

Implementation of Automatic Generalisation in the Production Process of the 1:50.000 Map Series

IGN Belgium

ICA 2013, Dresden



Intro

- 3rd edition of the 1:50 000 map series
- Update cycle ends mid 2014
- Reference scale: 1:10 000
- Automatic generalisation coincide as much as possible with the result after interactive generalisation
- Only the road and building feature classes are updated



Update strategy

■ Roads

- Incremental updates (propagation)

■ Buildings

- Regenerate the whole feature class



Update strategy

- Buildings
 - Non-specified buildings
 - Specified buildings



Update strategy

■ Buildings

■ Non-specified buildings

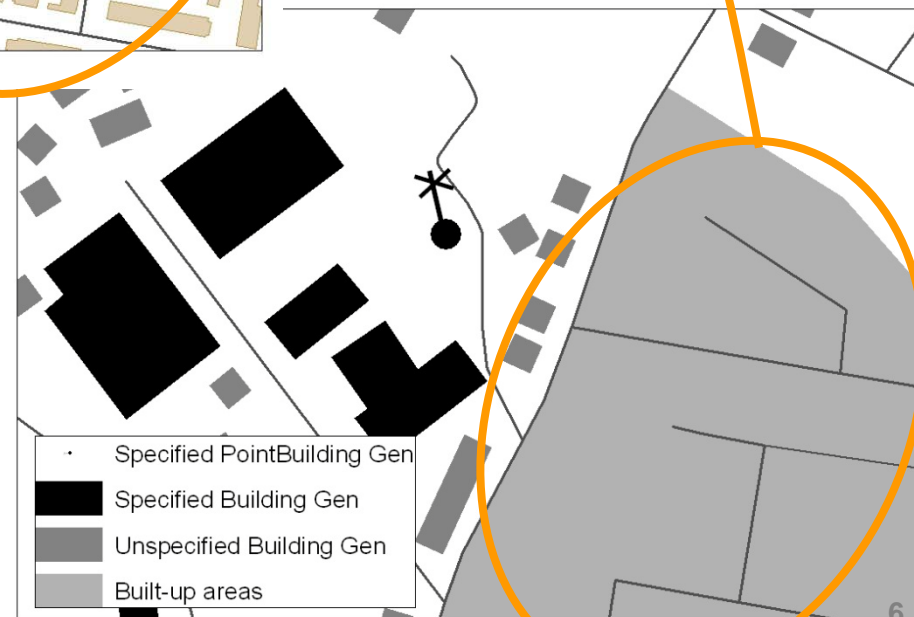
— Depends on the area

- Dense: creation of built-up area (ArcGIS script)

Dense



REF



GEN



Update strategy

■ Buildings

■ Non-specified buildings

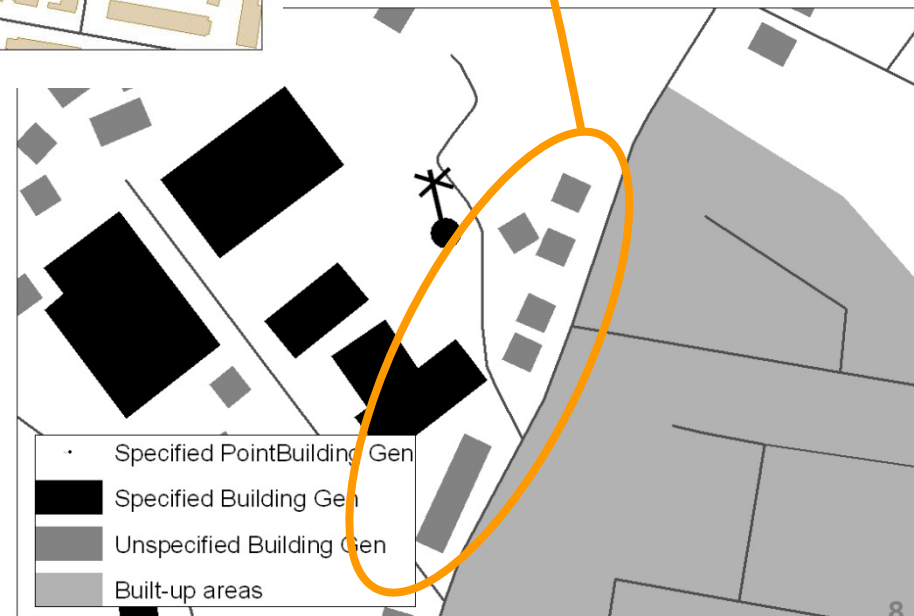
— Depends on the area

- Dense: Creation of built-up area (ArcGIS script)
- Non-dense: generalised automatically (Radius Clarity)

