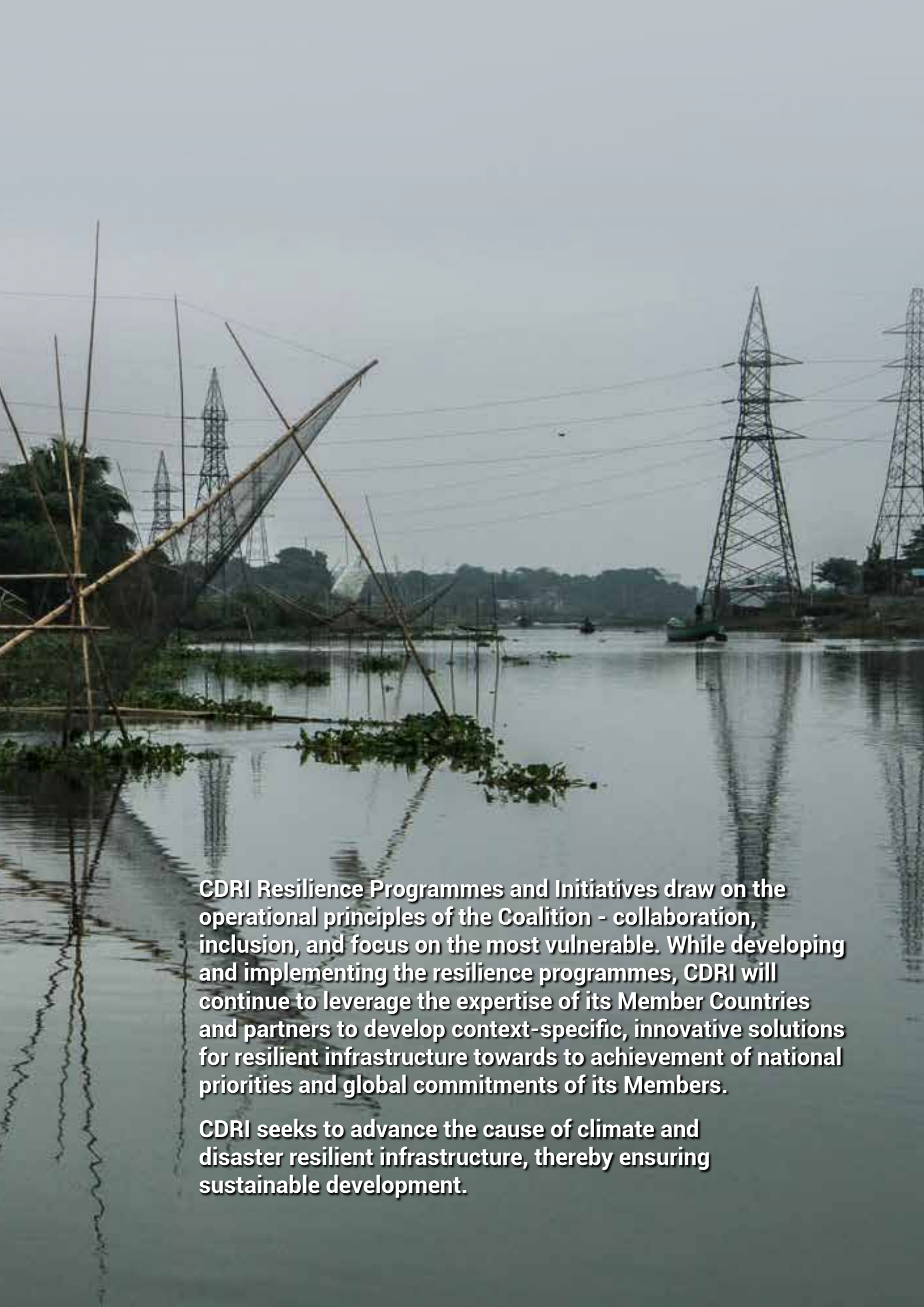
Partner Contribution: Resources + Knowledge + Skills

Assumptions: Strengthened processes and systems + Financial resources + Political will + Partner engagement and contributions



02

**CDRI Resilience
Programmes and
Initiatives**



CDRI Resilience Programmes and Initiatives draw on the operational principles of the Coalition - collaboration, inclusion, and focus on the most vulnerable. While developing and implementing the resilience programmes, CDRI will continue to leverage the expertise of its Member Countries and partners to develop context-specific, innovative solutions for resilient infrastructure towards to achievement of national priorities and global commitments of its Members.

CDRI seeks to advance the cause of climate and disaster resilient infrastructure, thereby ensuring sustainable development.

