

Opening Session 1

Stage Setting

11:00 – 12:15

Tuesday, 19th March 2019

Taj Mahal Hotel, New Delhi

IWDRI 2019

The Panel

Chair

- Dr K.VijayRaghavan, Principal Scientific Advisor, Government of India

Speakers

- Kamal Kishore, National Disaster Management Authority, India
- Prof Jim Hall, Environmental Change Institute, University of Oxford

Discussants

- Ms Alice Hill, Hoover Institution, Stanford University
- Prof Anand Patwardhan, University of Maryland School of Public Policy
- Mr Andrew Maskrey, Risk Nexus Initiative

Session Format

This session will begin with an *Introduction to IWDRI and overview of CDRI* by Mr Kamal Kishore, National Disaster Management Authority, India and a keynote presentation by Prof Jim Hall, Environmental Change Institute, University of Oxford followed by a panel discussion.

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Overview

The session will reflect on the big-picture scale of risks to infrastructure systems. The discussion will explore the 'systems approach' and policy responses required to enhance infrastructure resilience and address the need to bring resilience analysis 'upstream' in the infrastructure decision making process. This session will look at the adaptation of globally interconnected infrastructure systems in light of dynamic risks presented by climate change.

Keynote address:

Professor Jim Hall

Environmental Change Institute, University of Oxford

Infrastructure systems worldwide are threatened by extreme events and the chronic impacts of climate change. There must be increased attention to how these systems can be adapted. This talk will present an analysis of climate risks to infrastructure at country and global scales. It is proposed that infrastructure adaptation should be thought of at three different levels that incorporate (i) physical adaptations to climate-proof infrastructure assets (ii) adaptations to the systems that operate on infrastructure networks, so that they are more resilient to disruption and (iii) long term planning to ensure that infrastructure investments avoid hazardous locations and do not build up exposure for the future. Through the talk, there will also be a demonstration of methodologies based on big data analytics and systems modelling that can help to pinpoint vulnerabilities in infrastructure networks and prioritized adaptation interventions.