

Data capture section

- Main task:
 - ◆ Update N50 – N5000 Map data
 - ◆ Produce 100 map sheet of 'Norway 1:50 000' each year
 - ◆ Establish and maintain wms-services

24 staff members



N50 Map data central in the value link

Kildedata som benyttes:

- VBASE (veger)
- GAB (bygninger)
- ABAS (adm. grenser)
- SSR (stedsnavn)
- Ortofoto
- FKB A-C
- FKB-D (nykonstruksjon)
- Naturbasen (naturvernområder)
- DNT (stier og hytter)
- Jernbaneverket (stasjoner)
- Hovedkartserien for Sjøkart (fyr, lykt, kai, moloer)
- Punktarkivet (trig. punkter)
- Naturbasen (naturvernområder)
- NVE (løpenummer på innsjøer)
- Statskog (statsallmenninger)
- NRL (kraftspenn, master)
- Forsvaret (skytefelt)
- Fylkesmannen i Finnmark (barmarksløyper)
- Ulike publikasjoner på internett og bøker
- Henvendelser fra interne og eksterne brukere
- ++



N50 Kartdata



Norge 1:50 000

N50 Raster

WMS-tjenester



N250 Kartdata



N500 Kartdata



N1000 Kartdata



N2000 Kartdata



N5000 Kartdata

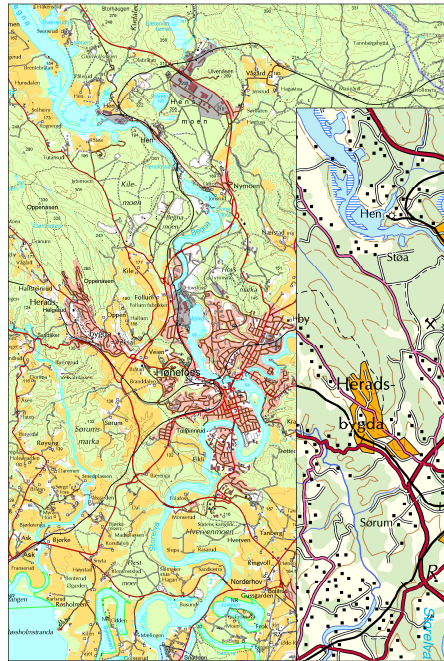
Benyttes også i et utall analoge og digitale eksterne produkter

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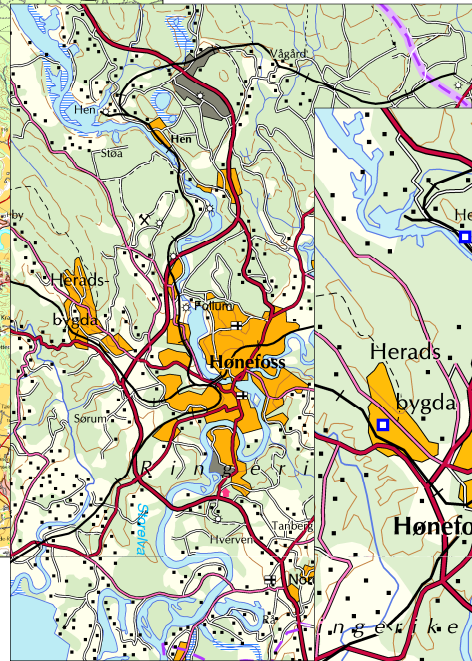


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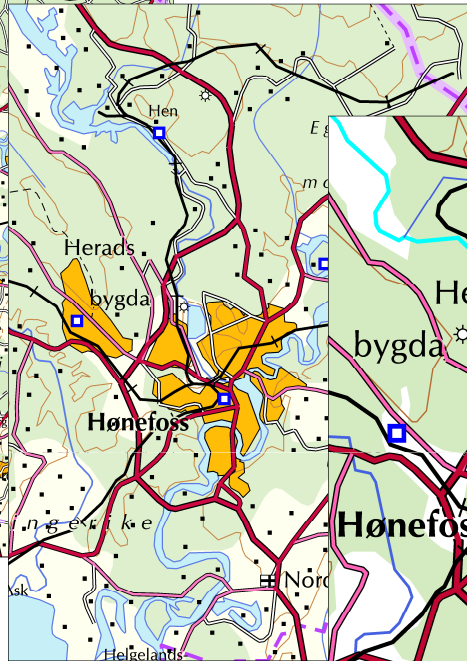
N50-N5000 Map data



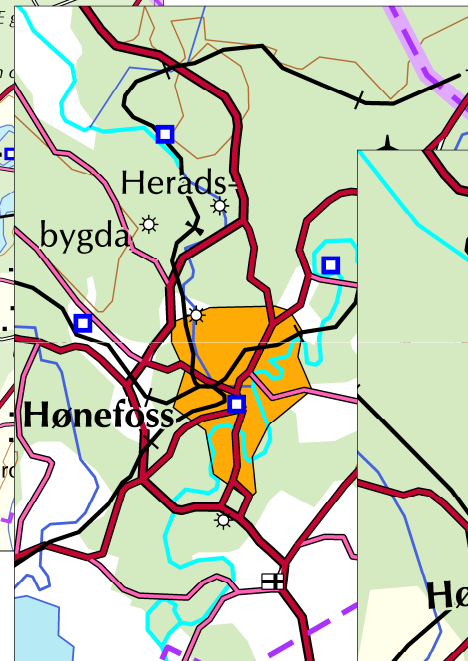
N50 Map data



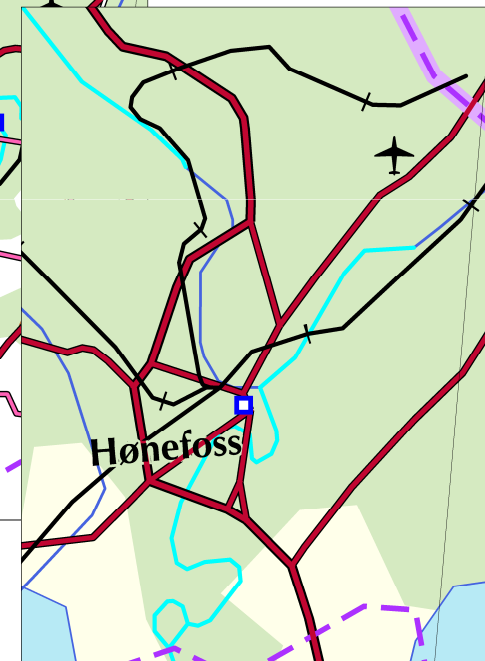
N250 Map data



N500 Map data



N1000 Map data



N2000 Map data

Generalizing from map database to map

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Primary data sources

The most accurate and updated geographical information

GAB

- Properties
- Addresses
- Buildings
- Every building bigger than 15 m²

FKB

- The main database for geographic data in bigger scales (1:5.000 - 1: 10.000)
- Cover 60 % of the country

