Hiring of an Agency to Host and Maintain the Global Infrastructure Risk Model and Resilience Index (GIRI) Data Platform

1. Background

About CDRI

The Coalition for Disaster Resilient Infrastructure (CDRI) is a partnership of national governments, UN agencies and programmes, multilateral development banks and financing mechanisms, the private sector, and knowledge institutions that aims to promote the resilience of new and existing infrastructure systems to climate and disaster risks in support of sustainable development.

- **Vision**: CDRI seeks to rapidly expand the development and retrofit of resilient infrastructure to respond to the Sustainable Development Goals (SDGs), of expanding universal access to basic services, enabling prosperity and decent work.

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

- **Impact (that CDRI aims to achieve)** 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.

CDRI Mandate & Value Proposition

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 to international policy forums. Internationally agreed-upon goals in the SDFRR, the SDGs, and the Paris Climate Agreement provide the foundational framework that guides the Coalition's vision and mission.

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 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 of its members and partners.

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.

Strategic Work Plan 2023-2026

CDRI's Strategic Work Plan 2023-26 describes the broad contours of its priority actions and planned initiatives in the next four years. The Strategic Work Plan sets out a clear direction for the Coalition to pursue a transformational agenda for DRI in response to a changing risk landscape and evolving on-ground realities of its members. In the next four years, the Coalition will continue to leverage the expertise of its Member Countries and partners to develop context-specific, innovative solutions for resilient infrastructure towards the achievement of its members' national priorities and global commitments. With the Strategic Work Plan for 2023 – 2026, CDRI has set out the following strategic outcomes.

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.

CDRI Headquarters (Secretariat)

The CDRI headquarters was established in New Delhi, India, to act as the Secretariat of the Coalition. The Secretariat functions under the direction of the International Governing Council (GC) and Executive Committee (EC) to implement the programmes and initiatives of CDRI. For more information, please visit https://cdri.world/

2. Purpose of this Assignment

The Coalition for Disaster Resilient Infrastructure (CDRI) is seeking proposals from qualified agencies to improve maintain and update the Global Infrastructure Risk Index (GIRI) platform. The GIRI launched at COP 28 in December 2023, is a comprehensive data platform enabling remote users to visualize, query, download, and analyse the infrastructure risk information. The platform was officially handed over to CDRI at the end of July 2023, followed by an extensive feedback phase involving CDRI staff and external experts, concluding in November 2023.

3. Scope of Work

The selected agency will be responsible for:

1) Improvements of the platform and content

 i.   Improvise the thematic content (maps, dashboards, texts, etc.)
 ii.   Addition of new sections/tabs (e.g., FAQ)

iii. Improvise the functionality of the platform as per the feedback received from peer reviewers of GIRI first edition

iv. Review, validate, and prioritize specific requests documented by CDRI

2) Hosting and maintenance of the platform

- **Basic Hosting**

i. System configuration: The system runs on virtual machines (VMs) on a VmWare and is containerized using Docker-compose technology.

ii. Technical Architecture and Requirement:

Host 1 (Application Server):

- System: Ubuntu 22.04.3 LTS
- Memory: 32GB (expandable)
- vCpu: 8 (expandable)
- Disk Storage: 200GB (expandable)
- GIS data: 500 GB NFS (No size restrictions)

Host 2 (Database Server):

- System: Ubuntu 22.04.3 LTS
- Memory: 8GB (expandable)
- vCpu: 4 (expandable)
- Disk Storage: 20GB (expandable)

Technology Stack:

- Portal: Docker stack for Drupal 10, Nginx, MySQL running on Host 1
- Business Intelligence: Docker stack for Apache Superset and PostgreSQL on Host 1
- GeoServer: Docker, running on Host 1
- Database for Statistical Data: PostgreSQL 15.2 on Host 2
- MapX

iii. Back-up strategy: Provide weekly, monthly, quarterly, and yearly backup strategies.

iv. Security: Ensure the security of the hosting server environment by implementing robust security measures for e.g. designing and implementing access controls, network security configurations, encryption mechanisms, and continuous monitoring to detect and respond to security threats.

v. System Monitoring: Setting up of proactive monitoring and alerting systems to continuously monitor the performance, availability, and security of the server environment, ensuring prompt detection and response to any issues or threats.

vi.   Support and follow-ups for specific services: Upgradation of products such as MapX, Apache Superset, PostgreSQL/PostGIS, Apache/PHP, Tomcat, GeoServer, Technology stack, VMs OS.

vii.   Setting up a replica instance of the GIRI Platform for testing purposes.

viii.   Handover of the platform at the end of the contract. CDRI will retain ownership of the platform along with data stored or processed on the hosting server.

