

Needs for automatic generalisation in the forthcoming National Topographic Database of Finland

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In Finland, both the National Land Survey (NLS) and municipalities have been updating topographic databases from their own premises. NLS has long traditions for providing small scale topographic data based on automatic generalization (Piekka application) and now the lessons learned will be utilised in a new challenge. NLS is now carrying out a project for joint National Topographic Database (NTDB) that will provide basic information including objects like buildings and other constructions, roads, waters, elevation, land cover and names. The NTDB will be based on the current Topographic Database, ortho images, airborne laser scanning point cloud, DEM, the INSPIRE basic reference data, and large scale planning data from municipalities. The basis for the way of acting is a united data model and a database, which is maintained on its own behalf by each organization in charge. The big goal is a multiple representation database, where primary data collection happens at the generalisation level 0, where municipal base maps are available, and at the generalisation level 1 elsewhere. To reach the goal, we need to establish automatic generalisation system first between the generalisation level 0-1 and second between all other generalisation levels.