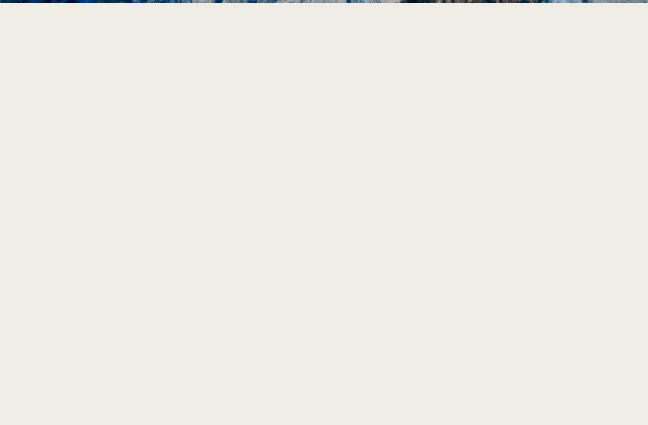




Velkommen til Field Karrieredag 2025!



Program

16:15 - Velkommen til oss! | [Lennart Flem](#)

16:30 - Field Survey | [Laurentiu Jisa](#)

16:45 - Laserteknologi & droner | [Mohammed Sahan](#)

17:00 - Automation in Geomatics | [Vetle Odin Jonassen](#)

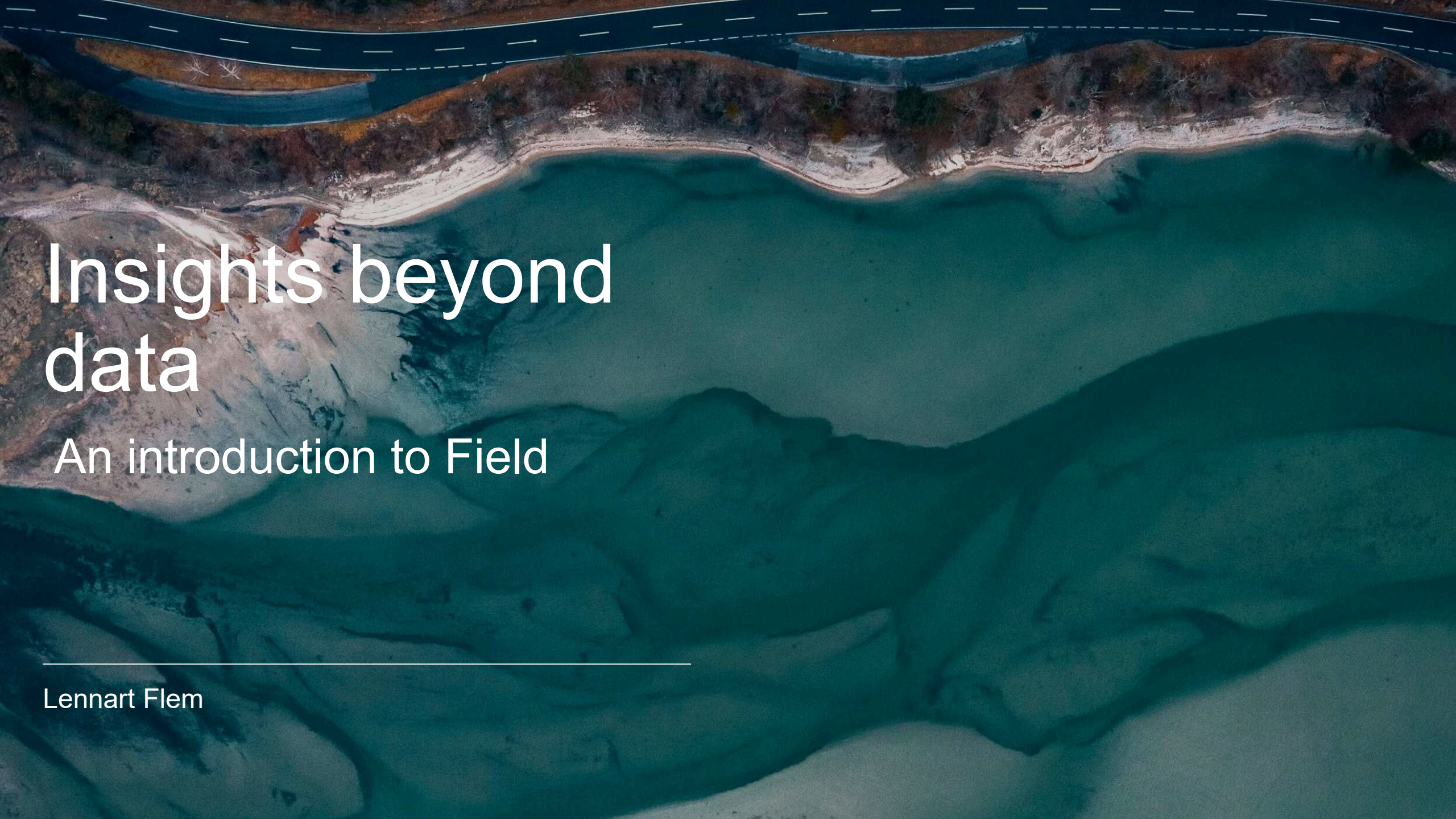
17:15 - Pause

17:30 - Mobile Mapping | [Ole Vanebo](#)

17:45 - Eiendom | [Nils Evald Loftesnes](#)

18:00 - Bruk av kunstig intelligens og fjernmåling | [Floris Jan Groesz](#)

18:15 – 19:00 [Pizza og sosialt](#)



