

# Lindau

## Drainage Master Plan (DRAMA)



Regierungsbaumeister  
**SCHLEGEL**



### Client

Stadt Lindau [City of Lindau]

European Space Agency ESA

### Period

2005 - 2007

### Project Cost

### Abstract

In line with the project Drainage Master Plan (DRAMA) for the city of Lindau, the alternative of using satellite data for development of a drainage master plan was investigated. Thereby, satellite data were used for classification of land use and determination of soil sealing. These data were then administered by a GIS-system and integrated into the hydrodynamic calculation of the sewage network as input parameters.

The project was organised in cooperation with the company Vista Geowissenschaftliche Fernerkundung Ltd., advanced by the European Space Agency (ESA).

### Scope of Service

pre-design, design, approval design  
satellite data analysis  
sewer master plan  
hydrodynamic calculation

### Technical Data

Satellite Pictures	
IKONOS PAN	1 m
Multi-spectral	4 m
SPOT 5 PAN	5 m
Multi-spectral	10 m
Development area	8.3 km <sup>2</sup>