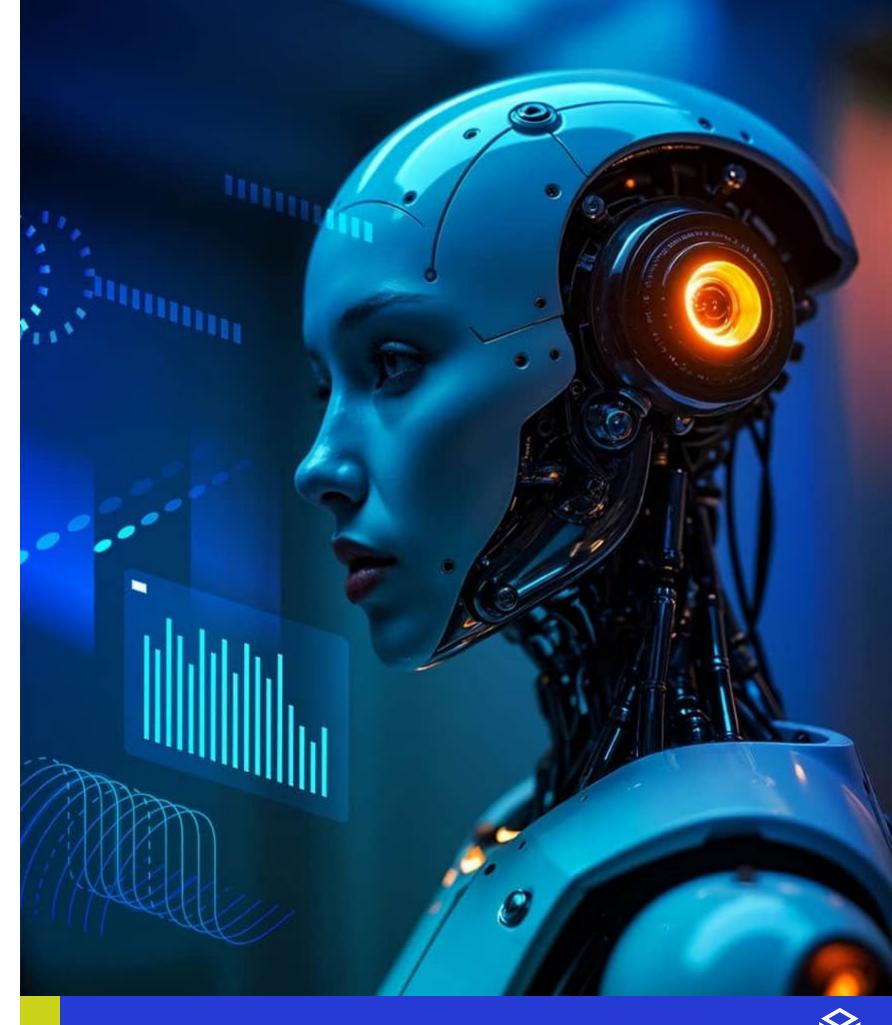






Will AI Eat Geo?

- Where we are going (and how did we get here)
- Interoperability in an era of Al
- Join the mission!





We created maps to simplify our understanding of the world



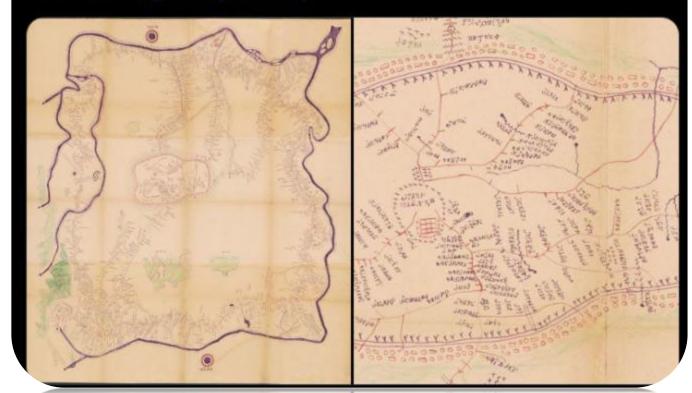


Nippur map tablet, Iraq (c.1500 BC)

