

# Standards Lessons Learned from e-shape. H2020 Project on the use of the Cloud for EO

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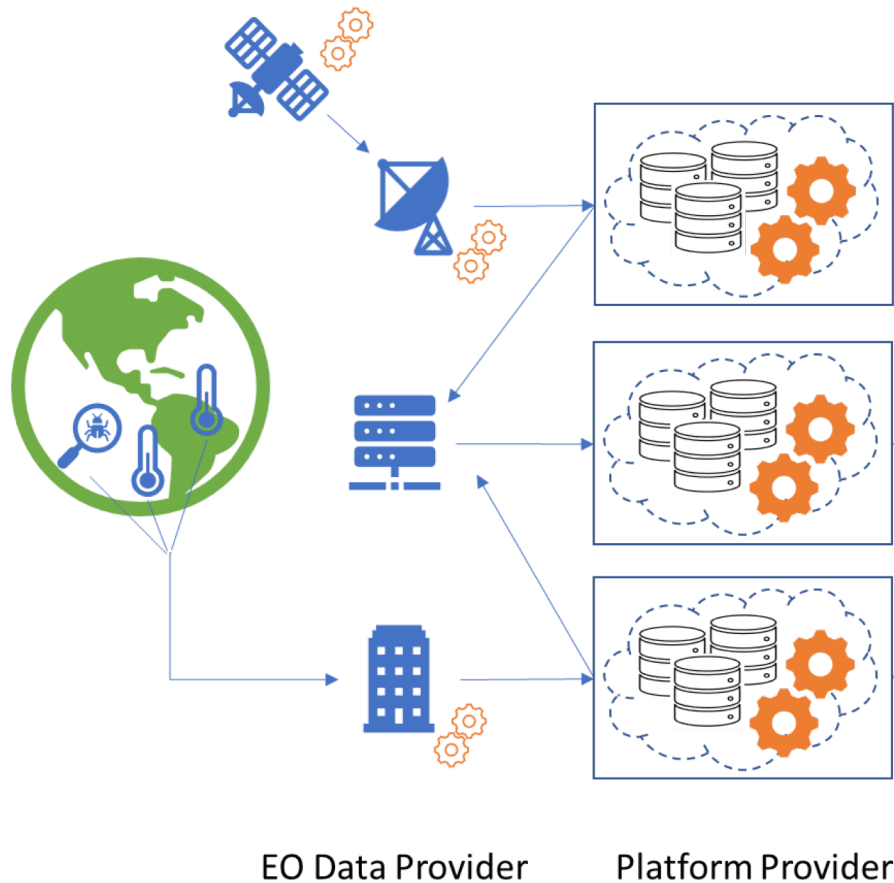
Europe Director, Innovation Program

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# OGC Cloud Concept Development Study

*The major (big) Geospatial Data providers are going towards Cloud solutions not only to make more data more accessible, but also to locate data processing next to the data.*

