

# Sinking Joshimath: GIS solutions for preventing Land Subsidence

The recent developments in Joshimath region in India's Uttarakhand state, have been alarming. As of this week, more than **600 houses and buildings have developed cracks** due to gradual **land subsidence**, which is a slow sinking of the ground.

**Satellite images** released by India's National remote Sensing Center shows that **Joshimath sank 5.4 centimeters between December 27 and January 8**.



**“Standing in solidarity with the Joshimath community during this difficult time of land subsidence”**

We understand that natural disasters can be a difficult and trying time for communities.

In this scenario, **geospatial technology** can play a vital role in recovery efforts. It can provide an accurate and up-to-date mapping of affected areas, as well as **3D modeling and risk assessments** to aid in the response. Technologies such as **remote sensing, GIS, and InSAR** are used to detect and map **land subsidence** and to better understand the causes and effects of subsidence.

Other datasets, such as **satellite imagery, GIS consulting, and analysis**, can help communities and individuals assess the impact and damage caused by land subsidence.

- **Digital Terrain Models (DTM)** allow the creation of detailed slope maps, contour maps, and other geomorphological information to aid in identifying potential subsidence hazards and vulnerable areas. DTM is a useful input for land subsidence modeling.
- Additionally, **Land Use/Cover (LULC)** mapping allows the identification of land cover types, such as urban areas, wetlands, and forests, which can help in the most accurate damage assessment.



**"We stand with the community during this difficult time and are ready to assist in any way we can."**

Want to know more about the solutions of Land Subsidence ? Follow the link :

[Land Subsidence Mapping](#)

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