

Resilience Innovation Knowledge Academy

Celebrating 5 Years of RIKA India Pitchbook August 2023



Resilience Innovation Knowledge Academy India Pvt. Ltd.

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1. Introduction to RIKA India

Resilience Innovation Knowledge Academy India Pvt. Ltd. (RIKA) is a research-based for-profit social entrepreneurial start-up. We create cost-effective community-oriented solutions for Disaster Risk Reduction, Climate Change Adaptation, Environment Management, and Sustainable Development.

1.1. Vision

To provide innovative disaster risk reduction solutions today for a resilient tomorrow.

1.2. Mission

To research, innovate, and train minds for global resilience.



RIKA's Sectoral Expertise

2. Recognitions/Membership

- Member of Arise Global Network
- Member of United Nations
 Global Network
- Recognized as a startup by the Department of Industrial Policy and Promotion (DIPP).
- Empanelled with Gujarat Institute of Disaster Management (GIDM), Gandhinagar, Gujarat.
- Member of ARISE INDIA program
 of FICCI (Federation of Indian
 Chambers of Commerce &
 Industry) an initiative to bring
 together corporate
 organizations in the field of
 disaster management for shared
 learning and progress.
- Shared the stage with world leaders in disaster management at Global Platform for Disaster Risk Reduction (GPDRR) 2019 at Geneva, establishing its niche in the field of linking science & technology for Community Based Disaster Risk Reduction (CBDRR).
- Partnered with UN-Habitat Advocacy Forum for Climate Change.

At RIKA India, we focus on extensive research and citizen science to provide customized knowledge products. We are a group of interdisciplinary professionals coming from varied areas of expertise with a common passion for making this world safer and resilient. We value time.

commitment, and quality and bring innovative solutions.

3. Team RIKA 3.1. Co-founders

Dr. Raiib Shaw and Dr. Ranit Chatterjee have between them more than 30 years of experience in Disaster Risk Governance, Policy Designing, and Implementation. They co-founded RIKA India Pvt Ltd to create intendina a social entrepreneurial medium for grassroot DRM (Disaster Risk Management) interventions.



Dr. Rajib ShawCo-founder & Director

Professor in the Graduate School of Media and Governance, Keio University, Japan Received 2022 United Nations Sasakawa Award for Disaster Risk Reduction Recipient of the Pravasi Bharatiya Samman Award (PBSA) 2021, the highest honour conferred on overseas Indians

Coordinating Lead Author (CLA) IPCC 6th Assessment Report

Published more than 62 books and over 565 academic papers and book chapters



Dr. Ranit ChatterjeeCo-founder & Director

Visiting Associate Professor, Keio
University
PhD. Environmental Management,
Kyoto University
IRDR Young Scientist
Advisory board member of UNDRR's
Stakeholder Engagement Mechanism
(SEM)
CEM member Business and Biodiversity
Group, IUCN
Trained Architect and Disaster Risk
Management Professional
Over 20 Published Journal Articles and
Book Chapters

3.2. Project Team

The project team at RIKA India provide the culmination of diverse background experiences with professional training in the field of DRM, urban planning, development and sustainability.



Ambika Dabral

M.Sc. Disaster Management, TISS

Mumbai

ALS Fellow, Harris School of Public
Policy (University of Chicago) and
Indian School of Public Policy
Trained Mathematician

DRM professional with expertise in
planning, research and capacity
building of multi-stakeholders across
varied levels



Krishnakali Ghosh

M.Sc. Geo-information Science & Earth
Observation, University of Twente,
Netherlands
Experience in urban planning,
development and sustainability
projects with state governments



Savita Khurana

Bachelor's Degree from Delhi University and a Post-Graduate Diploma in Health Family Welfare and Population Education from Punjab University. Experience in working with Health NGOs in Administration and Procurement area

3.3. Interns

RIKA provides internship opportunities on rolling basis to and researchers students from varied academic institutions. Through this, it mentors and handholds students and researchers from diverse disciplines in pursuing research and projects aimed at DRR & CCA and promoting innovations and evidence-based and S&T research.



Shalu Mathuria

Bachelors in Architecture, Vastu kala Academy College of Architecture, Master's Degree in Disaster Mitigation and Management, pursuing PhD, Indian Institute of Technology Roorkee.



Arshiya AC

Pursuing Masters in Urban Planning from National Institute of Technology, Calicut. Bachelor of Architecture, MES College of Architecture, Calicut.



Anuskya Ray

Master of Science (MSc) in Geography, Bachelor's Degree in Science (Geography), University of Calcutta

3.4. Advisors

The Advisors provide multi-disciplinary expertise and guidance to Team RIKA from time to time.



Dr. Rohit Jigyasu

Conservation architect and risk management professional.

ICCROM Program Manager UNESCO Chair professor at the Institute for Disaster Mitigation of Urban Cultural Heritage at Ritsumeikan University, Kyoto, Japan.



Dr. Akhilesh Surjan

Associate Professor

Research & Theme Leader of Humanitarian, Emergency and Disaster Management Studies Program at the Charles Darwin University, Australia.



Dr. Takako Izumi

Associate Professor

International Research Institute of Disaster Science (IRIDeS), Tohoku University. Director of the Multi Hazards Program under the Association of Pacific Rim Universities (APRU)



Dr. Hassan Virji

Emeritus Executive Director of START International, Inc

Expertise in building systems-level capacities in global change to foster resilient and sustainable societies.

3.5. Associates

RIKA Associates expand the regional outreach and add to the diversity of skillsets of the team.



Mr. Arnab Gazi Economics and Architect, SPA, Delhi Marketina Specialist.



