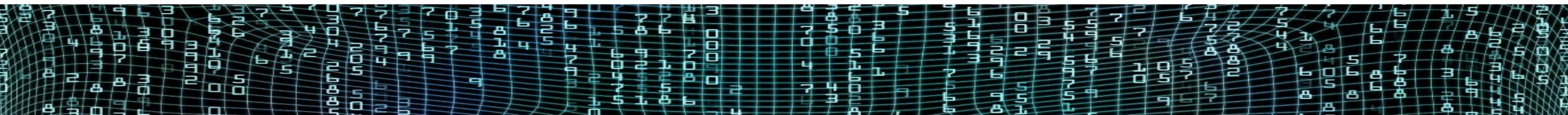


ARTIFICIAL INTELLIGENCE FOR NMCA'S

Highlights from a Joint EuroSDR - EuroGeographics Workshop

Colin Bray, EuroGeographics, Ordnance Survey Ireland

GeoAI Side-event of UN-GGIM: Europe Plenary, 14th October 2021



Joint Virtual Workshop organised by EuroGeographics and EuroSDR

as two half-day sessions on the 3 – 4 February 2021


WORKSHOP AIMS AND OBJECTIVES:

- Raising **awareness** and **understanding** of **AI** within the context of NMCA's. By sharing policy frameworks, research trends and experiences of implementing AI, this workshop will help us to appreciate the **impact, benefits, limitations** and **effects** of AI on the business processes of European NMCA's.
- What are the **potentials** of AI?
- What are the current technology **trends** in AI for geospatial data?
- What does this **mean** for National Mapping, Cadastral and Land Registration Authorities (NMCA's) across Europe?
- What are the **potential risks**?

ARTIFICIAL INTELLIGENCE FOR NMCAAS

- Go to slido.com on your phone or device
- Event code is #AI4NMCAs
- You can get to the event by using your phone camera on the QR code
- We will be doing Q&A, polls and comments using slido
- Please do interact, we have a poll running now, please do try it out!

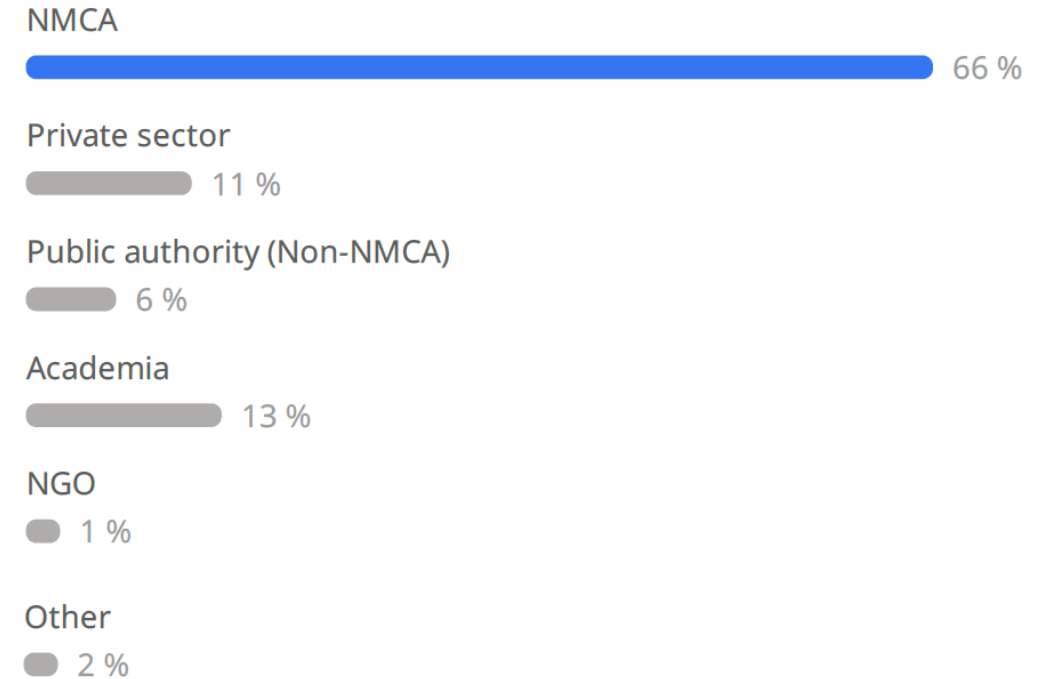


 Tweet using the #AI4NMCAs
and cc in @eurogeographics and @EuroSDR

A diverse audience of 250 participants



Which sector are you representing?