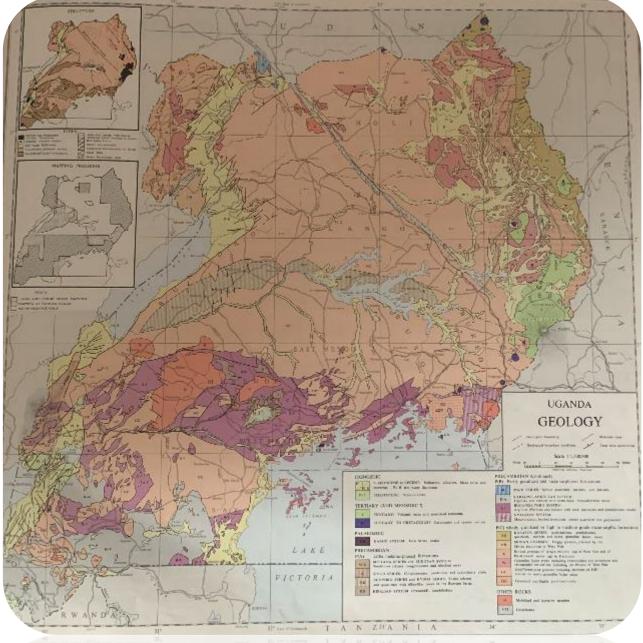


Check out this amazing map of the Bamum kingdom! It's written in the Bamum script, which was developed in the early 1900s by Sultan Ibrahim Njoya. The map shows the kingdom and the walled city of Foumban, now part of modern Cameroon.

Zoom in here: go.usa.gov/xu8uy



City of Foumban, Bamum Kingdom (c.1912 – 1919)



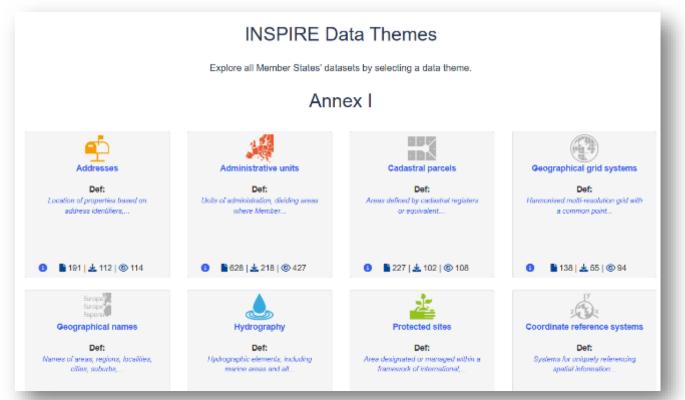
Geology of Uganda, Department of Lands and Surveys (1967)

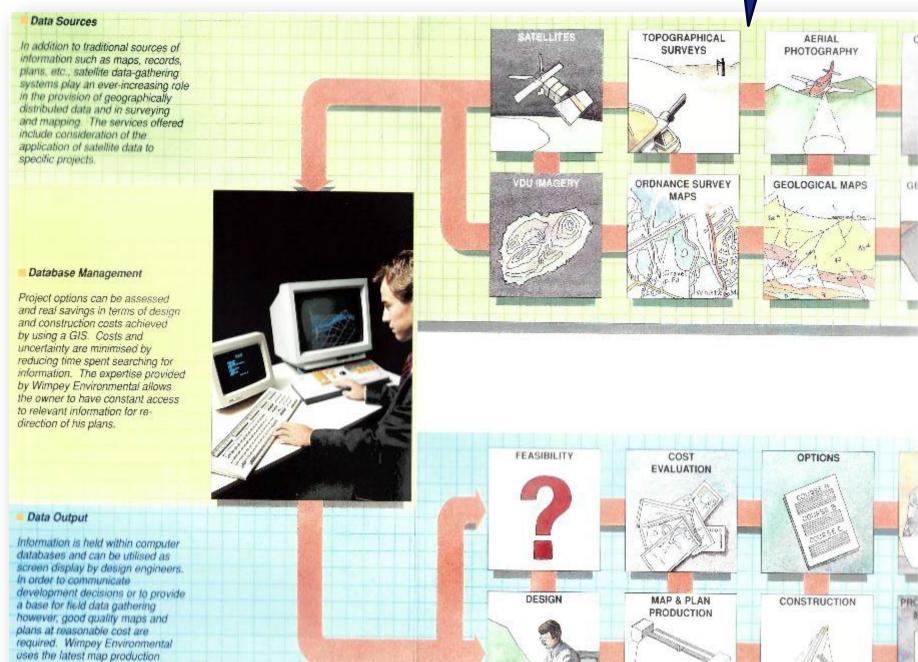


Then we digitized them for efficiency (or so we thought)



Jakarta, JABOTABEK Land Use Mapping (1992)