Global Infrastructure Resilience

Capturing the Resilience Dividend

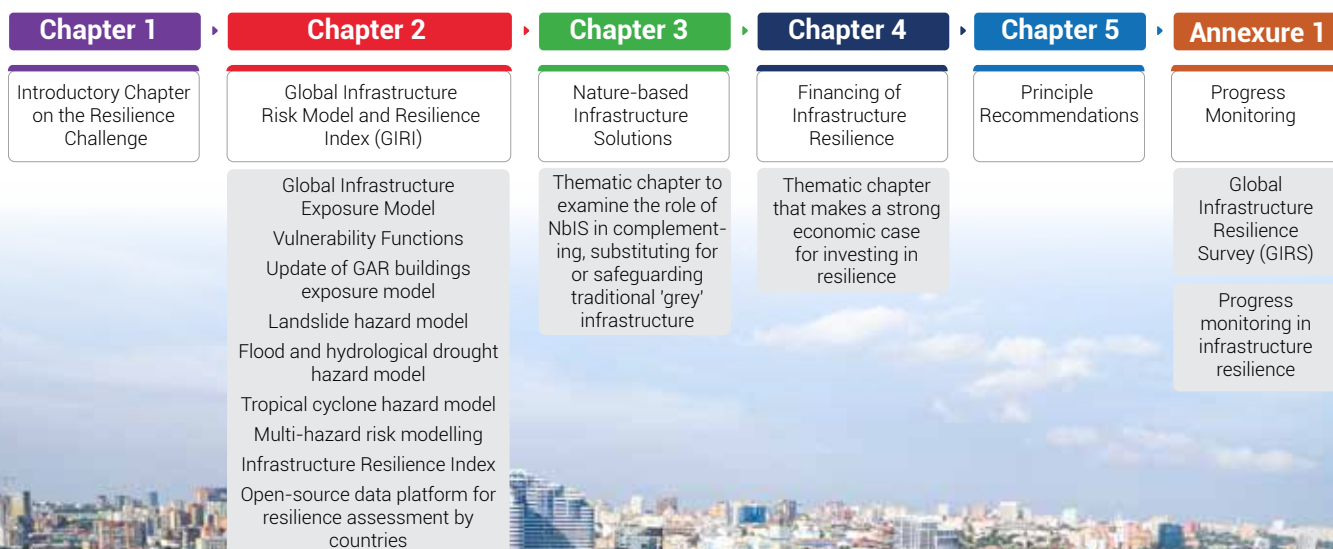
A Biennial Report from CDRI

The first edition of CDRI's flagship Biennial Report, which will be launched in October 2023, aims to focus global attention on the critical and multi-faceted challenges posed to climate and disaster resilient infrastructure. It lays out the political and economic imperative for investing in infrastructure resilience informed by in-depth analysis and evidence.

A core initiative of the Report is the first-ever fully probabilistic risk assessment model

covering global infrastructure sectors, which will equip planners, decision-makers, and investors with credible and fully comparable probabilistic risk metrics. Further, it also comprises thematic chapters on Nature-based Solutions and Financing of Infrastructure Resilience, critical elements in infrastructure planning.

The Report has been supported by global partners and a high-level International Advisory Board (IAB). The United Nations Development Programme (UNDP) has been engaged by CDRI as the key coordinating agency for the Report.



Infrastructure for Resilient Island States (IRIS)

Resilience for the Most Vulnerable

IRIS is a dedicated strategic initiative of CDRI to support Small Island Developing States (SIDS) in achieving sustainable development through a systematic approach to resilient, sustainable, and inclusive infrastructure.

IRIS aims to achieve its outcomes through nine strategic interventions which are articulated in its Vision document. The Vision document was launched in November 2022 at the COP27, Sharm El Sheikh, Egypt.

CDRI held several consultations across the Pacific and the Caribbean regions through 2022-2023 under this initiative. These include:

- Pacific consultation on the sidelines of the Thematic Consultation on Resilient Infrastructure: Sendai Framework Implementation Midterm Review
- Session at the Asia-Pacific Ministerial Conference for Disaster Risk Reduction (APMCDRR 2022)
- Caribbean Regional consultation on the sidelines of the Latin American and Caribbean Climate Week 2022



The poster features logos for CDRI, IRIS, the United Nations Development Programme, the European Union, and the Foreign, Commonwealth & Development Office. The background is a tropical island scene. The main text reads: 'IRIS Call for Proposals 2022-2023'. A blue box contains text: 'The first funding cycle of IRIS, formally announced at COP27, aims to equip relevant government agencies in SIDS with needed technical support and knowledge products related to infrastructure resilience. Funded activities will enhance informed decision-making, socially relevant technical knowledge and fit-for-purpose processes and tools for resilient infrastructure in SIDS.' Below this, it states: 'In line with IRIS outcomes, the proposed actions for this call for proposals are expected to contribute to one or more of the following: 1. Improve resilience of SIDS infrastructure to climate change and disaster risks; 2. Strengthen knowledge and partnerships for integrating resilience in SIDS infrastructure; 3. Promote gender equality and disability inclusion through resilient SIDS infrastructure.' Further down, it says: 'The call for proposal is open to all 58 Small Island Developing States' national government ministries or agencies with a mandate in disaster/climate resilience and/or infrastructure planning, financing or implementation (one or more sectors)'. A QR code is provided with the text: 'Scan the QR code for more details.' At the bottom, it states: 'The funding for a single country project can range from \$150,000 to \$500,000 and a regional multi-country project (at least 3 SIDS) can range up to \$750,000. The due date for submitting the Expression of Interest (EoI) application is 15 February 2023. Successful applicants eligible for funding will be announced in May 2023.'