Ms. Sangita Das



Dr. Tong Thi Lecturer, Hanoi



Dr. Raju Sarkar Professor, Royal University of Bhutan



Ms. Chandra L. Hada Architect & Urban Planner, Nepal



Dr. Indrajit Pal Asst. Professor & Chair at DPMM, AIT, Thailand



Ms. Suvendrini Kakuchi Sri Lankan Journalist



Company Law Graduate with expertise on School Safety



Ms. Thinn Hlaing Oo Studles, Kyoto University, Japan



Dr. Shobha Poudel Asst. Professor, Universal Engineering & Science College, Pokhara University Nepal



Dr. Anwarul Abedin Professor, Bangladesh Agricultural University



Mr. Lalit Deshora Urban Planner & GIS Specialist, currently with ADPC



Dr. Aditi Madan PhD in Disaster Management, AIT, Banakok



Mr. Shashikant Chopde



Dr - Ing. Hassan Elmouelhi Architect & Urban Planner Berlin Technical University, Germany

4. Presence of Team RIKA

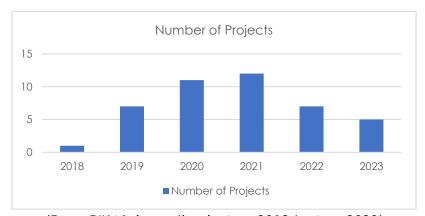


4.1. Our Associations & Clients



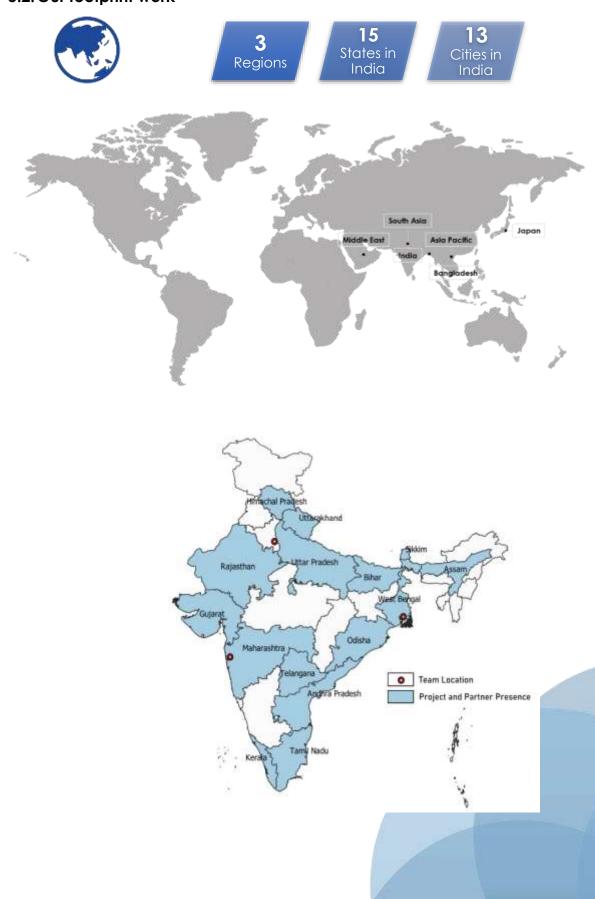
5. Overview of Projects

5.1. Number of Projects



(From RIKA's inception in Aug 2018 to Aug 2023)

5.2. Our footprint work



5.3. Type of Projects

Technical studies and assessments

- •Situation Analysis for CBM India Trust
- •Scoping Study on functioning of EoCs at districts & tehsil levels at Uttrakhand-UNDP India
- Development of SOP/Guidelines to establish SIDM in the State of Maharashtra-UNDP India
- Assessing the profitability of climate smart agriculture in the Ganges-Brahmaputra River basin
- •Scoping study for Systemic and Cascading Risk in the Asia-Pacific Region supported by UNDRR
- •Development of Country Paper on Building resilience for Climate Change and Disasters supported by UNORC
- Water-related issues in Gujarat: Key challenges and prospects-WOTA Corp, Japan
- Enhancing Disaster Risk Reduction and Climate Resilience at UNESCO sites in Asia-Pacific
- Strengthening Disaster Risk Governance Framework in India: Learnings from global best practices
- Preparation of Guidelines for Establishment of Emergency Operations Centre (EOC) USAID-GOI UNDP
- Asia-Pacific Regional Framework for NATECH Risk Management, UNDRR and AP-STAG
- Functional Review of Odisha State Disaster Management Authority-The World Bank
- Revision of 2012 Early Warning System in Vijayawada City-UNDP India
- •Regional Assessment of DRM Institutions in the South Asian Region with World Bank in collaboration with ADPC
- •Status of Science and Technology in Disaster Risk Reduction in Asia-Pacific by UNDRR and AP-STAAGHealth Disaster Resilience Assessment of Bongaigaon District, Assam
- •Health Disaster Resilience Assessment of Bongaigaon District, Assam suppoted by National Health Mission

Planning, training and drills

- Urban Risk Reduction and Resilience: A Comprehensive Approach GIDM
- •School safety program in the state of Maharashtra-UNDP India
- Ecosystems Conservations and Disaster Risk Management by strenghtening community based regulatory mechanisms cultural community-NIDM
- Workshop to discuss the findings of Questionnaire Survey and Identify Potential ASEAN-Japan Collaborative Actions
- •Developing of Risk Sensitive Land Use planning for Neelkantha and Dullu Municipalities Dai USAID under Tayar Nepal Project
- Training of Trainers (TOT) programme on Integrated and Inclusive Natural Hazards Risk Reduction and Management targeting the Arab countries under UNESCO-MENA
- •Strengthening DRM capacity under COVID-19 pandemic in cyclone/flood-prone area supported by JICA India
- Preparation of 18 Ward Level Disaster Management Plan Vijayawada City-UNDP India
- Preparation of 18 Ward Level Disaster Management Plan Visakhapatnam City-UNDP India
- Preparation of Eight (08) Ward Level Disaster Management Plans for Navi Mumbai-UNDP India
- Preparation of Ward level Disaster Management Plan for Navi Mumbai-UNDP India
- •Situation Analysis of Urban Action for people's resilience programme in Delhi and Chennai-Caritas India
- •School Disaster Management Plans and IEC: Vishakhapatnam-UNDP India
- •Simulation Exercise: Developing Resilience Cities through Risk Reduction in the context of Disaster & Climate Change-USAID-GoI-UNDP
- Preparation for Disaster Risk Management Plan for GIFT City
- Providing technical assistance to the State Government of Odisha in setting up the International Centre for Disaster Management

Innovations

- Technical support to 10 selected innovators under the Tech-Emerge Resilience India Challenge supported by ADPC
- CDRI Fellowship Programme 2021-22: Risk-Informed School Evaluation Tool (RISE Tool)
- Urban Thinker Campus
- Quick Risk Evaluation Tool for Micro Small and Medium Scale Enterprises (MSMEs)
- •Social Entrepreneurial Initiative Thematic Incubators
- •Supporting the Establishment of India University Network with UNDRR & NIDM

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Knowledge products

- Outlooks
- Research Papers
- Book Chapters

6. Details of Projects

6.1 Scoping Study on Functioning of Emergency Operation Centres at District and Tehsil Levels in Uttarakhand

The scoping study assessed the functioning of the existing EOCs at the district and tehsil levels in Uttarakhand and identify associated gaps and areas of improvement. It study provided recommendations for enhancing the effectiveness and efficiency of the EOCs in the State. The scoping study was conducted in light of relevant global and national frameworks, policy instruments and guidelines. The study undertook a comprehensive evaluation of the four identified EOCs, analysing their effectiveness, **functional** performance during past disaster events. reviewing standard operating procedures, assessing coordination mechanisms, and evaluating overall capacity to required **functions** perform the across different phases of disaster risk management.