ABAS

- Administrative boundaries

VBASE

- Road network
- Every road longer than 50 meters

SSR

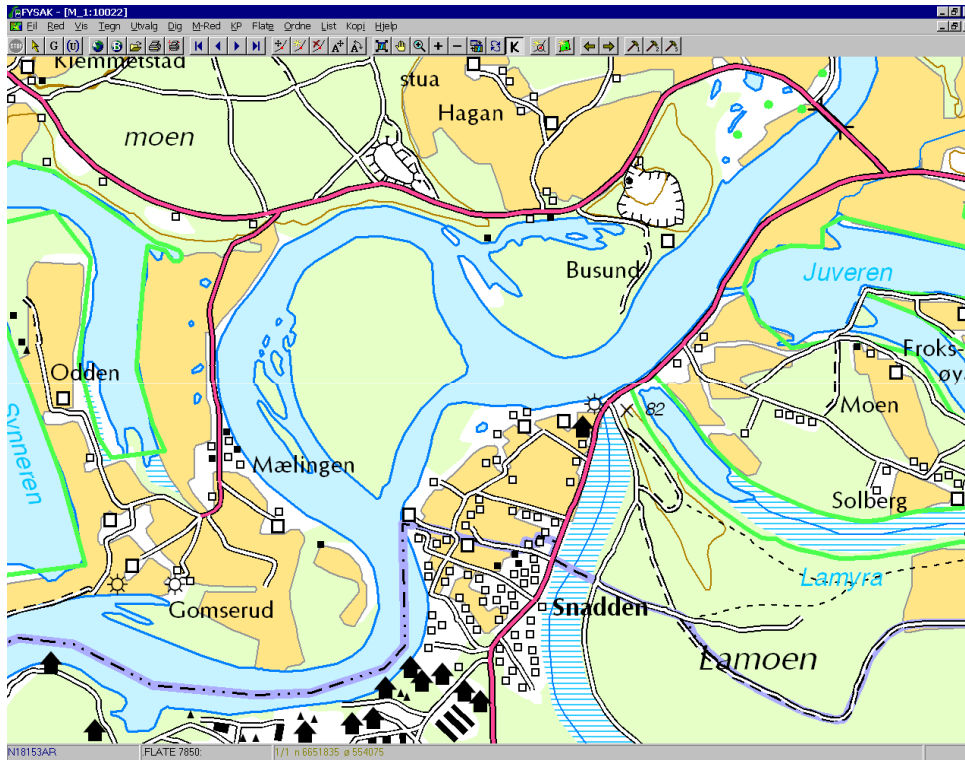
- The national place name register
- Almost 800 000 names