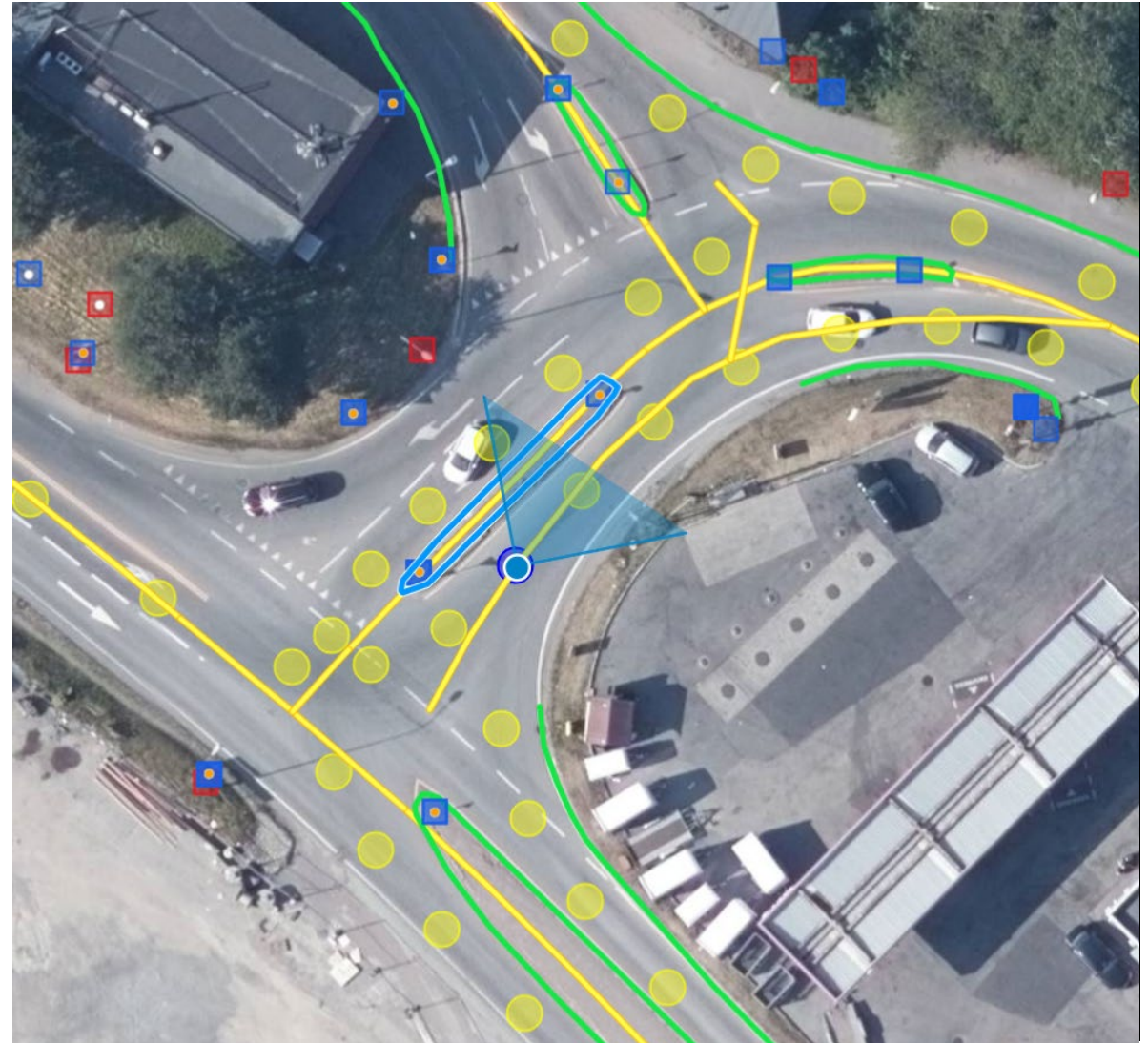
Insights beyond data

An introduction to Field

Lennart Flem

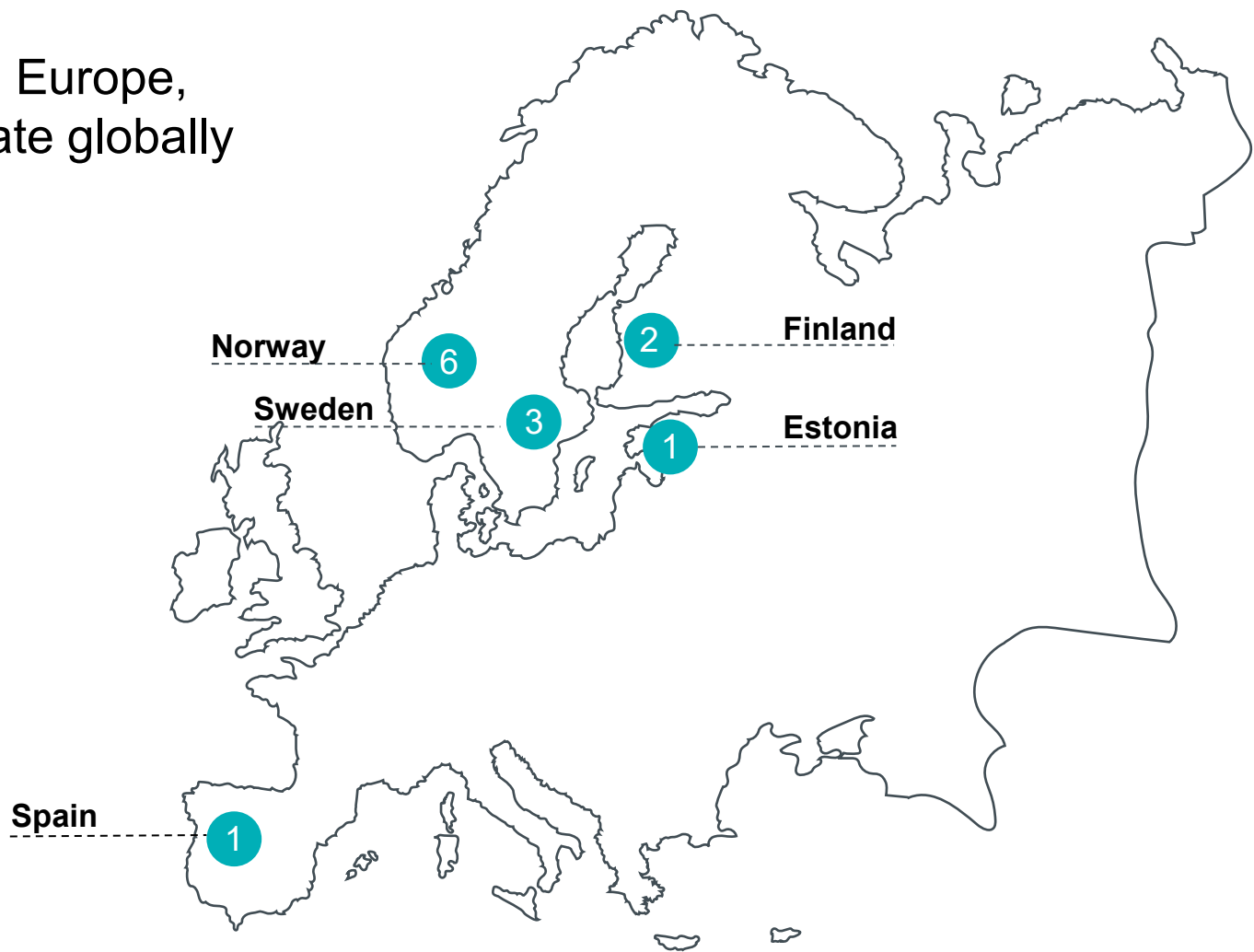
What we do

Field is a geospatial technology company that captures, processes, and delivers accurate information across the Nordics and beyond.



Presence

Based in Europe,
we operate globally



Locations **13**

Countries **5**

Employees **250**

Years of experience **70+**

Services



Aerial Surveying



Capture accurate aerial data across land and sea with our specialist expertise, aircraft fleet and modern sensors. Explore user-friendly insights on 3D models and maps.

Land Surveying



Plan, build, and maintain buildings, roads, railways, and other infrastructure with precision and confidence. Track and monitor accuracy from project start to finish.

Mapping, Modelling and Analytics



From corridor mapping to digital twin solutions, unlock complex geospatial data with accurate 3D maps and models. Plan, build, and maintain assets with confidence and ease.

Mobile Mapping & Geophysics



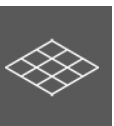
Capture and analyze detailed 360-degree information about road conditions, utilities, groundwater, bedrock, and more. Explore insights on user-friendly interactive software.

Cloud Software



Understand what matters with user-friendly geospatial software featuring orthophotos, oblique images, 360 panoramas, and 3D point cloud for mapping and analysis.

Land & Property Consulting



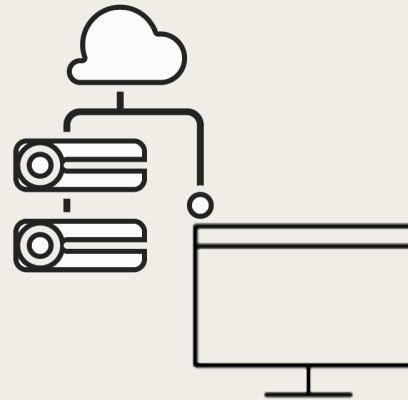
Manage and develop land and property in Norway. Acquire properties and property rights, secure land boundaries, manage building applications and subdivisions, and more.

How we work

Data Capture



Information Processing



Big data platform and processing with AI and proprietary software.

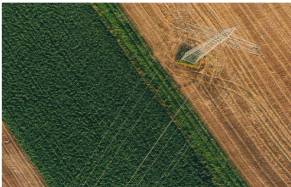
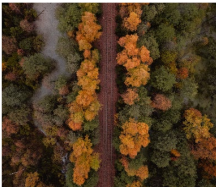
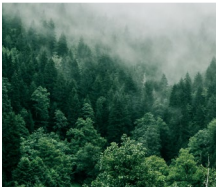
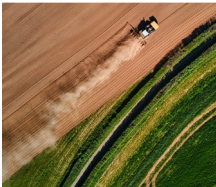
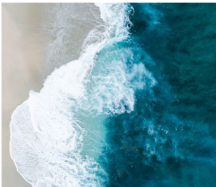
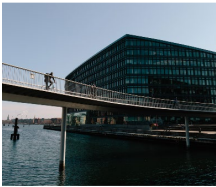
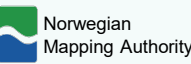
Insights & Visualizations



Easy-to-understand visualizations and user-friendly software including Mapspace and Atlas.

Customers and markets

We help a broad range of customers across different markets

	Construction and Infrastructure			Natural resources		Urban and Government			
Market	Energy & Utilities	Road & Rail		Buildings and properties	Forest & Agriculture		Coastal	State, Cities & Municipalities	
									