Project Location: Uttarakhand

Project Duration: June 2023

Supported By: United Nations Development Programme (UNDP)

6.2 Situation Analysis of Climate Change and Environment, Disability Inclusive Disaster Risk Reduction, and Humanitarian Response

The situation analysis strived to understand the evolution and the

current context in the country related to climate change and environment, disability inclusive disaster risk reduction and humanitarian response. The study provided an in-depth understanding of the situation in terms of its general development context and its status on realising equality for persons with disabilities. The study also supported identifying critical needs, gaps and opportunities for CBM to promote inclusion.

Project Location: India

Project Duration: May to July 2023
Supported By: CBM India Trust,
Bangalore

6.3 Urban Risk Reduction and Resilience: A Comprehensive Approach

The project involved development of training module and conduct of ToT on Urban Risk Reduction and Resilience: Α Comprehensive Approach for the urban policy makers and practitioners (urban planners, engineers and architects). module development was informed stakeholder by consultations. It envisaged to train and build capacity of future trainers on urban risks and resilience building to enhance urban resilience in Gujarat.

Project Location: Gujarat

Project Duration: January to May 2023

Supported By: Gujarat Institute of Disaster Management (GIDM), Government of Gujarat

6.4 School Safety Program in Maharashtra

The School Safety Program was part of the umbrella project of UNDP, "Strengthening the Disaster Risk Management Systems for the Government of Maharashtra". The School Safety Program aimed at training 340 Master Trainers across the state by conducting Training of Trainers (ToTs) programs, developing School Disaster Management Plans (SDMP) of selected 34 schools and conducting mock drills. The project included development of training module for ToTs, a school safety manual in English and Marathi along with development of IEC material and designing structure for a central portal having information on various aspects of school safety.

Project Location: Maharashtra

Project Duration: June to October 2022

Supported By: United Nations Development Programme (UNDP)

6.5 Development of SOP/ Guidelines to Establish SIDM in the State of Maharashtra

Under an umbrella project of UNDP, "Strengthening the Disaster Risk Management systems for the Government of Maharashtra", the project included development of SOP/ guidelines for establishing a dedicated State Institute for Disaster Management (SIDM) as a state-ofart excellent institute for training and capacity building, research,

planning and knowledge management of varied aspects of disaster risk management in the state. The guidelines were developed by studying the similar existing institutions in India and alobally along with undertaking active stakeholder consultations and engagement to understand the specific context and needs of the state.

Project Location: Maharashtra

Project Duration: June to August 2022

Supported By: United Nations Development Programme (UNDP)

6.6 Ecosystem Conservation and Disaster Risk Management by Strengthening Community Based Regulatory Mechanisms and Cultural Continuity in Sunderbans

Under this project joint publication is being developed by NIDM and RIKA for identifying socio-cultural practices linking ecosystem conservation and disaster risk management. For highlighting the sustainable activities and ecological resilience online trainina programmes have been conducted. The project aims to study the temporal change regulations and ecosystem governance and analyse the impact of frequent disasters on cultural practices and livelihood in the Indian Sundarbans.

Project Location: India

Project Duration: August 2022 to ongoing

Supported By: National Institute of Disaster Management (NIDM)

6.7 Health Disaster Resilience Assessment of Bongaigaon District, Assam

The aim of the project was to analyze the current status of the healthcare system Bongaigaon district by utilizing a comprehensive Healthcare Disaster Resilience Assessment Framework rating tool (5-point rating), and thereby generating key learning for improving disaster resilience. The mapping and assessment exercise of all health centres in Bongaigaon, Assam generate short-term, medium, and long-term plans based on their disaster resilience was conducted with support from India Japan Laboratory (IJL), Keio University, Japan; Indian Institute of Technology (IIT) Guwahati in collaboration with the National Health Mission (NHM), Assam. The survey and the analysis of the total 137 centres in the district was undertaken as per the available four health blocks, namely Boitamari, Bongaigaon, Manikpur, and Srijanaram through based research, key informant interviews, and insights.

Project Duration: August 2022

Supported By: National Health Mission, Assam

Location: Bongaigaon, Assam

6.8 Workshop to Discuss the Findings of Questionnaire Survey and Identify Potential ASEAN-Japan Collaborative Actions

RIKA India supported OYO Corporation, the consultant to International Cooperation Division, Disaster Management Bureau, Cabinet Office, Government of Japan in conducting the online workshop with ACDM (ASEAN Committee on Disaster Management) focal points. The workshop sought ASEAN's views on the current state of disaster management in ASEAN based on the findings of the questionnaire survey. It helped identify ASEAN's views on possible collaborative actions between ASEAN and Japan address the challenges strengthening disaster management in the region, which were mutually beneficial and could potentially be incorporated into the proposed ASEAN-Japan Work Plan on Disaster Management 2021-2025. The key of participants the workshop included ACDM Focal Points (or their representatives), members of AHA Centre, ASEC, representative of Cabinet Office of Japan, JICA, Mission of Japan to ASEAN and JAIF Management Team.

Project Duration: March 2022 Supported By: Oyo Corporation, Japan

6.9 Ecosystem Conservation and Disaster Risk Management by Strengthening Community Based Regulatory Mechanisms and Cultural Continuity

RIKA India conducted the three-day online training programme on Ecosystem Conservation and Disaster Risk Management by Strengthening Community Based Regulatory Mechanisms and Cultural Continuity. The webinar brought into light the need for more research on ecosystem services and knowledge creatina products specifically taking into account the community-based practices. The linkages between ecosystem services and human-wellbeing need well understood. be importantly, a need for the creation of awareness in ecosystem conservation and utilizina this opportunity to develop an actionoriented plan for the same was realized.