Ortophoto

- Pictures with a ground solution of 10-50 cm



N50 Map data

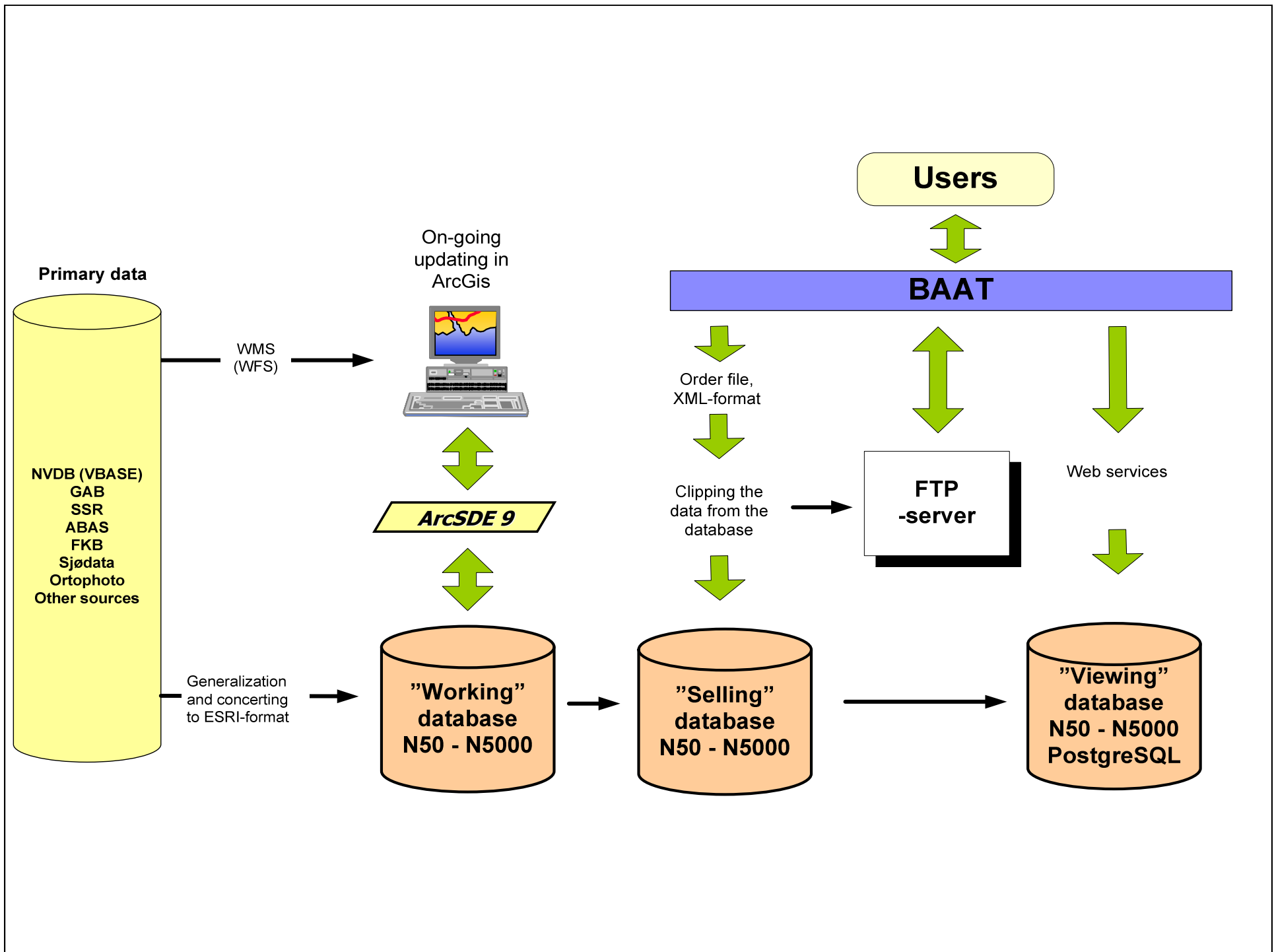


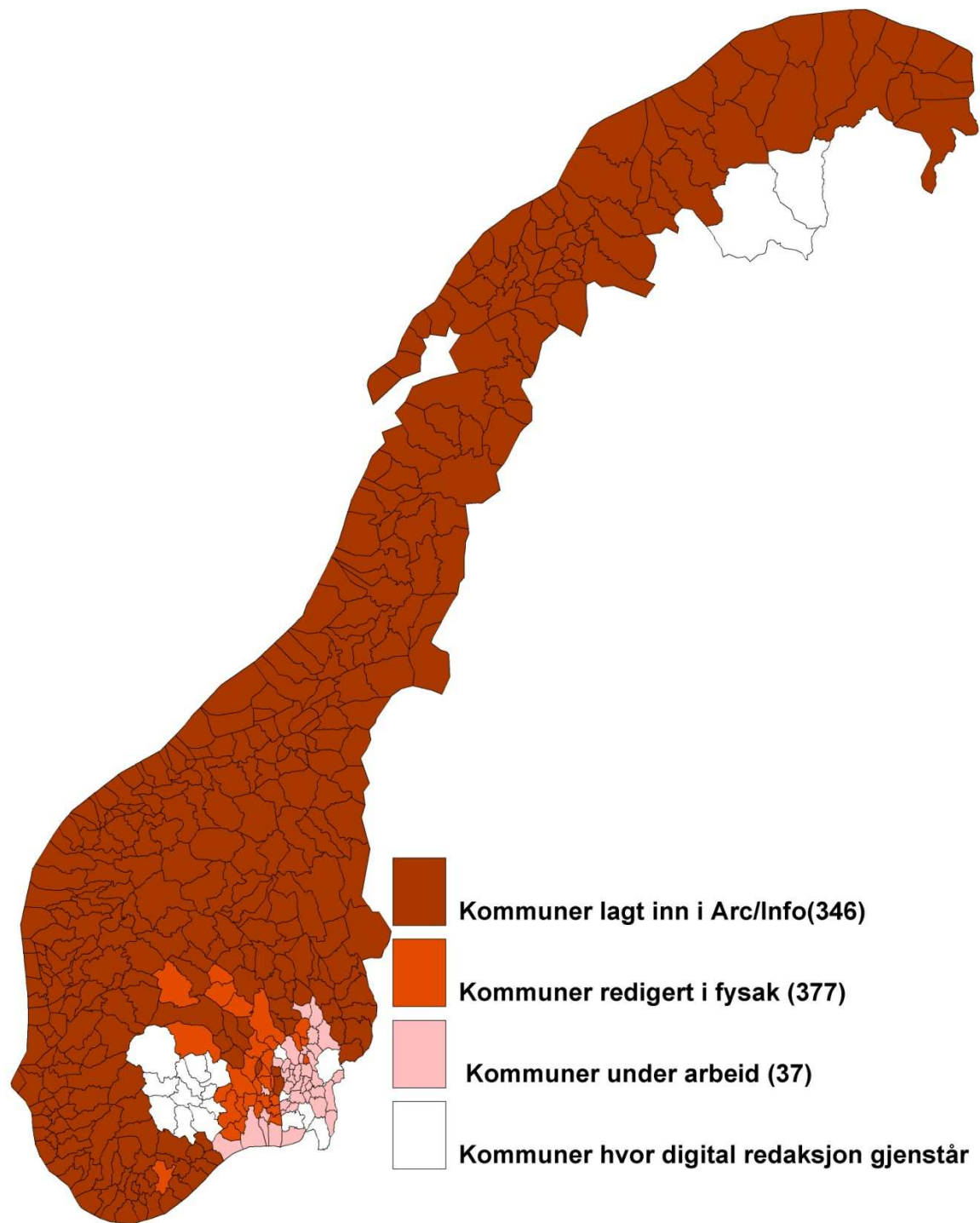
- **Polygonised**
- **Seamless**
- **Organised in 7 themes:**
 - ◆ Place names
 - ◆ Administrative boundaries
 - ◆ Restrictive boundaries
 - ◆ Buildings and installations
 - ◆ Communications (Roads, tracks and railroads)
 - ◆ Terrain and height
 - ◆ Land area and hydrographical data