Non-dense



REF



GEN



Update strategy

■ Buildings

■ Non-specified buildings

– Depends on the area

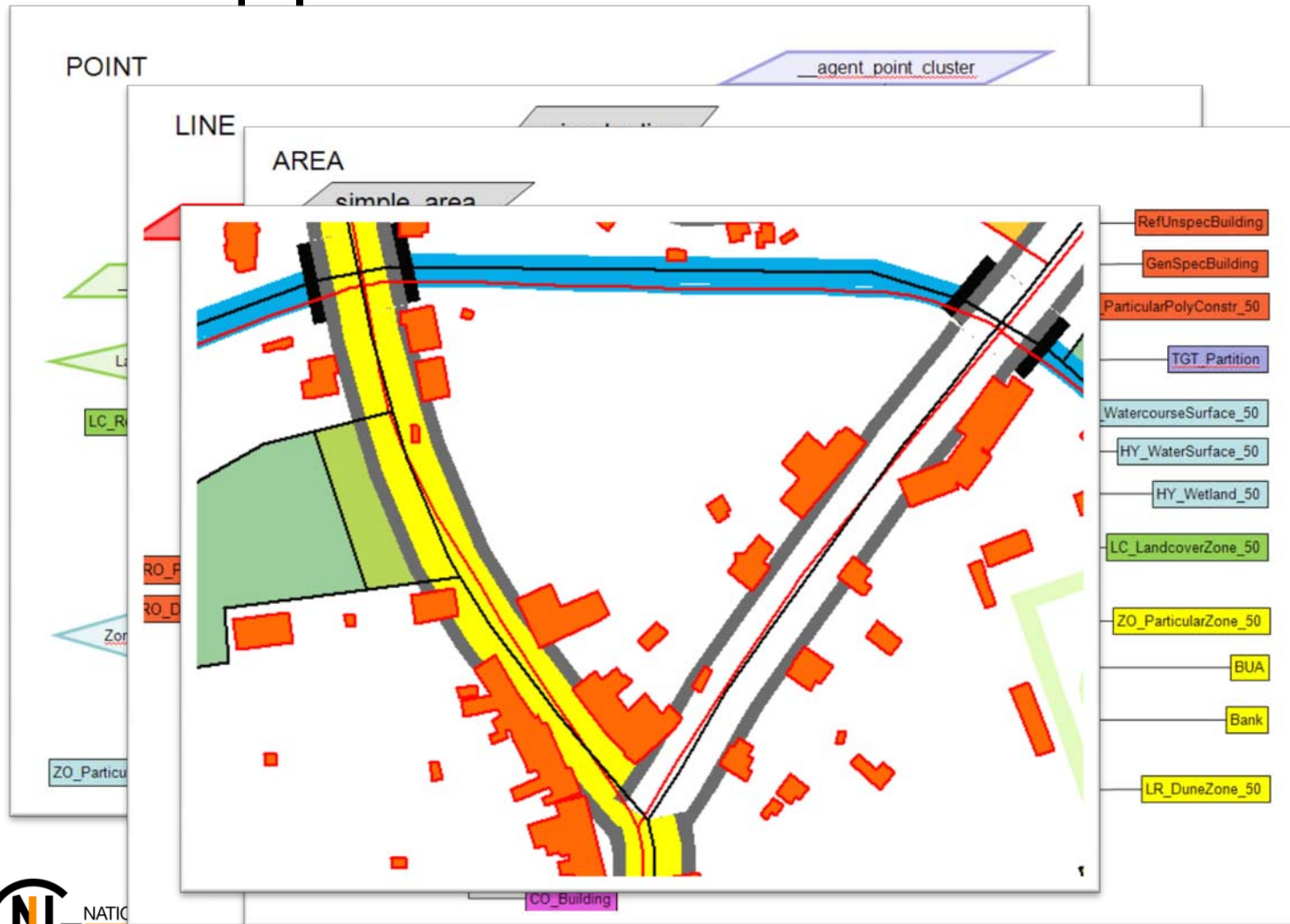
- Dense: Creation of built-up area (ArcGIS script)
- Non-dense: generalised automatically (Radius Clarity)