Project Duration: 11th to 13th January 2022

Supported By: National Institute of Disaster Management (NIDM)

6.10 Assessing the Profitability of Climate Smart Agriculture in the Ganges-Brahmaputra River Basin

project the This was under Collaborative Regional Research Programme (CRRP) of Asia-Pacific Network (APN) for Global Change Research. This project intended to achieve its goals by providing empirical economic evidence that could inform the development of new climate-smart policies. Thereby advancing knowledge on the costs and benefits of Climate Smart Agriculture (CSA) practices. assessed the profitability of CSA practices through cost and benefit analysis adopted by small-scale farmers in Ganges Brahmaputra River basin of South Asia particularly in Bangladesh, India and Nepal. It was being led by the Science Hub, Nepal and supported by Agriculture Forestry University, Bangladesh Agricultural University, Bangladesh along with RIKA India.

Project Duration: August 2021 to July 2023

Project Location: Bangladesh, India & Nepal

Supported By: Asia-Pacific Network (APN) for Global Change Research

6.11 Implementation of Tech Emerge Resilience India Pilot Projects

The project provided technical support to 10 selected innovators under the Tech-Emerge Resilience India Challenge in terms of engaging, monitoring, and evaluating technical aspects of the solutions being implemented through disruptive technologies during different phases of planning and implementation. The outcome of the project focused on the creation of states and cities resilient to climate change and disaster risks through the adoption of practices solutions which and were environmentally safe and sustainable through the use of disruptive technology. It primarily helped in addressing key sectors such as social innovation, development policy, finance, and technology by providing a platform for action-driven discussions and deliberations with other innovators as well as end-users and technology experts from the field.

Project Duration: June 2021 to May 2022

Supported By: Asian Disaster Preparedness Centre (ADPC)

6.12 CDRI Fellowship Programme 2021-22: Risk-Informed School Evaluation Tool (RISE Tool)

Under the CDRI Fellowship for the year 2021-22, a study on Risk-Informed School Evaluation Tool (RISE Tool) was undertaken. The study developed a tool that would help parents in undertaking risk-informed decision making and would promote effective disaster risk reduction measures in schools. It considered schools as critical infrastructure accommodating highly vulnerable group, the children: called hence building their resilience so as to create safe learning spaces.

Project Duration: May 2021 to April 2022

Supported By: Coalition for Disaster Resilient Infrastructure (CDRI)

6.13 ASEAN Mapping Exercise to Promote Synergy with Other Relevant ASEAN Sectoral Bodies, & Entities Associated with ASEAN on DM

The project in collaboration with the Southeast Asia Disaster Prevention Research Initiative, University of Kebangsaan Malaysia (SEADPRI-UKM), Global Resilience Innovation Laboratory (GRIL) of Keio University, Japan focused on enhancing the role of the Joint Task Force for Assistance Humanitarian and Disaster Relief (JTF HADR) on Mechanism of ASEAN.

It helped identify the current and potential roles of each relevant sector bodies, centres and, entities in disaster management alongside mapping the technical expertise, capabilities and resources from each relevant sector which could be made available at ASEAN's disposal for Humanitarian Assistance and Disaster Relief (HADR) activities. The outcomes of the project included recommendations on enhancing the JTF on HADR to promote synergy with other relevant ASEAN Bodies to whole-of-ASEAN promote а approach towards supporting disaster management.

Project Duration: June 2021 to October 2021

Supported By: ASEAN Secretariat SEADPRI-UKM

6.14 Developing of Risk Sensitive Land Use planning for Neelkantha and Dullu Municipalities

The project established robust risk sensitive land use planning in two municipalities of Nepal. RIKA India supported the integration of disaster risk reduction parameters into landplanning and use institutionalization at the municipal level. The project included reviewing, developing methodology and tools to incorporate the hazard, risk and vulnerabilities in land use planning.

Project Location: Nepal Project Duration: April to December 2021 Supported By: Dai USAID, Tayar

Nepal

6.15 Water-related Issues in Gujarat: Key Challenges and Prospects

study was conducted to understand the key water-related issues in the Indian state of Gujarat to understand associated and sectors and areas with water reuse and recycling requirements. The study looked into the three key dimensions of water security, viz, availability, accessibility water (sustainability and affordability) and usage (adequacy and safety). Case studies were developed highlighting pressing issues of leakage, energy,

etc. The key findings of the study threw light on the challenges and bottlenecks in promising water security in the state.

Project Location: Gujarat

Project Duration: May 2021 to July 2021

6.16 Interventions to Build Socio-Ecological Systems Resilience to Natural Hazards

The project involved conducting regional Training of Trainers (TOT) programmes on Integrated and Natural Risk Inclusive Hazards Reduction and Management targeting the Arab countries. It supported enhancing the readiness of communities in urban, peri-urban, and rural areas to address natural hazards risks; strengthening their capacities to manage these risks, and fostering the social capital in risks prone areas in the MENA region. It included development of tools and learning materials on disaster risk reduction, catering to the contexts and needs of the Arab region. The courses offered under the project, Basic, Advanced namely, Specialised courses for Policymakers, NGOs, Farmers, Engineers, Private Sector and Media helped build a potential cadre of future trainers in the region.

Project Duration: March to September 2021 Supported By: UNESCO-MENA

6.17 Strengthening DRM Capacity under COVID-19 Pandemic in Cyclone/ Flood-Prone Area

The project evaluated and provided for better integration of aspects of biological hazards into existing decision-making planning and for Disaster mechanisms Risk Management (DRM) at the local level in the state of Odisha. It laid down guidelines and tools for supporting such integration with enhanced awareness and preparedness and capacity of local government and local communities for playing the critical roles and functions leadina to management of complex risks of natural and biological hazards. It included undertaking baselines studies, audience research, community-based field exercises and stakeholder consultations for mapping the gaps and identification of good practices and lessons learned from the management of Cyclone Amphan under the COVID-19 pandemic. The implemented project was partnership with the Kalinga Institute of Social Sciences (KISS), Bhubaneswar in the six selected districts of Odisha.

Project Location: Odisha

Project Duration: January 2021 to

February 2022

Supported By: JICA, India office

6.18 Systemic and Cascading Risks: Challenges and

potentials in Asia-Pacific's risk landscape

The scoping study on Compound, Cascading and Systemic Risks in the Asia Pacific strived to understand the different aspects and dimensions of cascadina compound, and systemic risks by mapping and analysing the literature and case studies for mapping the good practices, lessons learned and gaps the management of complex risks in the region. It led to the development of basic principles for their management along with a framework for strengthening the governance for management of such risks.

