



**Climate Adaptation and Resilience
(CARE) for South Asia Project**

Innovations in Climate Adaptation and Resilience (iCARE)

**VICTORY: Visualizing the Power of Citizen Science Through
Observations and Repository for Anticipatory Action in Nepal**

Project Name	VICTORY: Visualizing the Power of Citizen Science Through Observations and Repository for Anticipatory Action in Nepal
Lead Organization Name	Institute of Himalayan Risk Reduction(IHRR)
Country of Implementation	Nepal
Summary Description	<p>Nepal, renowned for its stunning landscapes, is situated within areas prone to multiple hazards. On an average, Nepal receives more than 80 percent of the total rain during the monsoon season (June-Sept) alone. The monsoon rains have been resulting in a significant amount of discharge and generation of debris from the Northern mountains and foothills of Siwaliks which often results in the triggering of hydro-meteorological disasters. It is very crucial to understand the information of rainfall observation in any given area as it serves as a baseline to assess the impacts and derive thresholds for disaster. With the complex topography and microclimatic conditions, the existing meteorological stations are unable to provide representative ground conditions in the hilly terrains. Hence, In a world where climate impacts are increasingly evident, the collaboration between science and communities has become more crucial than ever.</p> <p>VICTORY (Visualizing the Power of Citizen Science Through Observations and Repository for Anticipatory Action) is an initiative of Institute of Himalayan Risk Reduction (IHRR) in collaboration with S4W Nepal, DCA Nepal and U-INSPIRE Nepal, to harness the collective strength of communities, turning everyday individuals into scientific contributors. The VICTORY project is simply a fusion of both low-cost hardware and software solutions.</p> <p>VICTORY is promoting highly cost-effective solutions such as a soda bottle, concrete, and a scale sticker (it could be ready within 1 USD). Moreover, the rain gauge is constructed from recycled and repurposed 2.25 liters of soda bottles, making it an environmentally friendly solution. The availability of the meteorological station in Nepal is limited and sparse and hence VICTORY can contribute to explore the variation in topographical and micro-climatic settings in the country.</p> <p>The Customized forms in the mobile application can be further used and scaled to collect data on any citizen science initiatives such as mapping buildings, street lights, etc. The application will be developed in multiple languages making it adaptable to diverse user preferences.</p> <p>Integrated Solution will combine the citizen science data and also the information on Landslides and Flooding through the mobile application contributing towards the early warning.</p> <p>With the citizen scientists contributing on the rainfall observations and staff gauge readings aided with the forecast information, the VICTORY project envisions the contribution in Early Warning System.</p>

Expected Outcome	The major outcome of the VICTORY project is the Increased access to the meteorological information and early warning system to the stakeholders leveraging the citizen scientists.
Partner Government Agency(ies)	<ul style="list-style-type: none"> ➤ Barbardiya Municipality & wards ➤ Bhimeshwor Municipality & wards <p>The launching of the VICTORY project will be carried out under the presence of the local government and the data collection and visualization will be available with the municipality.</p>
Project duration	15 Months

Implemented By



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