■ Specified buildings

– Still generalised manually

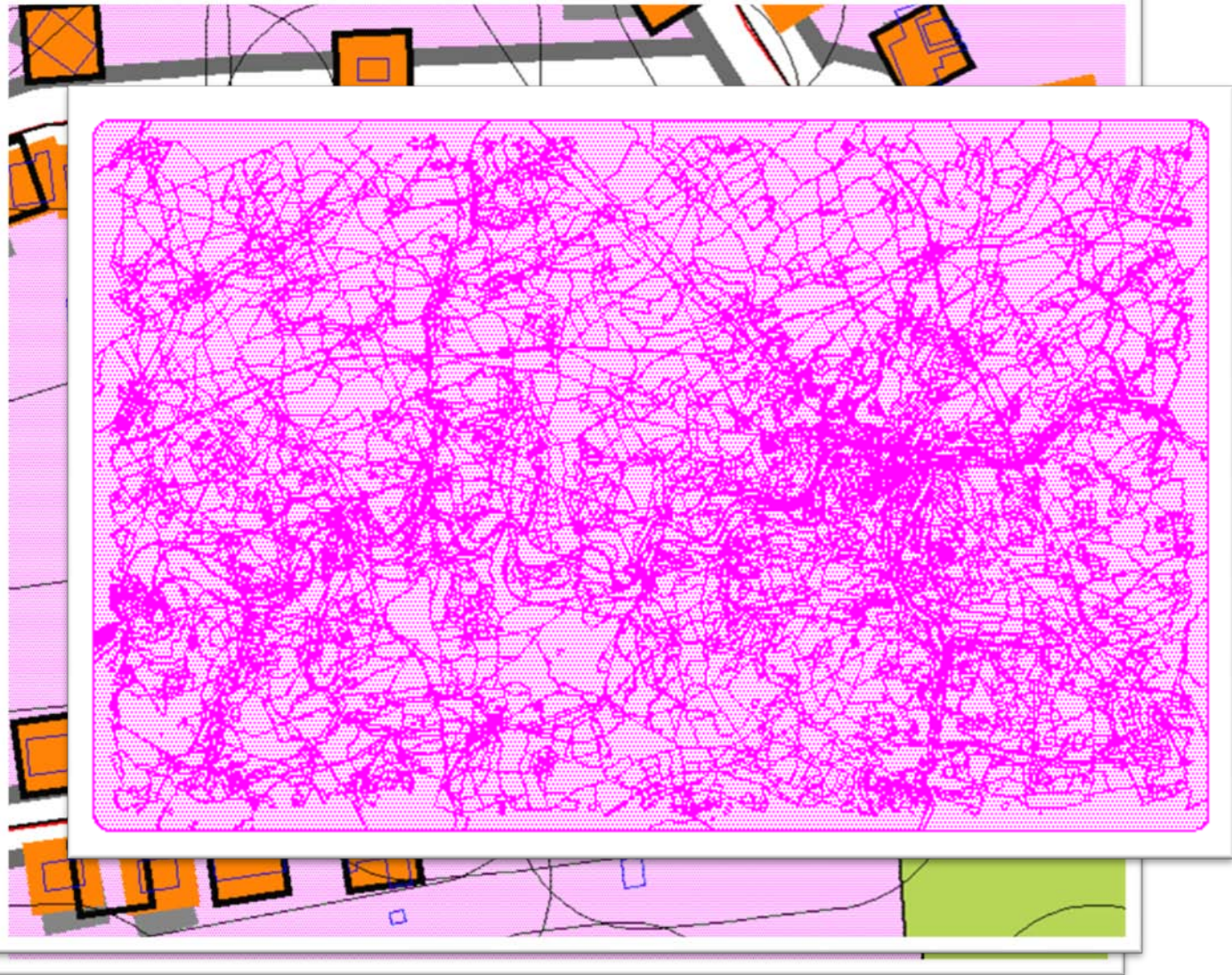
Done work