Project Duration: June to November 2021 Supported By: UNDRR

6.19 Country Paper on Building Resilience for Climate Change and Disasters

The country paper on building resilience for climate change and disasters focused on India. discussed the nexus between climate change and disaster risks and the current and potential challenges it posed to India towards achievina the sustainable development agenda. It identified key drivers, challenges, opportunities context of the India suggested a way forward especially for achieving a "better recovery post COVID-19. Overall, it informed the India Common Country Analysis Sustainable for the next UN

Development Framework (2023-2030).

Project Duration: June 2021

Supported By: Office of the United Nations Recovery Coordinator UNORC

6.20 Enhancing Disaster Risk Reduction and Climate Resilience at UNESCO Sites in Asia-Pacific

The project supported developing capacity of disaster management of UNESCO sites in the Asia-Pacific region by identifying gaps and lessons learned from the sites, offering support to implement small-scale DRM pilot projects at selected sites, and organizing knowledge exchange meetings. The process was supported by experts from the regional science networks. Key areas of focus were developing multi-disciplinary solutions, science communications, and mobilization of communities.

Project Location: Assam, Kerala, Maharashtra, Uttar Pradesh, West Bengal

Project Duration: March to May 2021

Supported By: UNESCO Jakarta Office & the Japanese Funds-in-Trust program

6.21 Strengthening Disaster Risk Governance Framework in India: Learnings from Global Best Practices

RIKA India in collaboration with India Japan Laboratory, Keio University

Institute for Social and and Environmental Transition-International (ISET-International) undertook study the 'Strengthening Disaster Risk Governance Framework in India: Learninas from alobal best practices.' It analyzed disaster risk management systems processes in selected eight countries (USA, Canada, Germany, Japan, Australia, Turkey, Indonesia and Philippines) highlighting the good practices that could be adopted for the Indian context. The study was further informed by the review of existing literature and supported by inputs from country experts through web-based consultations.

Project Duration: October 2020 to January 2021

Supported By: NDMA. Government of India under the National Cyclone Risk Mitigation Project (NCRMP)

6.22 Urban Thinker Campus

Urban Thinker Campus (UTC) is an initiative of UN Habitat's- World Urban Campaign and aims to bring dialogues amongst experts from various fields of science and technology, management, etc. for better urban management. RIKA India along with Visvesvaraya National Institute of Technology (VNIT), Nagpur, India co-hosted the UTC in 2020. Other co-organizers included Centre of Excellence in Mitigation Disaster and Management, Indian Institute of Technology (IIT) Roorkee, India Japan Laboratory, Keio University, Japan, Resilient Urban Planning and development (RUPD) GbR, Bonn, Germany, ARISE India FICCI, IRDR IcoE and IRDR RCS.



Chief guest Hon' Mr. Nitin Gadkari, Cabinet Minister for Road Transport & Highways and the Minister of Micro, Small and Medium Enterprises, Government of India addressing the participants

The focused event on comprehending the present and future urban challenges especially in the Asian countries and explored workable solutions that would ensure attaining sustainable goals in the context of urban climate change. Some of the eminent speakers included Ms. Mami Mizutori, SRSG, and Head UNDRR. Dr. Mazlan Othman, Director Regional Office for Asia and the Pacific, International Science Council, Malaysia, Dr. Emily Ying-Yang Chang, Director Collaborating Centre for Oxford University, among others.

Project Duration: 9th to 11th December 2020

Supported By: UN-Habitat

6.23 Preparation of Guidelines for Establishment of Emergency Operations Centre (EOC)

The preparation of Guidelines for Establishment of Emergency Operation Centre (EOC) was undertaken under the umbrella project 'Developing Resilient Cities through Risk Reduction in context of Disaster and Climate Change' of USAID-GoI-UNDP. It included reviewing of existing national and international best practices of EOCs, undertaking stakeholder consultations and contextualising the findings to the needs of Indian cities for effective implementation and replication by urban local bodies. The guidelines so developed was aligned with existing global, national and sub-national DRM policies and guidelines.

Project Duration: September to December 2020

Supported By: UNDP

6.24 Preparation of 18 Ward Level Disaster Management Plan – Vijayawada City

The development of 18 Ward Level Disaster Management (WDMPs) was undertaken under the USAID-Gol-UNDP Partnership Project 'Developing Resilient Cities through Risk Reduction in the context of Disaster and Climate Change'. It involved incorporating all the applicable provisions laid down in the City Disaster Management Plan and Hazard Risk and Vulnerability Assessments of Vijayawada into the

WDMPs. The selected wards included 10 wards highly prone to landslides and Krishna River floods, 08 wards prone to Krishna floods. The process of WDMPs development was informed by review of global practices for the formulation of cities/ward level emergency management stakeholder and consultations at the local level.

Project Location: Vijayawada City, Andhra Pradesh

Project Duration: September to December 2020

Supported By: UNDP

6.25 Preparation of 18 Ward Level Disaster Management Plan – Visakhapatnam City

The development of 18 Ward Level Disaster Management (WDMPs) was undertaken under the USAID-Gol-UNDP Partnership Project 'Developing Resilient Cities through Risk Reduction in the context of Disaster and Climate Change'. The 18 wards were selected based on their proximity to the coast, associated hazards, and industrial profile.

The process of WDMPs development integrated of all the applicable provisions laid down in the City Disaster Management Plan and Hazard Risk and Vulnerability Assessments of Visakhapatnam City into the WDMPs. It was informed by review of global practices for the formulation of cities/ward level emergency management and stakeholder consultations at the local level. WDMPs laid down measures and SOPs to support varied stakeholders on their roles and responsibilities pertaining to DRM.

Project Location: Visakhapatnam City, Andhra Pradesh

Project Duration: September to December 2020

Supported By: UNDP

6.26 Quick Risk Evaluation Tool for Micro Small and Medium Scale Enterprises (MSMEs)

The COVID-19 pandemic resulted in severe economic losses calling for sustained period of interventions from both governments and the private sector to respond and recover. Micro, Small and Medium Enterprises (MSMEs) were at a high risk of being severely impacted by the broader effects of the outbreak and were also among the ones which led the fight to survival not only for their own business but also for the overall livelihood and well-being of their community.

Among the host of challenges faced by MSME, the most notable was the lack of access to credit. In the event of bigger shocks, like COVID-19 the MSMEs face an existential risk due to their smaller set of – both financial and non-financial – resources. Most MSMEs do not have enough in-house technical expertise, nor access to expertise in their area to help them develop business continuity and

recovery plans. To support MSMEs in aligning their thinking towards risk proofing their businesses, the quick self-risk estimation tool aimed to business support owners in identifying possible internal and external risks to their business from COVID-19. It provided for a general evaluation of individual business risk (MSMEs) based on potential Impact (direct) and likelihood (possible indirect and wider impacts) of COVID-19. Thereby, it promoted efforts to strengthen risk awareness communication between and business owners.