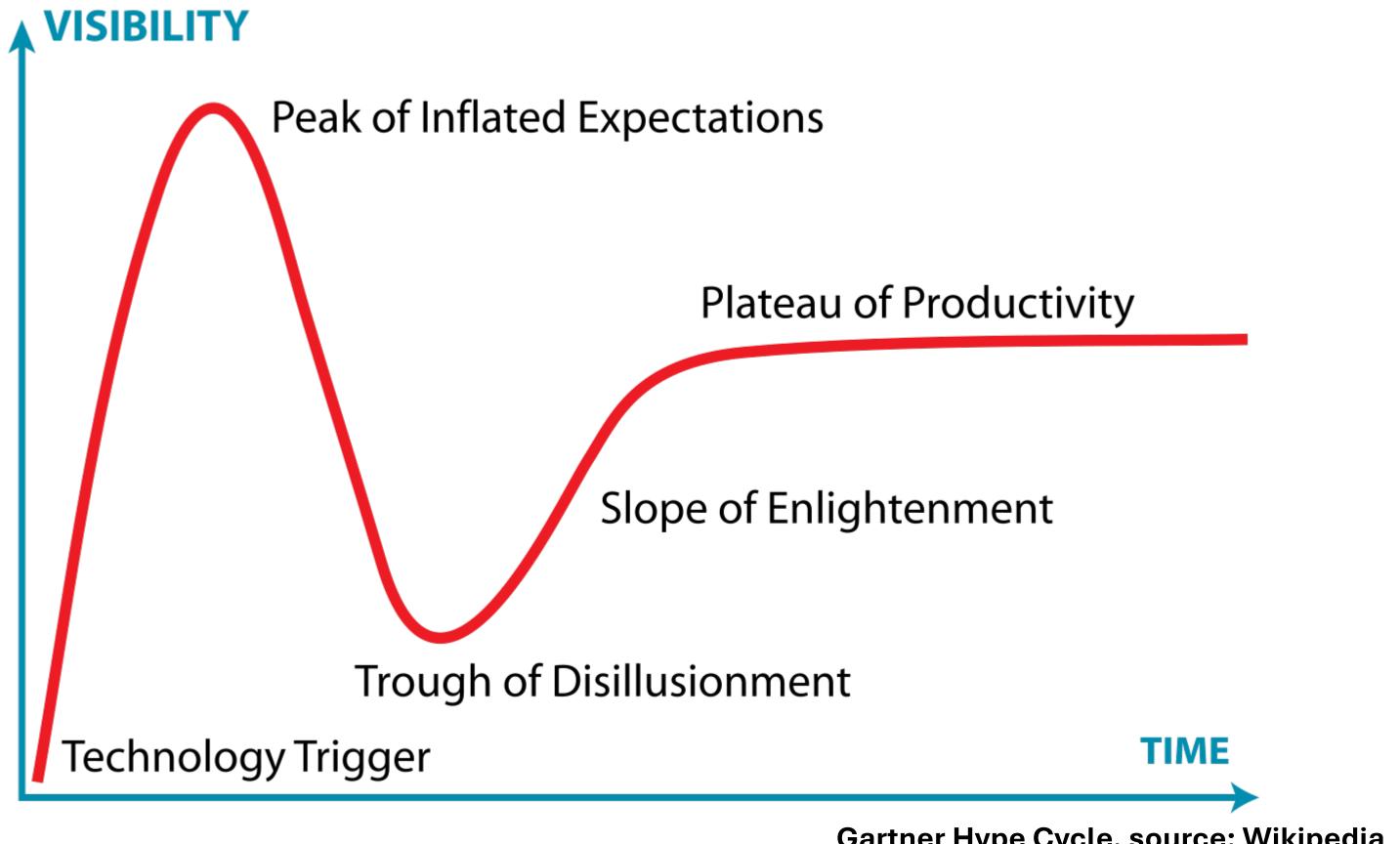


GIST brochure, Wimpey Environmental (1989)