- Fit our data model in the Clarity data



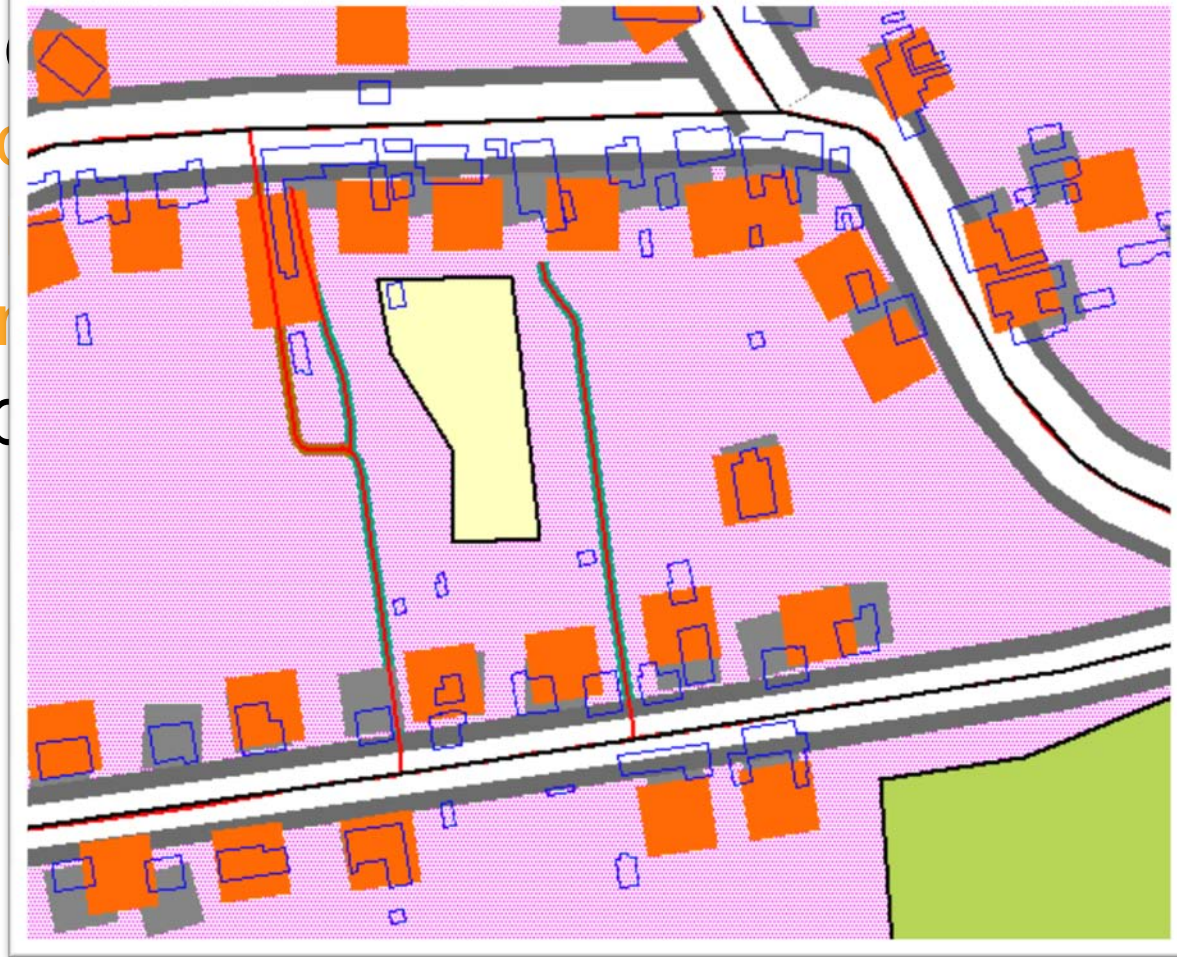
Process methods

Partitioning (meso-agents)



