

ABOUT US

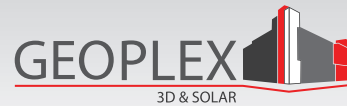
Geoplex is Spin-Off from the Institute of Geoinformatics and Remote Sensing (IGF), University of Osnabrück, Germany. Since the business foundation in September 2009, Geoplex successfully developed a wide range of services in the fields of photovoltaics, consulting and planning systems. Our main products in the segment of planning systems are interactive Solar Energy Registers and 3D Information Systems.

We'll set the stage for your data:

After having collected notable experience in processing Airborne Laserscanner data Geoplex is able to derive all products automatically and directly from Laserscanner data. The significantly reduced processing time offers cost benefits for our customers compared to manual or semi-automated procedures. During the whole process no additional data such as aerophotos or floor plans is required. Consequently all the roof structures are produced in their real shape and size. Furthermore our technology respects OGC-Standards and is compatible with all current geographic information systems (GIS).

Geoplex is distinguished with the award for innovative business start-ups of the University of Osnabrück, the Gründercampus Niedersachsen and the GeoBusiness AWARD 2009 of the Federal Ministry of Economics and Technology, Germany.

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WE'LL SET THE STAGE FOR YOUR DATA

- 3D INFORMATION SYSTEMS
- SOLAR ENERGY REGISTER
- OBJECT DETECTION

3D INFORMATION SYSTEM

In contrast to the conventional 3D city models the Geoplex 3D Information System offers more than pure visualization. Based on the building recognition designed by Geoplex every 3D object is automatically generated directly from Laserscanner data. While processing the 3D models all building elements (roof faces, superstructures, etc.) are enriched with accessory attributes (roof pitch, size, exposition etc). The attributes of all buildings and their elements are interactively presentable and available. Moreover it is possible to link the 3D Information System to existing data structures and extend it in future.

Geoplex offers the opportunity to expand your spatial analyses into the third dimension and to implement it in a 3D environment. Besides the applications which directly require three-dimensional information (noise protection, flood hazard, dispersal of pollutants, etc.) the 3D model can be merged with two-dimensional data, too (e.g. population structure or geology data).

Adjusted to your needs Geoplex offers 3D information with different levels of detail: from simple basic block models to extended roof structures (LOD 2).

SOLAR ENERGY REGISTER

The Geoplex digital solar energy register offers information about photovoltaic potentials of roof tops for citizens, investors or governmental institutions alike. According to the requirements of PV electricity generation every building in the reference area is checked for restrictive criteria

- exposition
- roof pitch
- shading
- the economical minimal size

and is assigned to according categories. The generated data structure makes it possible to access local information for single objects as well as generalized overviews for whole areas.

Consequently it is possible to perform individual queries to extract the most attractive buildings meeting the needs and requirements for economical investing. Aside to this benefits the register can be easily applied to internet based solutions (web GIS) and thus be made accessible to the broad public. So you can tap the full potential of solar energy of the reference area in an efficient and target-oriented way.

FIELDS OF APPLICATION

The products, developed by Geoplex can be used in the following areas and be adapted individually:

- Extensive area potential analysis in the field of solar energy
- Cost profit analysis and investment planning for the use of photovoltaic systems
- Concepts to strengthen renewable energies and the impact of site (city marketing)
- Cost-effective 3D modelling for illustration purposes (architecture, planning, advertisement)
- 3D Information systems (property management, foundation soil reports and much more)
- Material calculation and costing, investment planning for the construction- and real estate industry
- Solutions for spatial and urban land use planning (e.g. noise protection, flood protection, line of sight analyses)
- A simple and extensive possibility for acquisition and measuring of structural objects (e.g. a survey of: buildings, noise barriers, vegetation, terrain surfaces)
- floor-plan-updates
- Basic data for 3D navigation

