

# ARTIFICIAL INTELLIGENCE FOR NMCAS

2<sup>nd</sup> Joint Virtual Workshop organised by  
EuroGeographics and EuroSDR

27 – 28 OCTOBER 2022



Join at  
Slido.com  
#AIWS2022



#AI4NMCAS2022



@EuroSDR  
@EuroGeographics



The background of the slide is an aerial photograph of a city, likely Paris, showing a dense grid of buildings with red-tiled roofs and streets. A semi-transparent dark blue rectangle is overlaid on the left side, containing the title and name. On the right side, a white geometric pattern of interconnected lines is overlaid on the city image.

# Introducing EuroGeographics

*Léa Bodossian  
Secretary General and Executive Director*



# CONNECTING YOU TO MAPS, GEOSPATIAL AND LAND INFORMATION FOR EUROPE



#MAPSFOREUROPE

**60+**   **members** from the whole of geographical Europe

## EUROGEOGRAPHICS ACTIVITIES

Well-established network for sharing knowledge, expertise and access to data



Sharing experiences and best practice



Representing our members interests



Fostering use and re-use of public sector geo-information

## MAPS, CADASTRE, AND MORE

Our members provide data to help protect people, the planet and so much more



Environmental monitoring & management



Real-time data for pandemic response



Smarter, sustainable agriculture



Cleaner, safer, intelligent transport



Emergency responses



Aerial survey

## TRUST & RELIABILITY

Our members empower society with trusted geospatial services



Trusted daily everywhere for secure ownership transactions, diligent policy elaboration and monitoring



Relied on by European institutions and UN, governments, businesses and citizens



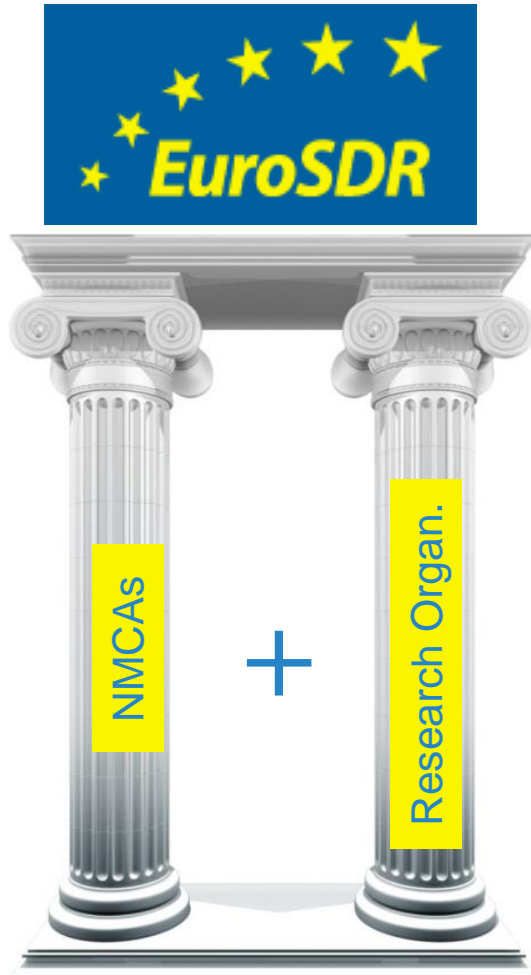
Registered on the EU Transparency Register and bound by its code of conduct



# Introducing EuroSDR

Joep Crompvoets  
Secretary-General

# EUROSDR – EUROPEAN SPATIAL DATA RESEARCH



- Non-profit organization since 1953 (OEEPE)
- Provides a pan-European network
- Brings together NMCAs, academia + companies
- Purposes
  - - jointly perform applied research
  - - secure timely, research-based knowledge
  - - provide educational activities ensuring the dissemination of the research-based knowledge gained
- Keep NMCAs updated on (non)technology developments
- 20 member countries
- Members are NMCAs & Research / Academic institutes



Day 1 13:30 – 17:00 (CET) Chaired by Carol Agius, EuroGeographics		
13:30	Welcome and introduction	Léa Bodossian, EuroGeographics Joep Crompvoets, EuroSDR
13:45 – 15:10	<u>Where is AI within the context geospatial?</u> <ul style="list-style-type: none"> <li>AI at NMCAs in Europe</li> <li>Status on AI Act legal debate</li> <li>GeoAI for National Mapping &amp; Cadastre</li> <li>AI in IGN France</li> </ul>	Joep Crompvoets, EuroSDR Marjana Zelic, EuroGeographics Nick Land, ESRI Matthieu Porte, IGN France
15:10 – 15:30	AI Use Cases within Digital Flanders	Jo Vanvalckenborgh, Digital Flanders
15 min	Comfort break	
15:45 – 16:05	Presentation from Google	Ed Parsons, Google
16:05 – 16:35	<u>Panel – AI and trust</u> <ul style="list-style-type: none"> <li>Jo Vanvalckenborgh, Digital Flanders</li> <li>Thomas Marquenie, KU Leuven</li> <li>Matthieu Porte, IGN France</li> <li>Ed Parsons, Google</li> </ul>	Session moderated by Joep Crompvoets, EuroSDR
16:35 – 16:55	Data Protection Impact Assessments in Public Service and AI Technology	Thomas Marquenie, KU Leuven
16:55	Close Day 1	EuroGeographics EuroSDR



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Day 2 9:00 – 13:00 (CET) Chaired by Joep Crompvoets, EuroSDR		
9:00	Welcome to day 2	Léa Bodossian, EuroGeographics Carol Agius, EuroGeographics
9:10	Artificial Intelligence in the European public sector – what, why, how	Sven Schade, Joint Research Centre (JRC)
9:40	AI-usage at the public sector in Europe (incl. NMCAs)	Colin Van Noordt
10:00 – 11:00	Future Trends – taking NMCAs forward with AI <ul style="list-style-type: none"> <li>How AI shapes land registration in the Netherlands</li> <li>Laser scanning research generates benefits for society in Finland</li> <li>Country-wide mapping activities using Machine Learning and Earth Observation</li> </ul>	Wim Florijn, Kadaster NL Juha Hyypä, NLS Finland Daniel Kristof, Lechner Non-profit LTD, Hungary
Comfort break		
11:30	Multitemporal land cover classification with Sentinel-2 images for national surveying authorities	Mirjana Voelsen, Leibniz Universität Hannover, Germany
11:50	Panel Discussion: Where will AI take NMCAs in the future? <ul style="list-style-type: none"> <li>Rollo Home, Ordnance Survey Great Britain</li> <li>Juha Hyypä, NLS Finland</li> <li>André Streilein, swisstopo</li> <li>Éamonn Clinton, Ordnance Survey Ireland</li> </ul> Panel discussion, with slido polls from the audience	Session moderated by Carol Agius, EuroGeographics
12:40	Next steps and follow up – an interactive question/comment session using slido Q&A/polls	Carol Agius, EuroGeographics Joep Crompvoets, EuroSDR
12:55	Close workshop	EuroGeographics EuroSDR



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