Customers									

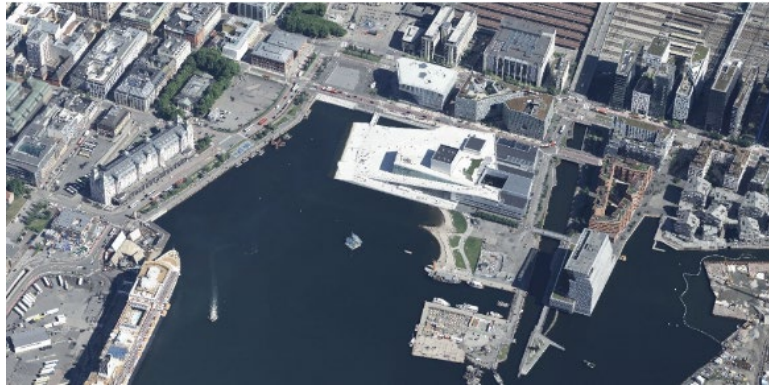
SERVICES

Aerial Surveying

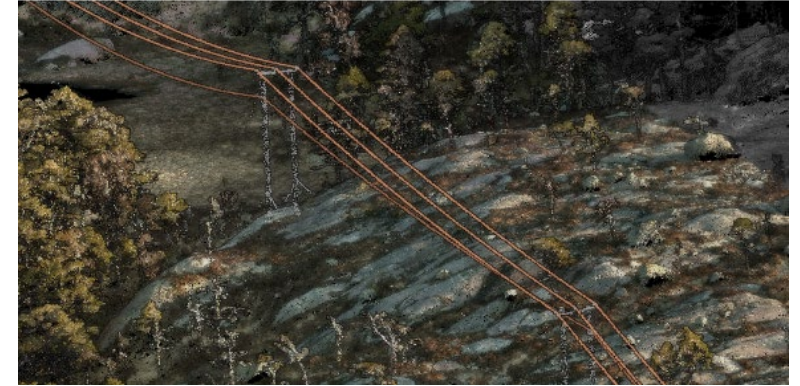
>>> Orthophoto



>>> Oblique imagery



>>> Corridor mapping



>>> Topographical lidar



>>> Bathymetric LiDAR



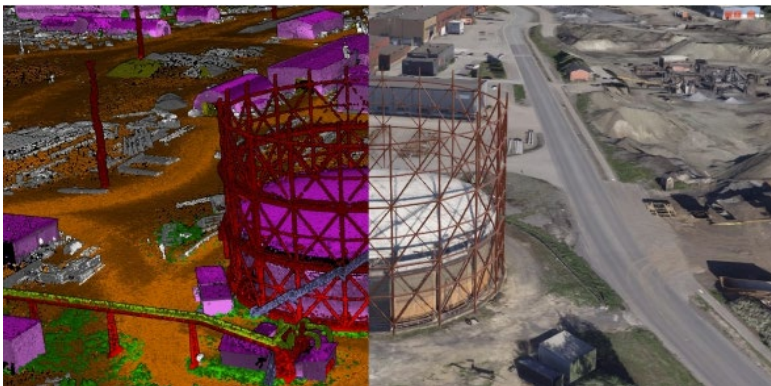
>>> Powerline inspection



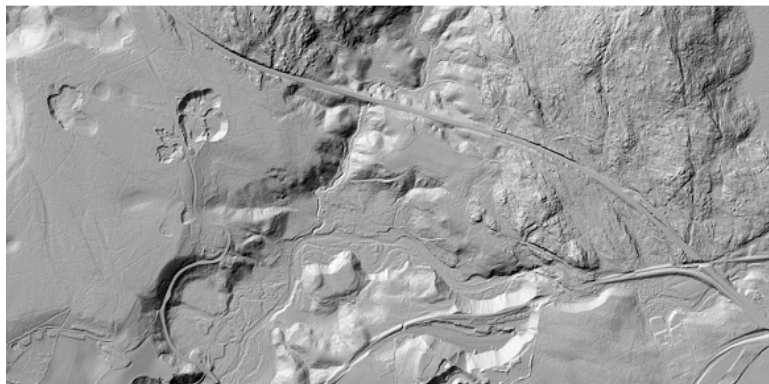
SERVICES

Mapping & Modeling

>>> Digital twins & 3D models



>>> Terrain models



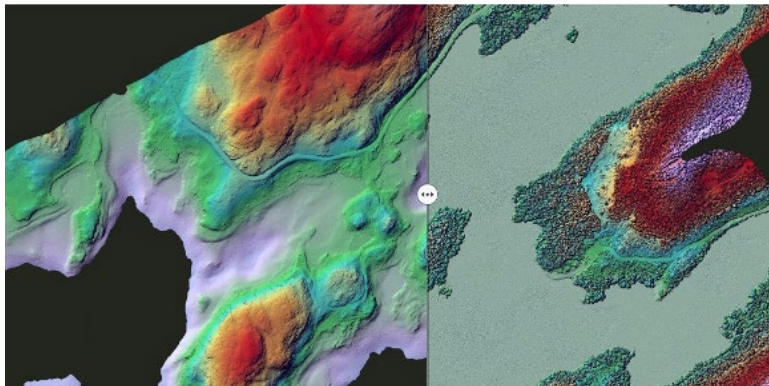
>>> Point clouds



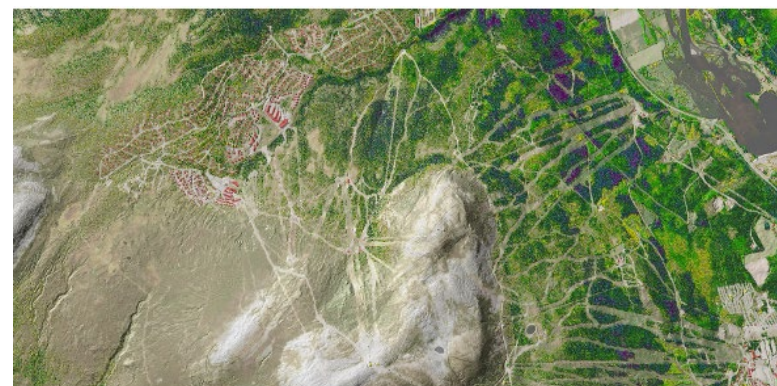
>>> Mapping



>>> Analysis



>>> Forest inventory



SERVICES

Land Surveying

>>> Surveying and mapping



>>> Stake-out-surveying



>>> Control station network



>>> Movement monitoring



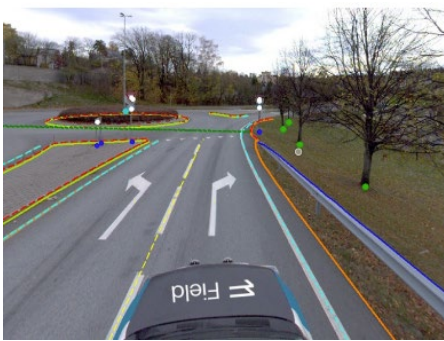
>>> 3D laser scanning



>>> Volume / mass calculation



>>> As-built documentation



>>> Precise leveling



>>> HP sitePrint



>>> Dimensional control



SERVICES

Mobile Mapping & Geophysics

>>> Mobile mapping



>>> 360 street view imagery



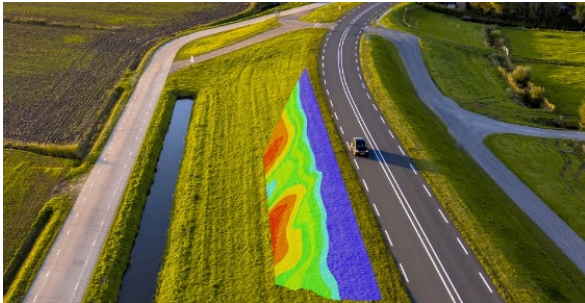
>>> Road condition analysis



>>> Refraction / reflection land seismic



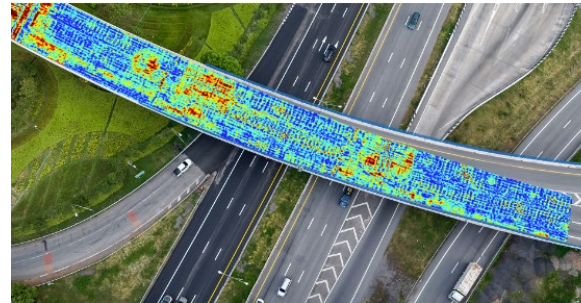
>>> Electric resistivity tomography



>>> Ultrasonic scanning



>>> Ground penetrating radar



SERVICES

Land & Property Consulting

>>> Land acquisition



>>> Property consultancy



>>> Cadastral surveys



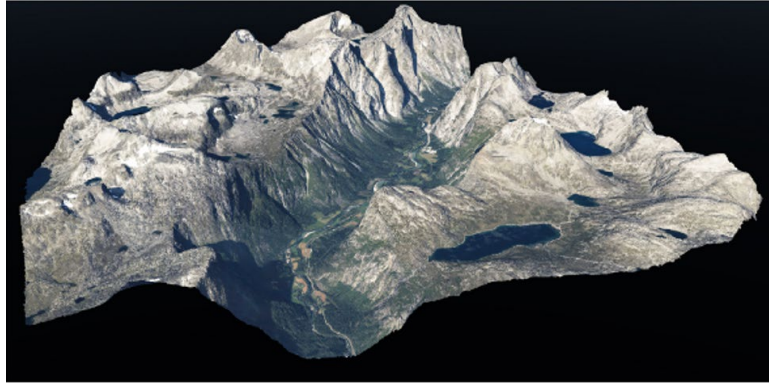
SERVICES

Interactive Software

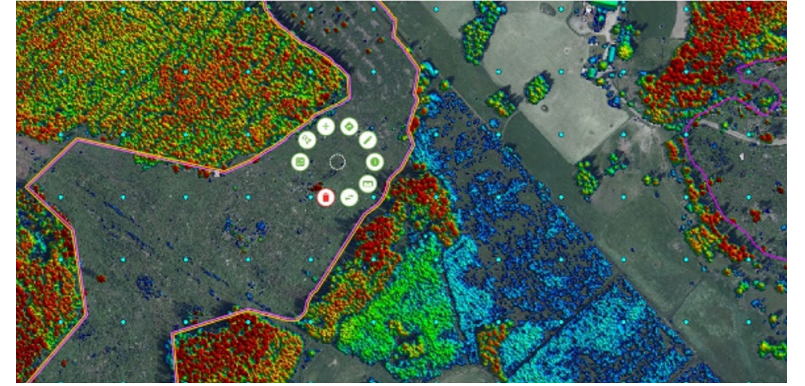
>>> TerraPos



>>> Mapspace



>>> Atlas



 Field

Our people are our most valuable resource!

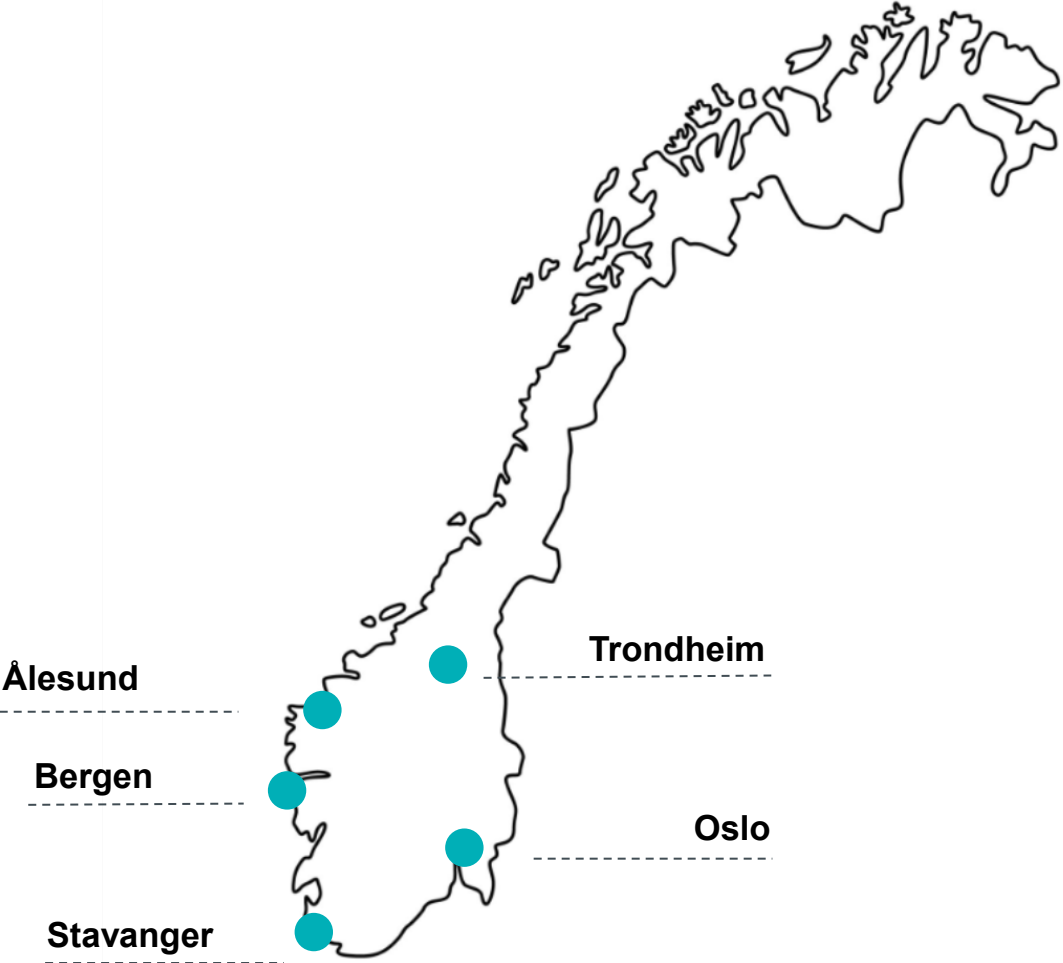


Field Survey

Laurentiu Jisa – Leader, Field Survey Oslo

Field Survey Norway Organisation

Stavanger Survey Stavanger	14
Oslo Survey Oslo Mobile Mapping Property Consultancy	45
Bergen Survey Bergen	14
Ålesund Survey Ålesund	3
Trondheim Survey Trondheim	8





What we do?

