



## Company Philosophy

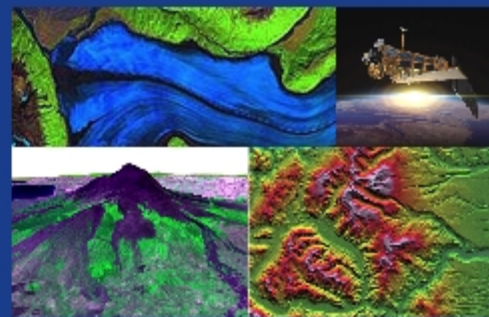
### *Innovative Solutions for a Complex World*

**Innovative - professional -  
customer oriented - worldwide**

Teledata Geoconsult GmbH-srl has been founded 1994 as a complete private enterprise to provide innovative products and services for spatial information: satellite remote sensing, Geographic Information Systems (GIS) and geo data management.

To achieve customer satisfaction our philosophy is to co-operate closely in the forefront for defining the product and service requirements, which is facilitated with the exclusively geoscientific background of Teledata's personnel combined with a long-standing expertise in remote sensing.

## Contact



---

### Teledata Geoconsult GmbH - srl

---

#### Headquarter:

c/o BIC, Via Siemens 19, I-39100 Bolzano - Italy

Phone: +39 0471 5682 82, Fax: +39 0471 5682 88

---

#### Subsidiary Germany:

Joseph-Dollinger-Bogen 24, D-80807 Munich

Phone: +49 89 324 59343, Fax: +49 89 323 4104

---

[team@TD-GeoConsult.com](mailto:team@TD-GeoConsult.com)

[www.TD-GeoConsult.com](http://www.TD-GeoConsult.com)

---

---

Remote Sensing

---

Geoinformation Systems

---

Risk Management

---

Geology & Resources

---

InSAR-Technique

---

Cartography

---

Research + Development

---

Processing

---

Geodata

---

Virtual Reality

---

Consulting

---

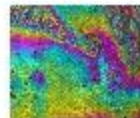
Training

---



## Research & Development

Our R & D projects are focussed on defining new and innovative applications of satellite remote sensing data for a better benefit / cost ratio and the necessary adaption of elaboration tools. Such projects mainly are being carried out within programs and projects, funded by the European Commission, the European Space Agency ESA, the Italian Space Agency ASI and the German Aerospace Center DLR etc. , but also under contract with the customers. Most important components of such projects are close cooperations with the user and partners from industry and research to achieve sustainability.



## InSAR-Technique

Ground deformations and motions, occurring in the course of subsidence, can be caused by oil- and gas exploration and -exploitation, groundwater drawdown or withdrawal, mining, tunneling or mass-movements in mountainous environments. Ground motions are one of the most endangering geo-processes. Not only that the stability of buildings and infrastructures are affected but also sometimes the human lives directly, as e.g. when subsiding terrain along the shoreline is flooded or landslides go off after rainfalls.

To localise map and monitor such potentially hazardous zones, the InSAR using radar satellite data for the first time offers a cost-effective method to measure deformations in spatial cohesion over large areas with **millimeter precision**. As radar data are being collected regularly since 1991, also deformation history can be evaluated.



## Geology & Mineral Resources

In periods of increasing demands in natural resources and rising costs for their exploitation alternative and effective methods for exploration and exploitation have to assist the field team and the management. Our staff combines experience in conventional geology with advanced remote studies applications in such fields.



## GIS-Applications & Thematic Maps

Elaboration of the geo-information requires user adapted different degrees of complexity, information diversity and -depth. We implement Geographic Information Systems (GIS) using off-the-shelf software tools adapted to different levels of users: Expert-GIS for decision makers, Desktop-GIS for non-expert users, Web-GIS with internet access for the public. Additionally, we offer cartographic products and thematic maps for various scopes of application, ranging from geology, geomorphology to land-use, land-cover or car navigation.



## Pipeline Monitoring

The integrity of pipelines can be affected due to many reasons: material fatigue and external stress induced by natural processes, human activities or illegal tapping. Remote sensing tools as DiffSar, pattern recognition and high resolution on optical data can provide effective solutions to specific problems.



## Processing & Classification

Application-adapted processing of satellite data allows to use their unique advantage of spectral separation of light from visible to thermal infrared. Based on our in-depth knowledge of spectral signatures we are able to deliver the appropriate product for visual interpretation or classifications, best-suited for your specific application, also in combination with radar-derived information.



## Multimedia & Virtual Reality

Our software tools provide for generating panoramic views with added simulated objects for planning, environmental impact studies or for reviving historic geologic eras. Virtual realities permit a visit of the landscape from terrestrial standpoints or from the bird's eye view with full freedom of navigation. Combining the VR with real-time position information is the ideal platform for fleet management or SAR-tasks in difficult terrain.



## Geodata

Prior to selling a complex product as satellite data, consulting of the user is a must. We offer the full spectrum of operational satellite data such as Landsat, SPOT and the very high resolution IKONOS and Quickbird data. We are official distributor for digital elevation data of the Shuttle Radar Topography Mission (SRTM XSAR) and the TanDEM Central Europe, both products of the German Aerospace Center DLR. Worldwide coverage of an interferometric DEM according DTED-2 standard is available on request or for regional or local size applications - a very high resolution DEM from IKONOS and Prism satellite data.



## Applications for Wind Farms

By use of a digital terrain model, a land cover classification and terrestrial meteorological data, we can assist in planning and optimizing wind energy power plants and for the energy output calculation. For wind regime modeling dynamic 3D - flow models are being applied.



## Consulting & Market Surveys

We put our expertise in all aspects of remote sensing, from the space segment to value-added processing and geoscientific applications at disposal to validate new data collection systems, to conceptualize application centers and to analyze and evaluate the market potential.



## Capacity Building

Built upon more than 30 years of experience and working on the leading edge in many aspects of remote sensing technology we are pleased to offer training courses in all topics of remote sensing, adapted flexibly to the level of the students to achieve a solid and sustainable result. Project-specifically we organize workshops and conferences, either on location of our offices in Bozen and Munich or at the customer's facilities worldwide.