Under the same project another tool developed Multi-hazard was Business Quick Risk Estimation Tool which addressed the multi-hazard risks with consideration to cascading and compound risks. The tool highlights the most endangered aspects where interventions are required to curb losses to businesses. Currently the tool is capable of capturing the challenges faced by businesses based on the frequently occurring disaster events specific to geographical the locations. considers complex geographical locations and secondary hazards that are triggered by majorly occurring disasters.

Project Duration: May 2020 - 2022 Supported By: UNDRR



6.27 Social Entrepreneurial Initiative - Thematic Incubators

Establishing an incubator at the university level to mentor and encourage future entrepreneurs, who can translate these targets into meaningful actions on the ground, is an important factor to actively create opportunities for the private sector in disaster risk reduction. The idea of thematic incubators is rather new. The themes vary from disaster risk reduction, safety, sustainable development, women entrepreneurship, conflict and peace, heritage risk management, citizen science, etc. The incubator centre mentors and trains the young entrepreneurs to bring innovation into the field of disaster management and climate change through new products, services and integrate research into this process. This entails developing start-ups with business development and marketing strategies, visibility of the product, linking and scalina opportunities in the DRR domain.



The signing of MoU Ceremony with Mody University

- a. RIKA India has successfully established а Disaster Risk Reduction and Climate Change Thematic Incubation Centre at Mody University, Sikar, Rajasthan. This centre focuses on women leadership Disaster Risk in Reduction.
- b. Another Incubation Centre with a focus on Science and Technology based solutions for the smart city of Nagpur on themes of environment, climate change and DRR is established at Visveswaraya Institute of Technology (VNIT), Nagpur, Maharashtra.



The signing of MoU for Thematic Incubation Centre Incubation at VNIT, Nagpur

c. RIKA India has partnered with BRAC University, Dhaka,

Bangladesh for Thematic Incubation Centre on Coastal Risk Management and Disaster Risk Reduction.



The signing of MoU with BRAC University

6.28 Preparation of Eight (08) Ward Level Disaster Management Plans for Navi Mumbai

The development of 8 Ward Level Disaster Management (WDMPs) was undertaken under the USAID-Gol-**UNDP** Partnership Project 'Developing Resilient Cities through Risk Reduction in the context of Disaster and Climate Change'. It involved developing eight WDMPs on the lines of the Navi Mumbai Disaster Management Plan 2019 and incorporating the Hazard, Risk and Vulnerability Assessment of Navi Mumbai in the same. The process was informed by a review of global practices for the formulation of cities/ward level emergency Management and stakeholder consultations and data collection at departmental level.

Project Location: Navi Mumbai, Maharashtra

Project Duration: 3 Months (Feb to May 2020)

Supported By: United Nations Development Programme (UNDP)

6.29 Providing Technical Assistance to the State Government of Odisha in Setting Up the International Centre for Disaster Management

The study was undertaken as pert of long-standing strategic partnership of UN with the State Government of Odisha. It included developing a paper capturing the details of the various centers for excellence (DM and CC) set up in different parts of the world through desk review. The review led to development of a concept note on the proposed International Center for Climate Change and Coastal Resilience (IC4R). Further, it provided for technical support to the UNRCO and the State Government of Odisha in establishing an agreement with various International Centers and Universities in the area of Disaster Management and Climate Change.

Project Location: Bhubaneshwar, Odisha

Project Duration: 30 days spread over January to December 2020 Supported By: United Nations Resident Coordinator's Office (UNRCO)

6.30 Functional Review of Odisha State Disaster Management Authority

The function review was undertaken as part of World Bank's process of preparing a DPF (Development Policy Finance) for the state of Odisha to strengthen institutions and Social systems for Protection. Statistics and Resilience. The review included studying and analyzing OSDMA's organizational readiness to address the current and evolving disaster and climate risk context of provided Odisha and recommendations towards the same. It broadly assessed OSDMA's strategic priorities, programs and thematic initiatives and their alignment with the Authority's legally envisioned role as well as the needs of the sector. It further examined OSDMA's institutional framework, human resources, and financial envelope towards meeting envisioned goals. The review and note on Institutional Restructuring of OSDMA supported efforts towards strenathenina its performance, addressing evolving risks, and establishing institutional mechanisms for knowledge exchange, among others.

Project Location: Bhubaneswar, Odisha

Project Duration: January to March 2020

Supported By: World Bank



6.31 Asia-Pacific Regional Framework for NATECH (Natural Hazards Triggering Technological Disasters) Risk Management

The project involved studying the NATECH risk in the Asia Pacific region through a review of literature and regional case studies. The analysis of the case studies led to devising basic principles for managing NATECH risk and the development of a framework for NATECH risk management in the region.

Project Duration: November to December 2019

Supported By: United Nation Office of Disaster Risk Reduction

6.32 Regional Assessment Report-Analysis of Regional Progress in DRR in Arab Countries

The Regional Assessment Report (RAR) was an important initiative of the UNDRR- Regional Office for the Arab States (ROAS) that contributed to the achievement of the Sendai Framework through monitoring risk patterns and trends and progress in disaster risk reduction in the Arab region while discussing various

challenges and opportunities for the development of Arab countries in DRR. The RAR provided an overview of disaster risks in the region based on the evidence-based analysis. It highlighted the importance of investing in disaster risk reduction and the need to make risk-informed decisions for sustainable development.

The developed chapter presented an analysis of progress achieved at regional, sub-regional, national and local levels. It analyzed the relation between progress in achieving both the Sendai Framework for Disaster Risk Reduction (SFDRR) and the Sustainable Development Goals (SDGs), exposing the effects of SFDRR on overall SDG achievements and the effect of SDG achievement on DRR. It further delved into some of the specific thematic areas of SFDRR and provide a deeper understanding issues of and challenges in those areas. presented case studies on the evidence of the shift from managing disasters to managing disaster risk at the national level in the Arab states.