Field is a geospatial technology company that offers a wide range of surveying and mapping services.

SERVICES

What we do?



>>> Surveying and mapping



>>> Stake-out-surveying



>>> Control station network



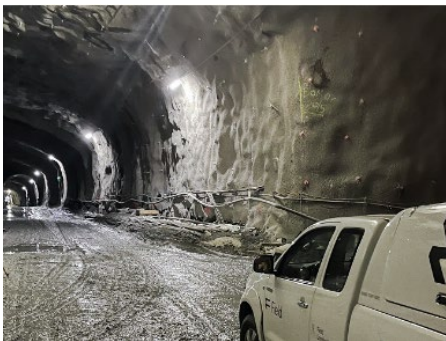
>>> Movement monitoring



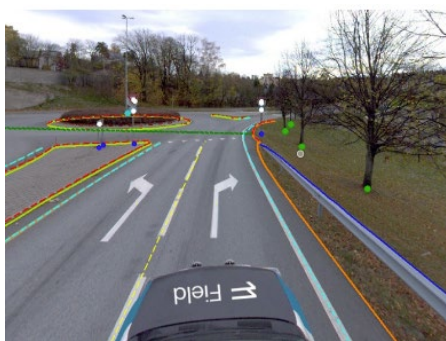
>>> 3D laser scanning



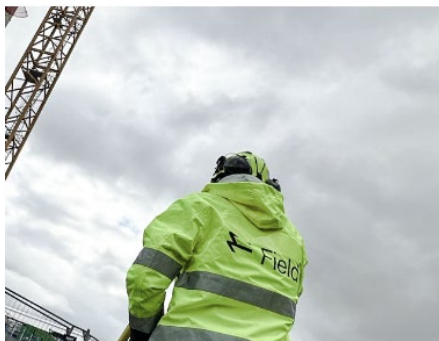
>>> Volume / mass calculation



>>> As-built documentation



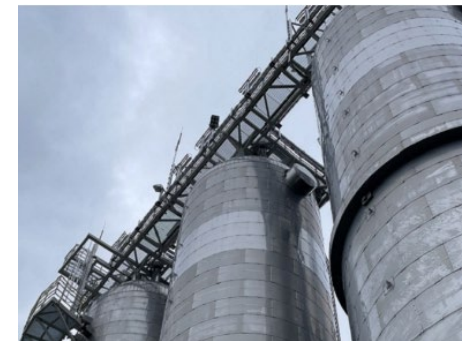
>>> Precise leveling



>>> HP sitePrint



>>> Dimensional control



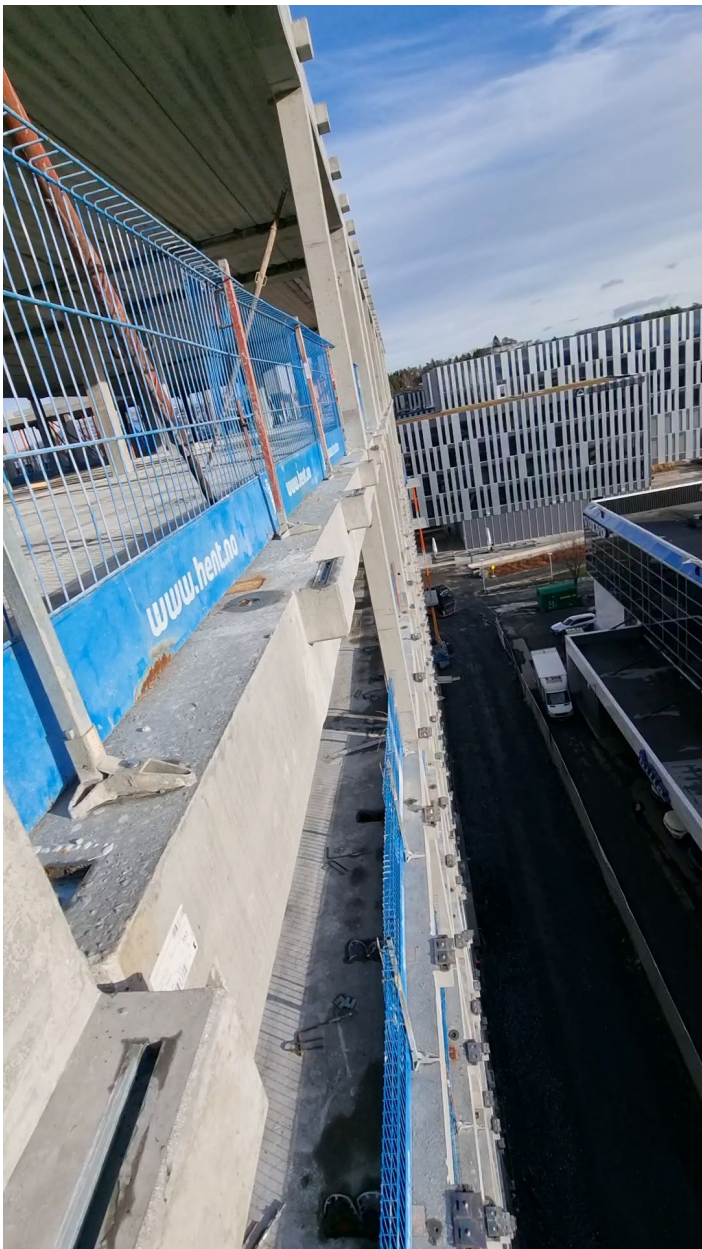
Working as a Surveying
Engineer at Field
- a glimpse of our
workdays....



Outdoor Projects as a Land Surveyor Engineer









Mapping of rail & roads

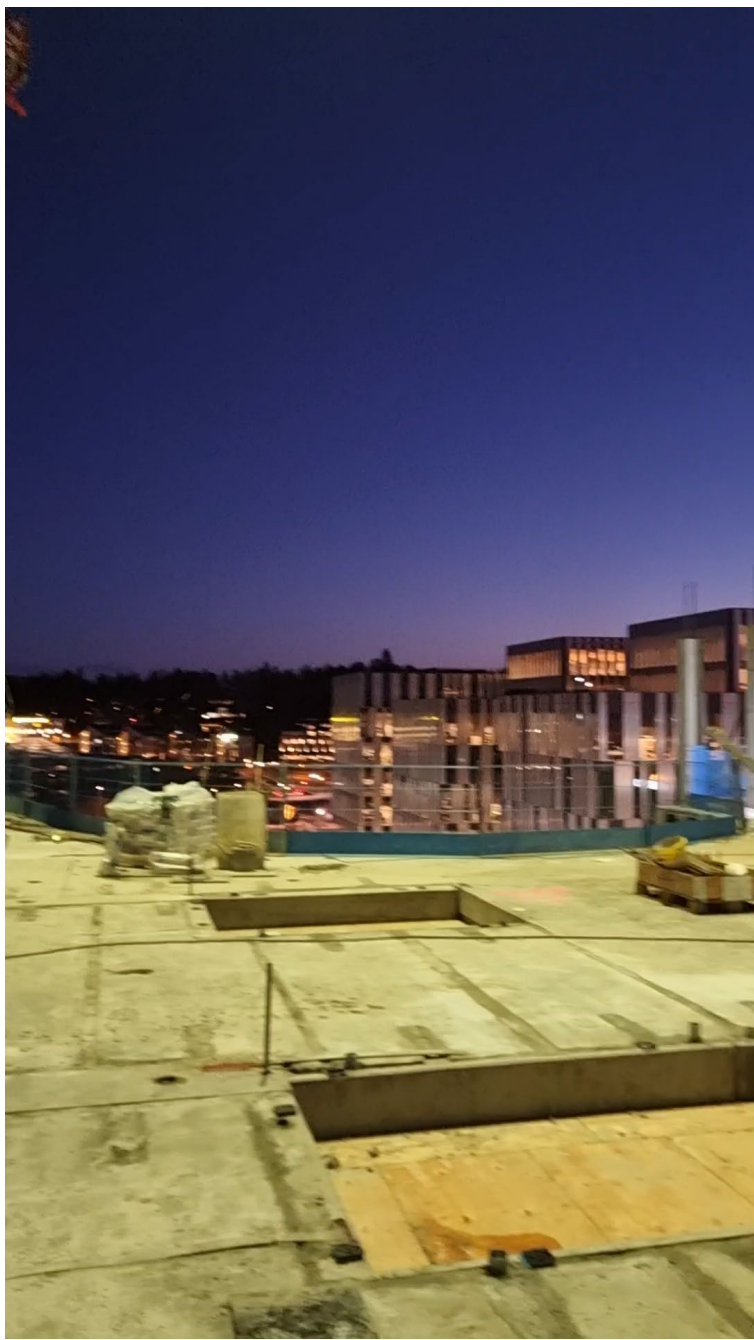
Railway Working for BaneNor



Control Engineers on site working for customers

Ensure that the projects
quality compliance are
followed and provide
surveying documentation
when needed.