Geo

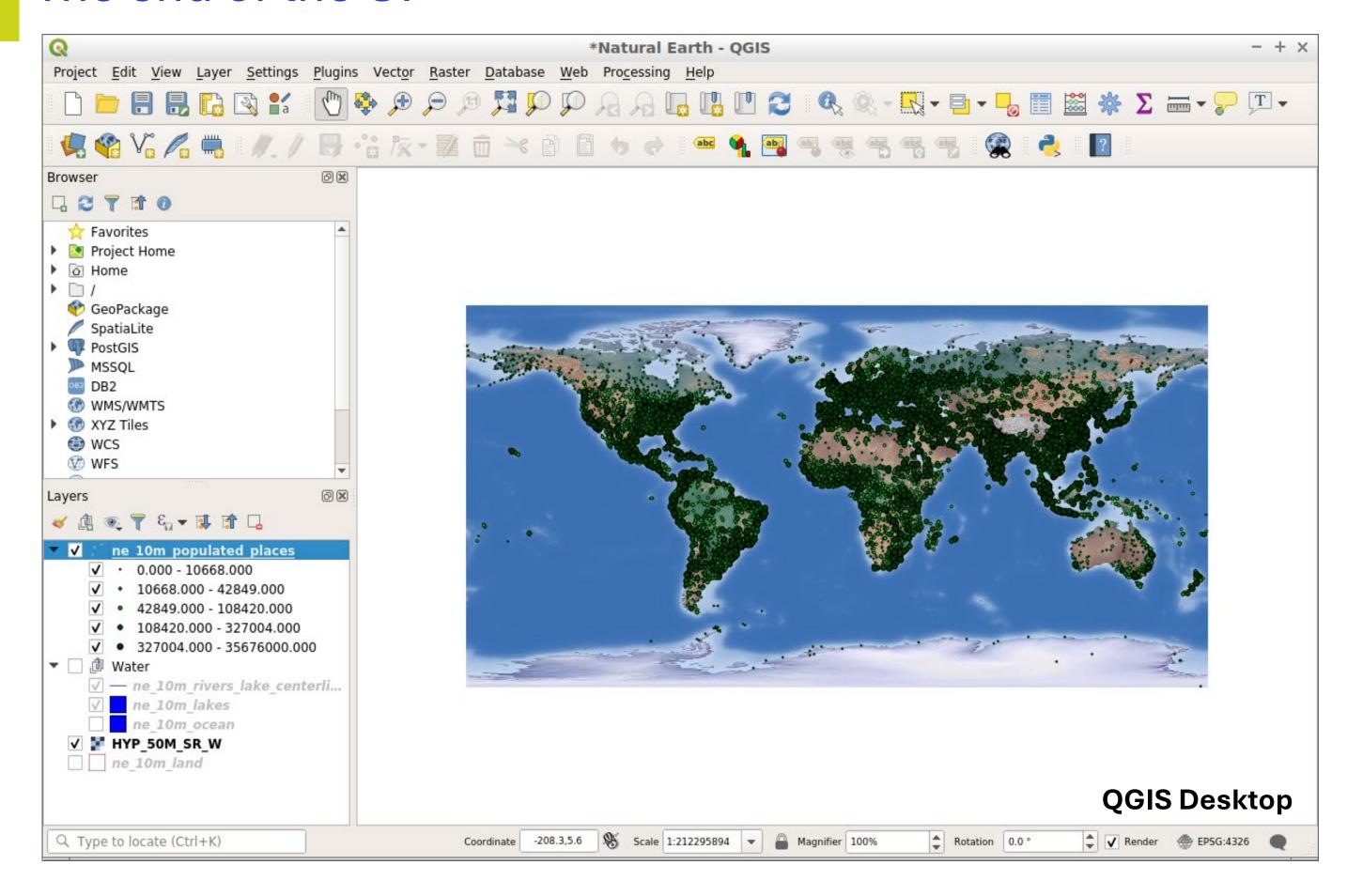
INSPIRE data catalog

Al offers a return to simplicity but not without its challenges





The end of the UI





And the rise of the agent

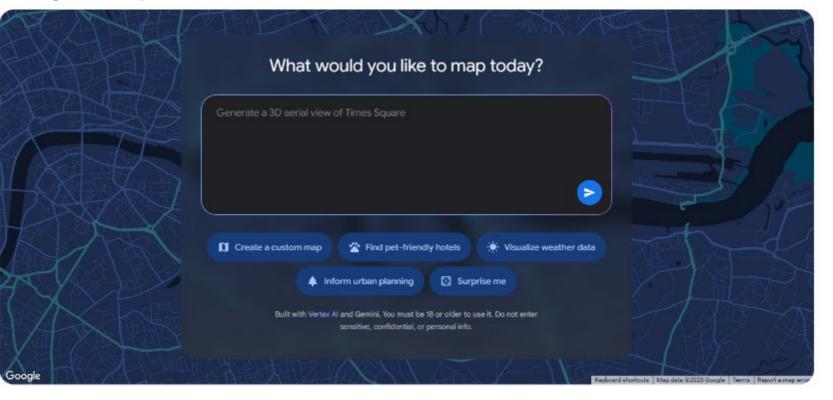
CRIM's Flood Risk Agent



Carto's Al Agents



Google's Maps Platform

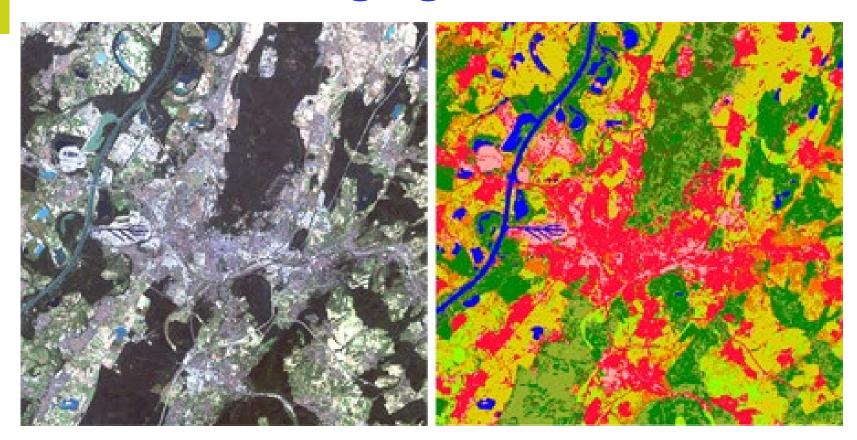




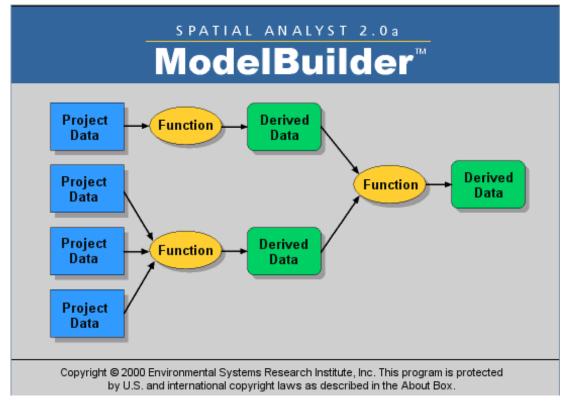
Geo



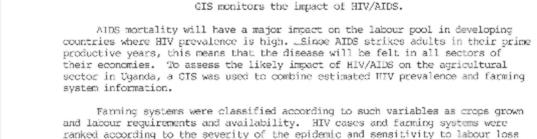
We were using agents in the 70's & 80's



Satellite Image from the Karlsruhe Region and Classification Source: LANDSAT and © LUBW with modifications



Esri's ModelBuilder (ArcView)

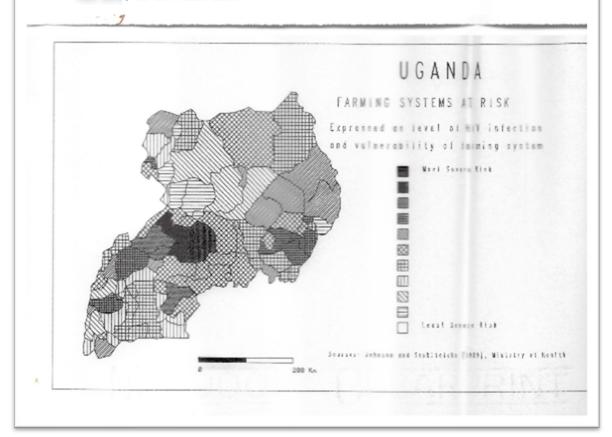


Farming systems were classified according to such variables as crops grown and labour requirements and availability. HIV cases and farming systems were ranked according to the severity of the epidemic and sensitivity to labour loss and combined in an additive fashion. The resulting map showed areas where AIDS doaths would have the greatest impact. This relatively simple example could be modified to include more farming system information or other appropriate data. It is clear that a CIS can add to the tools available for monitoring the disease and planning responses to mitigate the consequences.

For more information contact: Eastern Africa Dept., (202)

5, or i.,...., Asia Technical Dept., Infrastructure Div., (202)

3, at the World Bank.



Modelling Impact of HIV / AIDS in Uganda (PC ARC/INFO)



Those agents are now smarter & faster



1:5.000 Series, 2007 stereo plotting, complex project involving over 1.2 million euros, 20+ people complete QC/QA program. 1 year edited and reviewed many times.

2024 True ortho. 1 Geographer with a single GPU with #AI capabilities, 2 days for training and 1 day for inference + regularization. No editing, just automatic regularization. Revision and QC/QA pending.