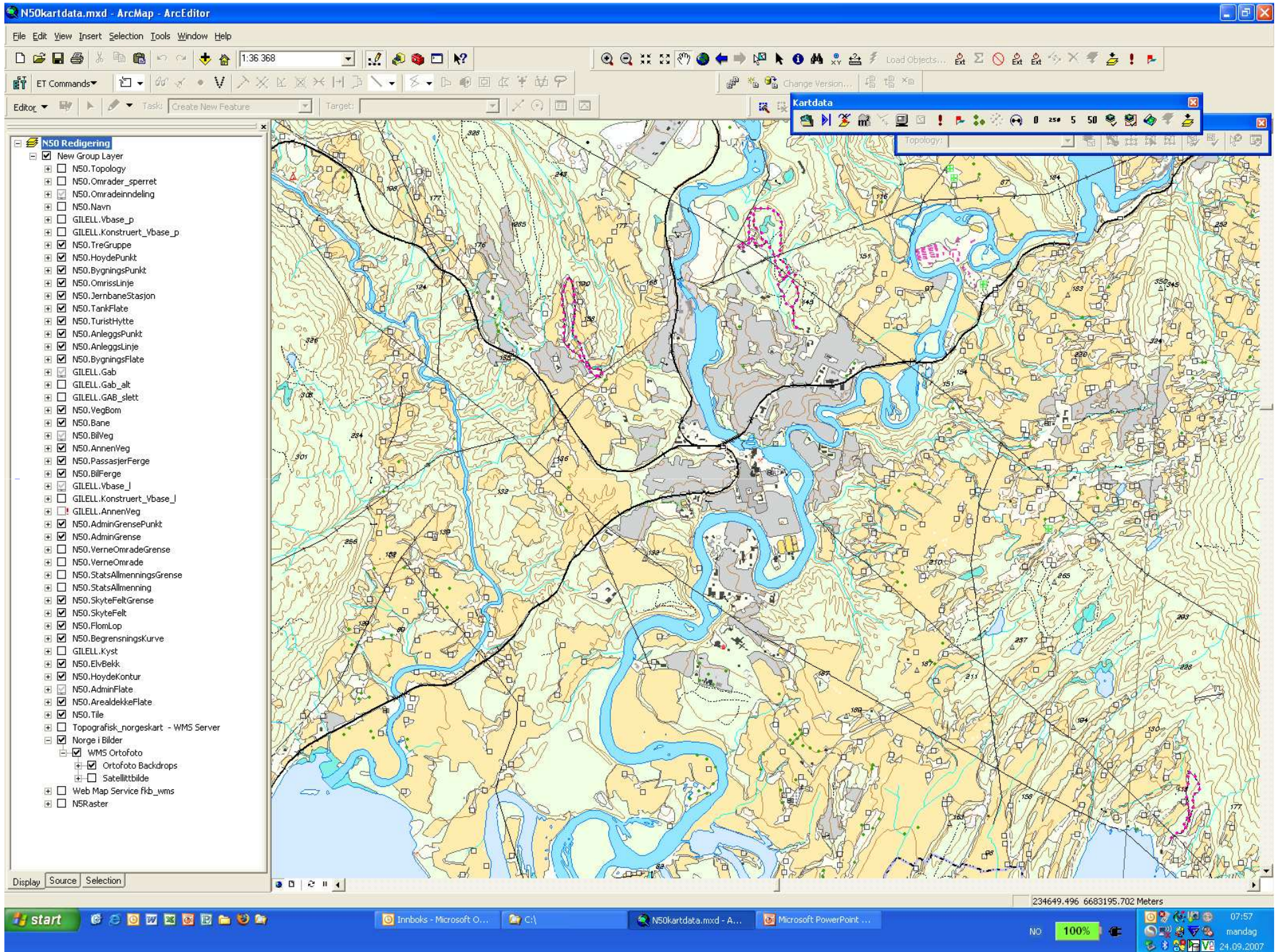
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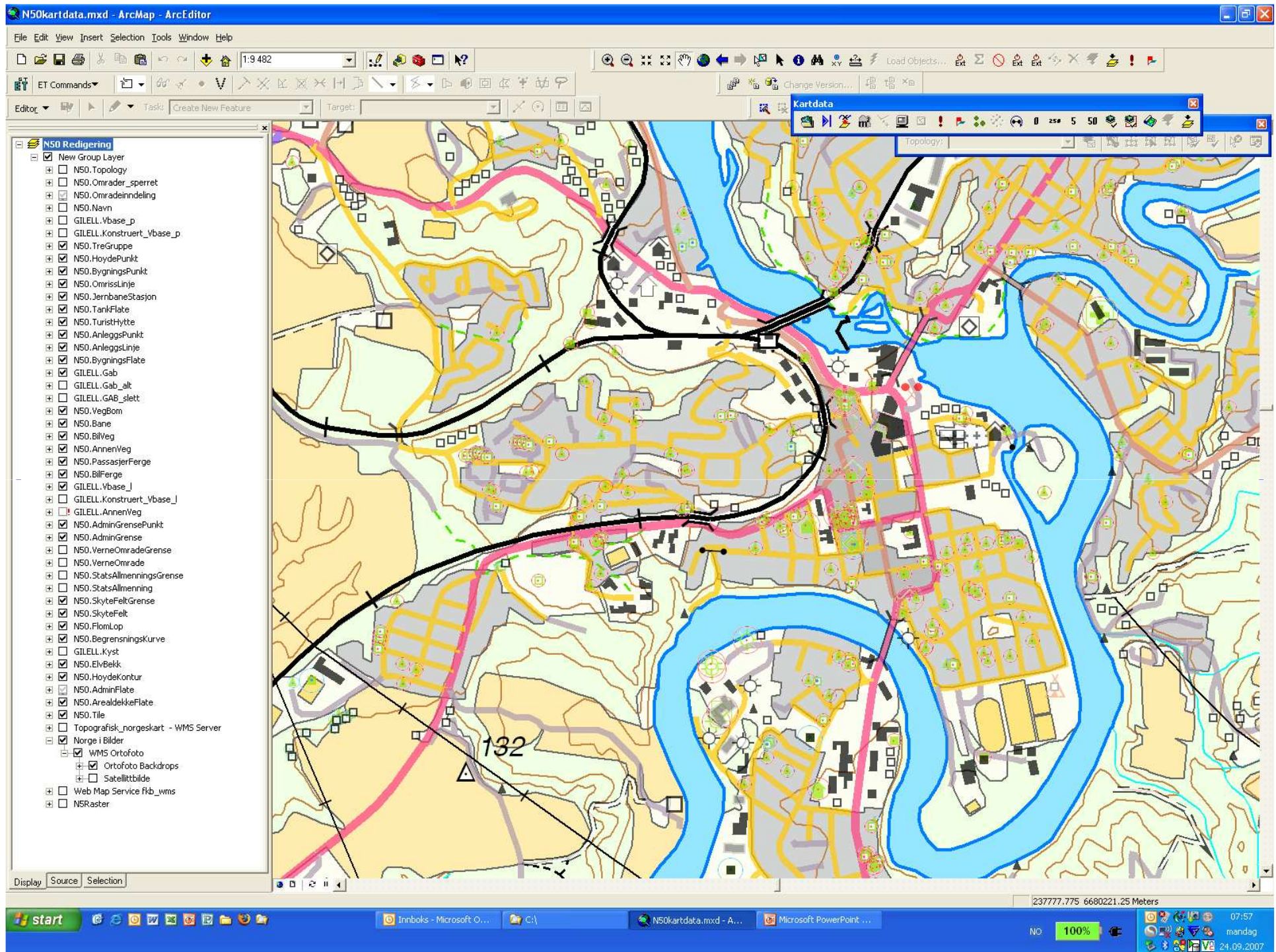