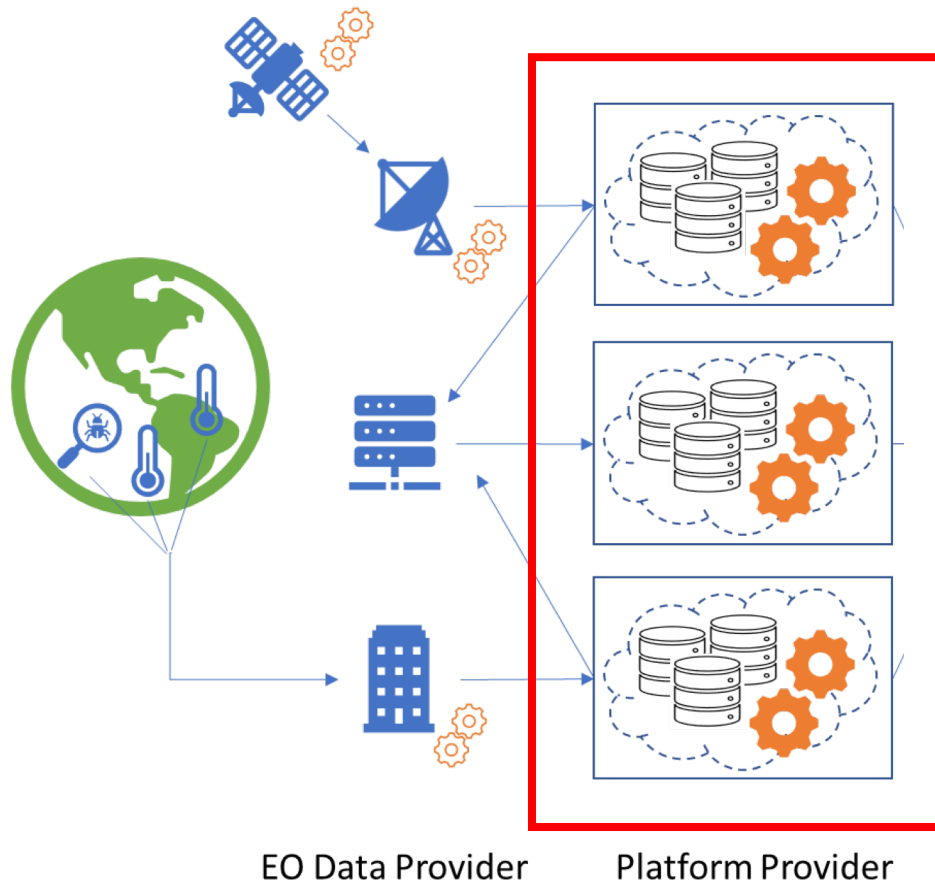


<https://docs.ogc.org/per/21-023.html>

# EOEPCA enables EO Platforms federations



*Efforts such as the Earth Observation Exploitation Platform Common Architecture (EOEPCA) from ESA enable the federation of platforms to benefit from all platforms assets.*