Cantabria, Spain

Courtesy Gabriel Ortiz, Government of Cantabria, Spain

(13) Gabriel Ortiz | LinkedIn



World Models are driving the next wave of Al

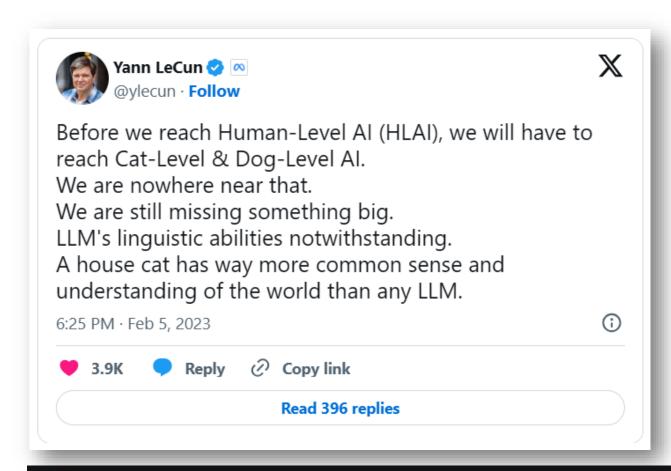


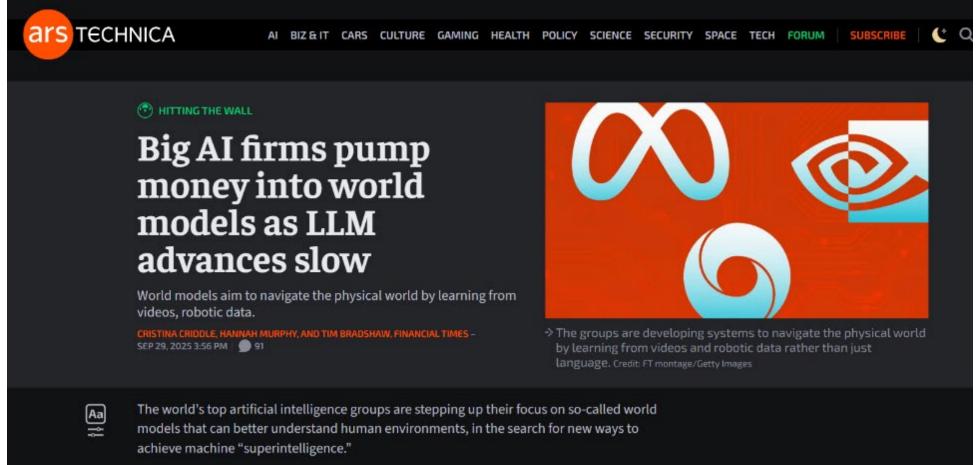
'A house cat has way more common sense of the world than any LLM.'
Yann LeCun, Meta's chief Al scientist

Progress depends on systems that can model the world, remember, reason, and plan¹.

As LLMs reach their limits, reasoning models, world models, and robotics will drive the next Al wave².

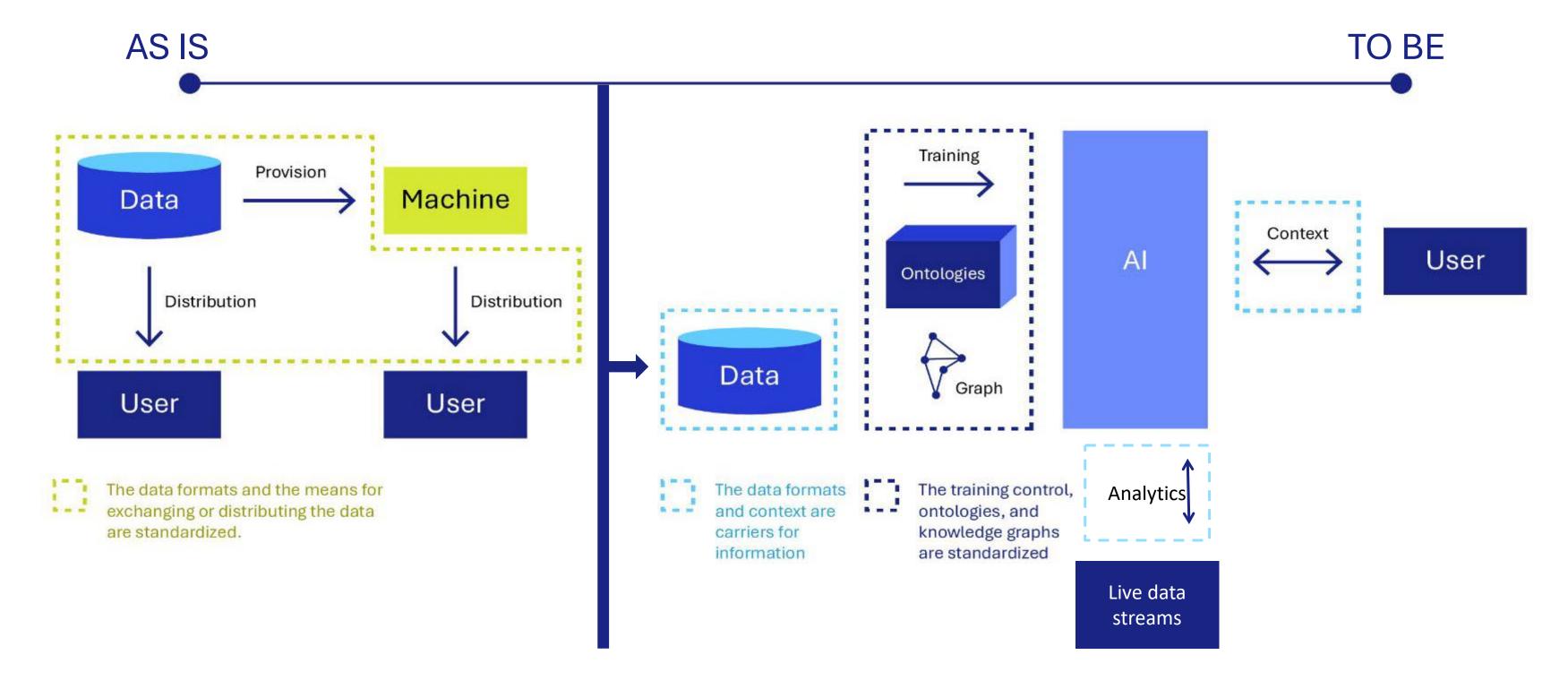
¹https://www.builderlab.ai/p/why-lecun-is-betting-on-world-models ²https://www.1950.ai/post/why-yann-lecun-believes-ai-needs-world-models-not-just-language-models-2