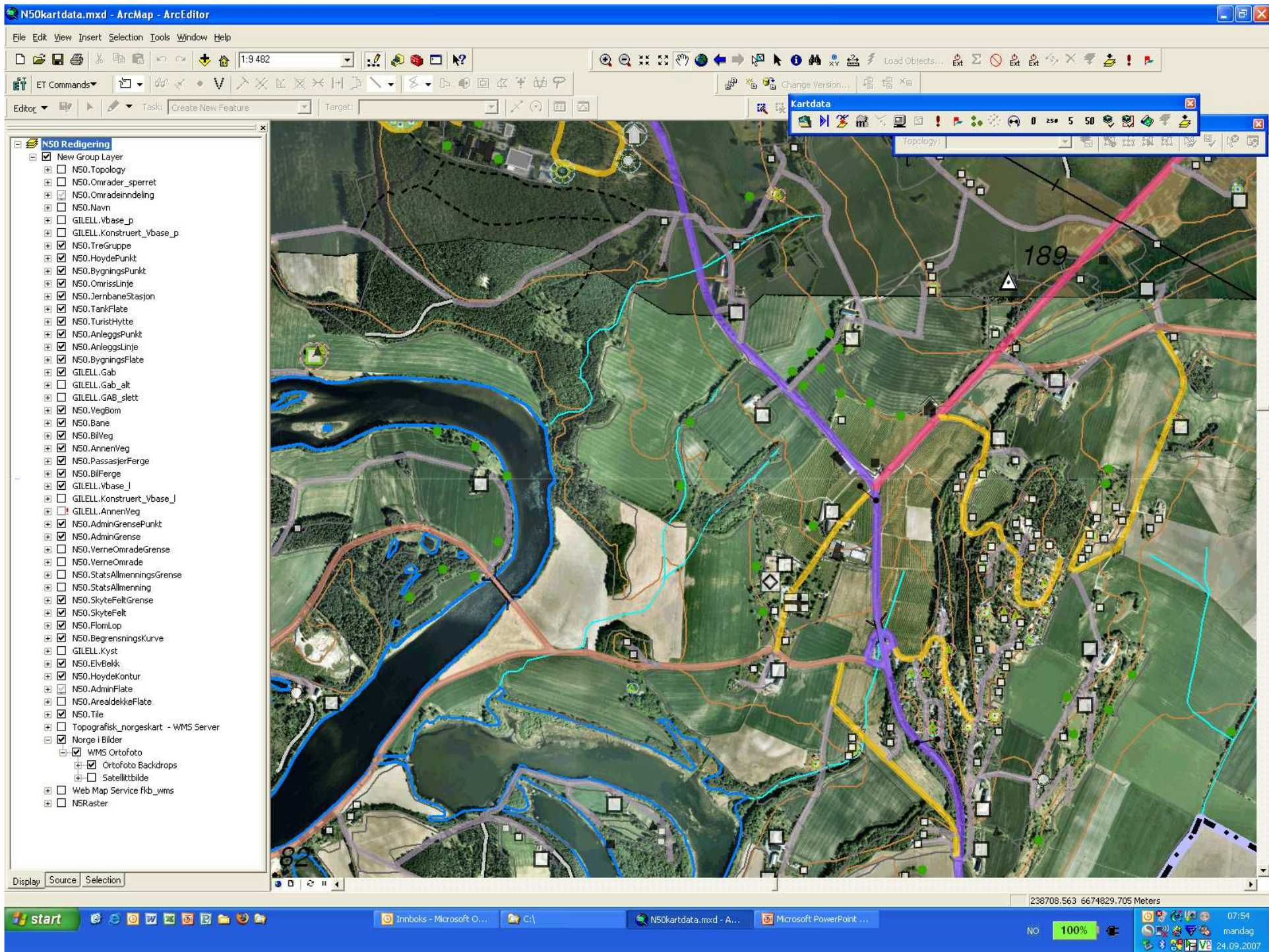
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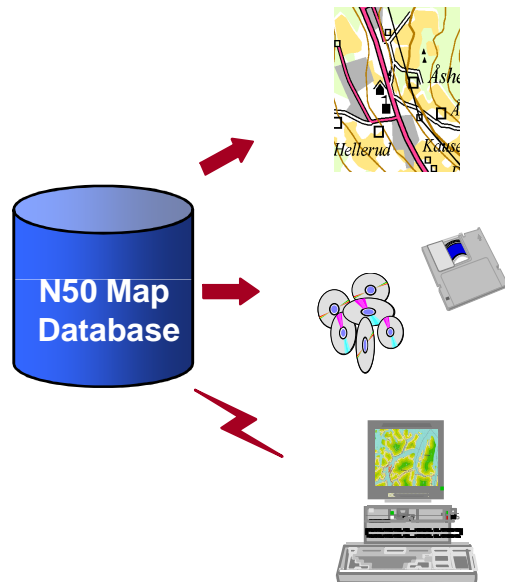








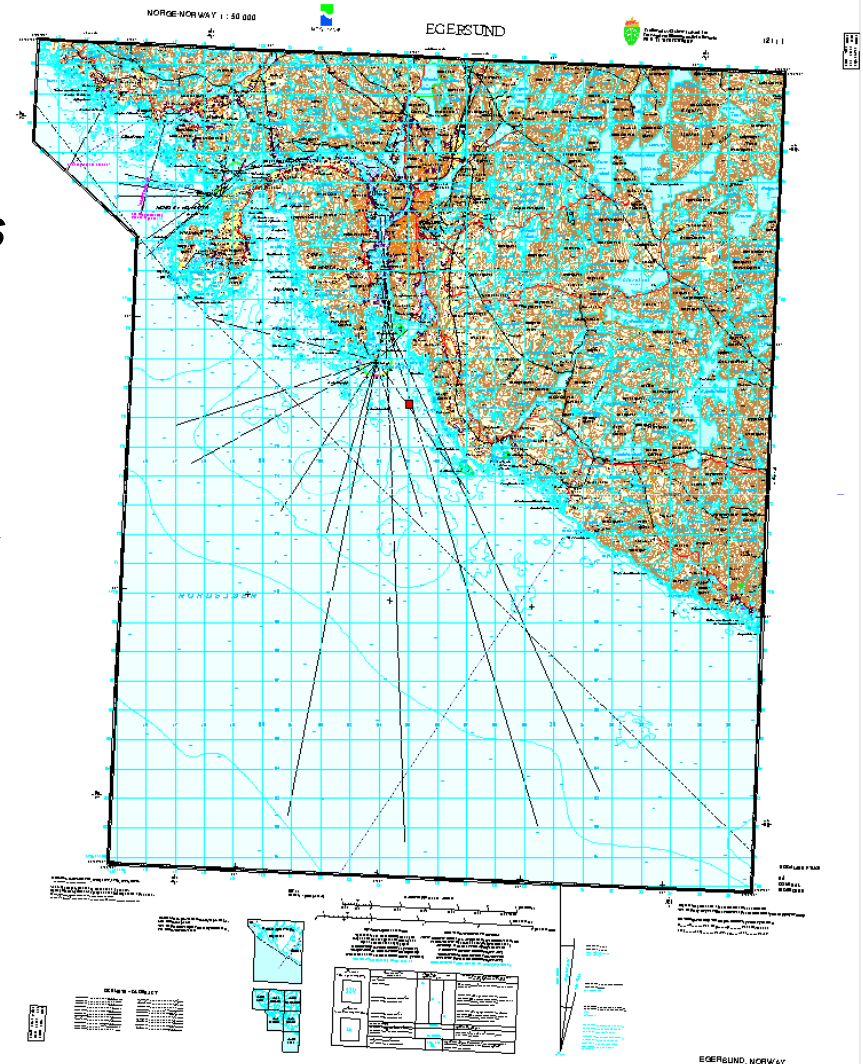
Result after updating of N50 Map data



- The N50 Map data set is used to make:
 - ◆ Printed maps
 - ◆ Data for cartographic products
 - ◆ Data products for GIS-analyses
 - ◆ Source for updating N250 Map data
- BUT, - what is the quality of the map data?
 - ◆ It's important to have in mind, that N50 Map data will not be better than the primary data sets.

