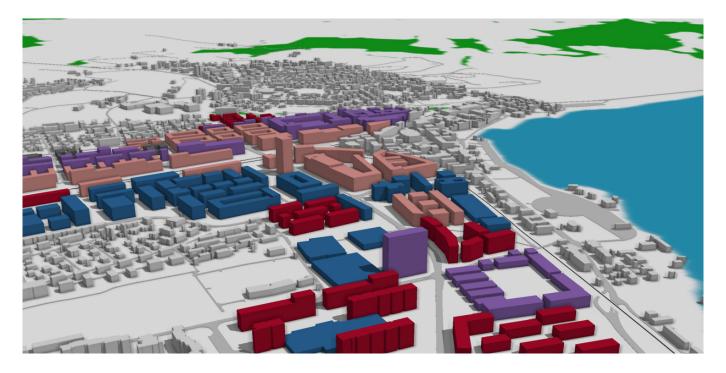
Project



Calculation of the Swisstopo building heights 3D



Swisstopo instructed EBP to calculate the building heights of Switzerland from DOM, DTM-AV and VECTOR25 building footprints. The EBP calculation methods enabled the building heights to be calculated quickly from the billions of laserscanning points of the height model. Swisstopo is marketing the building heights record as a new product under the name SwissBUILDINGS3D.

In 2008 Swisstopo began the production of the TLM Topographic Landscape Model. The TLM is a huge 3D geodatabase covering the whole of Switzerland. On the subject of buildings, it is planned to represent more than 2 million buildings in 3D on the basis of aerial photographs. This record will, however, only be available for the whole of Switzerland in about 5 years' time, after a complete processing cycle. As a transitional solution, Swisstopo therefore expressed interest in being able to offer a simple building height model (block model) as a product for the whole area. This model should be produced as soon as possible, and without substantial manual processing, from DTM-AV, DOM and the building footprints from VECTOR25.

With the assistance of a program package for the quality assurance of geodata, developed for Swisstopo's TOPGIS project, EBP is in a position to process vast quantities of geodata very efficiently in a single stage. By expanding the program package in line with the requirements of building heights, the calculation from the billions of available laserscanning points could be undertaken in a short time.

Client

Swisstopo, Federal Office of Topography (L+T)

Facts

Period	2009
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