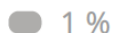
AI IN NMCAS – THREAT OR OPPORTUNITY?

Is AI a threat or an opportunity for NMCAs?

Opportunity



Threat



Don't know



What are the key opportunities for NMCAs? You can select maximum three opportunities

Cost/Time savings



Development of innovative products/services



More efficient business processes (Example: automation, change detection)



Improved geospatial information quality



What are the main threats of AI for NMCAs? You can select maximum two threats

Ethical issues (e.g. discrimination, privacy, data protection)



Overuse of AI



Liability



Job elimination

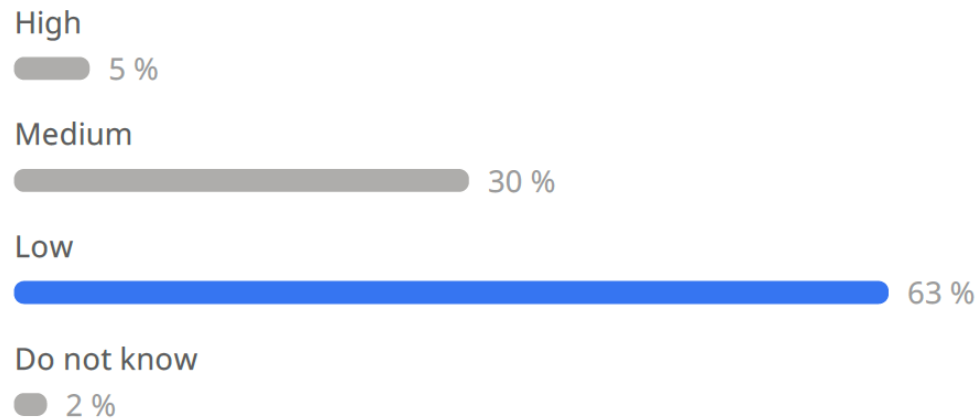


Wrong investments



STATUS OF AI IN NMCAS

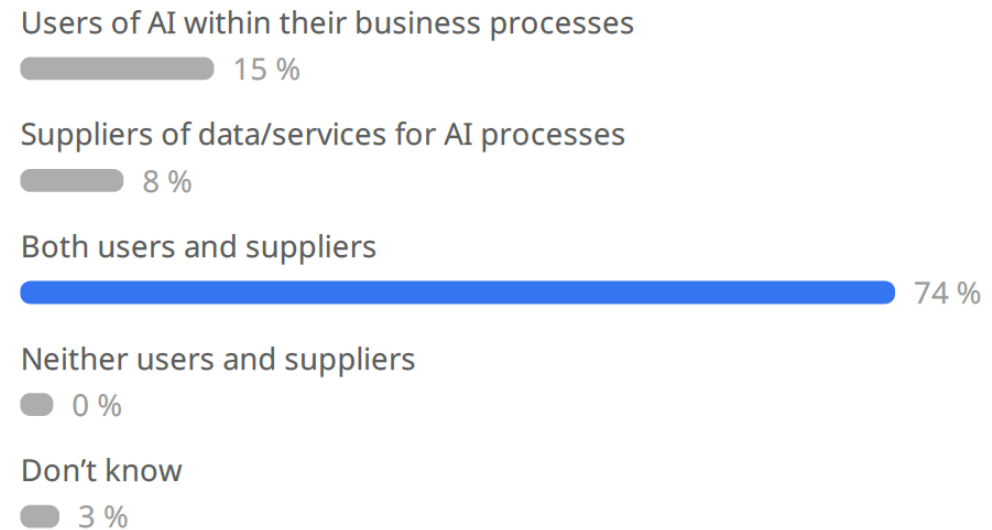
How mature do you think is the use of AI in NMCAs?