Main map series Norway 1:50 000

- **Combined land and sea information**
 - ◆ *52 % of Norway's 727 map sheets have sea information.*
 - ◆ *Will not be a juridical map, like the sea maps.*
- **Increased the productivity**
 - ◆ 1980: 40 cartographers produced 40 maps
 - ◆ 2010: 3 cartographers produced 100 maps

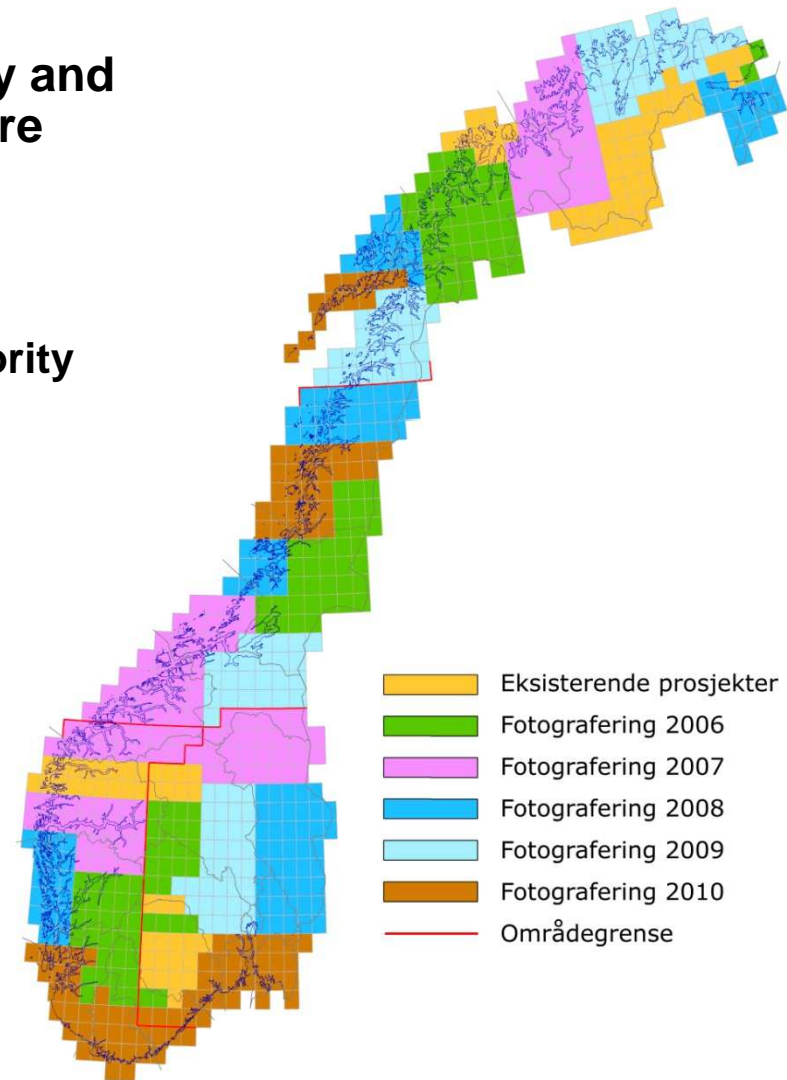


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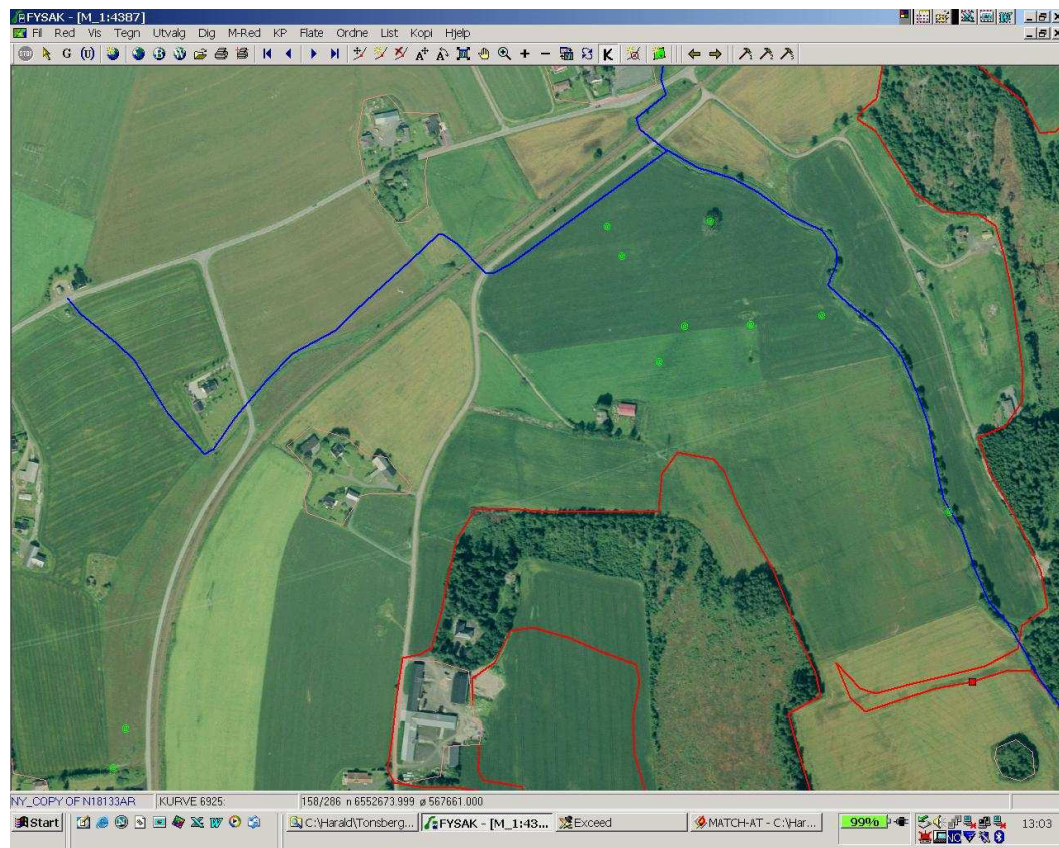
Aerial photo (digital stereo-models and ortophotos)

- Agreement to take aerial photo annually and cover Norway with aerial photo in picture scale of 1:35 000 within 6 years.
- Cooperation with:
 - ◆ Norwegian Mapping and Cadastre Authority
 - ◆ The Norwegian Forest and Landscape Institute
 - ◆ Ministry of Government Administration and Reform
 - ◆ Norway digital partners



