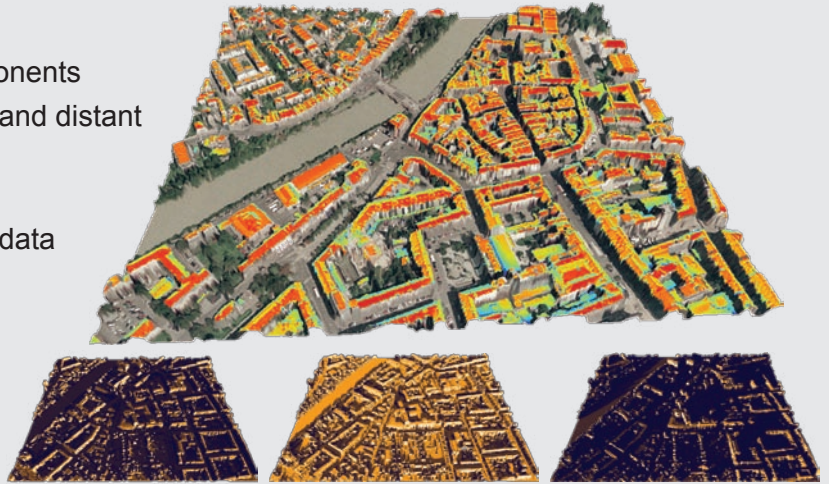


## Analysis of solar potential ALS

- calculation of direct and diffuse radiation components
- consideration of nearby (buildings, vegetation) and distant (mountain range) shadows
- flexible calculation time interval
- output in kWh/m<sup>2</sup>, rectified with meteorological data

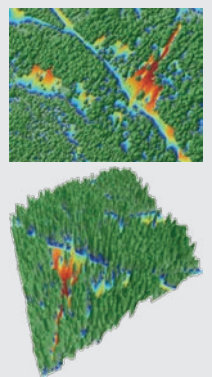
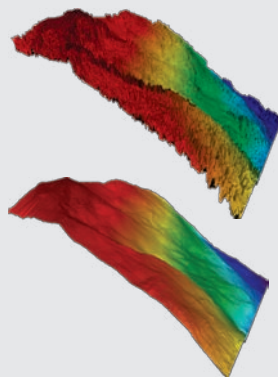
### available for ...

- single buildings
- municipalities with multiple 10km<sup>2</sup>
- metropolises with multiple 100km<sup>2</sup>
- **federal states with multiple 1000km<sup>2</sup>**



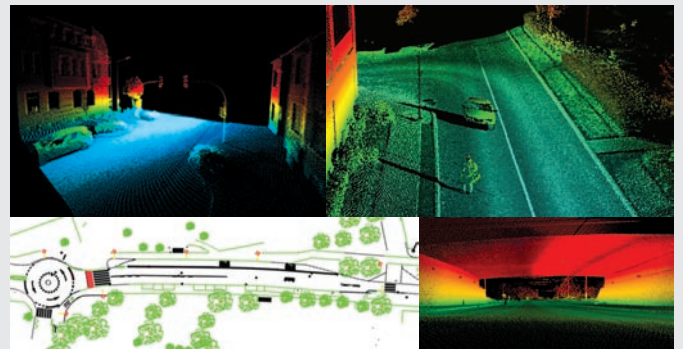
## Forest inventory ALS / TLS

- tree density
- tree height
- tree cover
- crown length
- stem volume / biomass
- stand structure / fragmentation
- surface roughness of the terrain



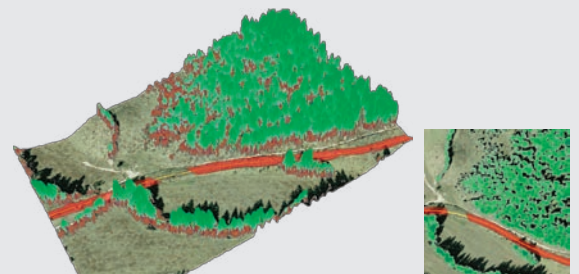
## Road inventory MLS

- precise localization of traffic signs, hydrants, manhole covers, trees, road markings ...
- detection of multitemporal changes like road surface subsidence or new constructions / reconstructions
- inventory of residential streets
- accurate determination of height limitation and road width
- transport planning



## Simulation models for natural hazards ALS / TLS

- rockfall
- avalanches
- debris flows
- flooding
- range of windthrow



## Software and data processing

- LASERDATA LIS setup (hard- and software)
- data preprocessing, data import
- automation of workflows
- professional training

