



विज्ञान एवं प्रौद्योगिकी मंत्रालय
MINISTRY OF SCIENCE AND TECHNOLOGY



Strategic Cooperation

Organizing Partner

Programme Cooperation



Resilience and Sustainability Summit: Vision 2047

“जलवायु और आपदा संकट से संरक्षा: पर्यावरण स्थायित्व की ओर” शिखर सम्मेलन ०१

Science Policy Planning Implementation Interface for DRR in Changing Climate

Focusing on Good Practices and Case Studies on Disaster Risk Reduction

17th – 19th January 2023; Time: 09:30am – 5:00pm

Venue: Vigyan Bhawan, New Delhi



Pre-Events

Organizers

Committee



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CONCEPT NOTE

Technical Collaboration



INDIAN CHAMBER OF FOOD AND AGRICULTURE



National Coalition of Humanitarian Agencies in India



UN & International Agencies



UNITED NATIONS UNIVERSITY



Academic Cooperation



Knowledge Partners

SPRINGER NATURE



International Society of Environmental Botanists



भारतीय राष्ट्रीय अभियांत्रिकी अकादमी
Indian National Academy of Engineering

Background:

India and the region is among the highly disaster prone geographies of the world, witnessing disasters as regular features of damage & loss events. Year 2021 itself recorded 432 disastrous events related to natural hazards, incurring economic losses of 252.1 billion USD. Overall, 10,429 people were killed and 101.8 million people were impacted globally (EMDAT, 2021). With changes in the land-use and landscape, degradation of environment, societal & technological changes, coupled with impact of climate change, disasters have been ever increasing in terms of occurrence and impacts. Disaster damages & losses have huge economic consequences particularly owing to impacts on infrastructure, ecosystems, and resources of people. Over the years, non-economic, systemic and cascading effects of wide range of disasters have enhanced the understanding of disaster management and led to focus on underlying causes of risk and vulnerability. Greater emphasis is now towards concerted efforts of risk proofing developmental planning and practices. This requires:

- Development of holistic understanding of safety and sustainability that assimilates realisation of climate change and extreme events as major contributors of disaster losses & damages
- Integration and synergy of disaster risk reduction policy and practices

The world is undergoing huge transformations with disruptive changes - in science-technology and also in social settings and values. It is also witnessing innovations in disaster management and in finding solutions to climate change induced challenges. India's vision 2047, under the Azadi ka Amrit Mahotsav, recognizes the contexts of changing horizons of disaster risks along with weather extremities and likely black swan events including health epidemics and human-induced disasters, etc. It also recognizes the advances in early warning systems and risk communications, local level preparedness and capacities, and sectoral emphasis towards resilience in infrastructure, cities, industries and in communities in general.

India has taken big strides and leadership initiatives in promoting disaster management and sustainability. Coalition of Disaster Resilient Infrastructure (CDRI) and International Solar Alliance (ISA) are a few examples of that. India's National Institute of Disaster Management (NIDM) is a unique, professional think tank and capacity building establishment that supports all sectoral Ministries of the Government. National Disaster Management Authority (NDMA) is the apex authority chaired by the Prime Minister and has a unique tiered institutional framework covering states/UTs and district level network, and other key stakeholders that included international and regional interventions as well. Besides, Disaster Management Act (2005), the National Policy on Disaster management (2009), the well laid National Disaster Management Plan (2019) and the ambit of Prime Minister's 10 Point Agenda on Disaster Risk Management are key guiding forces of India's disaster risk management accelerations.

India is a signatory to Sendai Framework for Disaster Risk Reduction (SFDDR). The country has emerged as a key strategic player because of its strength in providing training & capacity building, its regional, multilateral and bilateral cooperation efforts and sharing of lessons &

good practices. The Asia Pacific Ministerial Conference on Disaster Risk Reduction (APMCDRR) also reiterates and reaffirms the commitments of the participants to SFDRR by transforming the Asia-Pacific region's future through disaster risk reduction.

There are important other international and national policies and calls, that followed SFDRR in the subsequent years e.g., the UN decade on Ecosystem Restoration. These paved the way for achieving sustainability through economic and environmental development and social inclusion. Despite having the ability to address the present challenges, their potentials are yet to be realised to their fullest. The task at hand is so mammoth that requires multiple interventions at various levels. The present global talks also argue the need for practical, effective, and efficient localization of the targets in the 'Decade of Action'. Localization of the resilience agenda has been advised by almost all the global development agendas-including concerning DRR and climate change focussing to achieve the related targets by 2030.

