

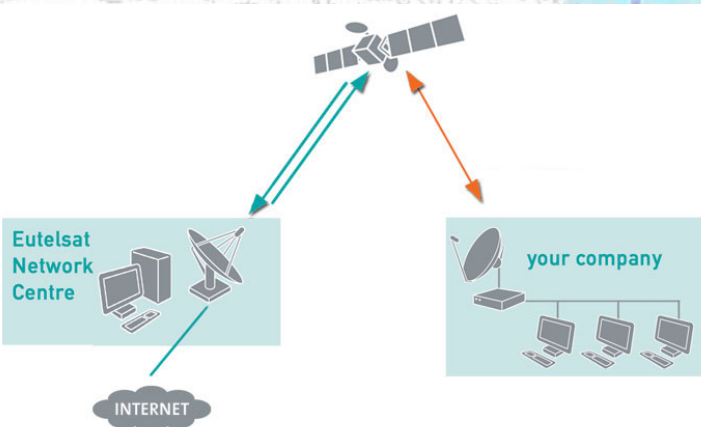
Broadband Internet

for Connecting your Teams

Cost-effective and reliable two-way satellite services, delivering broadband Internet access to businesses and administrations.

IP access has been tailored to provide premium Internet connectivity, regardless of their locations, anytime, anywhere.

The service can be rolled out quickly at the highest levels of quality and reliability in the network services.



Schematic overview of IP-access. © EUTELSAT

Key Applications:

- Internet browsing
- E-mail
- Data access & updates
- Fast file transfer, upload & download (ftp)

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Assisting Exploitation
Industry with Services
Based on Space
Technology:

Land Subsidence
Detection & Monitoring

Mapping & Virtual Reality

Broad-band Internet for
Remote Locations





Land Subsidence Analysis & Monitoring

Ensuring the safety and security of the wellheads and the pipelines has become increasingly important as global demand in oil and gas grows and environmental issues play an ever increasing role.

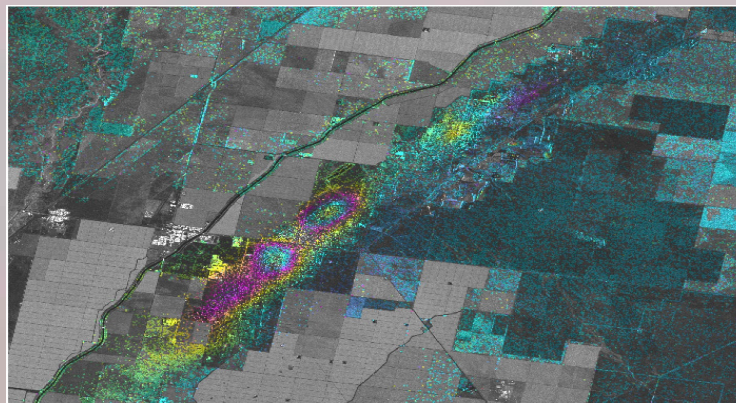


Left: Effects of subsidence at water well head.

Below: Fissuring due to subsidence caused by oil exploitation.

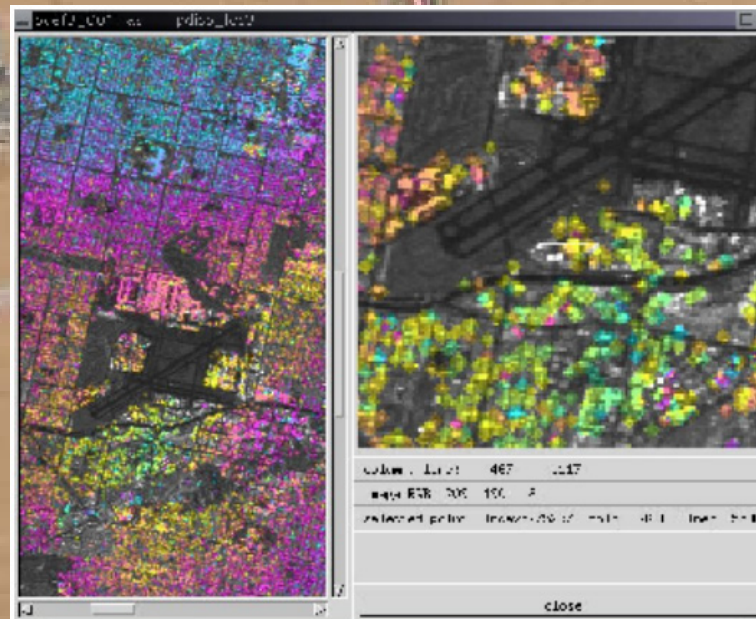


Our key concept is detecting subsidences resulting from exploitation activities or natural geo-processes, and monitoring their impact to the well fields and pipelines to prevent possible damages.



Lost Hills oil fields, California, USA. Feb. 2002 to Feb. 2004. Linear subsidence rate 10 cm/year/ cycle. DiffSAR analysis of Radarsat data. Proc. Gamma.

Our methodology is to analyse satellite radar data with Differential Interferometry (DiffSAR or IPTA – Interferometric Point Target Analysis) capable to detect subtle changes of the surface geometry (accuracy in the mm- to cm-range). Data are available since 1991 and continuously for real-time monitoring.



Subsidence resulting from ground water pumping, Long Beach Airport, USA. IPTA analysis of ERS-2, proc. Gamma.

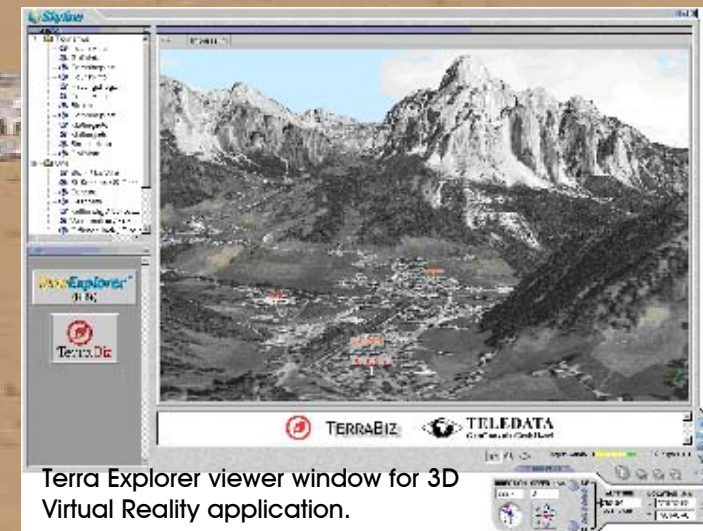


Subsidence products, e.g.

- Annual deformation rate in monitoring mode or historic data analysis
- Correlation of subsidence with extracted amounts and modelling
- Results as maps or GIS-layers

Mapping & Virtual Reality

Using the Skyline® software suite the user has the possibility to freely navigate within a virtual world. The virtual terrain based on an in-house available global Digital Elevation Model and optical satellite data or aerial photos offers an excellent basis for pipeline planning.



Investors or politicians can be better informed and convinced. Screenshots of the virtual reality are suited for news media publications and project status reports.