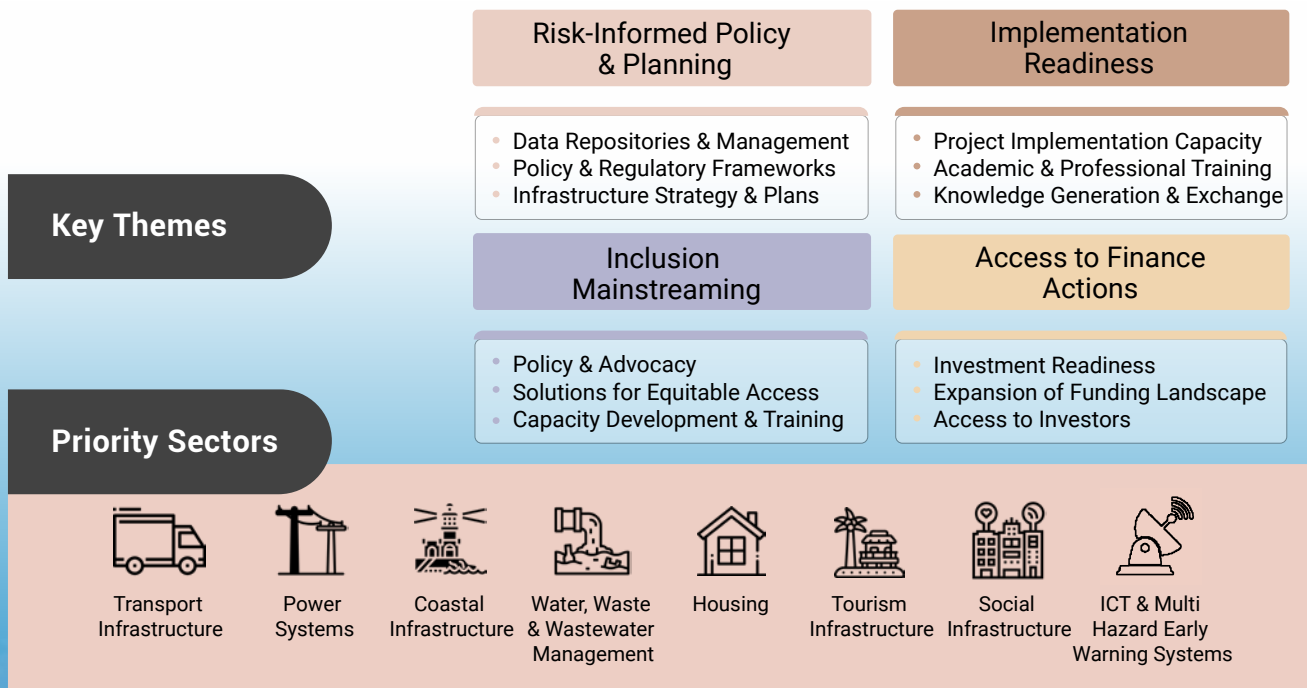
To oversee and advise on the programmatic aspects of IRIS, a 12-member Steering Committee was constituted in November 2022 with representation from the Governments of India, Australia, United Kingdom, European Union, Jamaica, Mauritius, Fiji, and organizations such as Caribbean Development Bank, Pacific Islands Forum, Indian Oceans Rim Association and Alliance of Small Island States. The IRIS Steering Committee is chaired by the Director General, CDRI.

In November 2022, CDRI successfully launched

the IRIS First Call for Proposals at COP27, inviting expressions of interest (EOI) from SIDS across the Caribbean, Pacific and Atlantic and Indian Ocean regions.

Through its first Call for Proposals, IRIS aims to equip relevant government agencies in SIDS with requisite technical support and knowledge products related to infrastructure resilience.

CDRI received a total of **50 EOIs from 28 SIDS** in response to the call for proposals.



Critical Infrastructure Resilience Programmes

Critical infrastructure sectors such as power, telecommunications, transport, and health form the foundation over which countries grow their economies. Well-functioning critical infrastructure systems are vital for the well-being of citizens, their livelihoods, and crucial in pursuance of their economic goals.

Direct losses to critical infrastructure can lead to indirect economic losses. As a result of the interconnectedness of infrastructure systems, indirect losses caused by disasters can be in multiples of direct losses, particularly in low and middle-

income countries. The failure of one interconnected infrastructure system during a natural hazard can cause a cascading effect on others, paralyzing service delivery networks.

As part of its Critical Infrastructure Resilience Programme, CDRI is developing awareness on infrastructure vulnerability and resilience among key infrastructure ministries, disaster management agencies and other stakeholders with the aim to bolster national capacities and enhance collaboration between private and public sectors to address infrastructure vulnerability and resilience.



A. Power Infrastructure Resilience Programme

Critical for Sustained Economic Growth

CDRI's Power Infrastructure Resilience Programme seeks to raise awareness and enhance the capacity of stakeholders to manage risks and take actions for risk mitigation through holistic planning, capacity building, and technical solutions.

Launched in 2020, the three-phase Odisha Power Sector Resilience Study made significant progress in FY 2022-2023.

Phase 1: The study assessed disaster preparedness and management of the power sector across multiple stages involving preparedness, survival,

recovery and restoration, reconstruction, and social and community resilience. The findings and recommendations have been shared with the Honourable Minister of State for Power, Government of India, the Odisha State Government, and relevant stakeholders across coastal states of India.

Phase 2 and 3: Both phases focus on developing a roadmap for the improvement of standards and technology selection based on a multi-hazard risk assessment.

The full report and consolidated learnings from the study will be published in 2023.

A Power sector resilience study with Chile focusing on systemic resilience and redundancy and with Brazil focusing on hydel power has been initiated.





B. Transport Infrastructure Resilience Programme

'Lifeline' of a Country

CDRI's Transport Infrastructure Resilience Programme seeks to mainstream resilience into transport management processes through risk-based infrastructure planning and investment, improvement in standards and governance, leveraging technology, and capacity building.

The programme currently focuses on the resilience of airports and seaports.

Airports

Phase 1: The first phase of the three-phase '**Global Study on Disaster Resilience of Airports**', witnessed participation of 111 airports from 54 countries. A total of 58 airports from 14 Member Countries provided inputs which helped frame an understanding of the current state of disaster risk management and resilience in airports. The study also mapped the perception of airport managers on the increasing impact of extreme weather events on the built

environment around the airports. The Report will be released at ICDRI 2023.

Phase 2: Currently in progress, the second phase is a comprehensive study of the current practices of disaster risk management and resilience and investment mechanisms towards risk and resilience financing for 12 select airports across 11 Member Countries of CDRI. It will provide a deeper understanding on aviation sector investments and non-investment bottlenecks, existing frameworks, and resilience strategies. This study will enable the development of an airport risk index for measuring the exposure, vulnerability, and adaptive capacity of airports in the face of natural and manmade hazards.

Seaports

A proposed study on the Resilience of Ports and Port Communities focusing on six SIDS (which are also Member Countries) is being designed.

Further, in collaboration with the National Maritime Foundation in India and Keio University in Japan, CDRI is working on developing a framework for systemic risk assessment for the port ecosystem in India.