Science & Technology has played a substantial role in disaster and risk management through effective early warning and forecast, strategic innovations, disruptive technologies, artificial intelligence, robotics, green technology etc. As Disaster Management has gone through a paradigm shift from 'response and relief centric' approach to 'prevention-preparedness and mitigation' centric approach, DRR initiatives at local and regional levels have become more inclusive and integrated. Policy advocacy, effective governance models and S&T innovations have played crucial role in achieving that. Globally many examples of successful on-ground pilots exist, however, upscaling and replication of such success stories and best practices needs to be documented for large scale integration and implementation.

NIDM has undertaken strategic discourses and endeavours in the recent past in sync with the Hon'ble Prime Minister's 10 point Agenda on Disaster Risk Management which are: (i) International Conference on Science, Technology Research-Policy-Practice Interface for Climate Risk Management on 25-27 August 2020 (https://nidm.gov.in/PDF/pubs/CAP-RES_NIDM.pdf) (ii) High Level Policy Dialogue on Localising Climate Resilience Agenda: Vision 2050 and 2100 (LOCC-RES 2100) during 2-3 September 2021 (https://nidm.gov.in/PDF/pubs/CAP-RES_NIDM.pdf) and (iii) High Level Policy Round Table on Science-Technology and Innovation Policy for DRR on 6 January 2022 (https://nidm.gov.in/pdf/trgReports/2022/January/Webinar_06January2022akg.pdf). Additionally, with the support of Department of Science & Technology (DST) GoI, NIDM has been implementing the project 'Climate Adaptive Planning for Resilience and Sustainable Development in Multi-Hazard Environment (CAP-RES)' an umbrella project that tries to establish a science-policy-practice interphase.

Gaining insights and consolidating the lessons learned from the previous endeavours, NIDM in collaboration with Department of Science & Technology (DST) GoI, along with the partners - United Nations Development Programme (UNDP), GIZ- India and others across the United Nations bodies, multi-laterals, academia, international NGOs is organising the "Resilience and Sustainability Summit: Vision 2047 (RSSummit 2047), Science-Policy-Planning-Implementation Interface for DRR in Changing Climate" on 17th -19th January 2023 at Vigyan

Bhawan, New Delhi, India. The summit will also bring in wide range of Good Practices and Case Studies on DRR from around the globe and in context of India's leadership roles in DRR.

In the present 75th year of India's Independence the country is celebrating 'Azadi ka Amrit Mahotsav, reaffirming its commitments for Atmanirbhar Bharat while also emerging as a leader for the G20 presidency. The outcomes of the present summit is going to be crucial for these events and commitments. The themes of RS Summit 2047, comprising LiFE (Lifestyle for Environment), inclusive, equitable and sustainable growth, skill mapping, climate financing, circular economy, disaster risk reduction and resilience and cooperation as a broad framework directly relate to India's strategic discourse in leading G20 priorities.

The 'RSSummit 2047' deliberations are expected to lead to the identification of key contexts of futuristic 'risk and resilience' along with a realistic roadmap for 'localization' agenda under an integrated strategic-framework. Besides showcasing SFDRR and regional cooperation initiatives, this would be an apt occasion to present recent, past and proposed initiatives lined up including those relating to G-20 Summit, UN Decade for Eco-restoration, and UN Convention to Combat Desertification (UNCCD) etc. Special sessions, high-level panel discussions and technical presentations will be held during the 3 day event. The best presentations will also get awarded. A special High-Level Session on G-20 lead contexts for DRR and resilience would also be organised.

Objectives of the Summit:

The Summit has a futuristic vision and will provide a platform for exchange of good practices and case studies on Disaster Risk and Climate resilience issues. The main objectives of the Summit are:






- To assess and discuss various aspects of present and futuristic disaster risks and climate contexts, and their changing scenarios
- To share recent lessons, innovations, good practices and case studies in science, policy-planning and practice-interface specific to disaster resilience and risk reduction
- To derive strategies and recommendations for localising resilience agenda for region specific, sectoral and strategic interventions with futuristic perspectives.




