

Open Innovation for Earth Observation Programmes: An International Perspective

EO Platforms, Open Science, and Tangible Interoperability

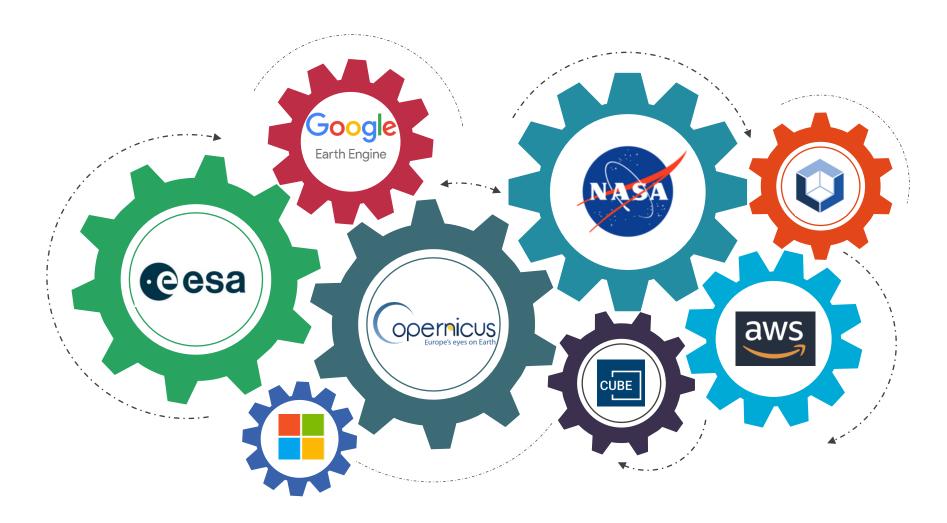
Dr. Ingo Simonis, OGC CTIO

November 2022



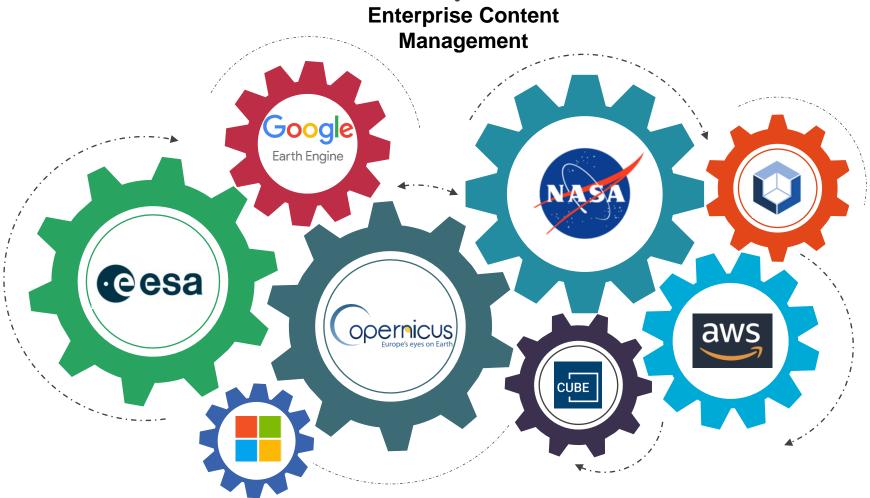






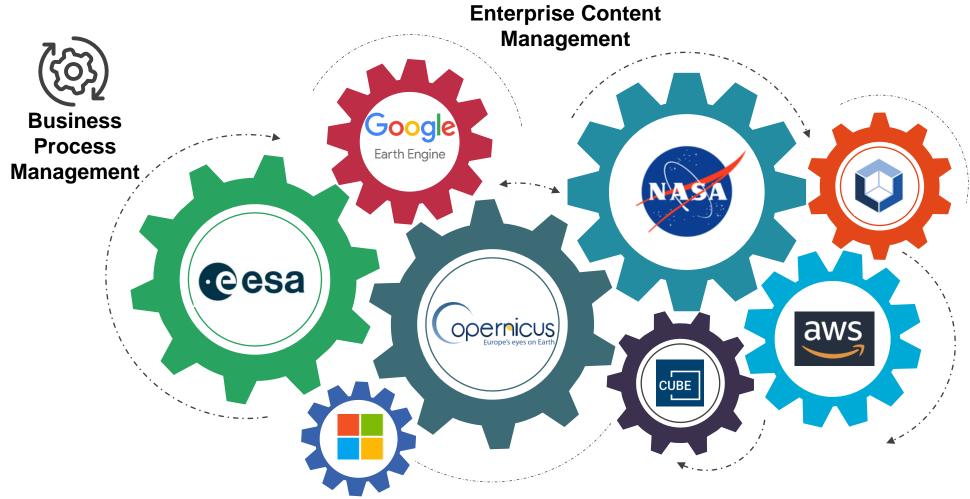






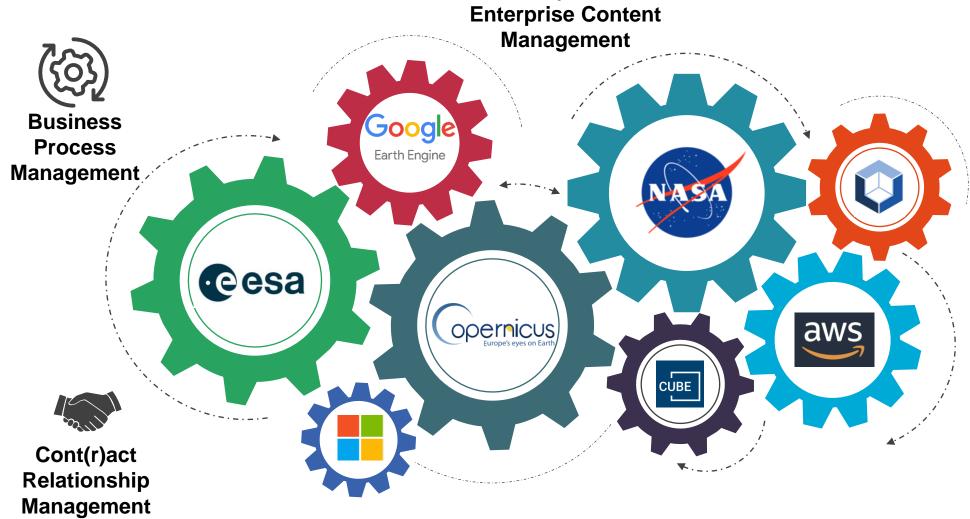






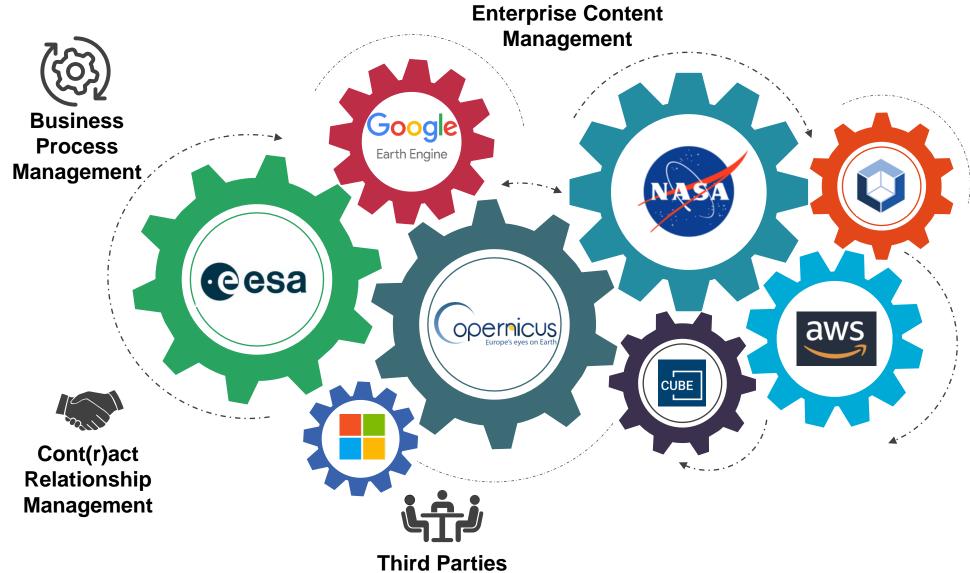














The Ideal **Enterprise Content** Management **Business** Google **Process** Earth Engine **Management** esa opernicus Europe's eyes on Earth aws Cont(r)act Relationship Management Knowledge **Third Parties** Management



The Ideal **Enterprise Content** Management **Business** Google **Process** Earth Engine **Management** esa opernicus Europe's eyes on Earth aws CUBE **Business** Intelligence Cont(r)act Relationship Management Knowledge

