

EuroSDR 3D SIG Webinar

Evolutions in the production, representation and use of 3D Geoinformation

Knut Jetlund, Norwegian Mapping Authority

Today's agenda

From	To	Presenter	Topic
10:00	10:15	Knut Jetlund, Norwegian Mapping Authority	Introduction of the 3D SIG and practical information
10:15	10:38	Bernhard Schachinger, Vexcel Imaging	Scalable 3D Mapping: Data Acquisition, Processing and Use Cases
10:38	11:01	Katja Šušteršič, Flycom Technologies	Slovenia's Nationwide End-to-End Workflow for Building Footprint Extraction and 3D Reconstruction with Quality Control
11:01	11:24	Nejc Dougan, FLAI	AI for LiDAR Processing at National Scale: Digital Twin Germany
11:24	11:47	Seb Lessware, 1Spatial	Data quality in 3D data
11:47	12:10	Ravi Peters and Balázs Dukai, 3DGI	Generating 3D representations
12:10	12:50	-----	Break
12:50	13:08	Gabriele Murchio, e-GEOSA	3D Data Beyond Mapping: cross-domain Integration and Digital Twin Earth deployment challenges
13:08	13:31	Nick Land and Ashleigh Sier, ESRI	Meshes and object data in 3D
13:31	13:54	Nigel Edmaed, OGC	Relevant standardisation activities for 3D data and visualisations
13:54	14:17	Chris Andrews, BuildIT Design Lab	Bringing BIM into GIS with OGC I3S and OGC 3D Tiles
14:17	14:40	Andres Kasekamp	Setting up an application with CityJson and CityGML
14:40	15:00	Claire Ellul and/or Knut Jetlund (Facilitator)	Q&As, Discussion around roles and skills

- Non-profit organisation
- Provides a pan-European network
- Brings together mapping/cadastral agencies and academia for
 - Applied research
 - Securing timely, research-based knowledge
- Allows the agencies to play their role as content providers and government competence centres for geographic information and spatial data infrastructures.



- Members of EuroSDR are
 - National Mapping & Cadastral Organisations (NMCAs)
 - Research Institutes
 - Associate (industry) members
 - Partner organisations
- Delegates from production and research **working together**



Operation

- Delegates meetings
- Workshops
- Research projects
- Publications
- Educational activities
- Technical commissions

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European Spatial Data Research

Spatial Data Quality

Tutors:

Joep Crompvoets (KU Leuven Belgium), **Antonello Rizzo Naudi** (Planning Authority, Malta), **Anouk Huisman-van Zijp** (Kadaster, The Netherlands)

Dates: March 16-27, 2026

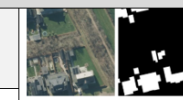


Machine Learning for Earth Observation

Tutors:

Hao Cheng, **Raia Vargis Maretti**, **Claudio Persello** (University of Twente, Faculty of Geo-Information Science and Earth Observation – ITC, The Netherlands)

Dates: April 7-20, 2026



Fundamentals of Python Programming for Geospatial Applications

Tutors:

Gottfried Mandlbauer, **Katharina Riederer** (TU Wien, Austria)

Dates: May 4-15, 2026



3D City Modelling: Creation, Standardisation and Use in Urban Applications

Tutors:

Ken Arroyo Ochoa, **Jantien Stoter** (TU Delft, The Netherlands)

Dates: June 1-12, 2026



Workshop Report AI Special Interest Group Kick Off (2026)

This report documents the outcomes of the Geo-Artificial Intelligence (GeoAI) Special Interest Group (SIG) kick-off workshop dedicated to exploring how it can support national mapping and cadastral agencies (NMCAs) in adopting and governing AI

Related workshops

[EuroSDR GeoAI Special Interest Group Kick-off Workshop](#)

Keywords:

Artificial Intelligence, GeoAI, SIG

📄 Workshop Report AI-SIG Kick Off



Official Publication No. 79 (2026)

A survey of European land administration organisations finds strong partnerships and technical capacity but highlights major gaps in education, communication, and advocacy needed to fully implement the UN-GGIM FELA framework.

Related research projects

[The Effective Land Administration Framework](#)

Keywords:

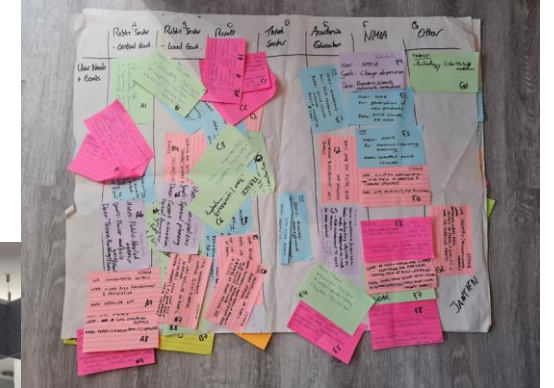
FELA, UNGGIM, Land Administration, Assessment

📄 Official Publication No. 79 (2026)

Workshops and webinars

- Dialogue-based events
- Establishment of the state-of-the-art in a particular field
- Presentations by experts in the field
- May result in identification of research topics
- Planning and dissemination of information on research activities
- Documented in reports

European Spatial Data Research



3D Special Interest Group (3D SIG)

- **Knowledge exchange** to advance methods, standards, and applications of **3D geoinformation**
 - **Discussion and alignment** on 3D data standards, tools, and practices
 - Exchange and align **national strategies on 3D data** acquisition, modelling, and maintenance
 - Showcase **best practices and use cases**
 - **Bridge the gap between research, implementation, and policy**
- Knut Jetlund, NO (Chair)
 - Jantien Stoter, NL
 - Claire Ellul, UK
 - André Streilein, CH

3D Special Interest Group (3D SIG): Activities

- Workshop Paris, France, January 2025:
 - State-of-the-Art of 3D Mapping at National and Regional Mapping Agencies
- Workshop London, UK, January 2026:
 - The way forward for 3D mapping at National and Regional Mapping Agencies
- **Industry Webinar, June 2026:**
 - **Evolutions in the production, representation and use of 3D geoinformation**
- Academia Webinar, Autumn 2026:
 - New frontiers of research on the production, representation and use of 3D geoinformation
- Workshop Hamar, Norway, January 2027:
 - Developing an NMCA research agenda on 3D geoinformation

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Today's webinar

- Industry stakeholders
 - Evolutions in the production, representation and use of 3D geoinformation
- Two questions to presenters:
 - How do you see the roles of NMCA and the private sector in the ecosystem around 3D data?
 - What skills should NMCAs possess concerning 3D data acquisition and processing, representation, and use?

Participant input to the discussion

- Two of the key findings that emerged during the January workshop:
 - The importance of three-way collaboration between NMCAs/Academia and Industry, and developing an understanding of how the 3D ecosystem can work together more synergistically to promote 3D
 - The skills gaps that currently block 3D uptake and progress.
- **As you're listening to the presentations, think about the following questions:**
 - **What partnerships, skills, or initiatives would help us most advance 3D as a group, and what can your organisation offer?**
 - **What skills are required within your organisation, and what training is offered by your organisation?**

Rules and practicalities

- All participants are muted (183 registered!)
- Use Q&A or meeting chat for questions and comments
- Presentation length:
 - 18 min + 5 min for Q&A
 - I will stop the presenter if needed...
- No recording of the whole webinar
 - Potentially for individual presentations, on the presenter's request
- General discussion at the end of the day

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General discussion

Over to Claire!