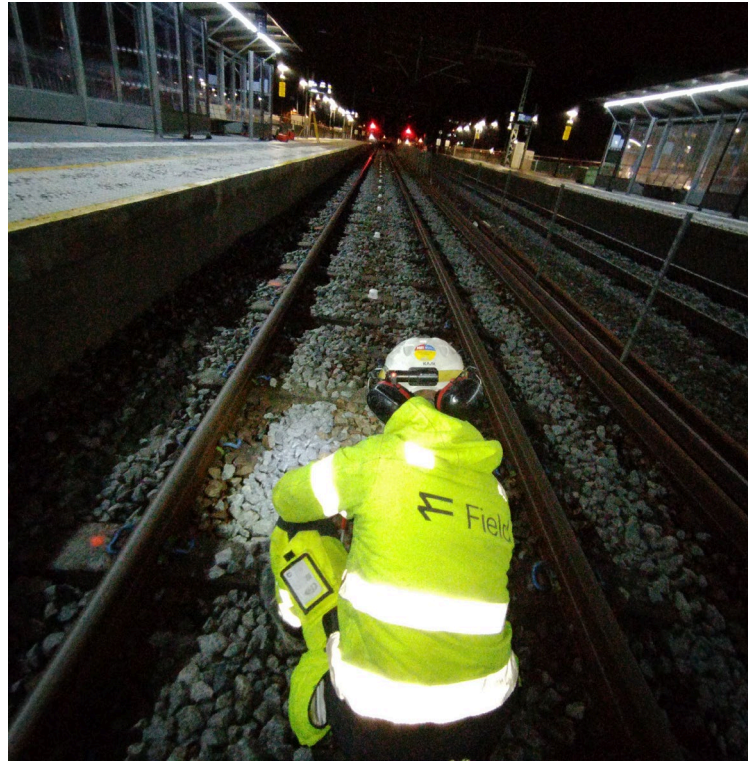


Real-time geo-monitorering of Sandnes Station

Tilt-sensors



Installation on an active Railway

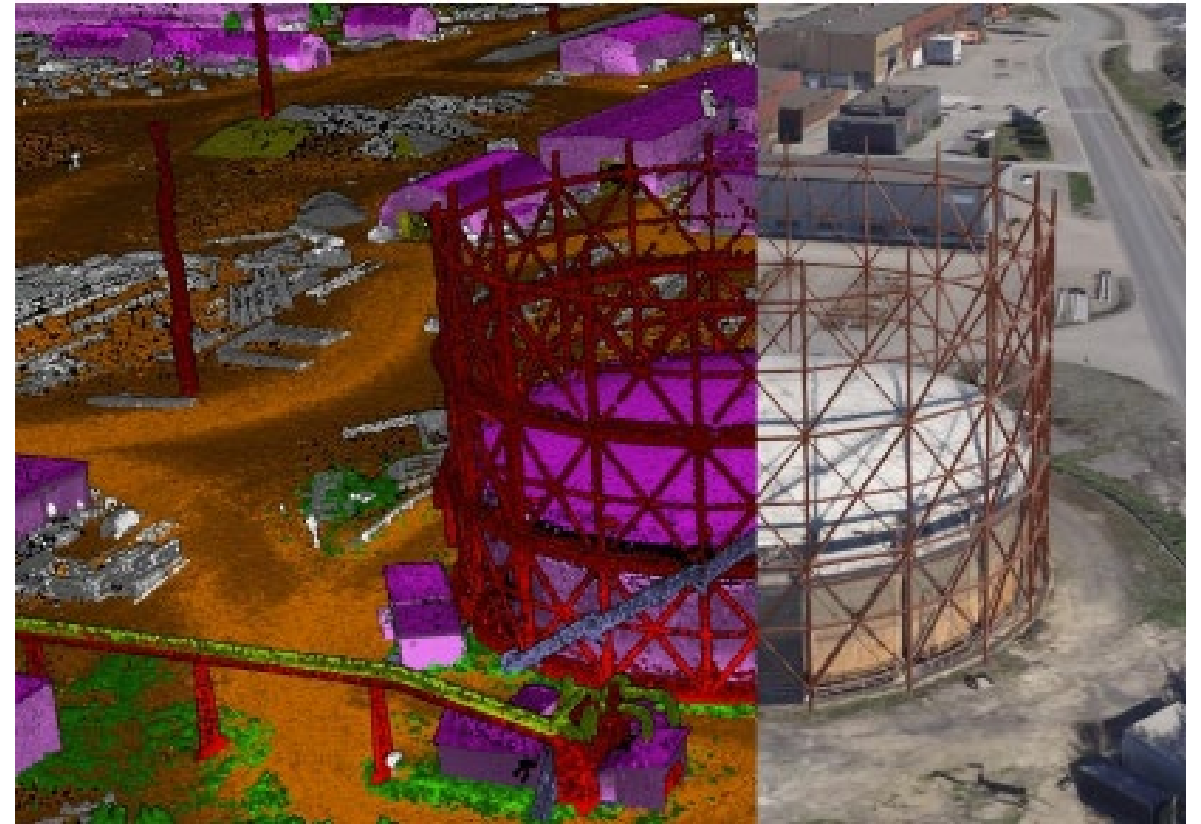


Laser scanning of buildings and indoor areas

- With the latest technology are we able to capture detailed digital information.
- Laser scanning and 3D mapping on site
- We can generate **digital twins** of all types of buildings and properties
- Point-cloud documentation and 3D Maps with detailed visualization



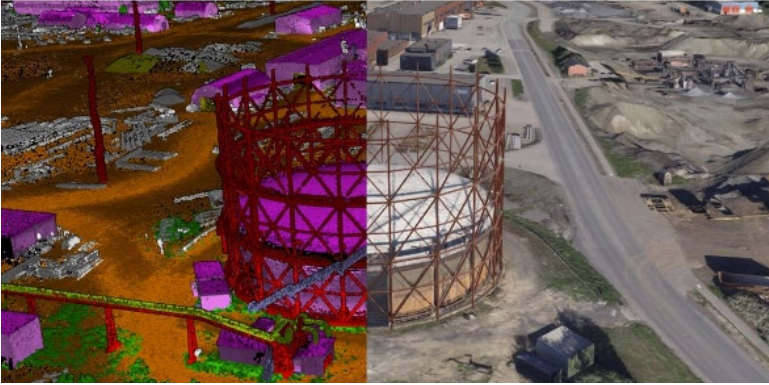
Laser scanning of buildings and indoor areas