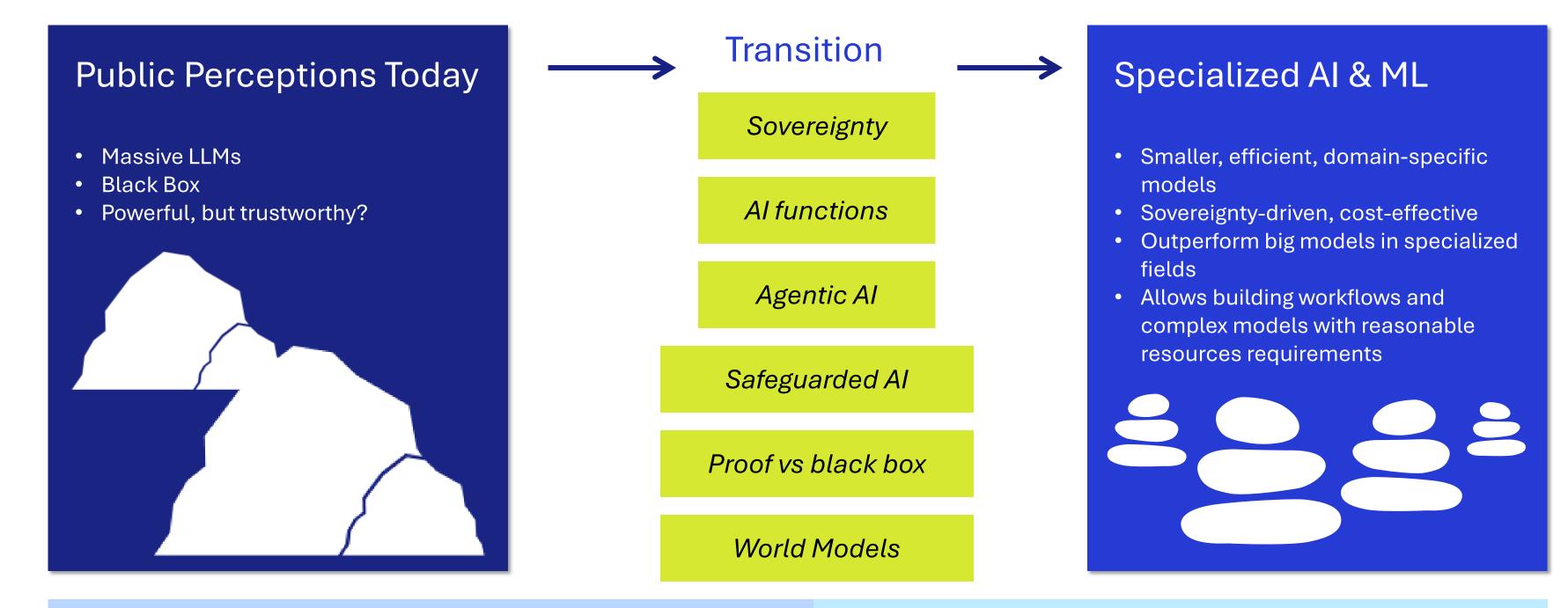
The question isn't "can I get the data?" but "can I trust it?"

From codifying data to codifying knowledge – reusable technical blocks that can be assembled in countless ways to meet the needs of different users, sectors, and geographies





Blocks – a new enabling ecosystem for standards



Real-World Systems:

- Autonomous cars, power grids, underground infrastructure
- Al must be trusted and safe
- Formalize expert knowledge → ML inference → safety regions → real world data integration at runtime

OGC's Role:

- Integral, not niche: Geospatial everywhere
- Safeguarded AI for spatio-temporal systems
- Support fast innovation & slow public admin
- Vision: Ask a chatbot, get a trustworthy system

