Kerala State Disaster Management Authority

Sendai Framework for Disaster Risk Reduction (SFDRR) 2015-2030

Report – Webinars conducted in the month of May, 2022

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.

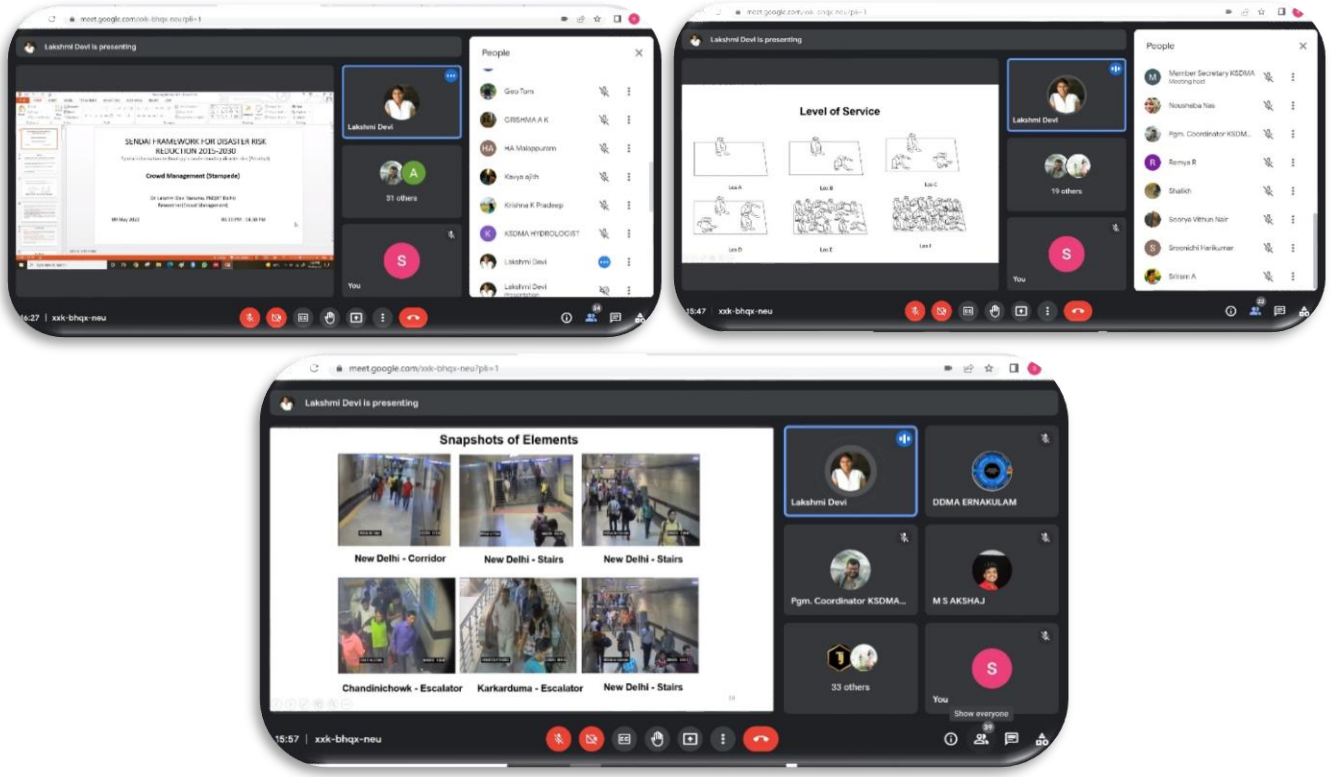
Understanding the need for achieving the goals of SFDRR, Kerala State Disaster Management Authority (KSDMA) is organizing webinar on the theme “Understanding Disaster Risk (Priority-1)” (Spatial Information Technology in Understanding Disaster Risk), by considering the notified disasters occurring in the state (Major disasters notified by the Government of India and state specific disasters notified by the Government of Kerala).

Webinar – 1

Topic: Spatial Information Technology in Understanding Disaster Risk – Crowd Management (Stampede).

Date: 09/05/2022, Time: 3.30 pm to 4.30pm

Dr. Lakshmi Devi Vanumu, Researcher (formerly affiliated with IIT-Delhi), was the guest speaker and resource person for the webinar on Crowd Management (Stampede). Dr. Lakshmi started the session on time and explained basic concepts of crowd management with diagrams and illustrations. Further, she showed the real time experiment of crowd management conducted by their team. She also exemplified major events (stampedes) happened in the world with special attention to events occurred in India. She pointed out that, most of the stampedes occurred in connection with religious events. She emphasized the need for developing and implementing crowd management plans for major festivals and other events in the country. More than 50 participants from various organizations, educational institutions and general public attended the event. After the presentation, there was an interactive session. The session was concluded by 4.30 pm.



Figures: Screen shots of the webinar.

Webinar – 02

Topic: Understanding Disaster Risk – Drought.