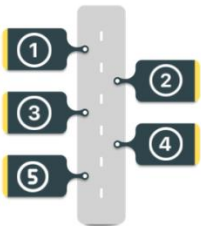
Session Plan:


The RSS 2047 will comprise of the following types of sessions:

- Inaugural Ceremony and Valedictory Programme
- High Level Plenary/Thematic Sessions
- Key Recommendation Sessions

Sl.	Title & Code	Short description of session
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1	 <p>आह्वान RESSUMMIT-47 Launch</p>	<p>Inaugural Ceremony. High Level Dignitaries address the forum. Inaugural & Presidential address.</p> <p>Invoking Goddess of Knowledge - Lighting of Lamp. Honours, Awards & Medals. Book Release. Launch of Major initiatives & programmes.</p>
2	 <p>सहयोग International Cooperation: G20 and beyond</p>	<p>International, regional and bilateral cooperation and forum for mutual & joint learning, and supporting other nations and parts of the world in DRR, Climate action and Sustainability.</p> <p>Strategic deliberations focus on capacities and programmes including S&T, training, research, knowledge sharing, resources, etc.</p>
3	 <p>उन्नयन-I Governance & Finance: Localizing Resilience Agenda</p>	<p>Leads from LOC-RES 2100, lessons from global and national policy environments are translated for local capacities and actions, law, policy, disaster & climate finance, risk insurance, compensation, relief, local governance & institutions.</p> <p>Session brings insights and ground lessons, into high level policy discourse.</p>
4	 <p>उन्नयन-II Environment & Health Emergencies: Critical trends</p>	<p>Recent past has witnessed newer and emerging trends in disasters like Forest fire, Heatwave, Pollution emergencies, Epidemics/Pandemic, Dust storm, Industrial mishaps & Fires.</p> <p>Session brings critical analysis along with pathways of mainstreaming these aspects with recent lessons and vision plans for actions.</p>
5	 <p>उन्नयन-III</p>	<p>Increased infrastructure and uncontrolled urbanization, poorly planned and haphazard, is subject to damage by disasters, leading to major economic losses. Urban-rural connect, with nature based solutions though critical, is seldom integrated in resilience planning.</p> <p>Session will bring lessons and insights from studies, pilots and programmes of diverse range.</p>

	Infrastructure & City Resilience including Peri-urban	
6	 <p>उन्नयन-IV</p> <p>Addressing Loss & Damage (L&D): Strategies & Tools</p>	<p>Loss & Damage due to disasters, climate extremes and slow onset events need concerted efforts of assessment and addressing risk in proactive ways.</p> <p>Tools like PDNA, sectoral assessments, databases, underlying causes of disaster loss & damage in different stages of the risk cycle would be discussed towards analyzing the remedial strategies. Further innovative financing for addressing unavoidable loss and damage need to be deliberated</p>
7	 <p>उन्नयन-5</p> <p>Post-Disaster Recovery & Humanitarian-Social Resilience</p>	<p>Along the ‘built back better’ thought, post-disaster recovery has to be sustainable and climate friendly, reducing future risks, with humanitarian-social sectors as key players in coordination and resource mobilization.</p> <p>This special session looks at long-term recovery and future perspectives of societal resilience.</p>
8	 <p>उन्नयन-6</p> <p>Sectoral Approach to DRR and Climate Actions</p>	<p>Sectoral approaches and pathways to embrace DRR and climate actions are critical, aligning with Prime Minister’s 10 Point Agenda on DRR while utilizing Mission ‘LIFE’ opportunities.</p> <p>Resilience in sectors like - agriculture, energy, transport, education and industry, are the key focus of discussions.</p>
9	 <p>उत्तोलन</p> <p>RESSUMMIT47 Thematic Recommendations</p>	<p>Previous 8 sessions on specific themes and holistic scoping, are designed along with the pre-events as well, to yield a specific set of recommendations.</p> <p>Summary and key outcome of session as recommendation would be presented for each of the thematic and high level sessions, feeding to Delhi declaration drafting</p>

 <p>प्रतिबद्ध The Call Together & Road Ahead</p>	<p>Valedictory Session High Level Dignitaries Conclusion and Conference Summary <i>“The Delhi Declaration on Resilient & Sustainable Systems- Vision-2047”</i> Honour & Recognitions Vote of thanks</p>
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Thematic Areas of Paper Submission (based on case studies/good practices):