UltraCamX
Ytre Sogn 2007
Picture scale 1:65 000



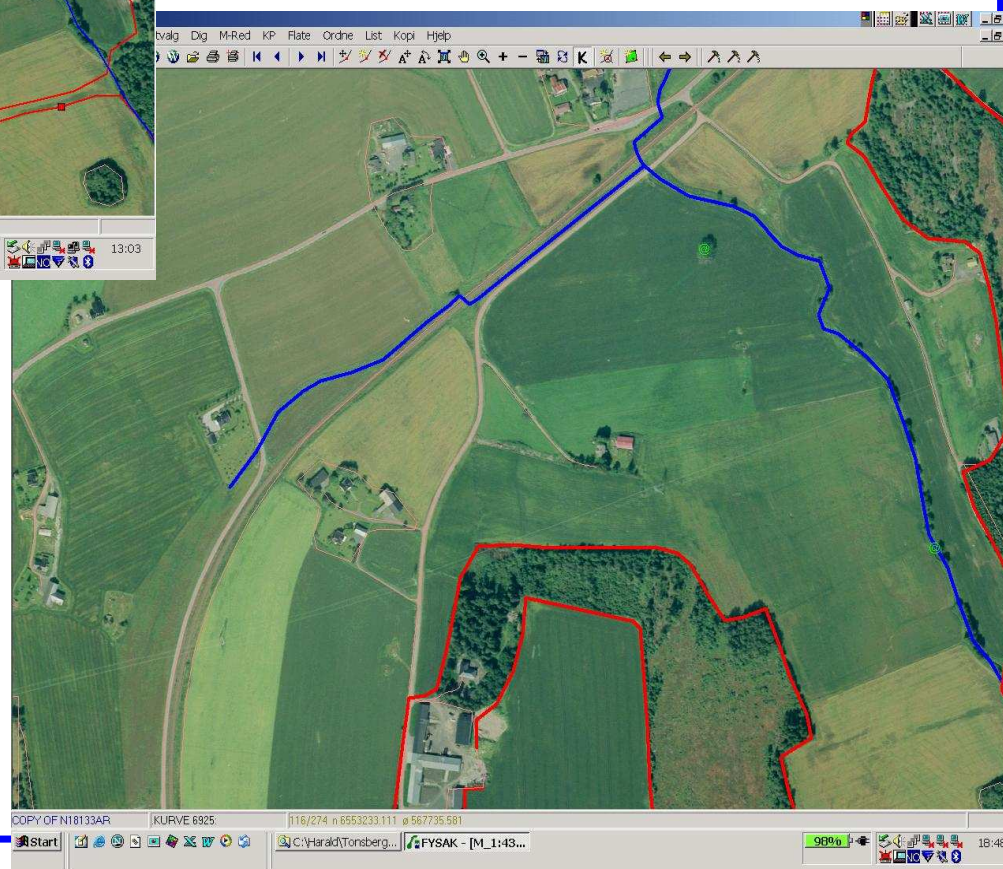


Water system moved
Cultivated area change
Tree groups moved

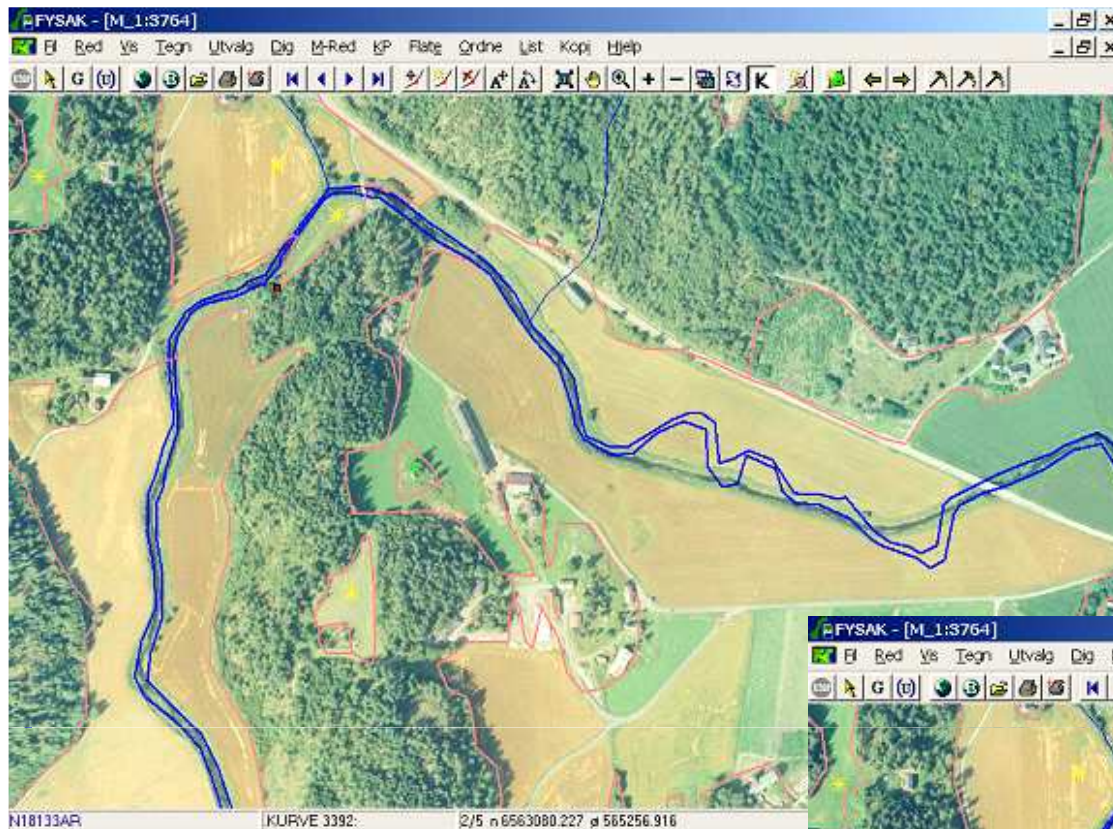


Before updating

After updating



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Water system moved

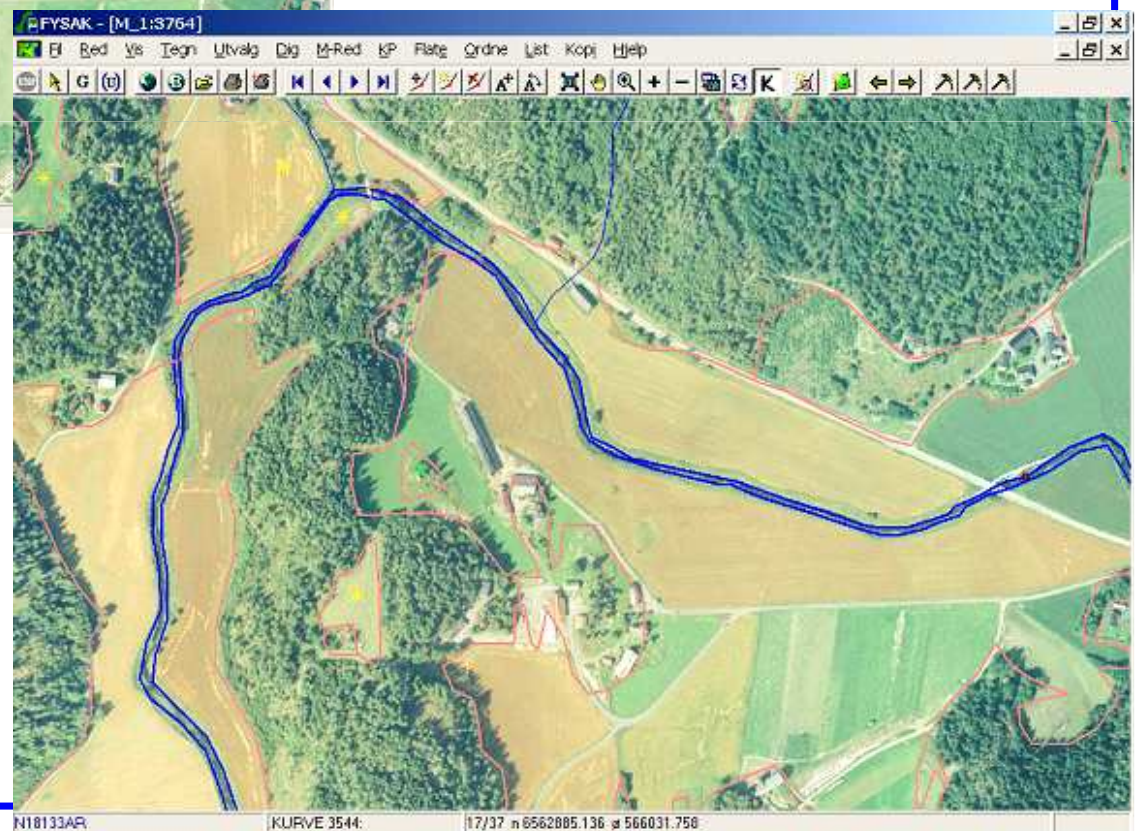


Before updating

After updating



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Good private road

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Track after a
felling machine



Not a tractor road
Not a path

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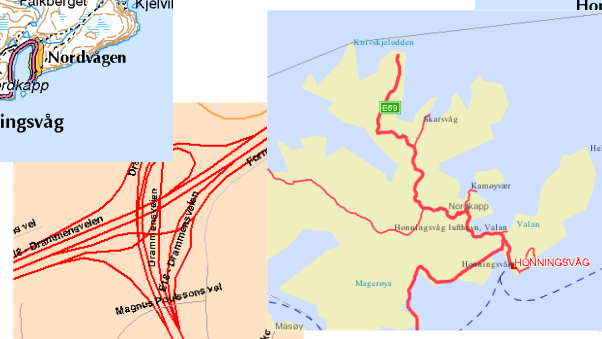


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Our products – land division

