

Implementation of AI in European National Mapping and Cadastral Agencies Sallie Payne Snell Secretary General and Executive Director

UN-GGIM: Europe & CES Common Day, 20 June 2024

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Al in National Mapping, Cadastral and Land Registration Authorities

- EuroGeographics worked in collaboration with EuroSDR
- Organised three online workshops in three years: 2021, 2022, 2023
- The workshops took a holistic view of the implementation of AI: policy frameworks, research trends and experiences of implementing AI
- Brought together staff members of NMCAs, researchers at NMCAs and academic institutions, policy people and software developers
- A total audience of about 500 across the three workshops







Highlights of some trends from the workshop

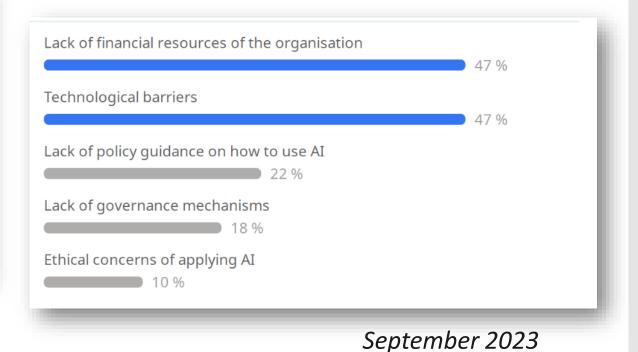
- NMCAs view AI as an opportunity rather than a threat, but have become more weary of the hype with time - going from 99% in 2021 to 86% in 2023
- NMCAs still consider the maturity of AI in their organisations as low: 63% in 2021 to 57% in 2023
- The drivers for implementing AI in NMCAs are mainly Cost/Time savings and More efficient business processes, quality is not a prime driver and has not changed in three years – decreasing from 36% to 31% from 2021 to 2023. AI was seen as an innovation in 2021 (62%) and less so by 2023 (22%)
- Machine learning and Computer vision are the top two AI technology most relevant for NMCAs
- NMCAs see themselves as both users and suppliers in the AI cycle





In your view which will be the main barriers that NMCAS are facing when implementing AI solutions in the near future?

Lack of financial resources of the organisation	60 %
Technological barriers	
Lack of policy guidance on how to use AI	
Lack of governance mechanisms 4 %	
Ethical concerns of applying AI 16 %	
Octo	ber 2022