Third Parties

Management



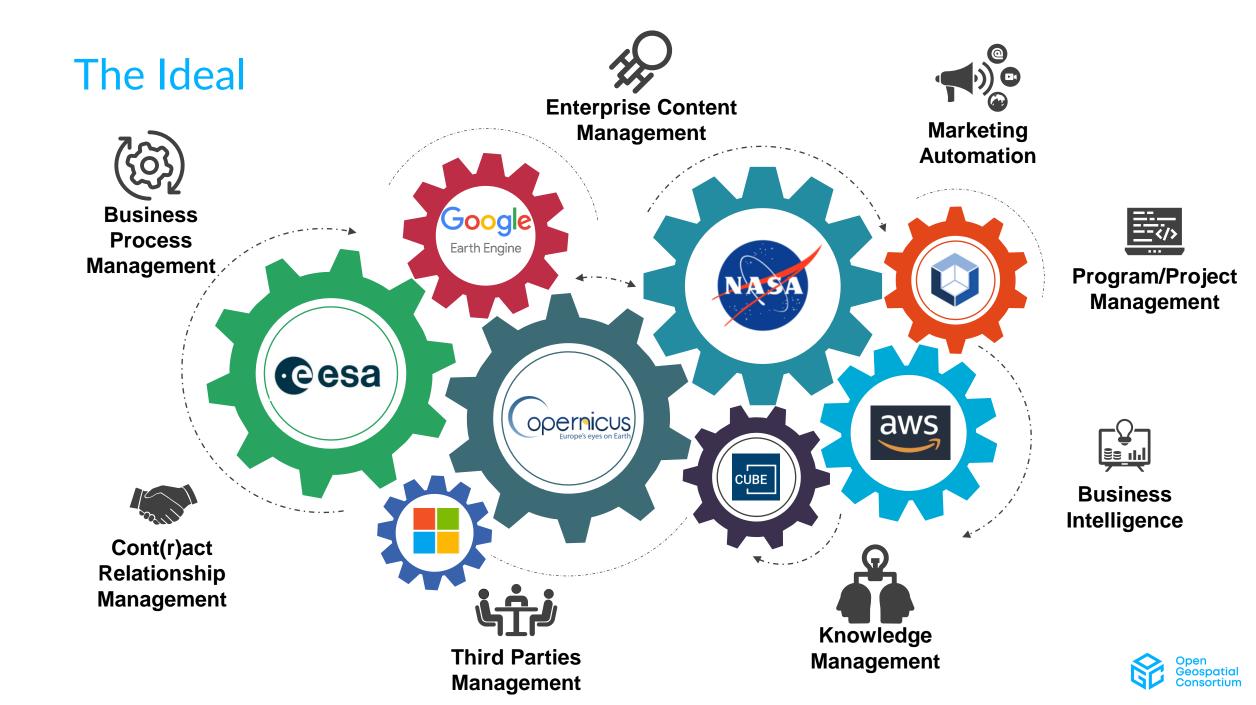
The Ideal **Enterprise Content** Management **Business** Google **Process** Earth Engine **Management** Program/Project Management esa opernicus Europe's eyes on Earth aws **Business** Intelligence Cont(r)act Relationship Management

