

# **DRI Technical Conference 2022**

## **Adaptive Pathways for Resilient Infrastructure**

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12-13 October 2022, New Delhi, India

### **About Technical Conference**

The Coalition for Disaster Resilient Infrastructure (CDRI) aims to bolster global thinking and action on Disaster Resilient Infrastructure (DRI) through knowledge creation, curation and dissemination.

With this background, CDRI is organizing a technical conference, **DRI Technical Conference 2022**. The conference will be complemented by a Special Issue of the Sustainable and Resilient Infrastructure journal, on the theme **Adaptive Pathways for Resilient Infrastructure**. The initiative aims to promote multidisciplinary approaches for disaster and climate resilient infrastructure that has traditionally straddled several domains.

**DRI Technical Conference 2022**, will bring together researchers, practitioners and policy makers working in disaster and climate resilient infrastructure (DRI) to exchange, review, critically assess and evaluate pertinent issues. The 2022 conference aims to produce a defining narrative on **Adaptive Pathways for Resilient Infrastructure** and identify avenues for future research and policy planning for disaster and climate resilient infrastructure. The technical conference will feature presentations by leading researchers, thought provoking discussions, and debates on developmental and policy matters that the world must focus on.

**DRI Technical Conference 2022** will be held in person on **12 -13 October 2022, Delhi, India**, to commemorate the **International Day for Disaster Reduction**, and parts of which will be broadcasted live.

### **Call for Abstracts**

Today, uncertainty is increasing in the external environment. This is characterized by climate change and disaster risks, dynamic geopolitical situations, market conditions and changing behaviour of people. Under this dynamic context, societies need to make long-term infrastructure investment decisions.

Building climate and disaster resilience in infrastructure systems is essential for long-term sustainable development and safety of investments. However, such efforts require dealing with uncertainties, and understanding causes and impacts of disasters through holistic, systemic, and multi-disciplinary analysis. They will also require making risk informed decisions and shifting planning processes from static to dynamic, for reliability of critical services under acute shocks and stresses triggered by climate change and disasters.

Adaptive and integrated disaster resilience is defined as the ability of nations and communities to build resilience in an integrated manner and strengthen mechanisms to build system adaptiveness. It provides the ability to deal with complexities and uncertainties by designing institutional processes that function across scales, sectors, to engage with multiple stakeholders and to promote social learning <sup>[1]</sup>. In addition, adaptive pathways for resilient infrastructure aims to integrate flexibility into infrastructure planning and is more relevant for large-scale, long-term infrastructure projects. Depending on future states and dynamics, adaptive pathways highlight a series of actions which can be implemented progressively <sup>[2]</sup> for inclusive and resilient infrastructure.

While there are several success stories of adaptive pathways in real-world settings, mainly in large-scale infrastructure projects, e.g., Rhine Delta, there is yet a gap in the adoption of this approach in dealing with uncertainty in different scales, contexts, governance, resource and cultural settings <sup>[3]</sup>. Drawing from the insights of Mexico City on adaptive pathways and coupled infrastructure, history also demonstrates that the very best solutions today may present critical challenges for tomorrow and that collectively people have far more agency and influence over complex systems <sup>[4]</sup>.

In the context of DRI Technical Conference 2022, abstracts are invited highlighting solutions related to uptake and implementation of adaptive pathways and fostering resilience of infrastructure systems to disasters and climate change.

**Abstracts are invited on the following themes:**

- **Dynamic disaster and climate change risk assessments for development of resilient infrastructure.**
- **Strengthening stakeholder collaboration for adaptive pathways for resilient infrastructure.**
- **Implementation of adaptive pathways in and across sectors (telecommunication, power, transportation, health, urban, etc.) fostering resilience in complex and interdependent infrastructure systems.**

Contributions and abstracts are invited from delegates:

- Who have been consistently engaged in building knowledge on the theme and subthemes
- Who have intensive experience of shaping national, regional, and global policies on disaster and climate resilient infrastructure
- Who have on-ground experience of engaging with issues of adaptive pathways for disaster and climate resilient infrastructure

Contributions in the form of papers may include case studies, literature review, original research, scientific articles, policy analyses.

## **Submission Process**

As an expression of interest for participation, CDRI invites abstracts from delegates clearly proposing relevance to the conference theme and subthemes.

### **1. Submission of abstracts by 23:59 IST, 15 August 2022**

Please submit an abstract of maximum 600 words, including up to 5 keywords online via the submission form (T&F website). Abstracts will be reviewed by eminent experts, and upon selection the delegates may be invited to provide a detailed background paper or detailed proposal to be presented at the technical conference.

### **2. Notification of decision on abstract by 19 August 2022**

Author(s) will be notified of the decision on approval of abstracts by above mentioned date. Selected author(s) will be invited to submit a detailed background paper or detailed proposal to be presented at the technical conference.

### **3. Submission of detailed papers and presentation by 23:59 IST, 10 September 2022**

Author(s) will have to submit and present detailed papers or proposals, to be invited in-person at the conference. Full papers must not exceed 3000 words (including all references, tables, and illustrations). Paper template will be provided.

**Please note**, submission of detailed papers does not guarantee invitation and presentation at the technical conference, and final decision will rest with CDRI. Author(s) are highly encouraged to submit detailed papers well before the deadline.

### **4. Invitation to present full paper at conference by 15 September 2022**

Following a review on quality of paper, credentials and relevance to the theme and subthemes of the conference, final decision to present in-person at the conference will be communicated to author(s) by above mentioned date.

### **5. Publication of accepted proposals**

Post conference, authors of accepted papers will have a choice of further publishing their paper as indexed Conference Proceedings alongside extended Special Issue of the Sustainable and Resilient Infrastructure journal, published by Taylor and Francis.

**Date of Conference:** 12-13 October 2022 (Residential event)

**Venue of Conference:** New Delhi, India

**Fees:** There is no registration fee for conference. visa, travel and accommodation of invited authors may be sponsored by CDRI.

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