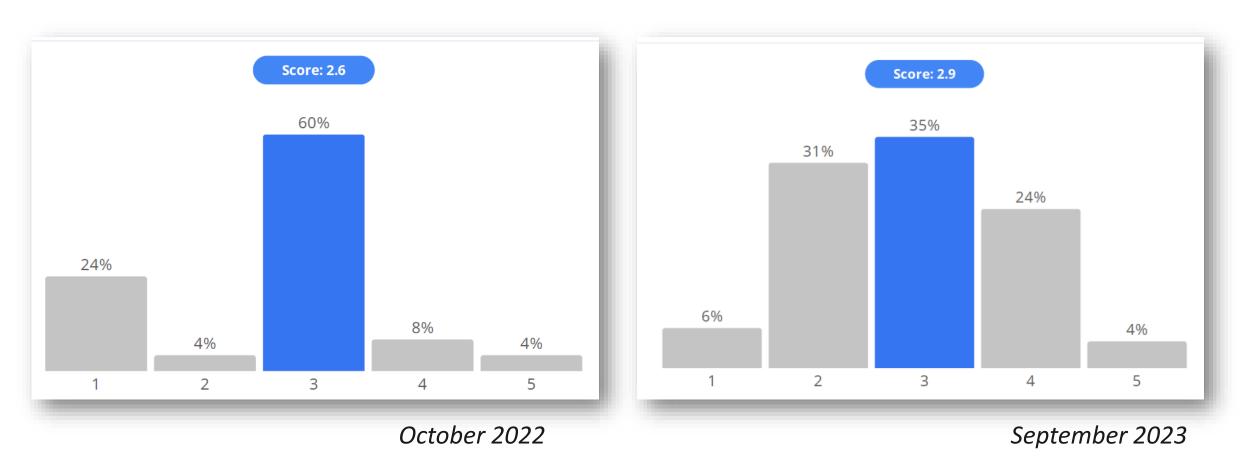


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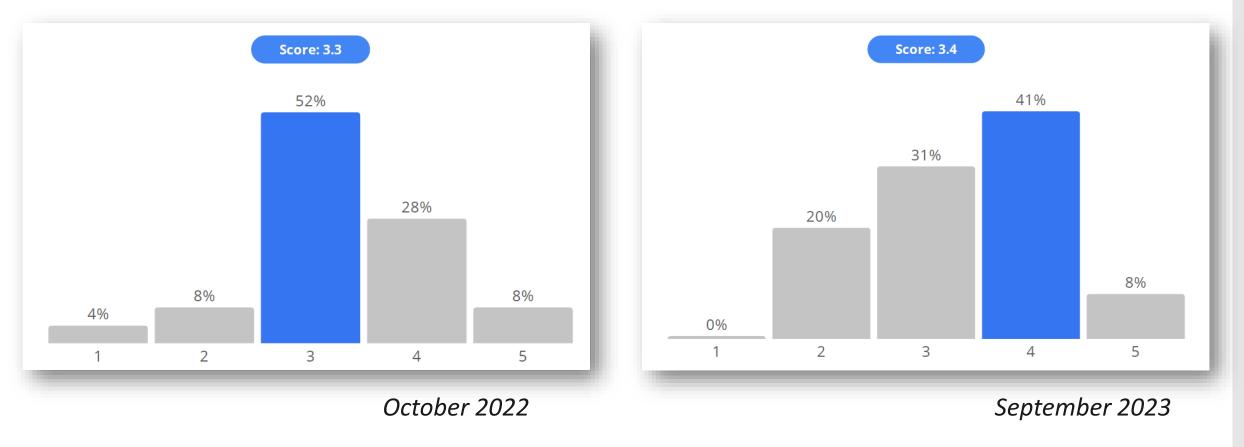
AI will totally disrupt the working processes at NMCAs







AI will have a significant impact NMCA business models



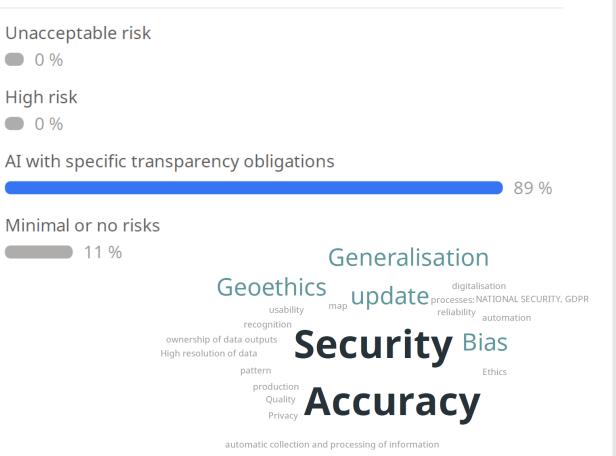


Trust and governance are important



What do you think about the main risks of using AI at NMCAs?

Thinking about the (future) use of AI by NMCAs, which risk levels do you envisage?



Which geospatial issues should AI policy take into account?

NMCA's outlook of Al

Routine

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- In the future : There is no future without AI
- Easier data collection.
- NMCAs can play a key role in providing high-quality, reliable reference data to support AI/ML training and validation of results.
 - AI is a tool that need to be used intelligently

- Automatic process of creating printable pdf/paper maps in different scales.
- to be a better service deliverer
- Different staff skill set and new data being collected from different

sources

 NMCAs already apply AI/ML, but an still before the tipping point. Some already have excellent results and expertise - but overall, we will have to put more resources to catch up with this field.

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• NMAs - pursue it!

- AI Can be a very usefull tool in our production processes !
- AI is a tool
- hopefully it will be able to manage many of the 'low hanging fruit' jobs in object detection, almost autonomously.
- Less manual work, just checking

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Thank you!

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