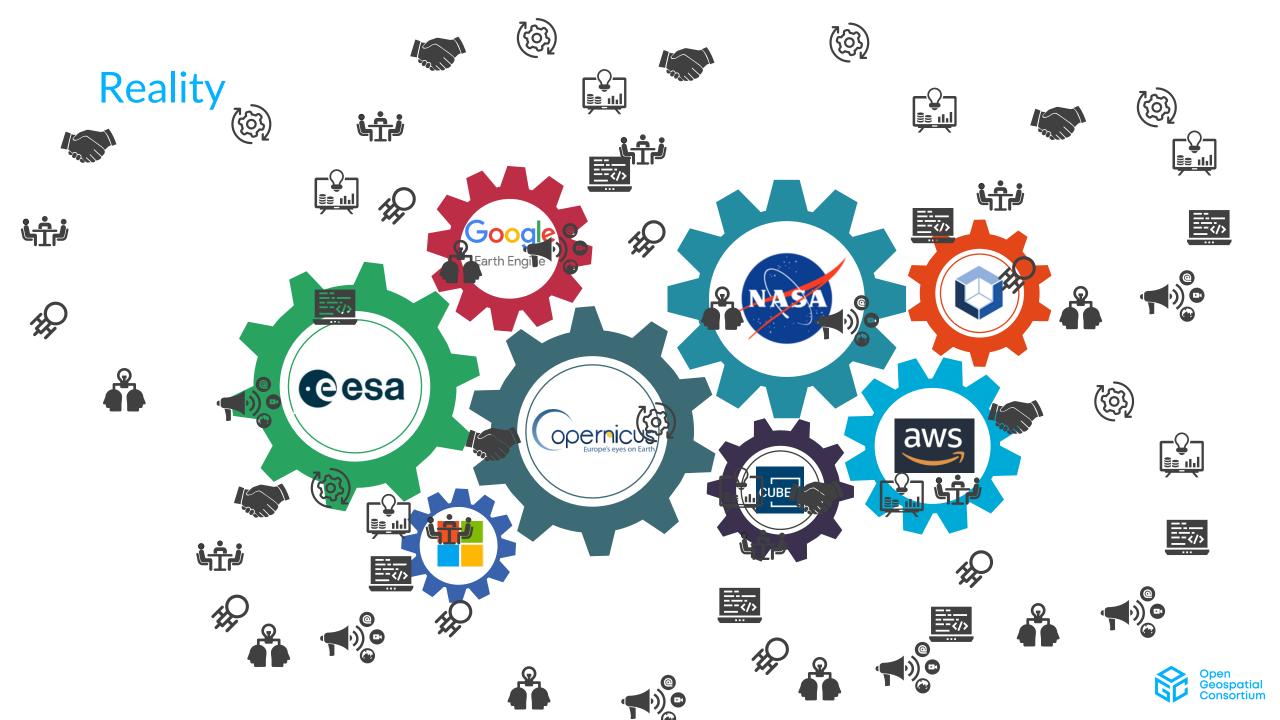
Third Parties

Management

Knowledge





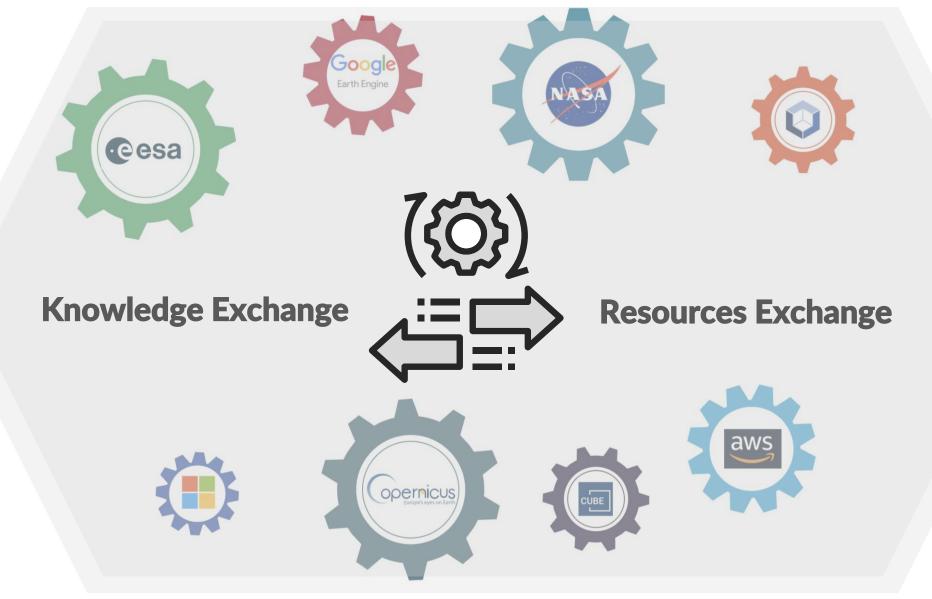


What do we need to do?