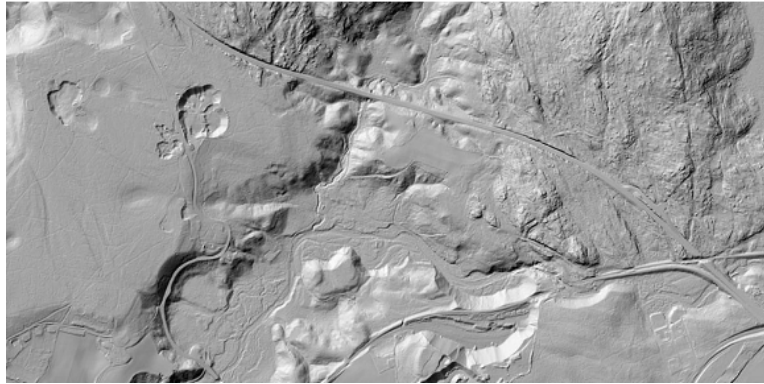
SERVICES

Mapping & Modeling

>>> Digital twins & 3D models



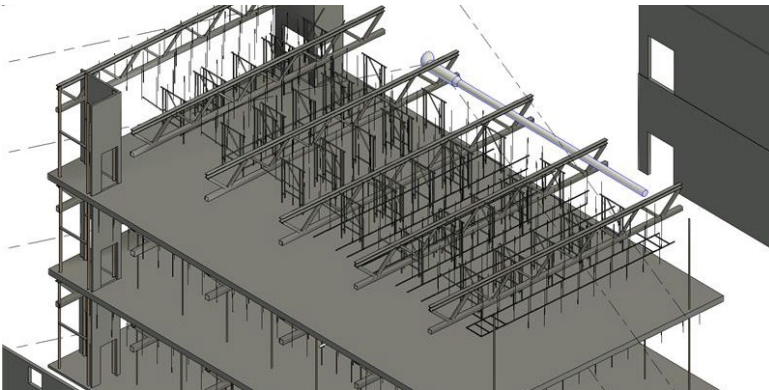
>>> Terrain models



>>> Point clouds



>>> Model



>>> Model

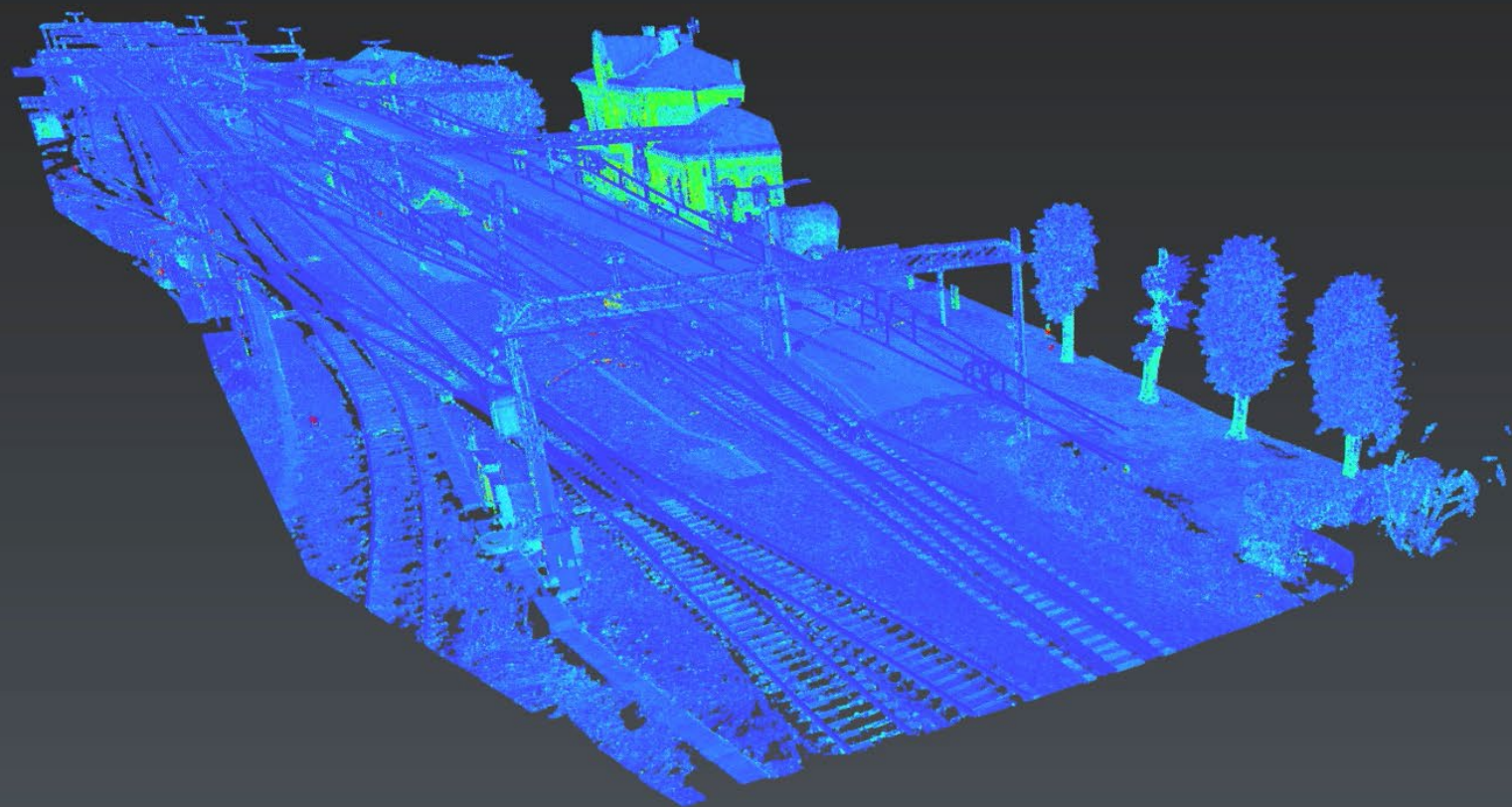


>>> Model



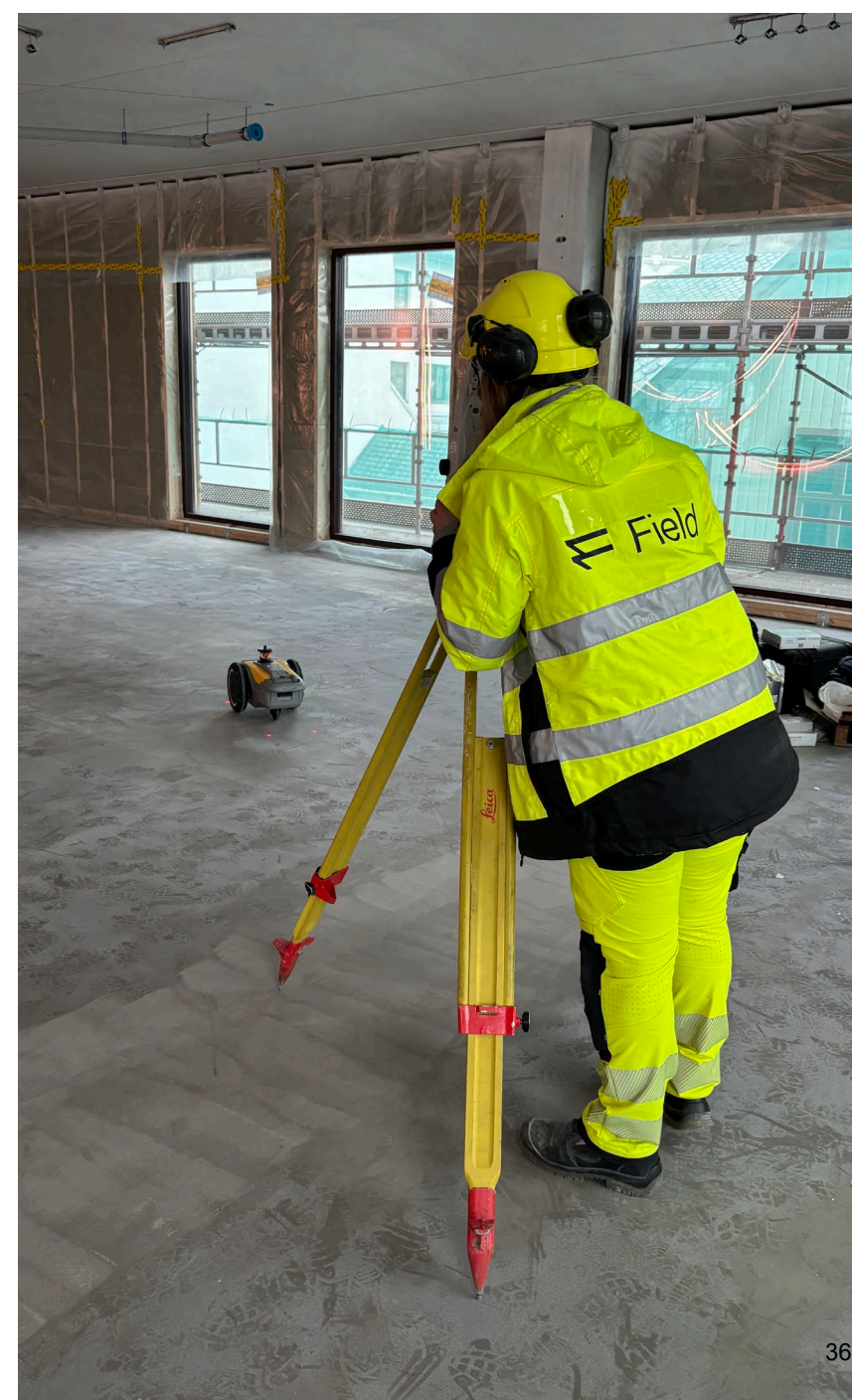
↩ Field

Field Confidential



HP-SitePrint







KONTAKT

Laurentiu Jisa

E-mail: laurentiu.jisa@fieldgeo.no

+47 406 16 934



Drone- og laserteknologi

Mohammed Sahan

18.03.2025



Om meg

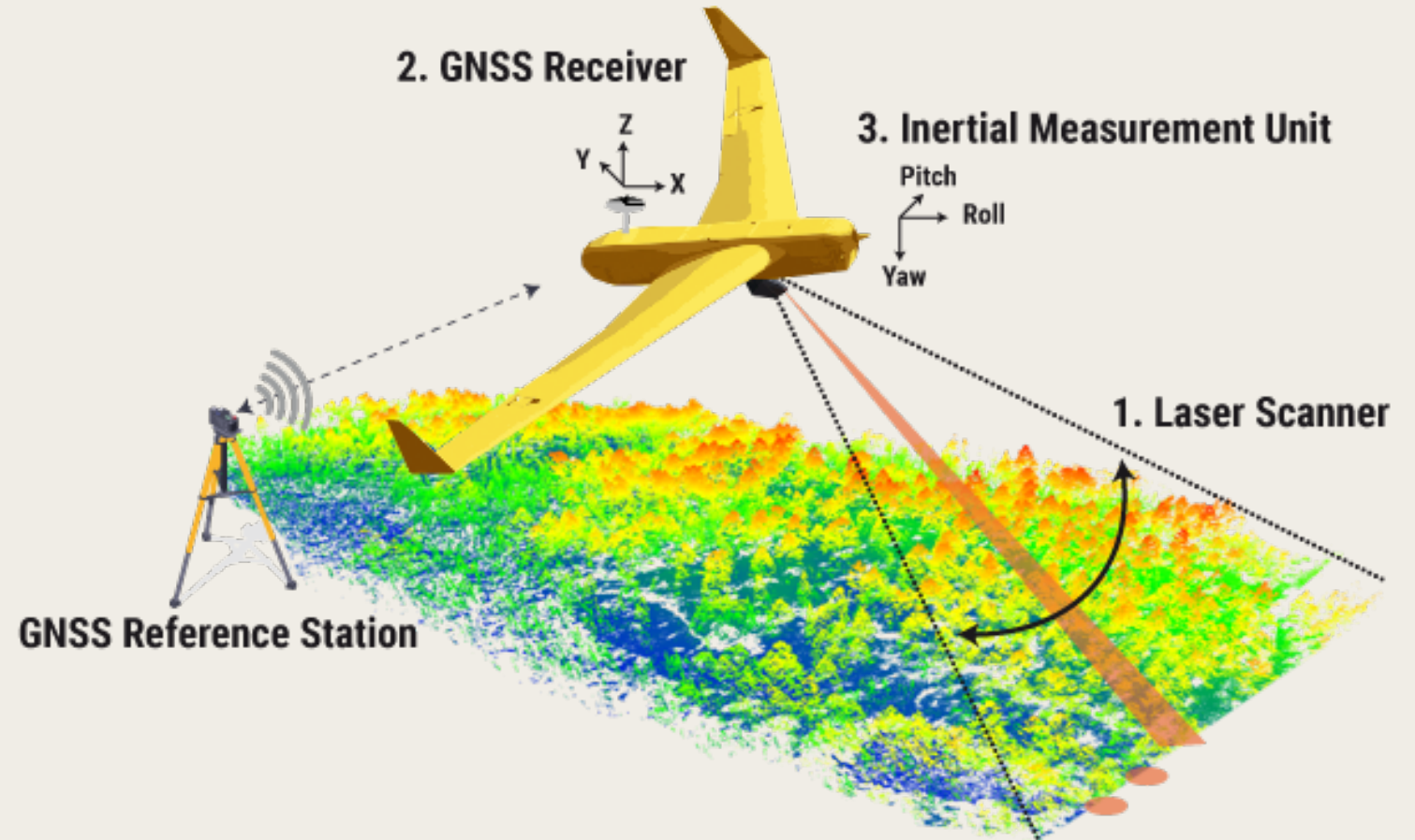
- Studie
- Uteksaminering i 2022
- Jobbet sommer/deltid siden 2019
- Startet med landmåling → flyfoto → laser
- Masteroppgave:
«Data fra ulike innsamlingsplattformer i bratte fjellområder og deres egnethet til deteksjon av ras»



Laserteknologi

Hvordan fungerer det?

