Generalisation of 1:50k roads centrelines from 1:10k road polygons in an automated workflow

Vincent van Altena, Marc Post, Ron Nijhuis, Jantien Stoter
The team
Principle

- Convert (10k) road polygons to (50k) road centerlines
- Replace terrain polygons with border lines
- Extend terrain border to road centerlines
- Reconstruct terrain polygons
Roads 10K to 50K

Top10

TopX

kadaster
Case 1:
Remove adjacent parts of bike paths

Adjacent bike path
Adjacent part of bike path removed
Case 2:
Generalisation of land use enclosed by roads
Case 3:
Adjacent roads with different code
Case 4:
Generalisation of roads with incomplete network geometries
Case 5:
Generalisation of water enclosed by parallel roads

1:10.000

1:50.000
with normal visualisation width

1:50.000
with exaggerated visualisation width
during the displacement of the roads

Save information from “disappearing” polygon in attribute point
Case 6:
Collapse parallel roads with same code