NATIONAL Sciences ACADEMIES Medicine Sciences Engineering Medicine

A World Café on Building Resilience -Setting the Stage for Collaboration



Key Takeaways from Day 1

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Roles and Responsibilities

- Towards a 'global ecosystem of systems' a multi stakeholder approach with steady and stable public investment
- Private sector has a significant role while philanthropies capable of funding specific gaps
- End- users need to be engaged all the way in the process, not as an afterthought



Governance and Coordination

- Need global coordination on set of EO observables and criteria for defining priorities
- Equity, openness and provenance to be part of foundational principles of governance
- Skilled workforce needs to be sustained, not assumed communicate the value of EO
- Multi-stakeholder governance is hard, but possible, commitment drives innovation



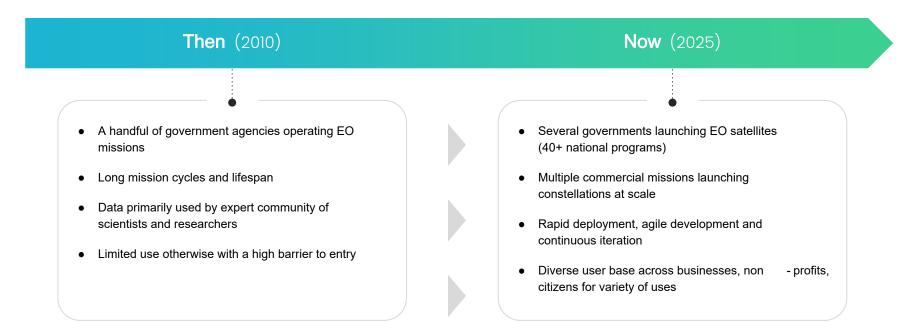
Technological Innovation, Barriers and Opportunities

- Co-design with the user, do not assume the value of EO a culture shift is needed
- Lower barriers for users to use, analyse, manipulate and visualize EO by providing tools to make data usable, not just access
- OSS and open-data infrastructures is the backbone of EO, but this should not be assumed



World Café: Setting the Stage

The EO Ecosystem Has Changed



"More actors, more dependency, yet same governance as before"



Global EO Governance Looks Like Today



Voluntary, best - effort basis



Technical (not political)



Primarily agency - to - agency



Reactive, no binding commitment



West - dominated



Process - heavy

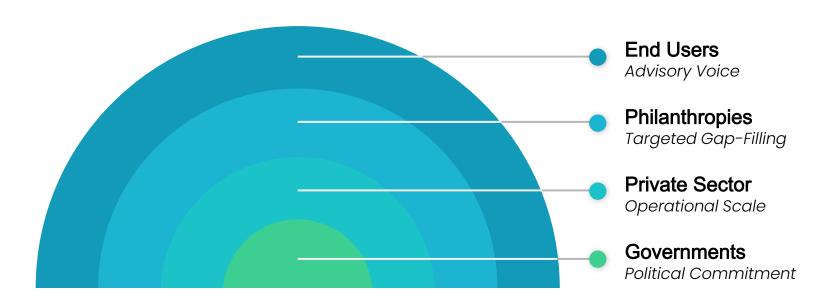
What Does a Resilient Globally Integrated EO System Need?

- Multiple stakeholders with structured roles governments, commercial, philanthropic, end users
- Political commitment, not just voluntary technical coordination
- Shared understanding of global observation needs and priorities
- Co-existence with defense and intelligence systems
- Data integrity, trust and provenance
- Mechanisms for when things fail
- Benefits sharing and equity
- Design with users in mind



A Multi-Stakeholder Framework

Different actors, different roles, one globally integrated EO system





Recognizing Sectoral Differences

Academic:

- *Priority:* Advancing knowledge, exploring new methods, workforce development.
- Strengths: Testbeds for innovation and piloting new technologies.

Private:

- Priority: Rapid, agile development and commercialization of solutions.
- Strengths: Moves quickly to address market needs, and scales technology.

Government:

- Priority: Ensuring transparency, trust, and public benefit.
- Strengths: Deliberate, rigorous approach to mission definition and oversight, and ensuring solutions serve the public good.

Nonprofit and Philanthropy:

- Priority: Addressing societal challenges, equity, and access.
- *Strengths:* Focus on communities, advocacy, and bridging gaps between sectors.

Credit. Hamed Alemohammad

What Does a Resilient Globally Integrated EO System Need?

- A. What do the sectoral roles need to be?
- B. How will the governance be structured?
- C. What enablers (technological, legal, institutional, political, financial ... etc.) need to be in place?



Thank you!