- **Maintenance**

i.   Consumption, maintenance, and proactive management of the servers, software, and the GIRI application

ii.   Installation of critical updates

iii.   Management of cartographic content (data and metadata) on MapX

iv.   Dashboard management, such as country profile dashboards managed by Apache Superset

v.   Thematic content management (articles, documentation, news) by the Drupal CMS

vi.   Extended (mid-term services) including rapid resolution of any additional specific problems or needs

3) Dissemination and Capacity Building

- **Needs-based Requests**

i.   Delivering demonstrations, training, and capacity-building sessions in member countries and for partners

ii.   Hybrid or in-person participation as needed

iii.   Participation in events/conferences to demonstrate GIRI

- **Meetings/Trainings for CDRI Staff**

i.   Provide training sessions as needed

4. Submission:

Please share proposals in two separate PDF files:
1. Technical Proposal:

Interested agencies should submit a technical proposal that includes the following:

i.   **Company Profile:** An overview of the agency, including relevant experience and expertise in developing and maintaining similar data platforms.

ii.   **Technical Approach:** A detailed description of the proposed approach to host and maintain the GIRI platform.

iii.   **Project Team:** Details of the key project staff, including their roles, qualifications, and relevant experience.

iv. **Timeline:** An estimated timeline for the proposed enhancements and maintenance activities.

2. *Financial Proposal.*

i. A detailed cost estimate for the proposed work, including a breakdown of costs by activity per year for two years starting September 2024.

ii. **The Financial Proposal pdf should be password protected. The password for FINANCIAL PROPOSAL MUST NOT BE SHARED ALONG WITH PROPOSAL. The password for the financial proposal will be requested separately.**

5. Evaluation Criteria

i. The agency will be selected following a Quality Cum Cost Basis (QCBS) of selection.

ii. Proposals shall be evaluated as follows: **Evaluation Criteria for Technical Bids 100 points:**

S N	Evaluation Criteria	Maximum Marks
1	**Company Profile:** An overview of the agency, including relevant experience and expertise in developing and maintaining similar data platforms.	30
2	**Technical Approach:** A detailed description of the proposed approach to host and maintain the GIRI platform.	50
3	**Project Team:** Details of the key project staff, including their roles, qualifications, and relevant experience.	20
Maximum Marks		100

Rating Multiplier	
Level of Responsiveness	**Rating**
Irrelevant	0%
Poor	25%
Satisfactory	50%
Good	75%
Excellent	100%

iii. The applicant scoring more than 70% in the technical evaluation shall be considered for financial evaluation. 80 % weightage will be awarded for the Technical Proposal, and 20% weightage will be awarded for the Financial Proposal. Technical Bid will be assigned a technical score (Ts) out of a maximum of 100 points.

iv. The agency's Financial Scores (Fn) are normalized as per the formula below: $Fn = Fmin/Fb * 100$ (rounded off to 4 decimal places) Where,

Fn = Normalized commercial score for the agency under consideration

Fb = Absolute financial quote for the agency under consideration

Fmin = Minimum absolute financial quote

The formula for final evaluation:

Composite Score (S) = Ts * 0.80 + Fn * 0.20

v.   The agency with the highest Composite Score (S) would be considered for the award of the contract and will be called for negotiations if required.

6.   Other Terms & Conditions

i.   The proposals should be valid for 90 days after the final submission date.

ii.   CDRI reserves the right to cancel this call for proposal before or after the receipt of proposals or after opening the proposal and call for fresh proposals. CDRI also has the right to reject any proposal without assigning any reason.

iii.   Proposals incomplete in any respect will not be considered.

iv.   Please note that the agency must clearly disclose the contractual and payment terms in its proposal.

The agencies are requested to submit their proposal through email to tender.projects@cdri.world **by 23:59 hrs (IST) on 15 July 2024.** Responses received after the stipulated time or not in accordance will be summarily rejected.

Please ensure that your proposal is sent **ONLY** to ABOVE MENTIONED **email ID** before the closing date & time. Proposals sent/copied to any other email ID (other than above) OR received after the bid closing date & time (mentioned above) will not be entertained.

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