Project Duration: December 2019 to February 2020

Supported By: UNDRR, Regional Office for the Arab States (ROAS)

6.33 Situation Analysis of Urban Action for People's Resilience Programme in Delhi and Chennai The overall purpose of the study was to assess the situation of the target group (with a focus on women, children and youth) under two major components - communities taking risk-informed decisions to mitigate the impact of identified risks and dialoguing communities with different concerned stakeholders for their riahts and entitlements (concerning DRR). The programme was implemented in six slums of Delhi (Shastri Park, Naib Sarai, Mansarovar Park, Geeta Colony, Jahangir Puri (K & D Block) and Bhalsawa (East and North-East Districts) and three slums Chennai (Sadaipet Nesapakkam and T. Nagar). A cluster programme approach was for undertaken building resilience of urban communities through community networks and civil society networks all the while involving other concerned government/ non-governmental stakeholders. It led to development of a comprehensive report with key findings, conclusions and recommendations based on field visits and literature review along with formulation of Urban Disaster Risk Management Manual.



Project Location: Delhi and Tamil Nadu

Project Duration: January to February 2020

Supported By: Caritas India

6.34 School Disaster Management Plans and IEC: Vishakhapatnam

The project aimed to inculcate the culture of Comprehensive School Safety in the five identified schools of Vishakhapatnam City. Among the various groups affected by the past disasters, children are the most adversely impacted group as they are extremely vulnerable to social, physical and psychological factors due to the lack of knowledge and understandina of disasters. Therefore, inculcating the culture of risk reduction and resilience is a prerequisite to reduce the vulnerability of school children. To further this, the project included development of School Disaster Management Plans (SDMPs) for five identified schools Vishakhapatnam City. Along with development of IEC content on how to prepare SDMPs, awareness on dos and don'ts for hazards like cyclones, floods. tsunami. earthauakes, heatwaves and fire accidents.



Project Location:
Vishakhapatnam, Andhra Pradesh
Project Duration: December 2019
Supported By: UNDP

6.35 Simulation Exercise: Developing Resilience Cities through Risk Reduction in the Context of Disaster & Climate Change

Simulation exercise at a city level is an over-arching approach that not only aims at testing and evaluating the laid down plans and SOP but also targets inculcating the culture of awareness and preparedness, supporting cooperation among all stakeholders and assessing the functioning of existing resources.

A multi-hazard simulation exercise was conducted at Cuttack with active support from Cuttack Municipal Corporation. This was supported by preparing hazardspecific SOP for the major hazards such as cyclones, floods, and fire for stakeholder departments; the identification of major stakeholders (government and non-government)

the simulation for exercise; conducting a preparatory planning meeting, training, simulation exercise, and debriefing for a triggered disaster involvina stakeholder departments. The multihazard simulation exercise helped identify the bottlenecks and areas for improvement and laying down the recommendations for doing so. The project also included video documentation of the simulation exercise as a learning resource for key stakeholders and other cities.



Project Location: Cuttack, Odisha Project Duration: November to December 2019)

Supported By: United Nations Development Programme (UNDP)

6.36 Revision of 2012 Early Warning System in Vijayawada City

The project aimed to review and update the 2012 Early Warning System (EWS) in Vijayawada City. It included the review of the technical design, structure and efficiency of exiting EWS in the city. As EWS involved multiple stakeholders and a set flow of communication, the project examined the linkages between stakeholders for collection

and dissemination system along with technologies involved and up-time performance. It further identified areas through which the EWS of the city could be strengthened and linked with district and departmental disaster management plans. The **EWS** mechanism actual was understood and reviewed through one-to-one consultation with the identified stakeholders. **Various** interviews/FGDs were conducted with officials of the stakeholder departments and community representatives, and case studies were developed. After analysis of field the level data observations, the auidelines and recommendations were suggested for enhancing the EWS for the city.





Project Location: Vijayawada, Andhra Pradesh

Project Duration: August to November 2019

Supported By: United Nations Development Programme (UNDP)

6.37 Preparation for Disaster Risk Management Plan for GIFT City

GIFT City has been developed as a high-density urban area with state-of-the-art infrastructure services in the Gandhinagar district of Gujarat. Disaster Risk Management Plan (DRMP) for GIFT was unlike that of any conventional city since it was a green-field development. The major land use was commercial; occupied mainly by service sector-oriented institutions. The plan was developed in a participatory approach with multiple stakeholders and presented in an implementable manner.

plan development process included a review of global best practices in the field of disaster risk management, relevant alobal, national and local frameworks, policies, acts guidelines, and plans. It supported by field visits, consultations and review meetings for the better understanding of local context and building greater ownership among the stakeholders. The plan laid down the institutional setup for the GIFT City delineating roles and responsibilities for risk communication, prevention mitigation, preparedness & capacity development, response and mitigation, response & relief and recovery phases. It provided for hazard specific action plans for earthquakes, floods, cyclones and The handholdina the fire. of stakeholders effective for

implementation of the plan was ensured through a capacity building workshop.



Project Location: GIFT City, Gujarat

Project Duration: March to November 2019

Supported By: Gujarat Institute of Disaster Management (GIDM), Government of Gujarat

6.38 Regional Assessment of DRM Institutions in the South Asian Region

RIKA in partnership with ADPC undertook the regional assessment of DRM institutions to bring forth the challenges and issues which needed immediate attention to mainstream DRM as a culture. The project spanned seven SAARC countries, namely, Pakistan, Bhutan, Lanka, Afghanistan, Bangladesh and Nepal. The project entailed regional stock-taking of national, sub-national and local DRM institutions.

The team provided technical inputs into the design of the overall methodology, analysis framework. It undertook technical review of 7 preliminary country reports and provided technical inputs to

develop the preliminary regional DRM institutional assessment. It further supported in conducting a country literature review in India's DRM legal frameworks and acts, most recent national DRM plans, policies, strateaies and and mandates and functions of public sector DRM institutions and other literature to map in-country public and other stakeholders involved in DRM along with conducting incountry stakeholder engagement, workshops and consultations. reviewed the preliminary India DRM institutional assessment.

It reviewed and analysed the 6 (Afghanistan, Sri Lanka, Maldives, Pakistan, Nepal, and Bhutan) preliminary country DRM institutional assessment reports to develop the preliminary regional report. Further, it provided regional recommendations on the capacity development action plan, priorities for strengthening current status, and enhancing operation mechanisms.

Project Location: Pakistan, Bhutan, Sri Lanka, Afghanistan, India, Bangladesh and Nepal

Project Duration: June 2019 to May 2020

Supported By: World Bank

6.39 Supporting the Establishment of India University Network with UNDRR & NIDM

RIKA India supported the initiative on the establishment of a professional network of universities and institutes which offer a course on Disaster Risk Management. This professional association would promote common efforts towards sharing knowledge across the disaster region in educational institutes. This project entailed detailed study, mapping of university courses and strategy-building for the professional development of the nation-wide association. This initiative was supported by UNDRR and NIDM.

