

## Satellite and AI-Driven Climate Resilience Tool for Bhutan

In 2022, Geoneon partnered with the Department of Disaster Management (DDM) in Bhutan to map the vulnerability of critical infrastructure in two regions of South Bhutan successfully. Due to the project's success and interest for broader application, Geoneon, in collaboration with DDM, is developing an open-source tool.

This project leverages satellite imaging and advanced algorithms to support informed decision-making in disaster risk reduction and climate change adaptation, while also building government capacity. Its main objective is to enhance climate resilience by transforming complex natural hazard concepts into accessible, user-friendly formats for informed decision-making.

### Introduction



Leveraging advancements in satellite imaging and advanced algorithms to support informed decision-making in disaster risk reduction and climate change adaptation.



Capacity building of the government.

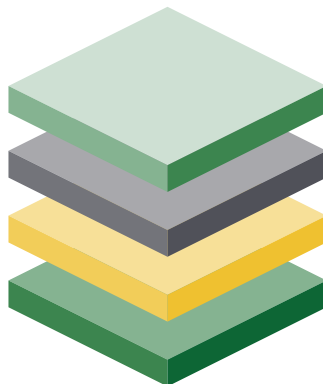


Generate informed decision-making for enhanced climate resilience.

### Development and Implementation

Creating a large scale satellite imagery database coupled with advanced algorithms.

Acting as an open-source tool for informed decision-making for enhanced climate resilience.



Transforming complex concepts of natural hazards and risks into accessible, user-friendly formats.

Resulting in disaster risk reduction and climate change adaptation, as well as building capacity among the government.

### Expected Outcomes

Improved resilience and adaptability of both critical infrastructure and local communities within the pilot areas.



Strengthen informed decision-making using state-of-the-art technology, leading to more effective risk mitigation and management strategies.



Strengthened capabilities of local personnel through extensive training and consultation processes, ensuring the long-term sustainability and scalability of the project's innovations.