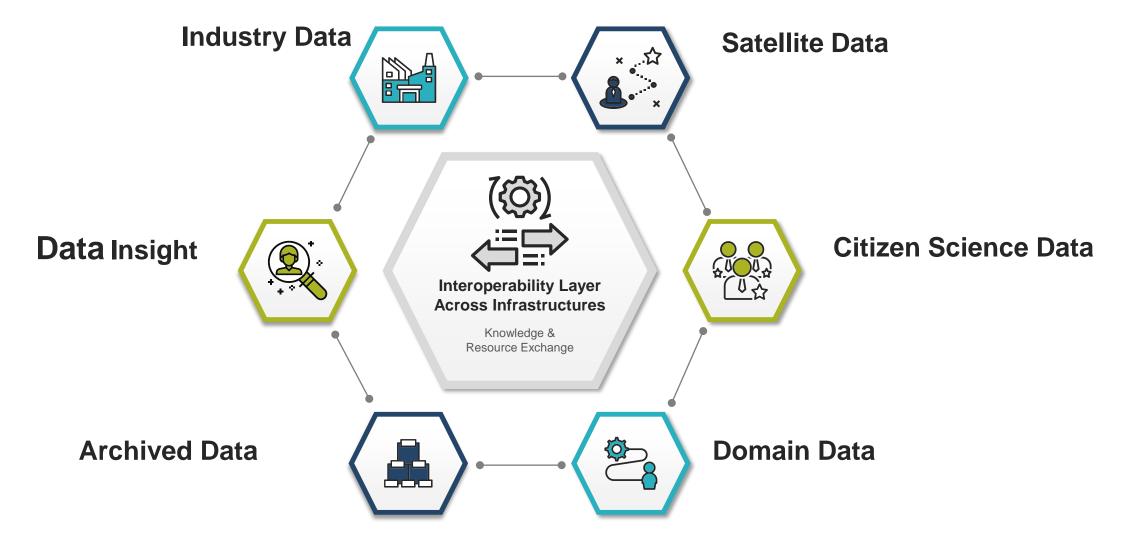


Interoperability Layer Across Infrastructures



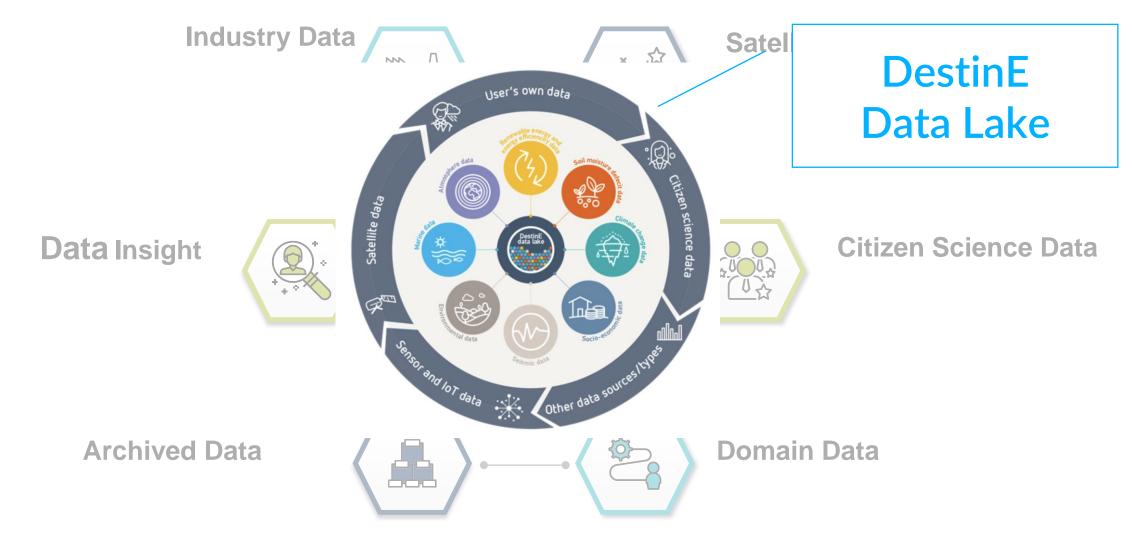


Why not a Single Platform?