Abstracts depicting case studies and best practices were received across 9 thematic areas. The presentations of the selected papers are scheduled under the pre-event of the summit on ‘LiFE’ for Resilience, Case Studies and Best Practices Conference on 28th November 2022. The conference will invite the full manuscripts for paper presentation. Based on the submission and presentation in the conference, the best papers will be awarded and the principal authors of the best papers will be invited to join the main summit. The thematic areas of the abstract are as follows:

<u>Thematic Area 1</u> <i>Policy and Strategies for Resilience</i>	<u>Thematic Area 2</u> <i>Social Inclusion and Resilience</i>	<u>Thematic Area 3</u> <i>Urban and Peri Urban Resilience</i>
<u>Thematic Area 4</u> <i>Nature Based Solutions</i>	<u>Thematic Area 5</u> <i>Infrastructure Resilience</i>	<u>Thematic Area 6</u> <i>Regional Context for Resilience Building</i>
<u>Thematic Area 7</u> <i>Green Growth & Circular Economy</i>	<u>Thematic Area 8</u> <i>Localization of Resilience Agenda</i>	<u>Thematic Area 9</u> <i>Localization of Resilience Agenda</i>

Participation:

The Summit would be attended by the policy makers, senior level Professionals/officials from government, UN agencies, Financing institutions, iNGOS/NGOs, international and national level experts and academicians/thinkers, scholars, etc.

Resilience and Sustainability Summit: Vision 2047

जलवायु और आपदा संकट से संरक्षा: पर्यावरण स्थायित्व की ओर
शिखर सम्मेलन ०१

PRE-EVENTS

1. *National Consultation Workshop on Wetlands Conservation as Nature based Solution for Reducing Disaster Risks on 12-13 September 2022*
2. *Expert Dialogue on Approaches for Mainstreaming Climate Risk Assessments on 14 September 2022*
3. *Brainstorming Session on DRR and S&T Policy: Research and Capacity Building Network for Resilience (in Disaster Management, Climate Resilience, Green Growth strategies, and integration with mainstream development, in India and its implications for Asia-Pacific) on 26 October 2022*
4. *'LiFE' for Resilience: Case Studies and Best Practices Conference on 28 November 2022*
5. *Workshop on Bridging the Climate Change Research and Policy Gap for Enhanced Local Climate Action in Uttar Pradesh on December 2022*
6. *Special Session on LIFE (Lifestyle for Environment) proposed on December 2022*

Tentative Agenda:

<p>Day 1 Venue: Vigyan Bhawan Date: 17th January 2023 Time: 09:30am-04:00pm</p>
<p>I001 आह्वान RESSUMMIT-47 Launch (Inaugural Ceremony) Time: 9:30am – 11:00 am</p>
<p>Inaugural Guests (Tentative): High Level National & International Dignitaries</p>
<p>High Tea Time: 11:00am-11:30 am</p>
<p>P002 सहयोग International Cooperation: G20 and beyond Time: 11:30am - 01:30 pm</p>
<p>LUNCH Time: 01:30pm -02:30 pm</p>
<p>T003 उन्नयन-I Governance & Finance: Localizing Resilience Agenda Time: 02:30pm-04:00pm</p>
<p>Tea Time: 04:00 pmOnwards</p>
<p>Day 2 Venue: Vigyan Bhawan Date: 18th January 2023 Time: 09:30am-05:30pm</p>
<p>T004: उन्नयन-II Environment & Health Emergencies: Critical trends Time: 09:30am – 11:00am</p>
<p>High Tea Time: 11:00am-11:30am</p>
<p>T005: उन्नयन-III Infrastructure & City Resilience including Peri-urban Time: 11:30am – 01:00pm</p>
<p>LUNCH Time: 01:00pm -02:00 pm</p>
<p>T006: उन्नयन-IV Addressing Loss & Damage (L&D): Strategies & Tools Time: 02:00pm – 03:30pm</p>
<p>Tea Time: 03:30pm -04:00 pm</p>
<p>T007: उन्नयन-5</p>

Post-Disaster Recovery & Humanitarian-Social Resilience

Time: 04:00pm-05:30pm

Day 3

Venue: Vigyan Bhawan

Date: 19th January 2023

Time: 09:30am-03:30pm

T008:

उन्नयन-6

Sectoral Approach to DRR and Climate Actions

Time: 09:30am- 11:00am

High Tea

Time: 11:00am-11:30am

R009:

उत्तोलन

RESSUMMIT47 Thematic Recommendations

Time: 11:30am-01:00pm

LUNCH

Time: 01:00pm -02:00 pm

V010:

प्रतिबद्ध

The Call Together & Road Ahead

Time: 2:00 pm – 03:30 pm

High Tea

Time: 03:30pm Onwards

RSSummit 2047 Committees:

Strategic Advisory Committee

- Dr Vijay Kumar Saraswat, Member, NITI Aayog and Chancellor, JNU*
- Dr Srivari Chandrasekhar, Secretary, DST, GoI
- Mrs Leena Nandan, Secretary, MoEFCC
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- Shri Nagendra Nath Sinha, Secretary, Ministry of Rural Development*
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- Shri K. N. Vyas, Secretary, DAE & Chairman, AEC, GoI*
- Shri S. Somanath, Secretary, Department of Space & Chairman, ISRO, GoI
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- Shri Manoj Ahuja, Secretary, Ministry of Agriculture and Farmers Welfare, GoI*
- Shri Vaidya Rajesh Kotecha, Secretary, Ministry of Aayush, GoI*
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- Dr Krishna S Vatsa, Member, NDMA
- Dr Shoko Noda, Resident Representative, UNDP India
- Mohamed El-Khawad, Programme Director & Cluster Coordinator, Environment, CC & NRM, GIZ-India
- Prof D P Singh, Education Advisor to CM-UP, Former Chairman UG

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- Dr Preeti Banzal, Adviser / Scientist 'G', Office of the Principal Scientific Adviser to the Government of India
- Dr Pawan Labhasetwar, Chief Scientist & Head (Water Quality), CSIR-NEERI
- Dr Manu Gupta, Co-Founder, SEEDS India
- Sri N M Prusty, Vice Chair Coalition for Food and Nutrition Security India
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- Prof K. N. Singh Vice Chancellor South Bihar Central University
- Prof. Manish Goel, Dean Civil Engineering Department, IIT Indore

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- Dr Ashish Chaturvedi, Head, Environment, Energy & Resilience, UNDP India
- Dr Shailendra Dwivedi, Director, Climate Change and Circular Economy, GIZ India

*TBC: To be confirmed

RS Summit: Vision 2047 Partners

Strategic Cooperation:

- NITI Aayog
- Office of Principal Scientific Advisor to the Government of India
- Ministry of Environment, Forest and Climate Change
- Ministry of Agriculture and Farmers Welfare
- Ministry of Rural Development
- Department of Biotechnology
- Ministry of Health and Family Welfare
- Ministry of Earth Sciences
- Ministry of Jal Shakti
- Ministry of Aayush
- Indian Space and Research Organization
- Department of Atomic Energy
- Indian Council of Agricultural Research
- Council for Agriculture and Industrial Research

Organizing Partner:

- United Nations Development Programme (UNDP)

Programme Cooperation:

- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, (GIZ) India

Technical Collaboration:

- Wetlands International South Asia
- Australian National University
- Sphere India
- SEEDS India
- Indian Chamber of Food and Agriculture
- Building Materials and Technology Promotion Council
- GB Pant University of Agriculture & Technology

UN and International Agencies:

- United Nations Convention to Combat Desertification (UNCCD)
- United Nations Environment Programme (UNEP)
- United Nations International Children's Emergency Fund (UNICEF)
- United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)
- International Union for Conservation of Nature (IUCN)
- World Food Programme (WFP)
- International Centre for Integrated Mountain Development (ICIMOD)
- United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)
- United Nations University (UNU)
- Collision of Disaster Resilient Infrastructure (CDRI)

Academic Cooperation:

- Central Building Research Institute (CBRI)
- Indian Institute of Technology Delhi
- Indian Institute of Technology Roorkee
- Indian Institute of Technology, Indore
- Gorakhpur Environmental Action Group (GEAG)
- CSIR- National Environmental Engineering Research Institute (NEERI)

Knowledge Partners:

- Springer Nature
- International Society of Environmental Botanists (ISEB)
- York University, Canada
- Honey Bee Network
- Centre for Environment and Regional Development (CERD)
- University of Ladakh
- Indian National Academy of Engineering (INAE)
- Society of Earth Sciences (SES)