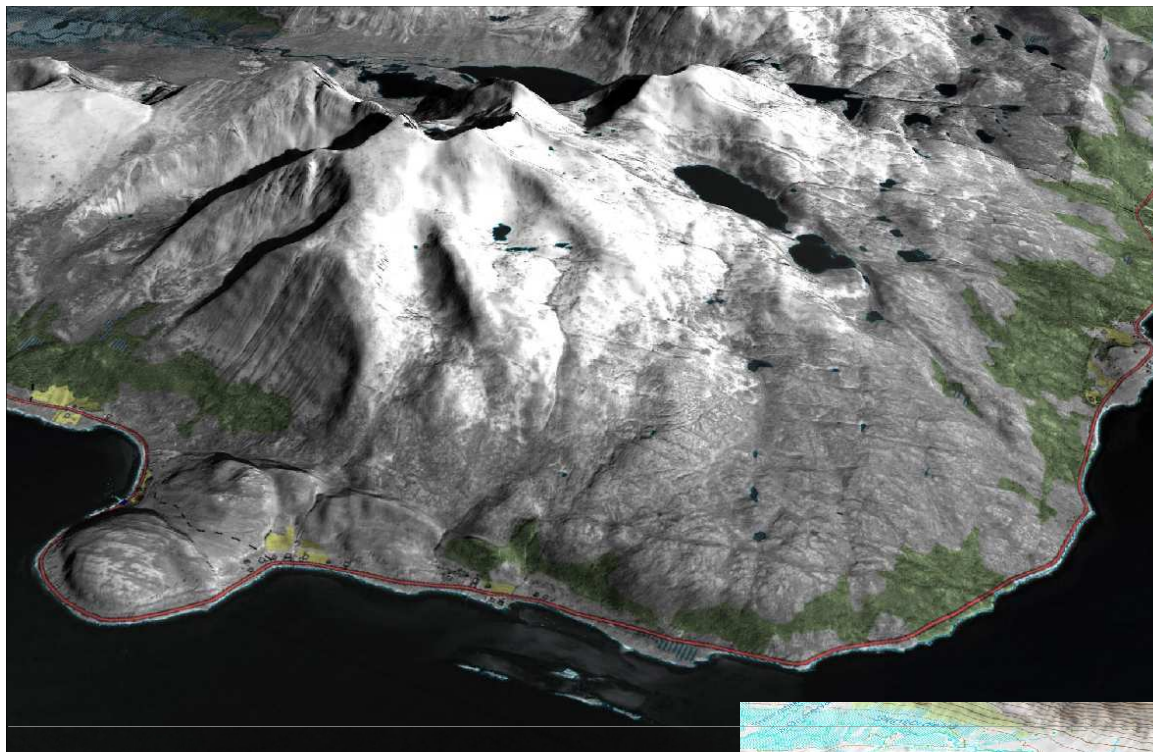
Distributing via Norsk Eiendomsinformasjon

- **Vector data**
 - ◆ N50 Map data
 - ◆ N250 Map data
 - ◆ N500 Map data
 - ◆ N1000 Map data
 - ◆ N2000 Map data
 - ◆ N5000 Map data
- **Raster data**
 - ◆ N50 Raster data
 - ◆ N250-N5000 Raster data
- **Paper maps**
 - ◆ Norway 1:50 000
- **Administrative boundaries**
- **Names from central place name register (SSR)**
- **Road database (Vbase)**
- **PAB (properties, addresses, buildings)**
- **3D terrain model**



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**Kombinasjoner av
N50 Kartdata,
DTM og ortofoto**

Vanntinden i Troms

**Karel Kriz
Universitetet i Wien
Kartografi og GIS**