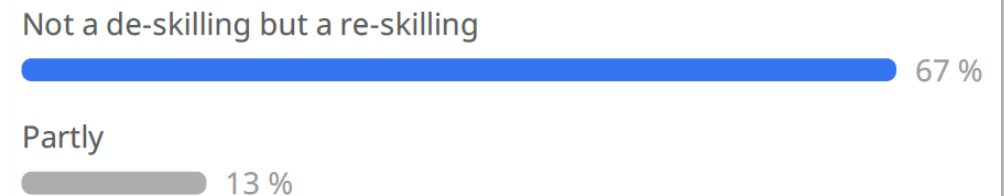
Do you think that increased automation by using AI at NMCAs means a risk of job losses?



Where do you think do NMCAs fit into the AI cycle?

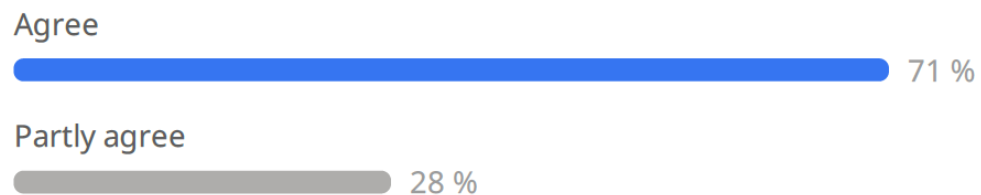


Is AI causing a de-skilling of NMCAs workforce?



THE FUTURE OF AI FOR NMCAS? NEXT STEPS

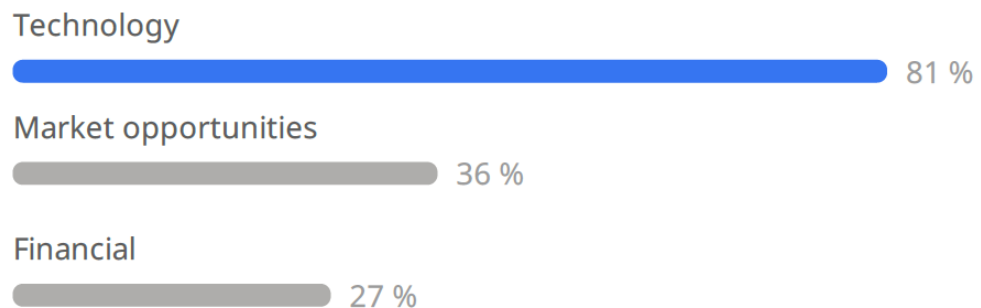
AI is essential for future NMCAs activity.



Should AI policy take into account geospatial issues?



What are the drivers for AI research? You can select more than one



With AI, will tech giants overtake NMCAs and make them redundant?



WRAP UP DAY 1

- AI is an **opportunity** for NMCAAs (e.g. cost/time savings, more efficient business processes)
- **Low AI-Maturity** at NMCAAs -> most applications are in stage of Proof-of-Concept
- AI is **not** considered a **threat** for NMCAAs (some concerns about ethics and overuse)
- Numerous AI-policy initiatives at EU-level + national level
- Do not expect miracles and radical changes of AI-use

WRAP UP DAY 2

- Role for NMCAs and network organisations like EuroGeographics/EuroSDR/FIG to **support legislative development**
- **Ethical** concerns (being addressed through charters elaborated at international level)
- Rights in digital world must be the same as rights in real world
- **Measures** to prevent identification of a person's location must be taken
- **Risk** of discrimination through machine learning algorithms / bias in data collection
- AI as a tool, not as a magic bullet
- Some remaining issues: importance of post-processing, Training data is an issue, data noise

OPPORTUNITIES, THREATS, ETHICS..., IT IS ALL A MATTER OF BALANCE

NEXT STEPS

- Publication of PPTs on EuroGeographics and EuroSDR websites
- EuroGeographics/EuroSDR Workshop publication
- Follow-up EuroGeographics/EuroSDR AI Workshop
- Follow up of policy developments , in order to feed EU with geospatial concerns