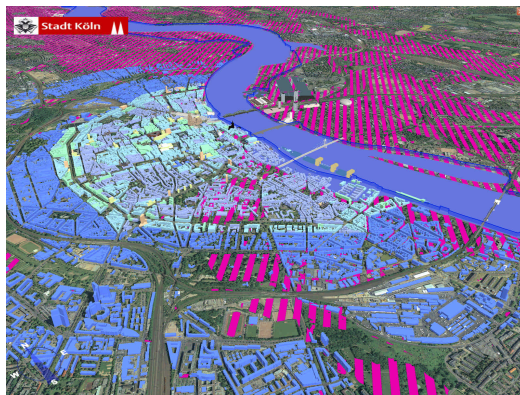


### 3D City Model Cologne, Germany

Client:	City of Cologne, City Planning Department
Total Area:	405 km <sup>2</sup>
Total Number of 3D Buildings:	>250,000
Buildings modelled in LOD2:	15
Buildings modelled in LOD3:	20
Duration of project:	ongoing



Flood Zones displayed in 3D City Model Cologne



Motivation/Objective:

Usage:

The city model of Cologne is used by several administrative departments as a complement to the existing GIS data inventory held by the Cologne Survey Department.

Immediately upon its completion, the 3D city model was included in a DVD which include GIS data from the city of Cologne. Features of the 3D model created with LandXplorer technology:

- § 3D visualisation of buildings and terrain surface
- § Flight simulation
- § Points-of-Interests as bookmarks with automatic "fly to" function by double-click
- § Overlay of city street map, public transport networks and ground cadastre (Scale: 1:5000)
- § Known Flood Zone areas
- § Sachdateninformation
- § City search function

Future 3D City Model Enhancements:

The untextured block models will be verified for height and position accuracy. After this examination, photo – realistic facade textures will be applied. Additional attribute data will also be connected to the model in order to serve a greater range of user groups within the city administration.

3D GIS Software: LandXplorer Studio Professional, Version 3.3.4

Additional Software: AutoCAD, Microstation and 3D Studio Max (building models)

Photoshop (textures and other graphic elements)

Input Data: Digital Terrain Model, 5m raster

City cadastre map

Colour Orthophoto, 20cm resolution

Additional Services: LandXplorer Viewer data

Cologne DVD – more information available at [www.3dstadtmodellkoeln.de](http://www.3dstadtmodellkoeln.de) (German language only)

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