Streetnames
Key Register Topography

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QKEN April 2019 Brussel

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Key Register Topography - before
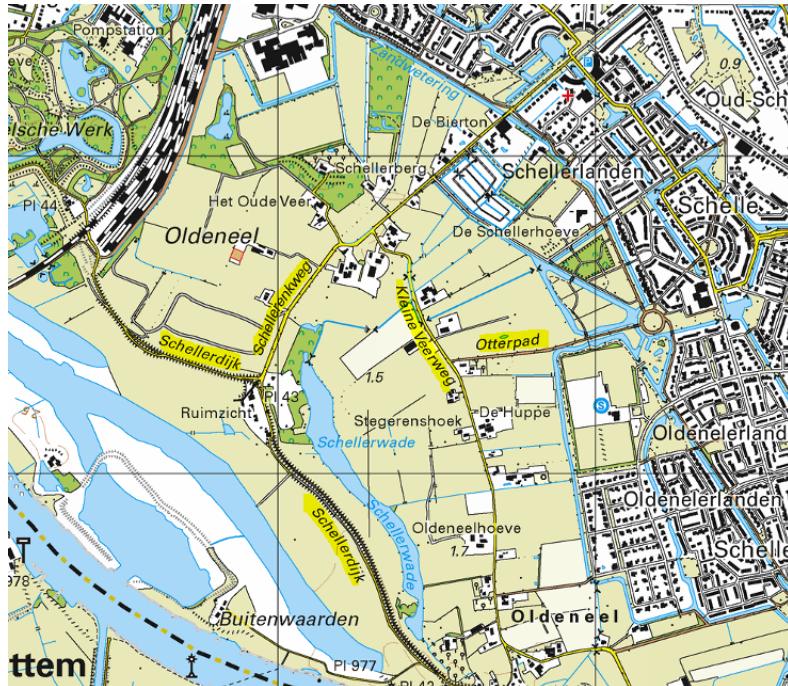
Mainly for annotation purposes, so very limited data (3%).

TOP25 raster

Backgroundmap

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Streetnames in (Key) Registers

Key Register Addresses and buildings:

official source of streetnames and addresspoints, no line or polygon geometry

Key Register Large Scale Topography:

*only labelpoints*

Key Register Topography:

only 3% streetnames

National Roads Database:

incomplete

OpenStreetMap:

no official status

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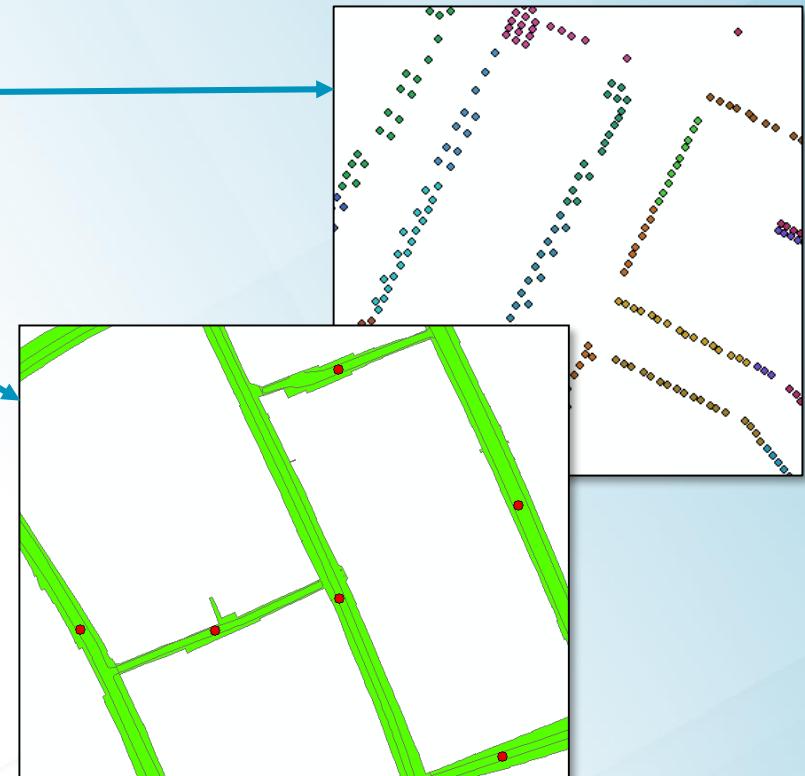
New process