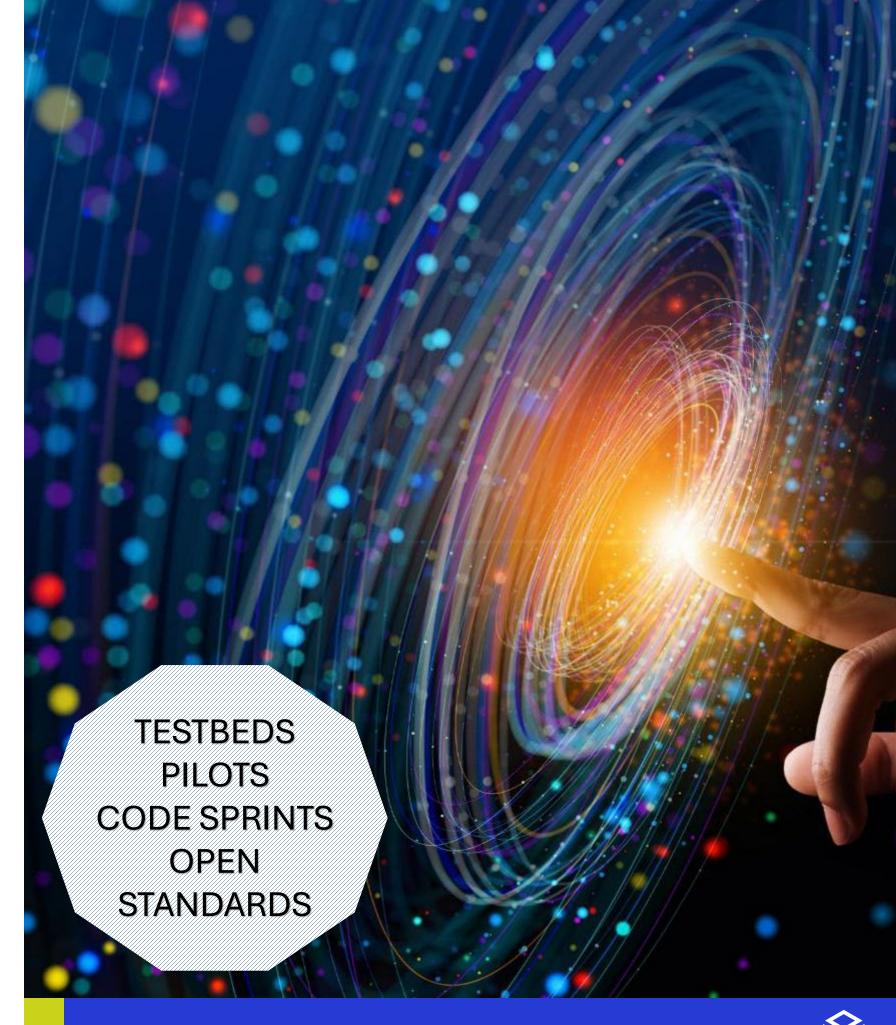


Shaping a World that Works Better Together through Innovation and Collaboration

OGC is the world's leading non-profit membership community dedicated to advancing geospatial interoperability.

For over 30 years, OGC has united governments, businesses, and academia to solve critical challenges through collaboration and open standards. By fostering innovation and cooperation, OGC helps address security and societal issues while unlocking economic value.







OGC Members

Government













Commercial

























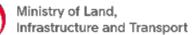






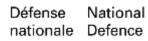






















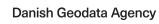






















University











Non-Profit































































OGC Membership Levels & Benefits

We offer four membership tiers designed for different levels of engagement and organizational impact.

Explorer Member

Entry-level participation with community engagement, working group access, and 5 portal licenses.











Strategic Member

Active influence with Technical Committee voting rights, 20 portal licenses, and ability to propose new working groups.











Principal Member

Leadership role with unlimited licenses, Board of Directors election participation, and C-Suite forums.















and ability to direct membership dues to specific initiatives.







NEW Individual & Developer Member

Be part of a community where practitioners, researchers, students, and experts connect, share knowledge, and shape the future of geospatial.

"OGC shares our perspective of planning, thoughtful collaboration, and true partnership. To make impactful changes we need a long-term perspective on how we use our knowledge, information, and data."

Ultimate influence with Strategic Member Advisory Committee representation

— David Green, NASA Strategic Member



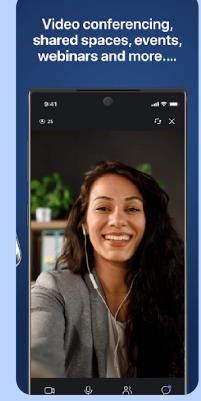
Agora: OGC's Community Hub

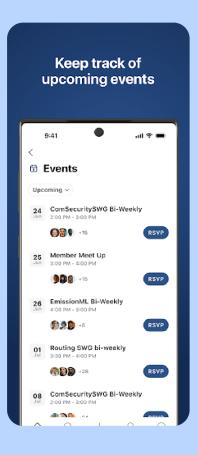
- A marketplace of ideas where members connect, share knowledge, and build collaborations
- A modern, app-based community engagement platform aligned to an increasingly mobile-first audience based on Circle
- Improved visibility about what's happening at OGC: > 250 spaces for members stay engaged with the latest conversations in geospatial innovation
- Al Agent for self service + branded mobile app (iOS and Android)















Join the Mission



Interoperability. Trust. Collaboration. Sovereignty.

Participate in OGC working groups



Engage in research and testbeds



Be part of a global community advancing open standards







Nigel Edmead Sr Director of Learning nedmead@ogc.org





