# KERALA STATE DISASTER MANAGEMENT AUTHORITY

## Report on the Training programs on Sendai Framework for Disaster Risk Reduction (SFDRR) 2015-2030. (Priority 1)

The Sendai Framework on Disaster Risk Reduction (SFDRR - 2015-2030) is an ambitious agreement that sets out the overall objective to substantially reduce disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries (UNECE, 2022). Overall goal of the SFDRR is to "Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen resilience." SFDRR is set to work on the basis of seven global targets and four priorities for action to achieve the declared global targets.

The declared seven global targets are:

1. Reduce disaster mortality.
2. Reduce the number of affected people.
3. Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030.
4. Reduce disaster damage to critical infrastructure and disruption of basic services (health and educational facilities.
5. Increase number of countries with national and local DRR strategies.
6. Enhance international cooperation and support to developing countries.
7. Increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people.

In order to achieve the declared global targets by 2030, four priorities for action were identified and are:

Priority 1: Understanding disaster risk.
Priority 2: Strengthening disaster risk governance to manage disaster risk.
Priority 3: Investing in disaster risk reduction for resilience.
Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction.

Understanding the need for achieving the goals of SFDRR, Kerala State Disaster Management Authority (KSDMA) is organizing webinar on the theme "Understanding Disaster Risk (Priority-1)" (Spatial Information Technology in Understanding Disaster Risk), by considering the notified disasters occurring in the state (major disasters notified by the Government of India and state specific disasters notified by the Government of Kerala). 04 webinars were conducted in the month of April on different topics.

**Webinar – 01**

**Topic: Spatial Information Technology in Understanding Disaster Risk – Flood.**

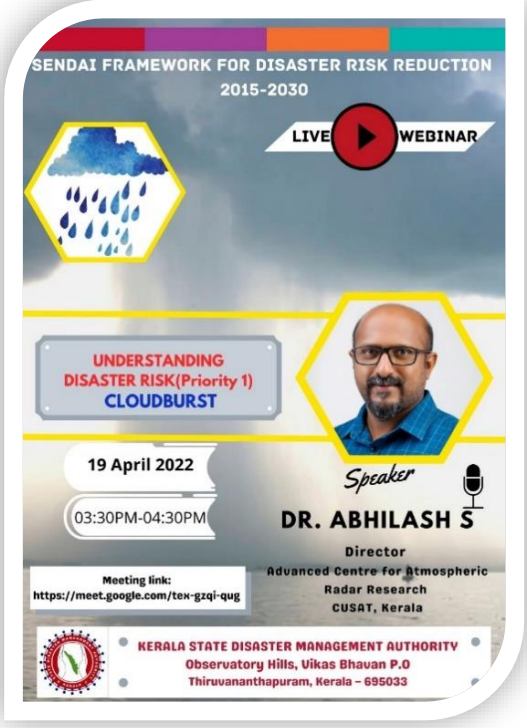
07/04/2022 Time: 3.30 pm to 4.30pm


**Dr. Guru Balamurugan**, Associate Professor and Head, Department of Applied Geology, Central University of Tamil Nadu was the guest speaker and resource person for the webinar on Flood. He started the session on time and explained the application of spatial information technology in understanding risk related to floods. He also shared his experience in the field of pre and post disaster assessment related to flood in northeastern India. He emphasized the need for implementing SFDRR in various levels of disaster management. More than 110 participants from various organizations, educational institutions and publics attended the event. After the presentation, there was an interactive session with the resource person and participants. The session was concluded by 4.30 pm.

**Webinar – 02**

**Topic: Understanding Disaster Risk – Cloudburst.**

19/04/2022 Time: 3.30 pm to 4.30pm




**Dr. Abhilash S**, Director, Advanced Center for Atmospheric Radar Research, Cochin University of Science and Technology (CUSAT), Kerala was the guest speaker and resource person for the webinar on Cloudburst. The session was started at 3.30pm, and Dr. Abhilash explained the concept of cloudburst and general climatic characteristics of Kerala in recent time. He also shared his research experience in monitoring the formation of clouds responsible for cloudburst in Kerala. He emphasized the need for proper monitoring of meteorological bulletins issued by national agencies to reduce the possible disasters due to these extreme rainfall conditions. More than 130 participants from various organizations, educational institutions and publics attended the event. After the presentation, there was an interactive session with the resource person and participants. The session was concluded by 4.30 pm.

**Webinar – 03**

**Topic: Spatial Information Technology in Understanding Disaster Risk – Coastal Erosion.**

22/04/2022 Time: 3.30 pm to 4.30pm

**Dr. Kaliraj S**, Scientist C, National Center for Earth Science Studies (NCESS), Kerala, was the guest speaker and resource person for the webinar on Coastal Erosion. He started the session on time with a brief introduction about remote sensing and GIS application in the field of coastal management. He presented a research carried out in parts of Tamil Nadu coast to estimate the temporal characteristics of coastal zones in the region. More than 50 participants from various organizations, educational institutions and publics attended the event. After the presentation, there was an interactive session with the resource person and participants. The session was concluded by 4.30 pm.


**Webinar – 04**

**Topic: Spatial Information Technology in Understanding Disaster Risk – Landslide**

27/04/2022 Time: 3.30 pm to 4.30pm

**Dr. Muthukumar M**, Assistant Professor and Director (i/c), Centre for Geoinformatics, The Gandhigram Rural Institute, Tamil Nadu was the guest speaker and resource person for the webinar on Landslide. He started the session with explaining basics as well advancement in the field of geoinformation science and technology. He also briefed about landslides and application of spatial information technology in understanding risk related to landslides. He shared his working experience in the field of landslide susceptibility mapping. More than 50 participants from various organizations, educational institutions and publics attended the event. After the presentation, there was an interactive session with the resource person and participants. The session was concluded by 4.30 pm.