C. Telecommunications Infrastructure Resilience Programme

Connecting People across Geographies

CDRI's Telecommunications Infrastructure Resilience Programme seeks to mainstream resilience principles in telecom infrastructure, both at the policy and planning level. The Programme envisages developing a business case for investments in standardized approaches for risk estimation at asset scale, network-scale, and system-scale levels, and promoting cross-sectoral collaboration and coordination.

CDRI has conceptualized a study on **National and Subnational Disaster Risk and Resilience Assessment Framework (DRRAF)** and Roadmap for the telecommunications sector. The study has been initiated in the Indian states of Assam, Odisha, Uttarakhand, Gujarat, and Tamil Nadu in FY 2022-23.

A Technical Advisory Committee with members from Japan, Italy, India and the Telecommunication Development Bureau (of the International Telecommunication Union) has been created to provide oversight and guidance to the Programme.

D. Health Infrastructure Resilience Programme

Ensuring Resilient Services

CDRI's Health Infrastructure Resilience Programme seeks to enhance the capacity of the healthcare system to prepare for, respond to and recover from extreme events, while ensuring a minimum level of service continuity during such events.

CDRI is collaborating with World Health Organization (WHO) and the Global Initiative on Disaster Risk Management (GIDRM), Germany, for an initiative under this programme, 'Resilient Health Infrastructure for Sikkim'.

Discussions are underway with the Government of Sikkim and Sikkim State Disaster Management Authority (SSDMA) focusing on four aspects - capacity building, risk and resilience assessment of health infrastructure systems, technical support, and governance and policy. The work packages for these four areas are being developed based on global good practices and will be compiled as a digital compendium.

CDRI plans to launch the Resilient Health Infrastructure for Sikkim initiative in May 2023 and scale it across Member Countries such as Nepal and Bhutan that have similar hazard and demographic profiles.

CDRI plans to launch the Resilient Health Infrastructure for Sikkim initiative in May 2023



Urban Infrastructure Resilience Programme

Ensuring Resilient and Sustainable Communities

C DRI is developing a robust Urban Resilience Programme addressing issues related to urban flooding, extreme heat, and water scarcity. The key objective is to enhance liveability within cities through better management of urban shocks, promoting resilient infrastructure and data-informed planning and decision-making.

CDRI plans to launch the Urban Infrastructure Resilience Programme in 2023.

Ongoing Initiatives

A. Urban Disaster Resilience for Cuttack, Odisha, India

In response to a request from the State Government of Odisha, India, CDRI initiated a study on urban disaster resilience for the city of Cuttack in August 2022. The study maps the current level of infrastructure resilience to floods and other hazards in Cuttack

and will provide strategic recommendations for enhancing the resilience of the city's critical infrastructure systems.

B. Urban Flood Risk Management Programme

CDRI is a part of the Technical Advisory Committee for the Urban Flood Risk Management Programme (UFRMP), managed under National Disaster Mitigation Fund (NDMF) within the National Disaster Management Authority (NDMA).

C. Water Resilience Programme at UN Water Conference

In March 2023, CDRI announced its Water Resilience Programme in collaboration with The Netherlands Government's Water as Leverage programme at the UN Water Conference. The programme will provide support to Member Countries to build, maintain and operate resilient water infrastructure systems with a focus on urban areas.



Infrastructure Resilience Accelerator Fund (IRAF)

Collective Action for Resilience



CDRI launched Infrastructure Resilience Accelerator Fund (IRAF), a dedicated international multi-partner trust fund with current financial commitments of around US\$50 million, in November 2022 at COP27, Sharm El Sheikh, Egypt.

Established with the support of UNDP and UNDRR, IRAF, with an initial duration of five years, is administered by the United Nations Multi-Partner Trust Fund Office (UNMPTFO) to support global action on disaster resilience of infrastructure systems, especially in developing countries and SIDS.

Focusing on technical assistance, capacity building, research and knowledge management, IRAF enables CDRI to achieve its mandate of promoting disaster resilient infrastructure through risk-informed investments and infrastructure development. This results in reduced vulnerability of populations and lower impact of extreme events and disasters on infrastructure systems.

One of the first initiatives to be supported by IRAF is IRIS.

The financial commitments to IRAF are as below:

- India (US\$ 10 million +)
- The United Kingdom (GBP 7.3 million)
- Australia (AUD 10 million)
- European Union (€ 5 million).

Post the launch of IRAF, the First Trust Fund Management Committee meeting approved the following:

- Inception phase for operationalization of Fund
- Annual Work Plan and Budget for the year 2023

The Memorandum of Understanding (MoU) between the participating UN organizations (UNDP and UNDRR) and the UNMPTFO has been signed. Further, the Standard Administrative Arrangement (SAA) was signed between the Government of United Kingdom and UNMPTFO on 15 March 2023 and the first tranche of GBP 100,000 received. Bilateral discussions with other donors on signing of SAAs with the UNMPTFO and fund transfer are ongoing.

Finance for Resilient Infrastructure Programme (FRIP)

Vital to Achieving SDGs

CDRI's Finance for Resilient Infrastructure Programme (FRIP) intends to support Member Countries in developing a coherent disaster risk financing strategy to address financing needs for (re)building resilient infrastructure. The Programme covers pre-disaster mitigation and post-disaster recovery phases, and augments stakeholder capacities to effectively drive the DRI agenda.

CDRI has conceptualized two Fiscal Risk Assessment (FRA) Studies and a Policy Guideline

Appraisal of National Infrastructure Pipeline (NIP) of India study:

- **The first study** will entail a fiscal risk assessment of power and transport sectors in four Member Countries (India, Fiji, Mauritius, and Nepal).
- **The second study** will be a state-level fiscal risk assessment of multiple infrastructure sectors i.e., power, road transport, housing, irrigation infrastructure, schools and hospital and other public buildings in the Indian states

of Gujarat, Himachal Pradesh, Odisha, and Tamil Nadu.