Agent technology

- Simplification of buildings which are large
- S
- G
- E
- Disp



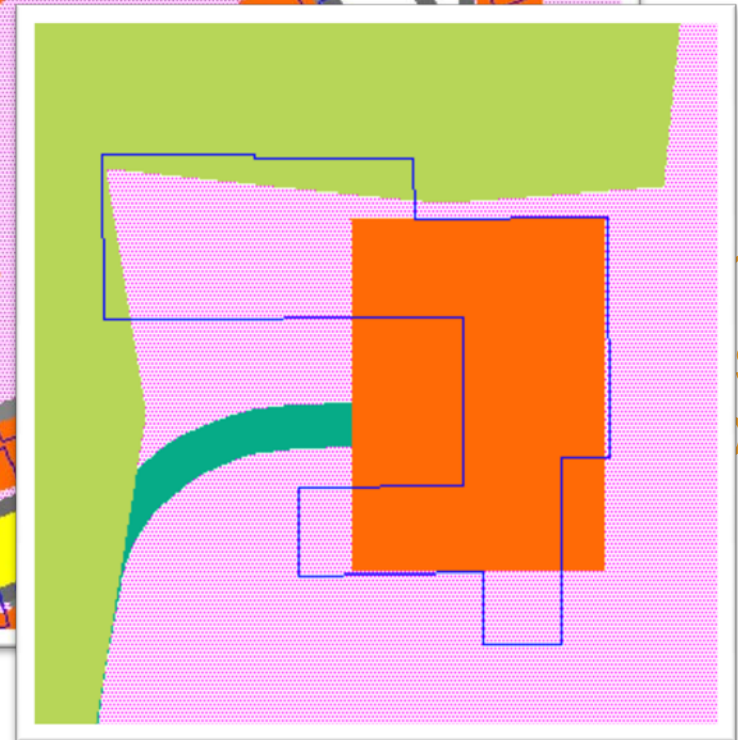
Problems/difficulties

■ Simple

- Ra
- Loc
- ma

■ Display

- Pro
- Co
- no
- Im
- diff

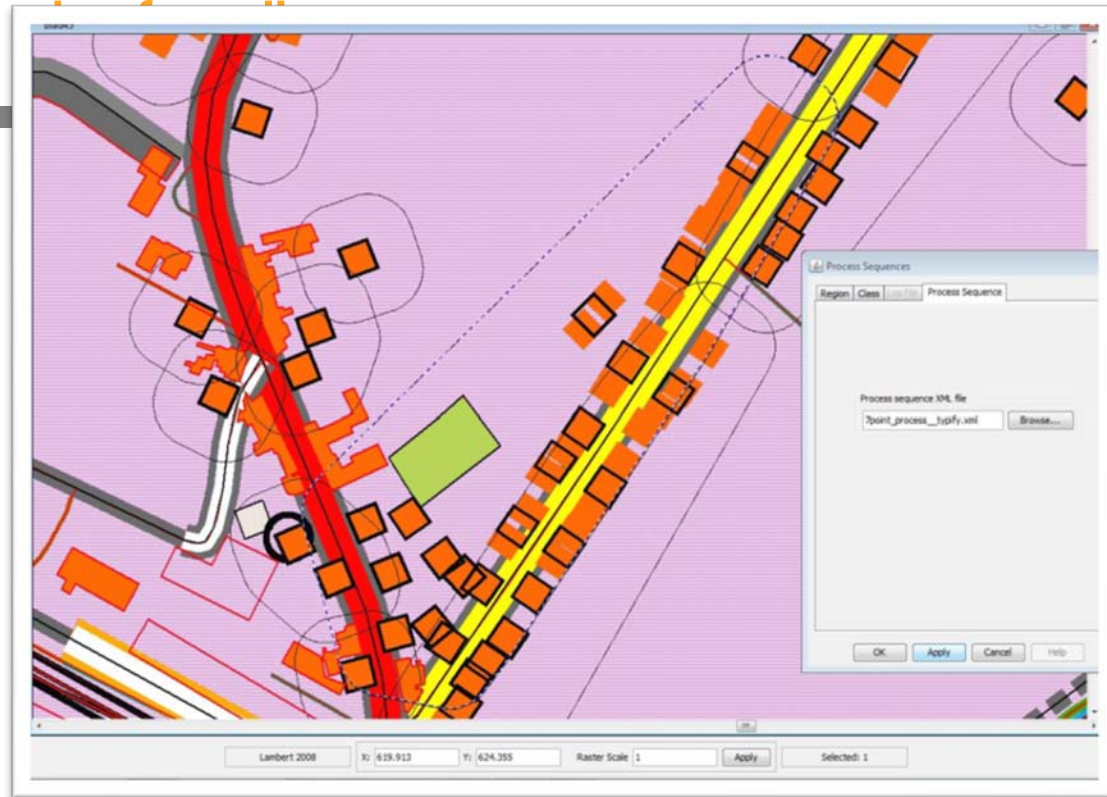


nt
n
ses
ce

Problems/difficulties

■ Typification

- “after point typification, the centre of gravity of the remaining points is the same as





Result

- Gain time?
 - Yes
- Quality improvement?
 - Work in progress
 - Verification still needed