- Sensor
- GNSS mottaker
- IMU



Innsamlingsplattformer

- Fly
- Helikopter
- Drone
- Terrestrisk
- Bilbåren (Mobile Mapping)



Typer prosjekter

Hva jobber vi med?

- Luftbåren laserskanning
- Fly, helikopter, drone
- Prosessering
- Klassifisering
- Analyse

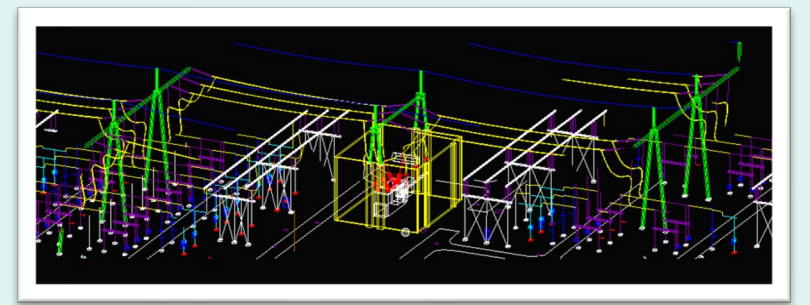
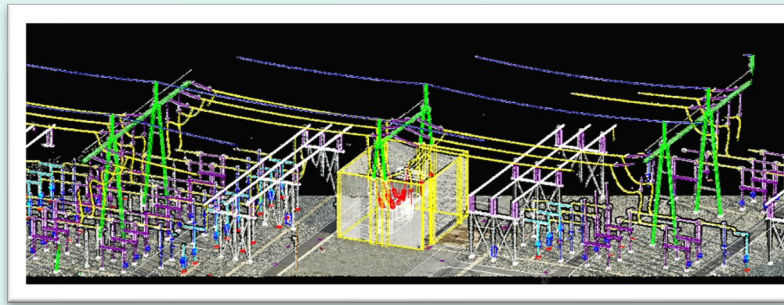
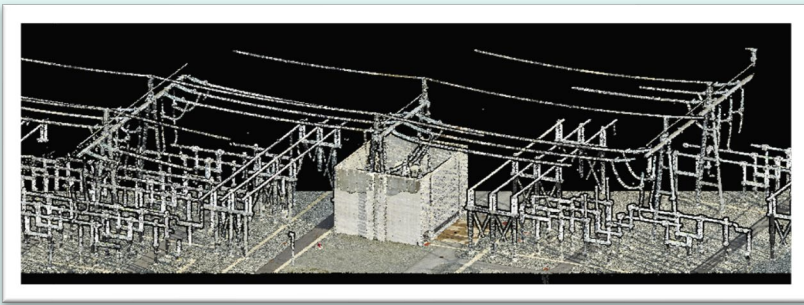
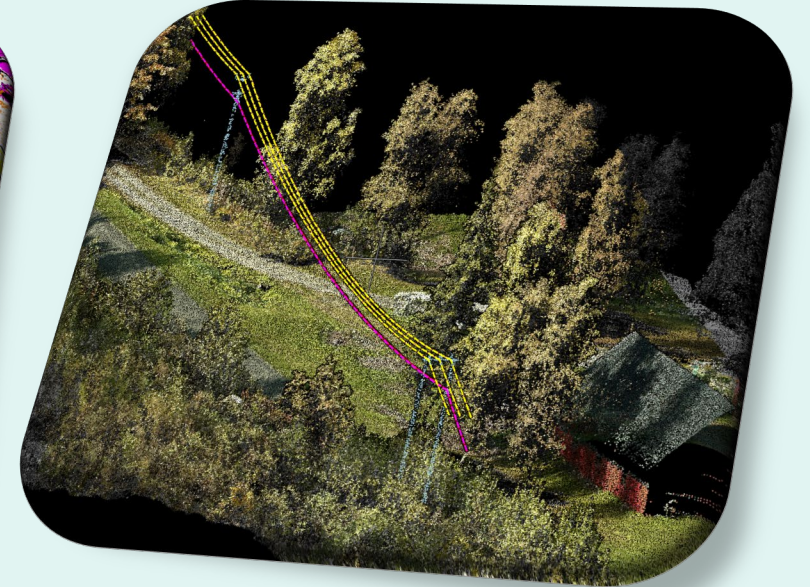
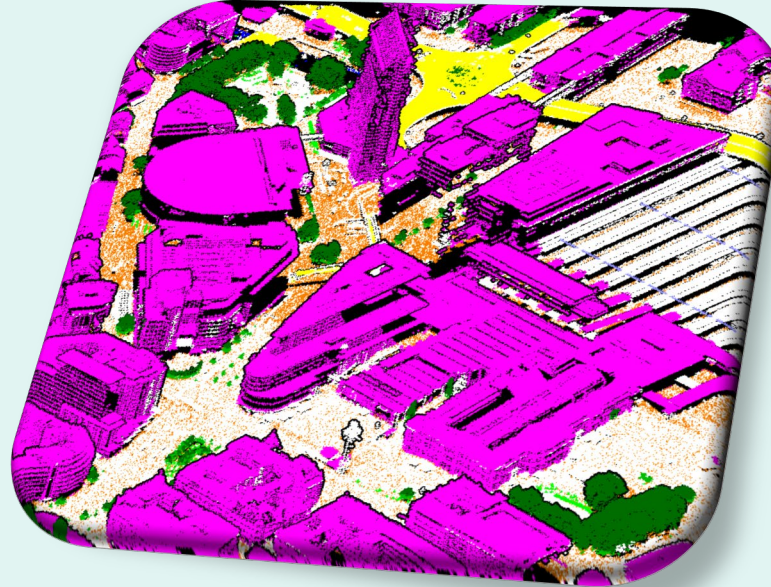


Typen prosjekter

Mange ulike bruksområder for LiDAR

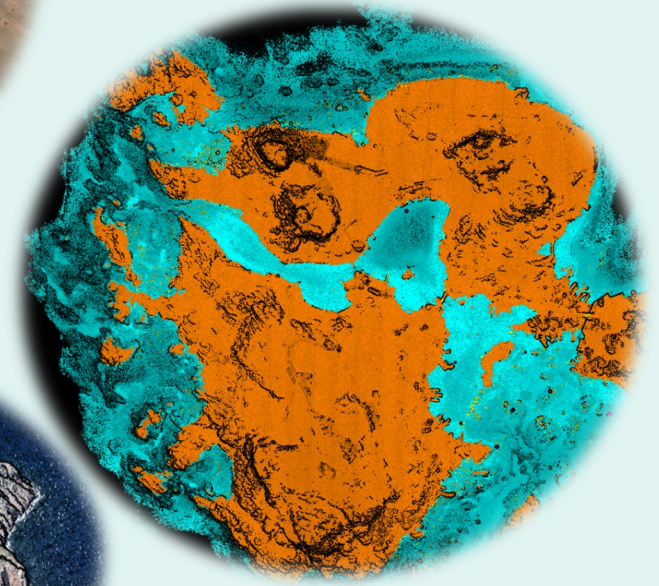
1. Topografisk skanning

- Skogkartlegging
- Terrengmodeller
- Modellering
- Kraftlinje inspeksjon



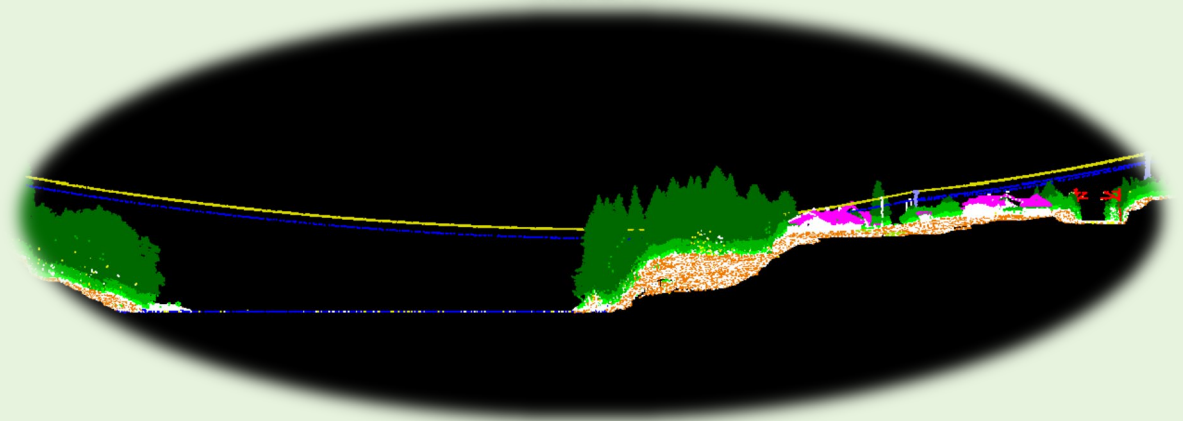
Typer prosjekter

- Batymetrisk skanning
 - Kartlegging av vann og kystområder
- Elver
- Kystlinjer
- Havbunnskartlegging
- Flomberegninger



Praktisk eksempel: Kartlegging av kraftlinjer

- Skannes vha. Droner eller helikopter
- Skanner basert på master eller tidligere produserte linjevektorer
- Store mengder med data samles inn
- Rådata → preprosesserings → prosjekt start
- Prosjekt
 - Automatisk klassifisering vha. AI + andre verktøy
 - Produksjon av mer nøyaktig klassifisering og forskjellige vektorer.