CDRI's Policy Guidelines Appraisal Project focuses on the policy guidance documents under NIP. It is set to commence in 2023 and seeks to align the guidelines with Disaster Resilience Goals formulated by NIP India Taskforce. The project has been conceptualized with the Department of Economic Affairs (DEA), Government of India, key infrastructure ministries of the Government of India, and NITI Aayog.



Infrastructure Governance

Ensuring Robust Review Mechanisms



The Programme aims to establish appropriate resilience targets and review mechanisms across Member Countries.

Since January 2023, CDRI and the United Nations Office for Disaster Risk Reduction (UNDRR) have been collaborating on an infrastructure governance project - **Enhancing Resilience**

of Infrastructure through Strengthened Governance. The project focuses on developing a standard global methodology for regulatory review of infrastructure, which would be piloted across four countries - Madagascar, Chile, Tonga, and Bhutan – for strengthening their national coordination mechanisms and policies for new and existing infrastructure.



03

**CDRI Knowledge
Initiatives**

Continued research and knowledge building is central to planning and designing infrastructure systems of the future. CDRI invests in cutting-edge research and innovation through its knowledge initiatives to identify pathways for resilient infrastructure.

CDRI seeks to facilitate knowledge transfer through a range of offerings including documentation and sharing of good practices and case studies, peer learning and fostering communities of practice.

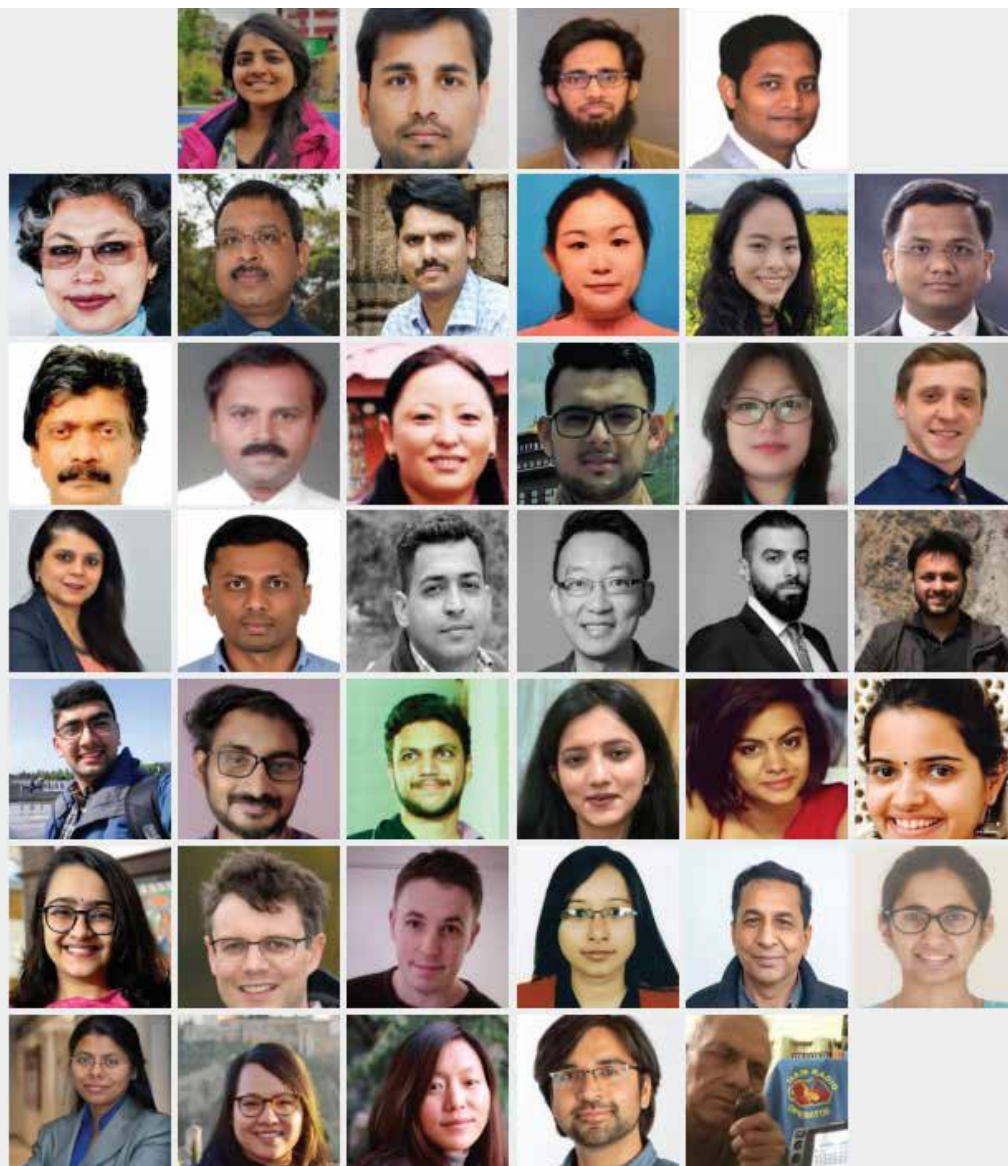


CDRI Fellowship Programme

Actionable DRI Solutions

The CDRI Fellowship Programme, a 12-month seed grant, provides financial support, peer learning, and capacity development opportunities to individuals from CDRI Member Countries designing actionable and scalable solutions for real-world problems related to infrastructure resilience.

Cohort 2021-22: The first Cohort of CDRI Fellows comprising 21 teams from nine Member Countries - Afghanistan, Australia, Bhutan, India, Nepal, Peru, Thailand, UK, and USA - have completed their Fellowship, generating an array of knowledge products and solutions covering diverse hazards. The Fellowship teams were felicitated



at a Convocation in New Delhi in October 2022.

