

# LIDAR – APPLICATIONS

## City Models and Urban Planning

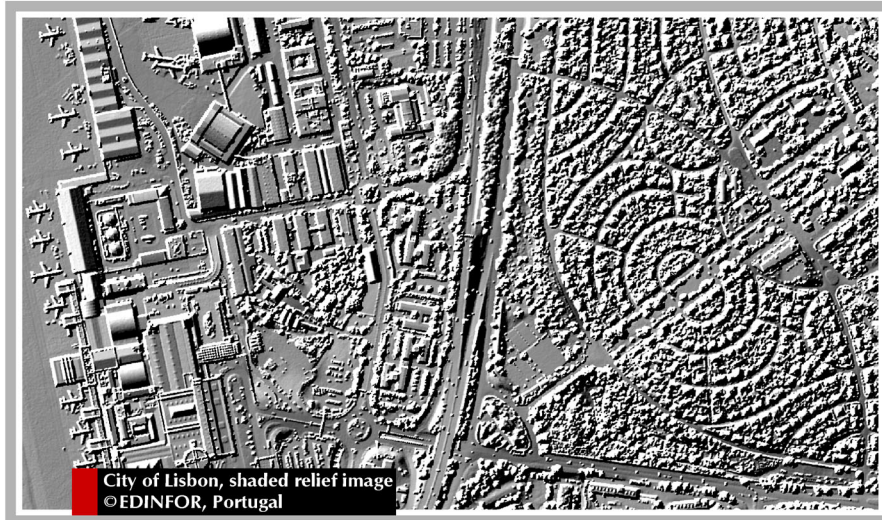


TopoSys surface model (DSM) as basic data for:

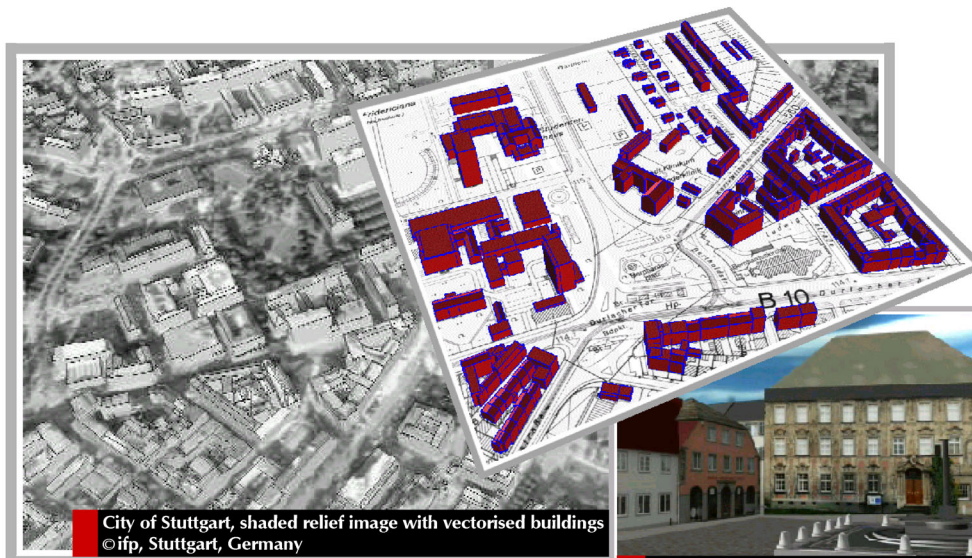
- mapping of buildings and their heights
- comparison with cadastral data
- simulation of new constructions
- noise protection measures
- telecommunication network planning
- tree cadastrals
- simulation of drainage flows
- geoinformation systems

3D virtual city created from:

- Toposys raster DSM
- vectorised building data
- photographs of building walls
- additional geographical information



City of Lisbon, shaded relief image  
©EDINFOR, Portugal



City of Stuttgart, shaded relief image with vectorised buildings  
©ifp, Stuttgart, Germany



Photorealistic picture, marketplace of Lindau  
©Municipality of Lindau



City of Oberstdorf, RGB (left) and CIR (right)  
©PSI, Sonthofen, Germany

Toposys RGB and CIR ortho images as a basis for:

- inventurisation of sealed and non-sealed surfaces
- mapping of land use