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MOBILISE: Digital Toolset for Building Resilient Communities

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Challenge: At present, important climate and disaster risk data (pre-collected, pre-generated and real-time) is scattered across many agencies from various sectors. As a result, it is difficult for government agencies to compile relevant intelligence necessary for building community resilience and issuing effective early warnings. The project will address challenges such as: Decision Support Systems for local authorities; Access to data and predictive analytics to enable action by local level decision makers and the public; detection and forecasting at local level; last mile connectivity, communication, dissemination and local actions in low resource settings; citizen science and crowd sourcing for climate induced hazard early warning system.

Expected Impacts :

1. Transform current decision making practices to adopt a data-driven collaboration approach for decision making in building local resilience and issuing early warnings
2. Establish communities as important actors in local resilience building and early warning systems
3. Establish an efficient and effective Early Warning System for the community

Pilot Area: The project has chosen Kalutara district as our pilot area since it is subjected to increasing landslide risks, floods and drought due to climate change. Kalutara has a land area of 1,624km² (164,380ha) with a total population of 1,221,948 and 302,371 houses.



Innovative Technology Solution being Piloted : MOBILISE Platform



MOBILISE: Data Engine for establishing a cloud-based, multi-agency risk information space for stakeholders.



MOBILISE: Risk Visualiser for building a common understanding of climate risks.



MOBILISE: Risk Explorer for understanding the impact of current and future hazards due to climate change



MOBILISE: EWS for implementing a community-based early warning system that can reach communities in both urban and rural areas (digital and non digital)

Methodology

The Living Lab methodology is being used to provide an “Experimentation and Learning Environment” for local government organisations, third party organisations, technical and scientific experts and communities to co-create solutions that can address their local problems, deploy and validate them in their local settings.

Project Partners



The University
of Salford, UK



The National
Building Research
Organisation, Sri
Lanka.



Tecxal Systems Ltd, Sri Lanka

Living Lab User Partners :

Kalutara District Secretariat and local partners, Disaster Management Centre, NBRO, Local community group Representatives.