Cohort 2022-23: The second Cohort comprising 15 teams from 11 Member Countries - Australia, Bangladesh, Bhutan, Canada, India, Chile, Japan, Peru, Sri Lanka, UK, and USA - is in the process of designing solutions to address specific issues impacting the resilience of existing and new infrastructure. The Fellowship Cohort will complete their journey in July 2023.

Cohort 2023-24: The theme for the third edition of the Fellowship Programme is 'Inclusive and

Resilient Infrastructure Amid Global Transitions', focusing on people-centered solutions, capacity building, social infrastructure, interdependent infrastructure systems, and urban infrastructure resilience. A total of 18 teams from 13 Member Countries – Bangladesh, Bhutan, Brazil, Canada, Dominican Republic, Ghana, India, Italy, Jamaica, Madagascar, Mauritius, Nepal, and Turkey – have been awarded the Fellowship for 2023-24. The third edition of the Programme is set to roll out in July 2023.

Young Professionals Programme

CDRI's Young Professionals Programme (YPP) recognizes the importance of investing in youth as vital stakeholders for a more resilient future. Since November 2022, four YPs have been contributing to the key programmes of the Coalition for advancing the cause of DRI and supporting the various functions at the CDRI Secretariat. Their contributions have added value to initiatives like DRI Lexicon, IRAX, Resilient Health Infrastructure for Sikkim, Urban Resilience and ICDRI 2023.



DRI Connect

A Digital Aggregator. Matchmaker. Convenor.

CDRI continued extensive work on the design and development of DRI Connect, its one-stop digital stakeholder engagement, learning and collaborative platform for stakeholders working towards resilient infrastructure systems. The goal is to aggregate and harvest the collective tacit intelligence of the Coalition membership and extended networks and foster an environment of peer-to-peer and action-based learning on climate and disaster resilient infrastructure. The platform is envisaged to host multiple functionalities including:

- Enabling access to aggregated and curated knowledge, innovations, and evidence for DRI, including good practices, tools, and solutions for existing and emerging issues
- Facilitating structured learning journeys via the e-Learning component
- Catalyzing connections, conversations, and collaboration among stakeholders via the Communities of Practice component
- Provide a unified learning and co-creating environment for knowledge generation and exchange targeted at enhancing the capacities of DRI stakeholders.

The platform's inclusive and responsive design ensures access for all: access to persons with disabilities and access across low network coverage areas.

CDRI plans to launch DRI Connect in 2023.



Shared Understanding of Terms that Matter in DRI

As part of its endeavour to foster a shared conceptual understanding of infrastructure-related terms and phrases, CDRI initiated the development of a Lexicon on Disaster Resilient Infrastructure in FY 2021-22.

CDRI engaged with a panel of subject matter experts from the government, the private sector, non-profit organizations, and academia representing different geographies and varied disciplines including engineering and architecture, spatial planning, finance, social sciences, and knowledge management for developing priority terms relevant for DRI.

The DRI Lexicon can:

- Serve as a starting point for incorporating preparedness, response, or recovery-related concepts and actions within infrastructure projects
- Help in standardizing concepts related to disaster resilience of infrastructure among relevant stakeholders
- Lend itself to being used by search engines, analytical software, and other information technology

CDRI aims to launch the DRI Lexicon at ICDRI 2023.



Infrastructure Resilience Academic eXchange (IRAX)

Enabling the Next Generation of Infrastructure Professionals

IRAX aims to develop a global network of academic institutions working together to foster an ecosystem of higher education promoting systemic resilience of infrastructure. The specific objectives of IRAX are:

- To develop specific opportunities for higher education and research in disaster and climate resilient infrastructure
- To create a cadre of industry ready DRI professionals

deployable within countries and regions

- To facilitate the application of research on innovative solutions on DRI in a real-world scenario.

IRAX will engage with the most vulnerable countries to strengthen professional capacity on DRI locally, with specific focus on enhancing the capacity of women professionals.

CDRI plans to launch IRAX at ICDRI 2023.







04

Advocacy and Events

The Members and partners of the Coalition play an active role in ensuring that its knowledge, experience, and resources inform global processes and platforms, to mainstream resilience in infrastructure development.

CDRI believes that progress on the DRI agenda can be accelerated most effectively through deep engagement with Coalition Members and partners, who collectively learn, innovate, mobilize resources, and collaborate, to deliver resilient infrastructure at scale. Accordingly, CDRI undertakes activities facilitating creation of opportunities and platforms for networking and collaboration on DRI knowledge-sharing, planning and action and to advocate and champion the cause of DRI.



International Conference on Disaster Resilient Infrastructure (ICDRI 2022)

May 2022

The fourth Annual International Conference on Disaster Resilient Infrastructure (ICDRI) was organized in May 2022 in New Delhi. The theme of the Conference, which was organized in partnership with the US Government, was '**Envisioning a People-centered and Resilient Infrastructure Transition.**'

In a run-up to the Conference, a series of pre-conference dialogues and webinars were organized on themes such as creating communities of practice on infrastructure resilience, resilience of seaports, resilient

hydrogen energy infrastructure, and people's participation in infrastructure lifecycle.

ICDRI 2022 was inaugurated virtually by Heads of Government from India, Australia, Japan, and Madagascar. (names and photos from the website). The three-day hybrid conference featured **25 sessions** led by over **100** global experts and thought leaders. More than **1900** participants from **66** countries registered for the conference virtually, and over **100** attended in-person. Other highlights included:



- **Featured Session** “USG Engagement and Delivery of Disaster Resilient Infrastructure Around the World” led by the United States Agency for Development (USAID).
- **Futures Session** “Accelerating Adaptation Investments for Resilient Infrastructure” led by the Ministry of Infrastructure and Water Management of the Netherlands and the Global Center on Adaptation (GCA).
- **Masterclass:** A masterclass on critical aspects of certification systems for infrastructure resilience
- **Marketplace:** A virtual Resilient Infrastructure Marketplace to showcase policy solutions, technologies, best practices, and knowledge products

The closing ceremony was graced by CDRI's Governing Council Co-chairs, Dr PK Mishra, Principal Secretary to the Honourable Prime Minister of India, and Administrator Samantha J. Power, USAID. The ceremony was attended by around 20 Ministerial-level representatives from across the globe. The dignitaries endorsed the need for climate and disaster resilience in a transitioning world, bolstered by greater cooperation between CDRI Member Countries to unlock financing opportunities, enhance expertise and capacities, and drive technological collaboration.

