

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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