Fully automated process

Quality over quantity (95% quality score)

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New process

5 methods of matching:

- Addresses and Buildings – Voronoi
- Addresses and Buildings – addresslines
- National Roads Database – midpoint
- OpenStreetMap – midpoint
- Large Scale Topography – labelpoints
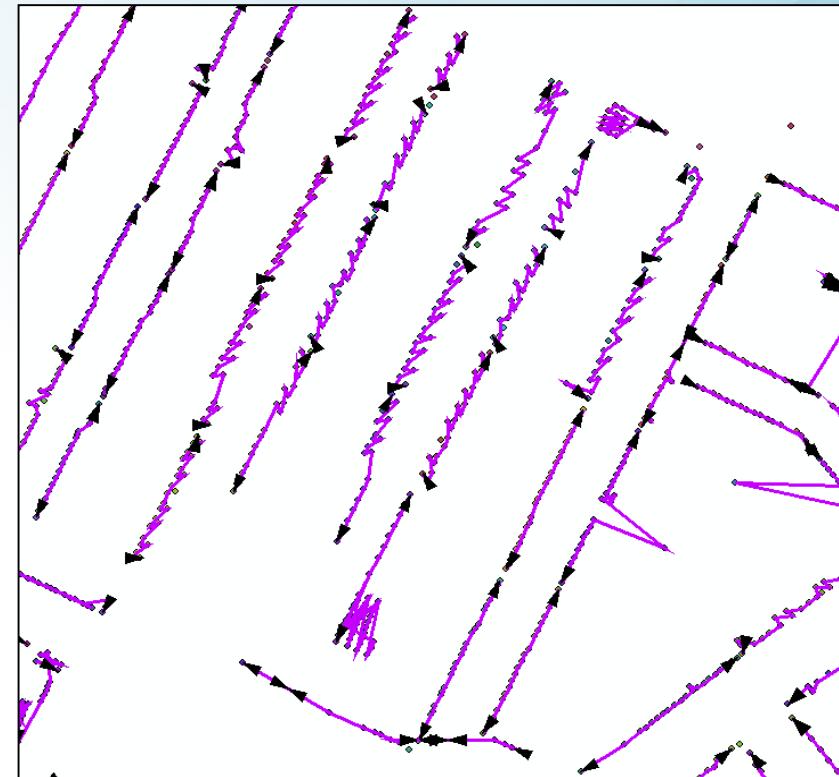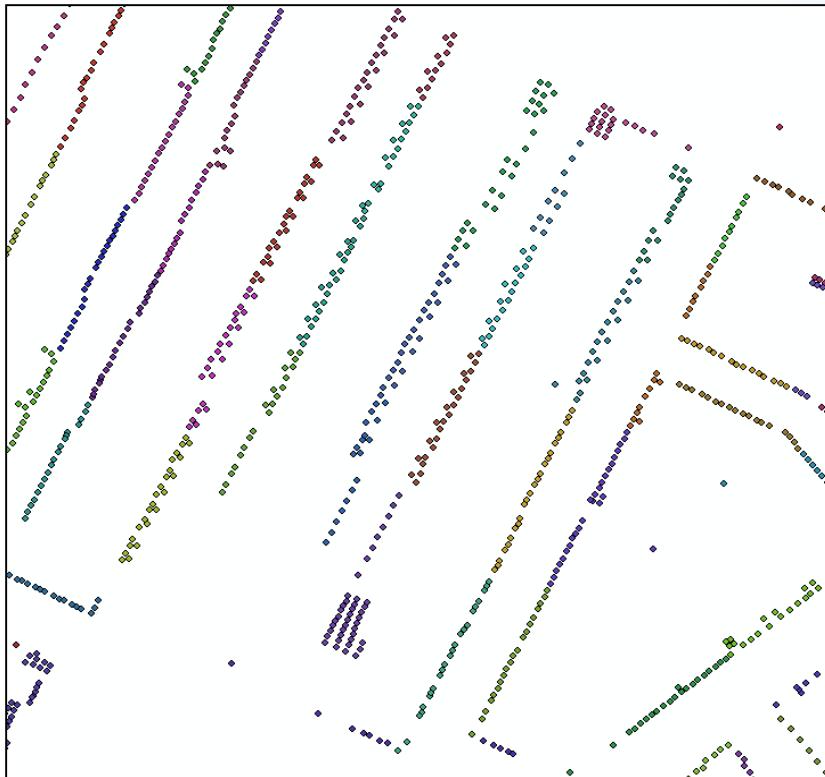