ICDRI 2023 – CDRI continued work on its flagship event in FY 2022-23 and plans to host the fifth edition of its annual conference in April 2023 in New Delhi, India.



Asia-Pacific Ministerial Conference on Disaster Risk Reduction (APMCDRR)

September 2022

Following the regional consultations with the Caribbean and the Pacific stakeholders in July and August 2022 under the IRIS initiative, CDRI continued the engagement with SIDS representatives through a session at APMCDRR 2022.

The session on enabling resilient, sustainable & inclusive infrastructure transitions in SIDS focused on presenting the contours of the Pacific approach for IRIS, based on the takeaways from our Pacific consultation organized in Fiji in August 2022.



DRI Technical Conference

October 2022



The DRI Technical Conference 2022, CDRI's first technical conference, brought together over 70 delegates from 20 countries, including the first Cohort of the CDRI Fellowship Programme (2021-22). A Special Issue publication - launched at COP27 in Egypt - in the international journal 'Sustainable and Resilient Infrastructure.' was a part of the event. The theme of the Special Issue publication

as well as the Conference was 'Adaptive Pathways for Disaster Resilience', with the following sub-themes:

- Dynamic disaster and climate change risk assessments for resilient infrastructure development
- Strengthening stakeholder participation and collaboration for adaptive pathways towards resilient infrastructure
- Implementation of adaptive pathways to foster resilience in complex and interdependent infrastructure systems across sectors

www.cdri.world/upload/pages/1753345695611509_202212270559drit_conference_workbook_2022.pdf



Fellowship Convocation

October 2022

Cohort 2021-22 of CDRI Fellows completed their Fellowship in July 2022 and were felicitated at the Fellowship Convocation on October 13, 2022- the International Day for Disaster Risk Reduction in New Delhi, India. The event included an experience sharing session as well as a poster exhibition.

The Convocation was preceded by a half-day in-person convening of the Fellowship ecosystem comprising the Fellows, the CDRI-appointed Technical Experts and the International Jury members to reflect on the Programme's impact.

Representatives from the Fellowship teams spanning nine countries received certificates from Shri. Mohammad Noor Rahman Shaikh, Joint Secretary, Ministry of External Affairs, Government of India, and Mr Amit Prothi, Director General, CDRI.



COP27

November 2022

CDRI engaged with global stakeholders at COP27 and emphasized the need for urgent action on fostering collaboration, sustaining momentum, and accelerating work on climate and disaster resilient infrastructure.

CDRI was invited by the Government of Egypt for the launch of two key initiatives, *Decent Life for a Climate Resilient Africa* and *Friends of the Greening National Investment Plans in Africa and Developing Countries*.

In addition to leading eight sessions, CDRI co-curated and partnered on sessions





with the Commonwealth Secretariat, Ministry of Environment, Forests and Climate Change (MOEFCC) Government of India, Natural Resources Defense Council (NRDC), EU, UNOPS, Water Equity, Danone, and IFC, among others. The session themes included health infrastructure, climate resilient transport, disaster risk financing and water infrastructure.

Key Highlights

- **Launch** of Infrastructure Resilience Accelerator Fund (IRAF), a multi-partner trust fund for climate and disaster resilient infrastructure
- **Launch** of Infrastructure for Resilient Island States (IRIS) First Call for Proposals for accelerated

action on resilience of infrastructure in SIDS

- Building Resilient Infrastructure for the Future, a **Presidency session** that deliberated on CDRI's Biennial Report on Global Infrastructure Resilience
- CDRI was the **co-lead** on the Infrastructure, Energy, and Mobility theme at the COP27 Resilience Hub
- **Launch** of Community of Practice on Resilient Infrastructure for Energy Transition led by CDRI, World Meteorological Organization (WMO), International Energy Agency (IEA) and International Atomic Energy Agency (IAEA)
- **Launch** of Adaptive Pathways for Resilient Infrastructure – A Special Issue



G20

October 2022

India's G20 Presidency has invited CDRI to participate as a guest International Organization in the Sherpa, Finance and Central Bank Deputies meetings (FCBD) and Ministerial meetings as well as in four G20 Working Groups: Infrastructure, Sustainable Finance, Disaster Risk Reduction, and Environment and Climate Sustainability.

India has identified Disaster Risk Reduction as one of the priority areas to encourage collective work, multi-disciplinary research, and exchange of best practices on DRR. CDRI's contribution in G20 Disaster Risk Reduction Working Group is focused on the resilient infrastructure priority.

CDRI organized a side event at the 1st DRRWG meeting '**Disaster Resilient Infrastructure: Insights for the G20**' in March 2023. The side event convened sector experts to discuss the evolving landscape of disaster risk and infrastructure resilience and its implications for G20 nations. The discussions emphasized the importance of equitable and informed investments in infrastructure, driven by a nuanced understanding of gender impacts of infrastructure decisions.



DRI Deliberations

Dialogues, Seminars,
Workshops, Training
Sessions

Building Disaster Resilient Seaports Exploring Adaptation in Practice

April 2022

This DRI Dialogue discussed challenges, best practices, and opportunities in **development of disaster resilient seaports**. Speakers from international organizations, government agencies and think-tanks in the maritime sector emphasized the importance of adaptation actions in seaports and associated systems in the wake of frequent and extreme disasters exacerbated by climate change.