It involved conceptualization of framework, provision of inputs from international experience of such professional association, supporting organisation of the National Consultative Workshop and reporting.

Project Location: India

Project Duration: December 2018 to April 2019

Supported By: UNDRR, Bangkok office

6. Publications

Academic writing and publications are one of the core activities at RIKA India. Team members contribute to various academic writings, book chapters and reports and share the knowledge on national and international platforms.



6.1. Academic Papers

The recent academic writings are listed below:

- Sulfikkar Ahamed, M., Sarmah, T., Dabral, A., Chatterjee, R., Shaw, R., Unpacking Systemic, Cascading, and Compound risks: A case-based analysis of Asia Pacific-Progress in Disaster Science: Volume 18- April 2023. https://www.sciencedirect.com/ science/article/pii/S25900617230 00121?via%3Dihub
- 2. Sulfikkar Ahamed, M., Chatterjee, R.. Shaw, R. (2022). Social Entrepreneurship and Disaster Risk Reduction—A Case of India. In: Ray, P.,_ Shaw, R. (eds) Technology Entrepreneurship and Sustainable Development. Disaster Risk Reduction. Springer, Singapore.

https://doi.org/10.1007/978-981-19-2053-0_11

- 3. Nakum, V. (2022)et al. Developing a framework on school resilience for risk-informed decision-making, **Progress** Disaster Science, Volume 15, ISSN 2590-0617, 100237. https://doi.org/10.1016/j.pdisas.2 022.100237
- Ahamed, M.S., Chatterjee, R., Shaw, R. (2021) Climate Change, Loctus Crisis and COVID-19 – An Overview. Know Disasters. https://rikaindia.com/wpcontent/uploads/2021/07/Locust s.pdf
- Bajwa, S., Dabral, A., Chatterjee, R., Shaw, R. (2021) Co-Producing Knowledge Innovation through Thematic Incubators for Disaster Risk Reduction and Sustainable Development in India. Sustainability. 13(4):2044. https://doi.org/10.3390/su13042044
- 6. Chan, EYY., Dubois, C., Fong, AHY., Shaw, R., Chatterjee, R., Dabral, A., Loyzaga, A., Kim, Y-k., Hung, KKC., Wong, CS. (2021). Reflection of Challenges and Opportunities within the COVID-Pandemic to Include Biological Hazards into DRR Planning. International Journal of Environmental Research Public Health. 18(4):1614. https://doi.org/10.3390/ijerph180 41614
- Dabral, A., Bajwa, S., Shioyama, S., Chatterjee, R., Shaw, R. (2021), "Social Innovation Hackathon for Driving Innovation in Disaster Risk Reduction (DRR)", Journal of

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- 8. Dabral Sasaki K., A., Nizhamudong Y., Chatterjee R., Shaw R. (2021) Innovation in Earthquake Early Warning System: A Case Study of EQ Guard. In: Sakurai M., Shaw R. (eds) Emerging Technologies for Disaster Resilience. Disaster Risk Reduction (Methods, Approaches Practices). and Springer, Singapore. https://doi.org/10.1007/978-981-16-0360-0_3
- Chatterjee R., Dar L.K; Dabral A (2020) Stressors of disasterinduced displacement and migration in India" from your book; in Urban Ecology: Emerging Patterns and Social-Ecological Systems pp 71-87. Elsevier. Doi: 10.1016/B978-0-12-820730-7.00005-7
- 10. Izumi, T.; Shaw, R.; Ishiwatari, M.; Djalante, R.; Komino, T., Sukhwani, V., Adu Gyamfi, B. (2020): 30 innovations for disaster risk reduction by IRIDeS. Keio University, the University of Tokyo, UNU-IAS, CWS Japan, Japan, 97 pages. https://rikaindia.com/wpcontent/uploads/2021/01/70713_ 7071330innovationslinkingdrrwiths dg.pdf

- 11. Bera S., Guru B., Chatterjee R., and Shaw R. (2020) Geographic variation of resilience to landslide hazard: A household-based comparative studies in Kalimpong hilly region, India; IJDRR, Elsevier, https://doi.org/10.1016/j.ijdrr.2019.101456
- 12. Mohanty, S.K.; Chatterjee, R.; Shaw, R. Building Resilience of Critical Infrastructure: A Case of Impacts of Cyclones on the Power Sector in Odisha. Climate 2020, 8, 73. https://doi.org/10.3390/cli806007 3
- 13. Chatterjee, R., Bajwa, S., Dwivedi, D., Kanji, R., Ahammed, M., & Shaw, R. (2020b). COVID-19 Risk Assessment Tool: Dual application of risk communication and risk governance. In **Progress** in Disaster Science (Vol. 7). https://doi.org/10.1016/j.pdisas.2 020.100109
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- 15. Ray, B., & Shaw, R. (2018). Changing built form and implications on urban resilience: Loss of climate responsive and socially interactive spaces. Procedia Engineering, 212, 117–

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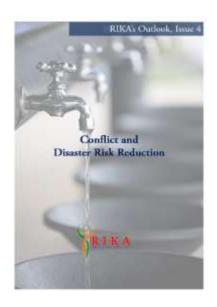
6.2. Outlook

RIKA India flagged an "Outlook" series where team RIKA shares its views on very pressing ongoing issues and concerns in the field. Outlooks are available on the following topics.



- Sendai Framework Focuses On "Natural" and "Man-made" Hazards
- 2. Smart Insurance for Smarter Cities
- 3. Soft Assets in Resilient infrastructures
- 4. Conflict and Disaster Risk Reduction
- 5. Involving the Informal MSME's in Disaster Management
- 6. New Technologies and Disaster Risk Reduction
- 7. Capacity Development of Local Institutions for Disaster Risk Reduction
- 8. Reducing Disaster Risks to Cultural Heritage

- Citizen Science and Disaster Risk Reduction
- 10. Climate Change Adaptation and Disaster Risk Reduction
- 11. Simulation Exercises Intertwining Double-Disaster Scenarios: Need to Strengthening Disaster Risk Governance
- 12. Thematic Incubation for DRR
- 13. Role of Professional Network in DRR
- 14.Covid-19 Pandemic: Beyond a Health Emergency!
- 15. Climate Change, Locust Swarms and Food Security: What to look forward
- 16. Rethinking urban planning for Risk resilient future cities







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