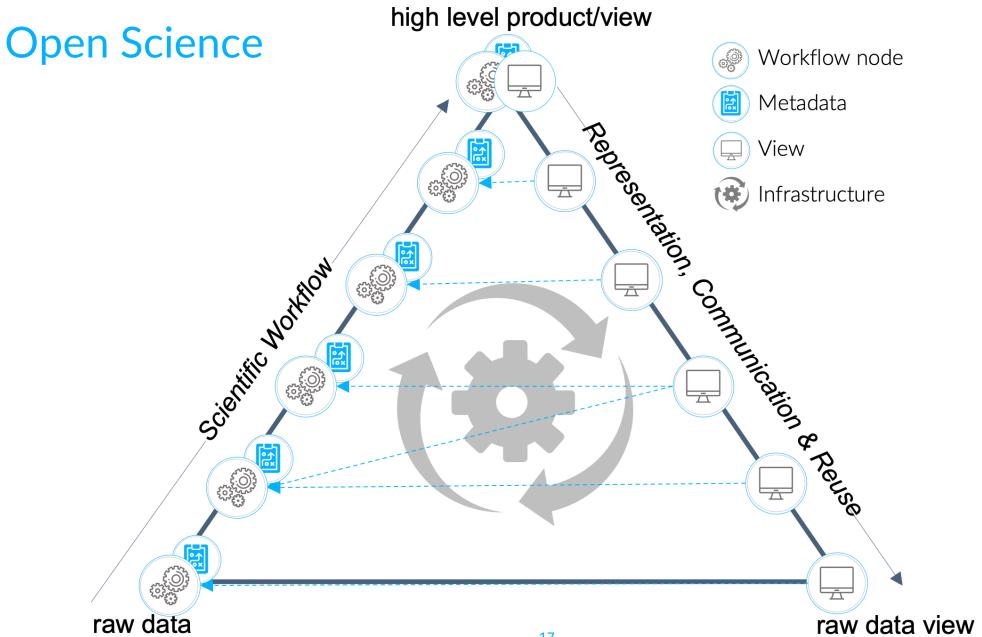




Why not a Single Platform?

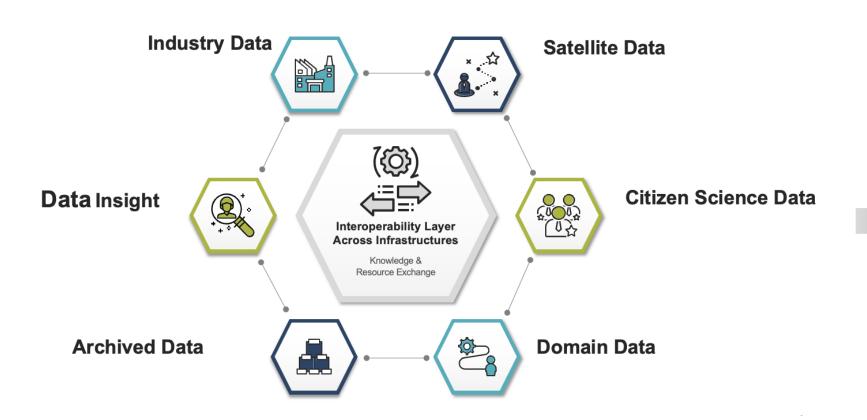








Why not a Single Platform?





New Products & Services

New Ventures



New Business Models

New Partnerships

New Business Practices

Sustainable Innovation



Interoperability Layer: What are the Ingredients?

- Standardized APIs
- Implementations
- Registries?
- Exchange models
- Strong semantics
- Exposed modularity
- Legal clarity



What are the Ingredients?

- Standardized APIs
- Implementations
- Registries?
- Exchange models
- Strong semantics
- Exposed modularity
- Legal clarity

Data Spaces

- IT infrastructure / Toolbox
- Data governance, ownership, and privacy: trustful data sharing
- Data and data reuse conditions
- Open Participation



What are the Ingredients?

- Standardized APIs
- Implementations
- Registries?
- Exchange models
- Strong semantics
- Exposed modularity
- Legal clarity

TOOLBOXES

REGULATORY

Data Spaces

- IT infrastructure / Toolbox
- Data governance, ownership, and privacy: trustful data sharing
- Data and data reuse conditions
- Open Participation

RESOURCES

BUSINESS MODELS

GOVERNANCE



What is the Path?

Persistent Demonstrator

Experimentation, demonstration, proof-ofconcept, and marketing tool



Open Exploitation Layer

Technical infrastructure with semantic foundation layer

Pilot Activities

To solve technology challenges, experiment, and demonstrate









Commercial Exploitation Layer

Business model experimentation and maturation playground

Community Building

Sustainability through community building; includes training and material, workshops, best practices





Software / Components

EO Exploitation Platform concept with apps to the data allows rapid deployment of applications in various clouds





Thank You

Community

500+ International Members

110+ Member Meetings

60+ Alliance and Liaison partners

50+ Standards Working Groups

45+ Domain Working Groups

25+ Years of Not for Profit Work

10+ Regional and Country Forums

Innovation

120+ Innovation Initiatives

380+ Technical reports

Quarterly Tech Trends monitoring

Standards

65+ Adopted Standards

300+ products with 1000+ certified implementations

1,700,000+ Operational Data Sets

Using OGC Standards