National Seminar on Urban Flood Mitigation

September 2022

CDRI and National Disaster Management Authority (NDMA) organized a **National Seminar on Urban Flood Mitigation**, providing technical support for drafting technical guidelines under the urban flood risk management programme. The participants highlighted the need for Early Warning Systems, land use planning, reservoirs, and employing structural flood mitigation measures.



Workshop on Training, NIDM

November 2022

CDRI participated in a consultation workshop on **'Training of Trainers (TOTs) Development Strategy in DRR Capacity Building: Consultation and Planning Process'** at National Institute of Disaster Management.

Roundtable on Heat

December 2022

CDRI hosted a roundtable discussion on **'Building Resilience to Heat Extremes Opportunities and Way Forward'** and initiated landscape research on extreme heat to curate CDRI's future interventions in the urban heat domain.

Virtual Workshop on Power

January – February 2023

CDRI in collaboration with Quad Infrastructure Coordination Group organized a two-day virtual workshop for strengthening the **Capacity of Power Sector Practitioners in the Indo-Pacific Region**. Discussions focused on strengthening disaster risk governance of critical power infra in Pacific & Indian Ocean Island States. Participants from the region, including utilities, power sector practitioners, policymakers & domain experts from Australia, India, Japan, & the USA attended the workshop.



Orientation Session (IRIS)

March 2023

CDRI conducted an orientation session on the IRIS initiative at the Engineer's Day Workshop in collaboration with the University of Mauritius.



Health Infrastructure Workshop in Sikkim

March 2023

Under the Health Infrastructure Resilience Programme, CDRI organized a multi-stakeholder consultation workshop on '**Resilient Health Infrastructure for Sikkim**' in coordination with the Sikkim State Disaster Management Authority (SSDMS) and World Health Organization (WHO). The meeting was attended by officials representing Government of Sikkim, senior members of the SSDMA, and officials from Health and other line departments.



Training Sessions for Capacity Development

CDRI seeks to augment the capacity of the governments, private sector, and other organizations in ensuring resilient infrastructure by facilitating trainings and projects under its capacity development initiatives.

CDRI organized two Training Sessions in FY 2022-23:

Training session on the '**Economic Importance of Climate and Disaster Resilient Infrastructure**' during a workshop held by The Institution

of Engineers Mauritius and the University of Mauritius. Over 100 participants attended the virtual training session.

Training session on '**Pursuing the Resilient Infrastructure Agenda**' for 35 foreign government officials (country representatives) on 'Project and Risk Management for Public Works'. The session, focusing on urban, transport and telecom infrastructure, was conducted by Indian Institute of Public Administration (IIPA) with support from the Indian Technical and Economic Cooperation (ITEC), a capacity-building programme of Ministry of External Affairs, Government of India.



DRI Dialogue Series on Nature-based Solutions (NbS)

November 2022, December 2022, January 2023

CDRI, in collaboration with the United Nations Environment Programme (UNEP), conducted a three-part DRI Dialogue series on **'Implementing Nature-based Solutions (NbS) for Climate and Disaster Resilient Infrastructure'**.

DRI Dialogue 1: Understanding Nature-based Solutions for Resilient Infrastructure

Part 1 aimed to create an opportunity for relevant stakeholders to understand challenges and opportunities for investing in NbS for resilient infrastructure.

DRI Dialogue 2: Nature-based Solutions for Resilient Infrastructure - How do we know it will work?

Part 2 focused on implementation strategies for NbS and saw experts delve into aspects of data, scientific & evidence-based approaches to capture economic, social & environmental benefits from integrating NbS.

DRI Dialogue 3: Financing NbS – Who is willing to pay?

Part 3 addressed opportunities for garnering finance to integrate NbS within infrastructure transitions, facilitating enhanced private sector investment in grey-green infrastructure projects and best practices on incentives, mechanisms, approaches and policies that have enabled financing for NbS for resilient infrastructure.





05

Financial Statement



During FY 2022-23, the Coalition has been supported by the Government of India (GoI) and the Government of the United Kingdom. Contributions from the European Union, USA and Australia are also expected during 2023 in Infrastructure Resilience Accelerator Fund (IRAF), CDRI Multi-Partner Trust Fund, managed by the United Nation Multi-Partner Trust Fund Office (UN MPTFO), New York and hosted by UNDP Crisis Bureau Office, Geneva.

The Government of India has sanctioned a grant of INR 480 crores (approx. US\$ 58.43 million) towards operational and

programme activities of CDRI over a period of 5 years during 2019-20 to 2023-24. The Ministry of Home Affairs, GOI is the main donor for the Financial Year 2022-23, CDRI incurred a total expense of INR 32,25,26,734 (approximately US\$ 3.93 million). Approx. 22% of the expenditure was incurred towards the establishment of a fully functional Secretariat with key staff to drive operations and remaining for programmes with a futuristic outlook. Additionally, GBP 165,000 was received from the Government of UK during the year towards the development of the Global Flagship Report on DRI.

Statement of Receipts, Disbursements and Fund Balance

(01 US\$ = INR 82.1533 as on 31 Mar 2023)

Particulars	Amount	
	(INR)	(US\$)
Opening Balance unutilized grant balance (as at 01 st April 2022)	37,93,92,958	4,618,110
Receipts		
Grants Received	51,58,56,500	6,279,194
Bank Interest	91,64,970	111,559
Total Receipts (Opening Balance + Receipts)	90,44,14,428	11,008,863
Utilization		
Fund Utilized by CDRIS during the year 2022-23	32,25,26,734	3,925,913
Total Fund Utilization	32,25,26,734	3,925,913
Closing unutilized grant balance with CDRI (As at 31 st March 2023)	58,18,87,694	7,082,950



06

Life at CDRI

















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