

REFERENCES – SELECTED PROJECTS 2006-2008

GEOVEKST Akershus 2008

Customer: The Mapping Authority, Oslo
 Contact: Morten Hoff

Contract amount: NOK 8 364 807 (+VAT)
 Project period: April 2008 – December 2008
 Part deliveries: 01.09 / 01.10 / 01.11
 End delivery: 01.12.2008



The project covers a total of 802 km² over 7 municipals in the Follo region, Lørenskog and Ullensaker municipalities in Akershus county. The contract work consists of:

- Land survey.
- Aerial photo with digital camera, Vexcel UltraCamX, GSD 7 and 10 cm. Two separate flights for respectively mapping and orthophoto. A total of 1652 line km and 4500 images.
- Laser scanning with Optech GEMINI, DTM10 and custom-made delivery suitable for the calculation of forest inventory variables.
- Aerial triangulation.
- Mapping in accordance with SOSI 4.0 with option “TaksprangBunn” – a total of ca 90.000 buildings.
 - o FKB-A mapping of 13,6 km²
 - o FKB-B mapping of 788 km²
- Orthophoto production – 2447 images, resolution 7 and 10 cm.

Stavanger 2007

Customer: Stavanger Municipality
 Contact: Eirik Mannsåker

Contract amount: NOK 4 439 500 (+VAT)
 Project period: April 2007 – February 2008
 Part deliveries: 01.11.07, 01.12.07 and 01.02.08
 End delivery: 29.02.2008



The project covers all of Stavanger municipality, a total of 71,4 km². The contract work consists of:

- Aerial photo with digital camera, Vexcel UltraCamD, GSD 7 cm. A total of 406 line km and 800 images.
- Laser scanning with Optech ALTM 3100, DTM10.
- Aerial triangulation.
- Mapping in accordance with SOSI 4.0 FKB-A standard.
- Orthophoto production – 800 images, resolution 7 cm.

During fall 2008, we have, in cooperation with Stavanger municipality, produced a 3D city model over the entire municipality, based on the data from this project and Pictometry oblique imagery which is draped on all the 50.000 buildings in Stavanger.

Framework agreement for Trondheim municipality 2008-2011

Customer: Trondheim municipality
 Contact: Otto Richard Eide

Contract amount: NOK 4 466 444 (+VAT)
 Project period: April 2008 – December 2010 – annual delivery within 01.12.

The project covers a total of 110 km² and includes the urban areas of Trondheim municipality. During the contract period, the intention is to produce newly designed map data of the entire project range, in addition to an annual production of orthophotos.

The contract work consists of:

- Annual aerial photo with digital camera, Vexcel UltraCamX, GSD 7 cm. A total of 203 line km and 800 images.
- Aero triangulation.
- Mapping in accordance with SOSI 4.0 FKB-B standard
- Annual update on areas that is not re-mapped.
- Orthophoto production – 800 images, resolution 8 cm.

Flatanger – Namdalseid – Namsos 2007

Customer: The Mapping Authority, Steinkjer
 Contact: Jon Endre Kirkholt

Contract amount: NOK 2 208 025 (+VAT)
 Project period: April 2007 – June 2008

The project covers a total of 920 km² in the municipalities of Flatanger, Namdalseid and Namsos in Nord-Trøndelag.



The contract work consists of:

- Aerial photo with digital camera, Vexcel UltraCamX, GSD 10 and 20 cm. A total of 1138 line km and 1982 images.
- Laser scanning with Optech ALTM 3100, DTM10 for 70 km².
- Aerial triangulation
- Mapping in accordance with SOSI 4.0
 - o FKB-B re-mapping of 49,1 km²
 - o FKB-C re-mapping of 870 km²
 - o Establishment of H5 by use of image matching for 130 km²
- Orthophoto production – 1982 images, resolution 10 and 20 cm.

Base map Bergen 2006 – Assignment 2

Customer: Bergen municipality
 Contact: Terje Helle

Contract amount: NOK 618 575 (+VAT)
 Project period: April 2006 – November 2006



The project covers the areas Vikaleitet and Midtbygda, a total of 7,4 km².

The contract work consists of:

- Aerial photo with analogue camera, image scale: 1:5000. A total of 14 line km and 38 images.
- Scanning of aerial photos
- Aerial triangulation
- Photogrammetric update in accordance with SOSI 3.4 FKB-B1 H1-DTM.
 The buildings are mapped using a beta-version of the SOSI 4.0 standard.

Geovekst project Nord-Østerdal 2008 (LACGHE81)

Customer: The Mapping Authority, Hamar
 Contact: Bente Kristiansen

Contract amount: NOK 3 050 960 (VAT not included)
 Project period: April 2008 – January 2009



The project covers part of Stor-Elvdal, Rendalen, Tolga, Tynset, Alvdal, Folldal and Os municipals in Hedmark county.

The contract work consists of:

- Land survey.
- Aerial photo with digital camera, Vexcel UltraCamX, GSD 10 cm. A total of 502 line km and 1443 images.
- Aerial triangulation.
- Laser scanning with Optech GEMINI, DTM20 for a total of 950 km².
- Mapping in accordance with SOSI 4.0.
 - o FKB-B update of 589 km²
- Orthophoto production – 1443 images, resolution 10 cm. There has been delivered both an early version (rectified images) and a complete version.