

## Satellite Integrated Landslide Assessment and Alert System (SILAAS):

Uttarakhand Space Application Centre (USAC) is running a project entitled Satellite Integrated Landslide Assessment and Alert System (SILAAS). This project is conceptualized and funded by National Remote Sensing Centre (NRSC), Indian Space Research Organization (ISRO). This aims to develop a new state-of-the-art landslide alert system in India that addresses 'where' and 'When' landslide will occur. It lays its foundation on assessing, modelling and measuring static and dynamic parameters that control landslide disaster.

Landslide Inventory Mapping for Post Monsoon 2023 for Uttarakhand has been carried out for the 12 districts of the state. This inventory is being prepared using object-based image analysis techniques from Satellite imagery and DEM (Digital Elevation Model), followed by field validation using FLIM mobile application.

Following are the objectives of the current study:

1. To prepare Landslide Inventory for post-monsoon 2023 of Uttarakhand using high resolution satellite data and DEM
2. To conduct ground verification of landslides mapped from satellite data
3. To collect additional ground landslide data (if any) using FLIM mobile application and field validation of landslide alert map (if applicable)

### Beneficiary:

Disaster Management, R&D Organizations, Line Departments

### Benefits:

Landslides Inventorization, Base Preparation for Predictive Modeling