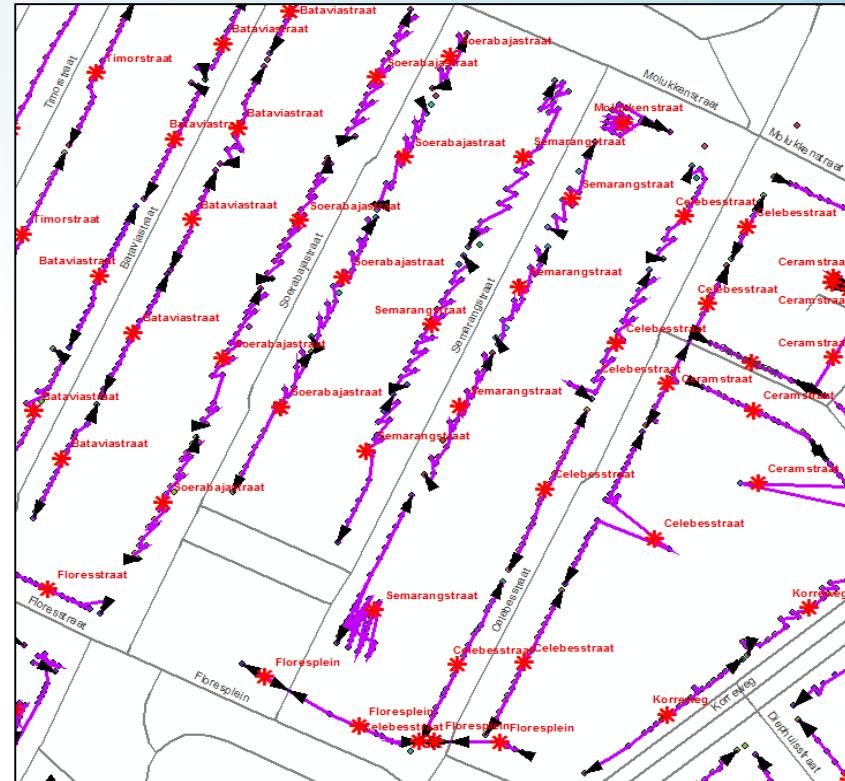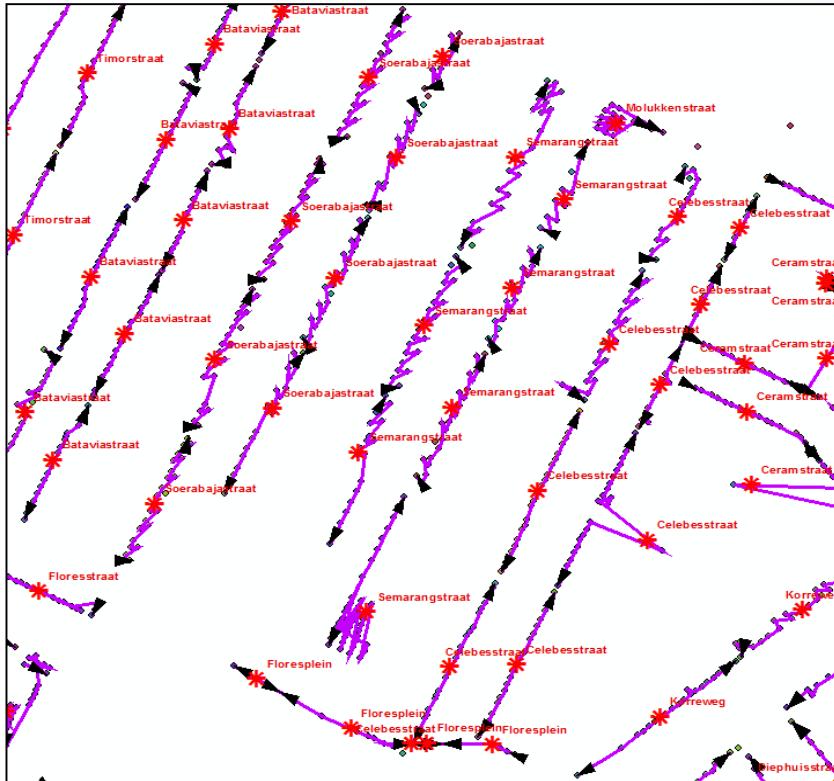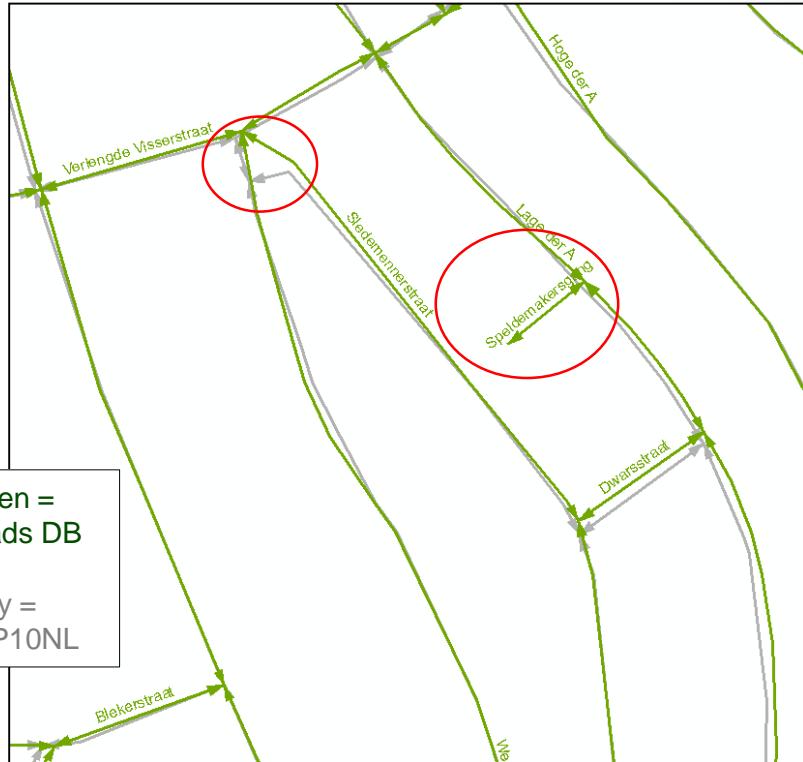
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Addresses and Buildings – Voronoi

