

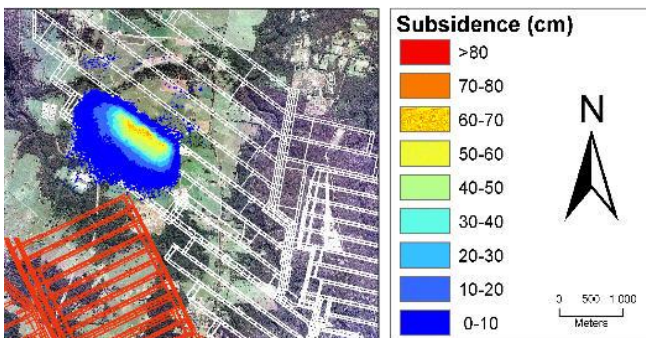
“Solutions for large area land subsidence mapping”

Overview

Unforeseen movements in the ground (“ground displacements” or “subsidence”) have a high cost to society, through injury, potential death, damage and loss of critical infrastructure. Such damage costs billions of dollars a year worldwide to repair and recover from. Companies with significant infrastructure, or which have the potential to cause ground displacement (e.g. coal mines), use conventional surveying techniques to help measure and monitor ground displacements.

Professor Linlin Ge and his team of researchers at UNSW and the Cooperative Research Centre for Spatial Information have developed technology and processes which **deliver high quality, high resolution ground displacement maps** based on satellite acquired data (from Interferometric Synthetic Aperture Radar). The technology has been validated through a number of research projects with a wide range of clients. NewSouth Innovations is developing a company which offers displacement mapping services based on this technology.

Example Displacement Map



An example of a ground displacement map showing displacement. The superimposed red lines indicate the sub surface location of the mine.

Our Core Service Products

We propose to offer two initial core services.

The first is a “Regulatory Compliance Solution” which addresses the regulatory requirements imposed in certain industries in relation to subsidence monitoring.

The second proposed product delivers “Large Area Site Subsidence Checks”. It enables companies to actively monitor land subsidence and stability issues and to help direct on the ground surveyors to potential “hot spots” for further analysis.

Both products are suited to remote, dense, locations and can be mapped retrospectively using historical data when available.

Market Validation and Market Entry

NewSouth Innovations is currently seeking potential investors to assist with the establishment of the subsidence monitoring and mapping company. In addition we are also seeking potential lead customers.

This is a great opportunity for industry to work with experienced University Researchers to help develop a service of value to the country.

For further information, to provide feedback or to explore the potential of this technology please contact NewSouth Innovations.

Contact Information:

Dr Robin Stanley
Senior Business Development Manager
T: +61 2 9385 6518
M: +61 410 415 074
E: r.stanley@nsinnovations.com.au
Ref: 07_2103