Date: 13/05/2022, Time: 3.30 pm to 4.30pm

Dr. Girish Gopinath, Associate Professor and Head, Department of Climate Variability and Aquatic Ecosystems, KUFOS, Kerala was the guest speaker and resource person for the webinar on Drought. He started the session by explaining basics as well advancement in the field of remote sensing technology for hydrological application. He briefed basic indices using for the assessment of drought with the satellite images. He introduced various free and open-source data sets and software available for geospatial analysis. He shared his work experience in the field of drought assessment carried out in northern part of Kerala. His team has developed web enabled mapping and decision support system for selected districts in Kerala which can be accessed by local administrative authorities. More than 55 participants from various organizations, educational institutions and publics attended the event. After the presentation, there was an interactive session and he extended his expertise and support for those who want to work on the particular field (Spatial information Technology). The session was concluded by 4.30 pm.

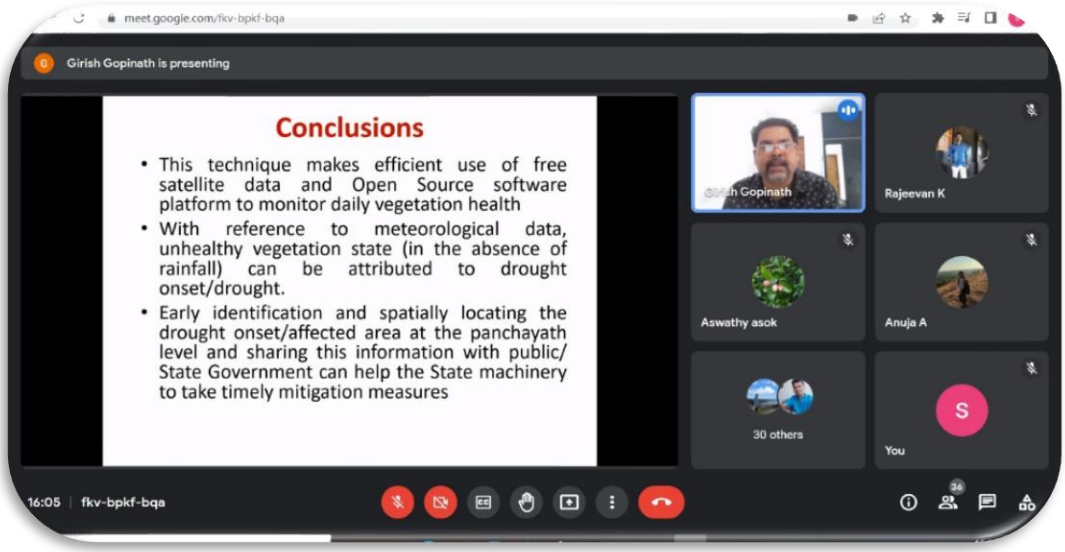


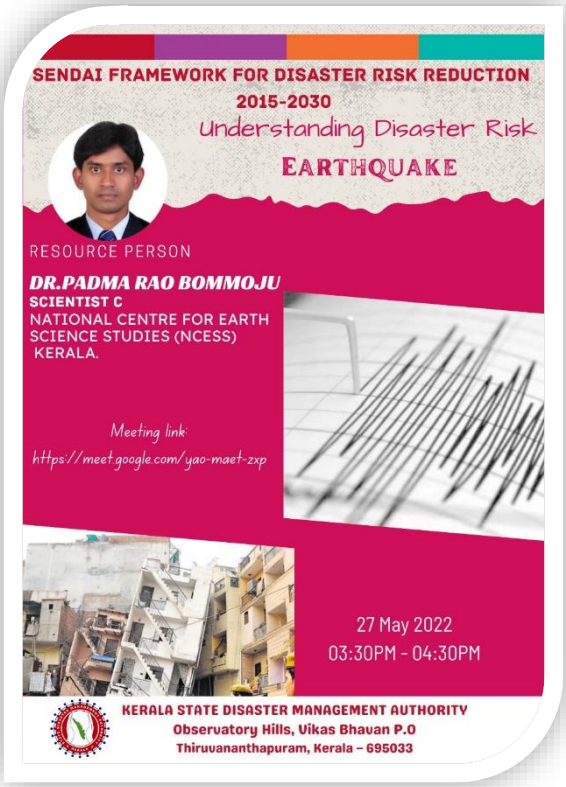
Figure: Screen shot of the webinar.

Webinar – 03

Topic: Understanding Disaster Risk – Earthquake.

Date: 27/05/2022, Time: 3.30 pm to 4.30pm

Dr. Padma Rao Bommoju, Scientist C, Solid Earth Research Group, National Centre for Earth Science Studies (NCESS), Thiruvanathapuram, Kerala was the guest speaker and resource person for the webinar on earthquake. Session started on 3.30pm and Dr. Padma Rao began the presentation with basic details of seismicity and seismic studies. Detailed explanation of plate tectonics and movement of the Indian subcontinent and its effects were well discussed in the session. He also briefed about seismicity of Indian subcontinent and more about Kerala and the Western Ghats region. He also highlighted the on-going research in Kerala particularly in Idukki district to know more about the repeated seismic events in the state. More than 40 participants from various organizations, educational institutions and publics attended the event. After the presentation, the topic was open to discussion and few questions were raised by the participants. The session was concluded by 4.30 pm.



Figures: Screen shot of the webinar.