<https://eoepca.github.io/>

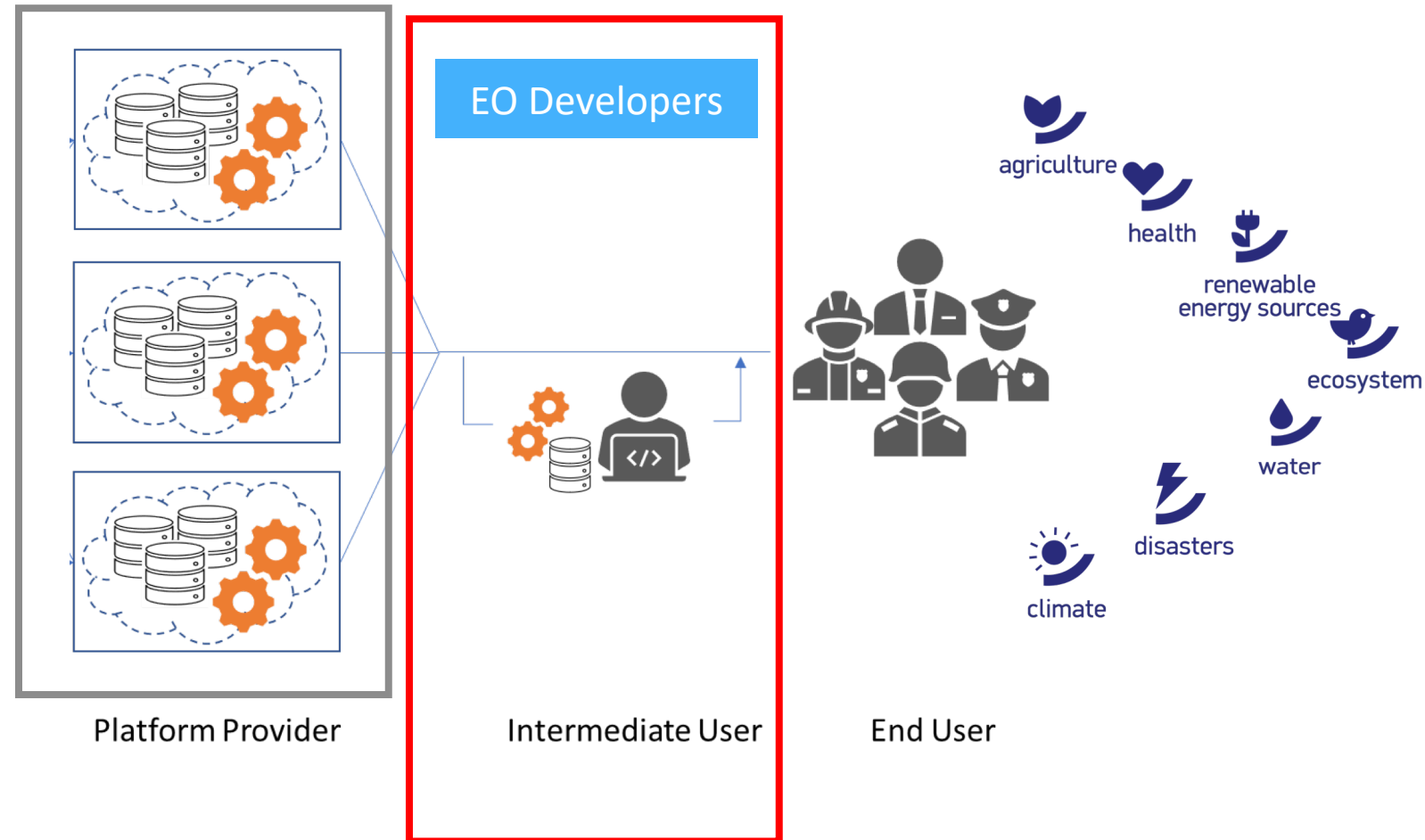
# E-shape H2020

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 820852

*EO developers community still needs support to fully adopt the Cloud*

7 Showcases  
37 pilots  
68 Partners

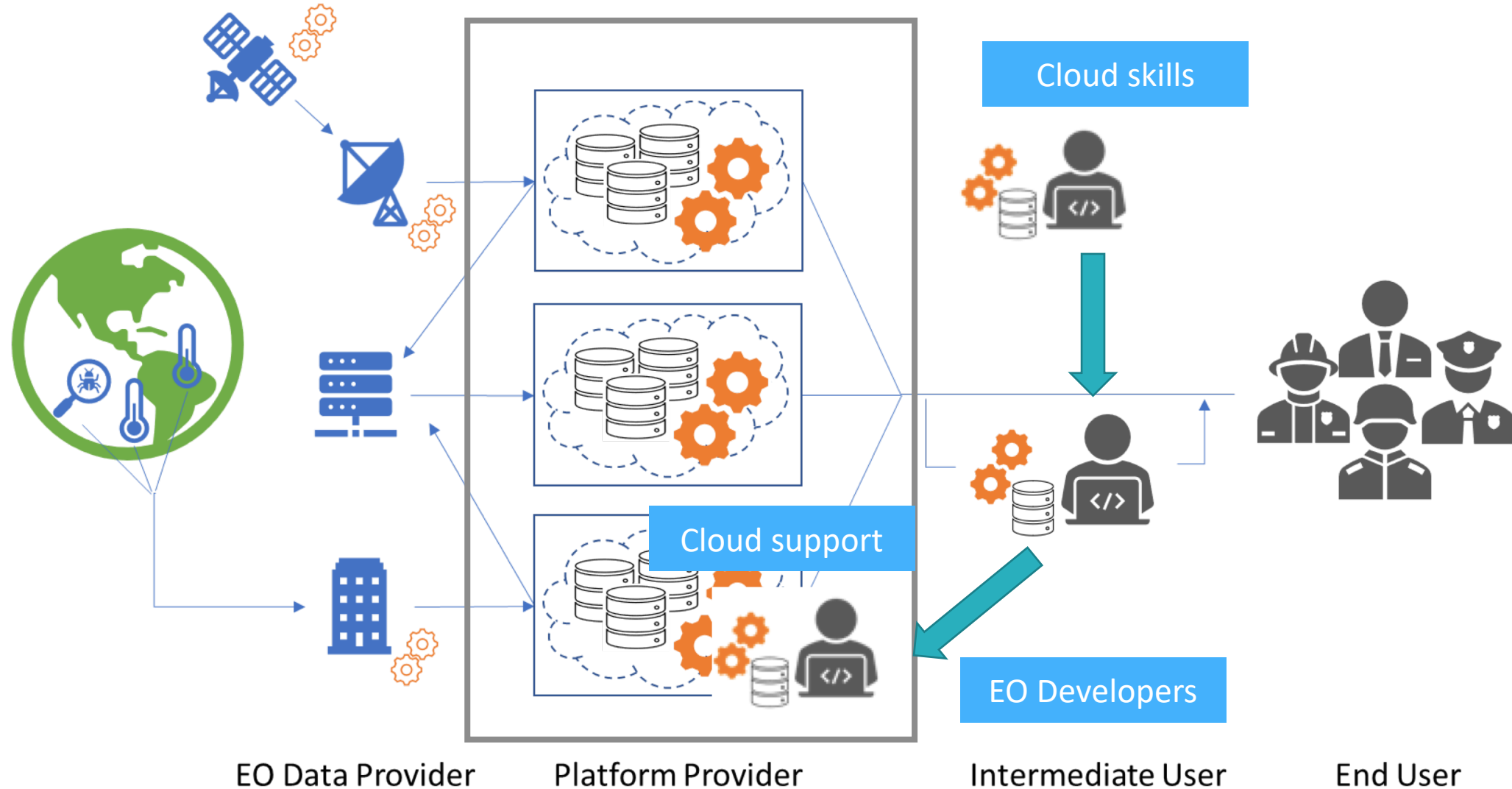
<https://e-shape.eu/>



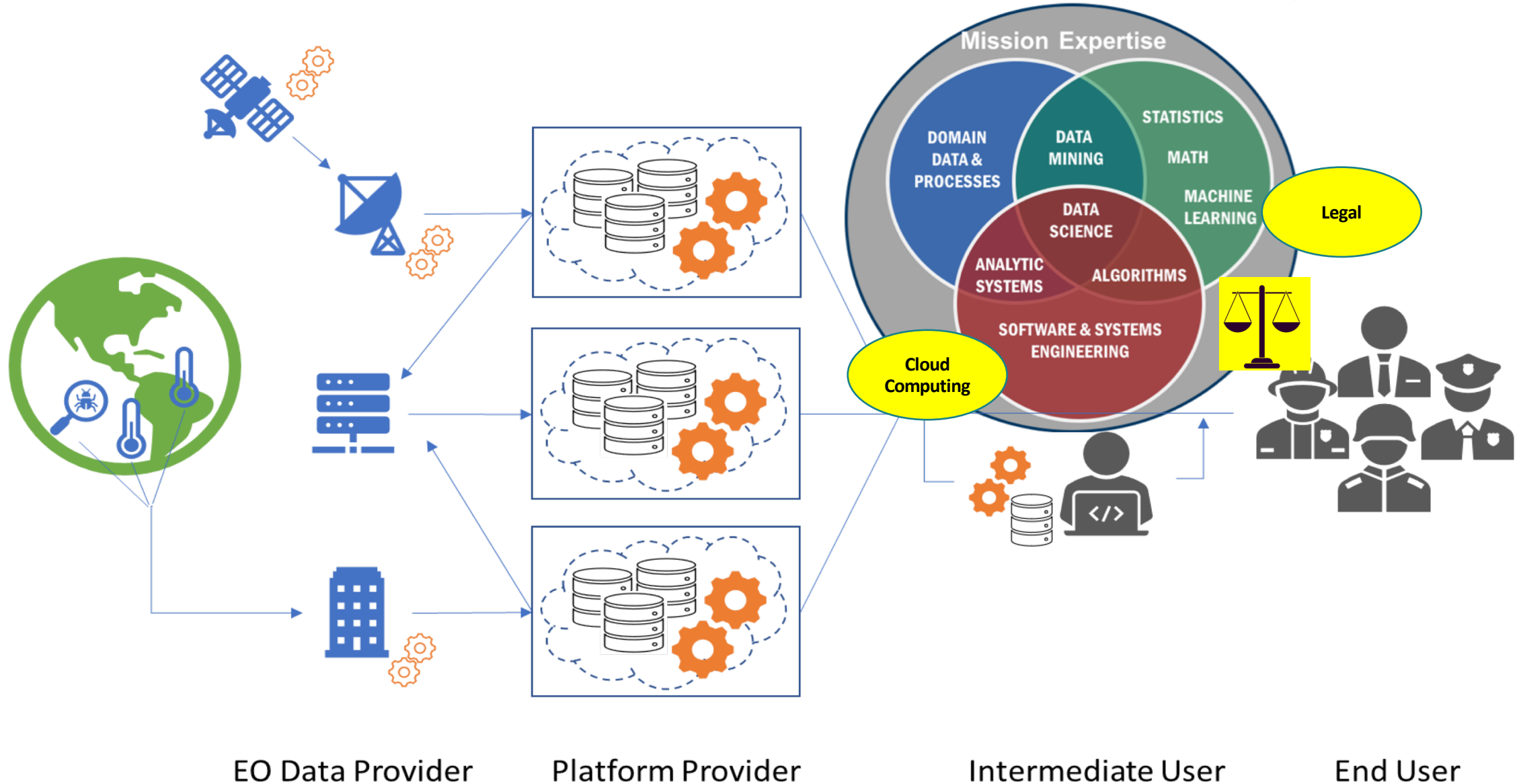


# Cloud knowledge is needed to take advantage from the platforms

*Platforms such as TEPs and DIASs are still young and evolving towards federations. Cloud experts support is needed*



# EO Pluridisciplinary teams: Data Science + Cloud skills + Legal Knowledge





To support the good connection between

- **Data providers,**
- **Technology providers,**
- **EO pluridisciplinary teams** including data science experts (domain data and processes, statistics, math, machine learning, data mining, analytic systems, algorithms, software and systems engineering), + Cloud computing + legal experts

**sponsors** have to keep on supporting the efforts from the EO community at a number of levels:

- enhancing Copernicus and other open data accessibility,
- developing clouds and platforms interoperability and operational maturity,
- increasing cloud skills among developers and scientists,
- sustaining funding mechanisms,

EO = Data + Sciences + Technology + Skills + *Facilitation*



How long should these efforts be supported?

long enough to allow the rendez-vous in the Cloud of all the critical stakeholders with good timing to reach the critical point of self-sustainability.

- Technology Providers: Increase the new platforms capacities towards FAIR technologies
- Capacity building: develop the technical skills including a good understanding of the pricing mechanisms and how to optimize the costs
- Ramping up to build TRUST to evolve the organization and budgeting to outsource part of the infrastructures







Make location  
information FAIR  
Findable,  
Accessible,  
Interoperable,  
and Reusable.

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# 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