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Addresses and Buildings – addresslines

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Addresses and Buildings – addresslines

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National Roads Database – midpoint

Green =
Roads DB

Grey =
TOP10NL

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OpenStreetMap – midpoint

Same process as Roads DB

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Large Scale Topography – labelpoints

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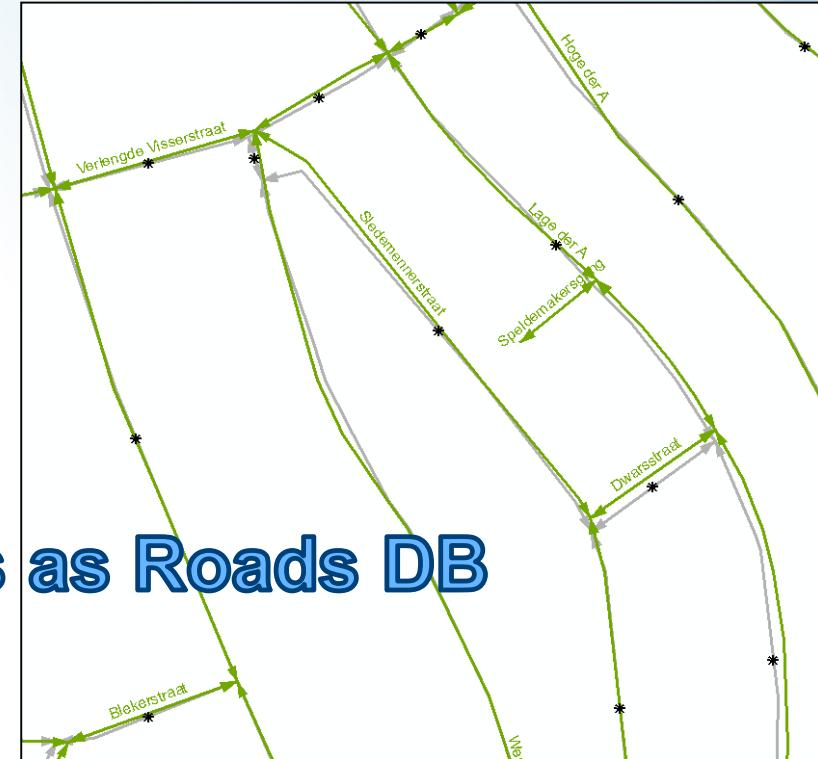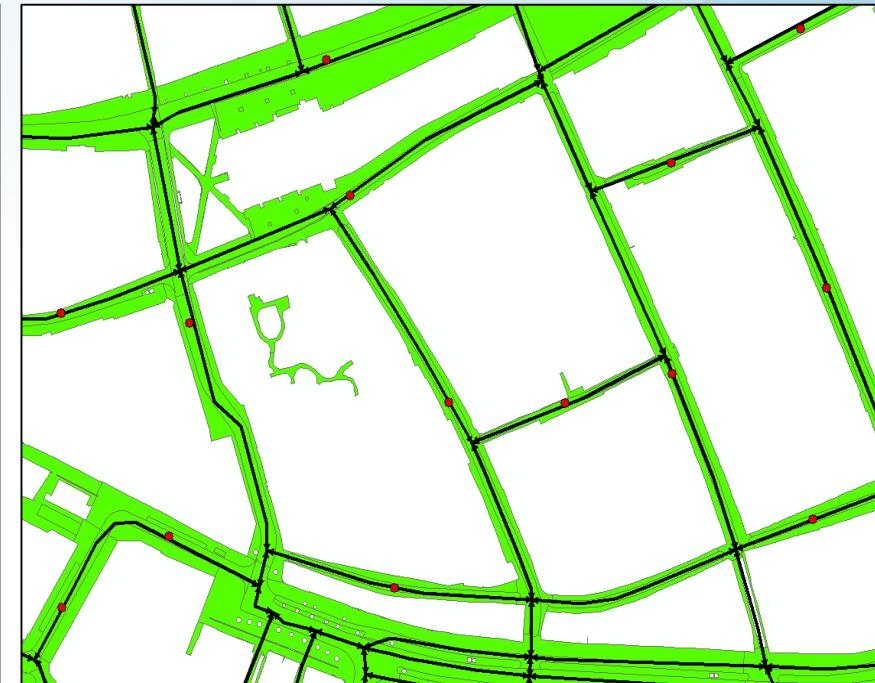
5 matches 1 name

Assignment on:

- Road type

- Length heartline

- Name3of5

- Name2of3 (excl. AddressesBuildings)

	AddressesBuildings_1	AddressesBuildings_3	RoadsDB_2	OSM_2	LargeScaleTopography_2
Name3of5					
Name2of3					

Type weg	Minimum length	Name2of3	Name3of5
Highway	150 m		
Regional road	20 m		
Main road	20 m		
Local road	7,5 m	1	2
Street	7,5 m	2	1
Other	7,5 m	2	1
Ferryline			
Airstrip			
Rolbaan, platform			

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Production

- Python (arcpy) and FME
- Scheduling by Hangfire workflows

- Sourcedata from internet
- Divide data into 12 provinces
- Calculate 5 methods
- Assign streetnames and integrate 12 provinces

- Production 5 times a year

Results

88% of streetnames in Key register Addresses and Buildings are now in Key register Topography

51% of roads in Key Register Topography have a name

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Crowdsourcing

Improve the map (verbeterdekaart.nl)

- We get feedback with regards to a streetname and we update this in TOP10NL

- Our streetname process will overrule this change again next run.

- So we keep a list of TOP10NL-ID's with manually corrected streetnames

- This list is now part of our process, so we don't overwrite it

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Future developments

- Bridge and tunnel names
- Finetuning of the methods
- Dealing with 'holes' in streetnames
- Roundabouts

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