Praktisk eksempel: Kartlegging av kraftlinjer

- Vektorer kan inkludere:
 - Linjevektorer
 - Maste topp og bunn
 - Masteben
 - masteomriss
 - Traverser
 - Barduner
- Vegetasjonsanalyse
 - Avstand fra vegetasjon til kraftledninger
- Påføring av egenskaper på vektorer
 - Mastehøyder, vinkler, jord, fase osv..



Still gjerne spørsmål senere 😊



KONTAKT

Mohammed Sahan

E-mail: mohammed.sahan@fieldgeo.no



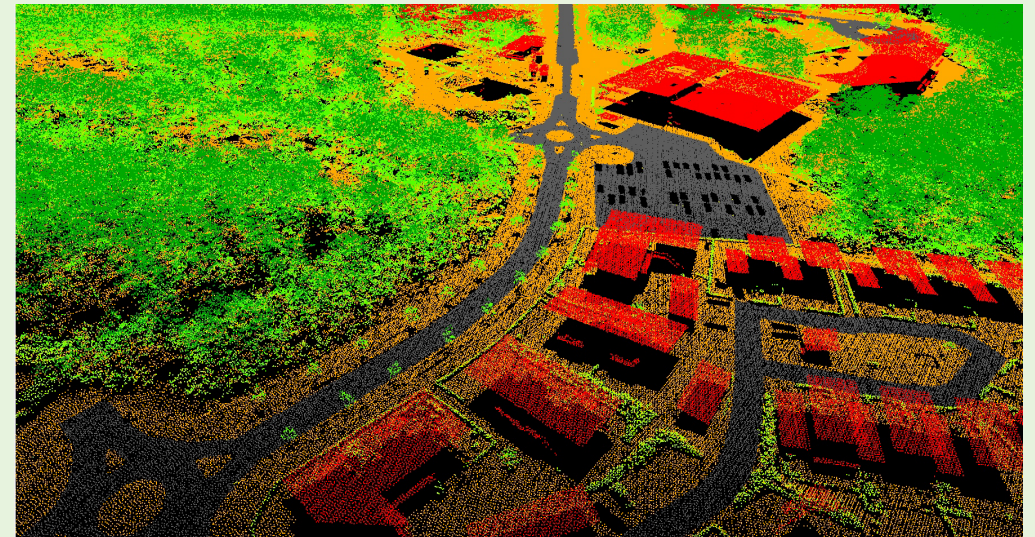
Automasjon

Vetle O. Jonassen – Programvareingeniør

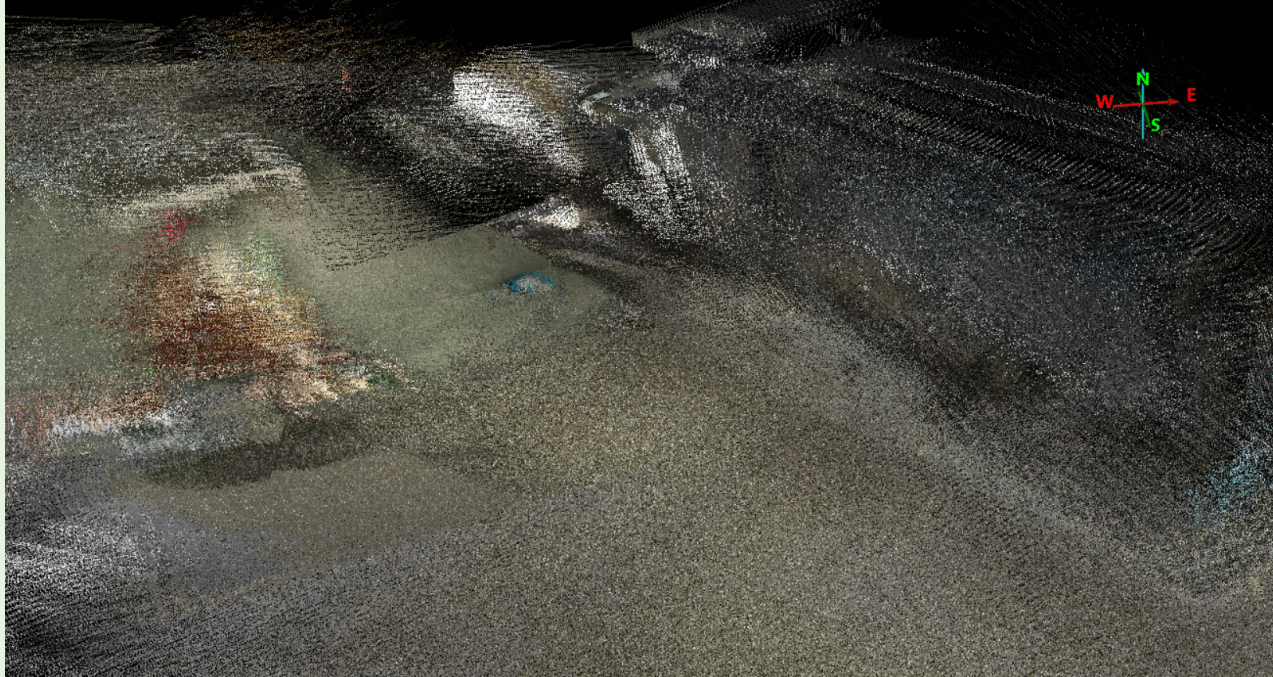
18.03.2025

Arbeidsdagen min i Field

- Se de store linjene i geodataproduksjonen
- Identifisere flaskehalser i produksjonen
 - Hovedsakelig datafangst og georeferering



Arbeidsdagen min i Field



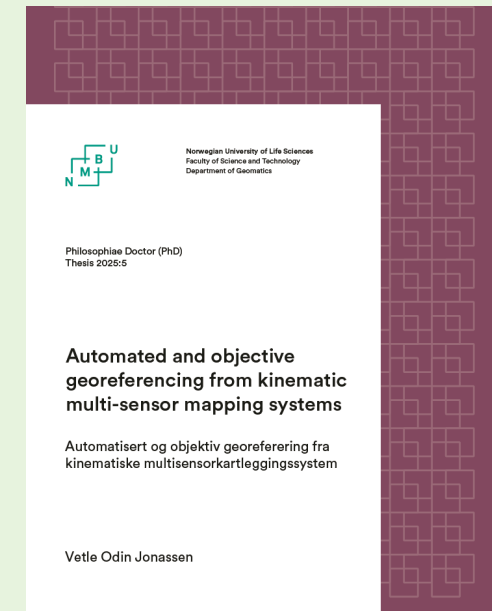
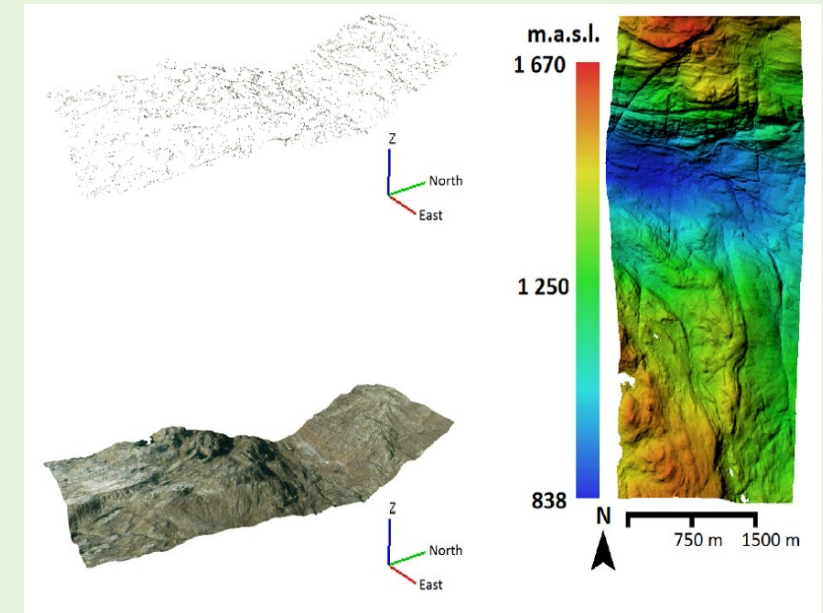
 Field



Litt om meg

– Faglig bakgrunn

- 2012-2015: B.Sc. i geofag; geomatikk
 - Universitetet i Oslo (og Carleton University, Canada)
- 2015-2017: M.Sc. i geomatikk; fotogrammetri
 - Universitetet i Oslo (og Universitetssenteret på Svalbard)
- 2017-2020: Produksjonsansvarlig for hyperspektrale data
 - Field (tidl. Terratec)
- 2020-2025: Ph.D. i fotogrammetri og laserskanning
 - NMBU (og Det tekniske universitetet i Wien, Østerrike)
- 2025 - : Jobber med automasjon av geodataproduksjon i Field



Hva jeg liker med Field

- **Kompetente** kolleger
- **Jordnært arbeidsmiljø**
 - Vi gjør hverandre bedre
 - Lav terskel for å stille spørsmål og lære
- **Åpenhet** for ulike mennesker, faglig utvikling og nye ideer
- **Mestringsfølelse** gjennom prosjektbasert arbeid
- **Ungt, aktivt og åpent miljø**
 - Innebandy, volleyball, basketball, fotball, ølsmaking, FIFA-kvelder og brettspillkvelder (+++)



Takk for meg!



Vetle O. Jonassen
vetle.jonassen@fieldgeo.no