



Artificial Intelligence and Machine Learning

jointly organised by EGI-ACE, AI4PublicPolicy,
StairwAI, LETHE, iMagine

Marco Rorro and Ville Tenhunen (EGI Foundation)

September 22, 2022
EGI Conference 2022

- **Introduction**
- **Next generation of the EOSC Portal – ML/AI enhanced user interface**
Krzysztof Martyn (PSNC)
- **Distributed Deep Learning by Horovod – a new EOSC service**
Jozsef Kovacs (SZTAKI)
- **AI4EOSC**
Alvaro Lopez Garcia (CSIC)
- **iMagine – Imaging data and services for aquatic science**
Dick Schaap (Mariene Informatie Service MARIS BV), Alvaro Lopez Garcia (CSIC)
- **StairwAI, LETHE and AI4PublicPolicy**
Ville Tenhunen (EGI Foundation)
- **Closing discussion about future challenges**



EGI Federation

A European flagship digital infrastructure for data-intensive scientific computing



About EGI

EGI Federation

Federation of computing and storage resource

EGI Foundation

not-for-profit organization created to coordinate and develop the EGI infrastructure

Vision

All researchers have seamless access to services, resources and expertise to collaborate and conduct world-class research and innovation

Mission of the EGI Federation

Deliver open solutions for advanced computing and data analytics in research and innovation

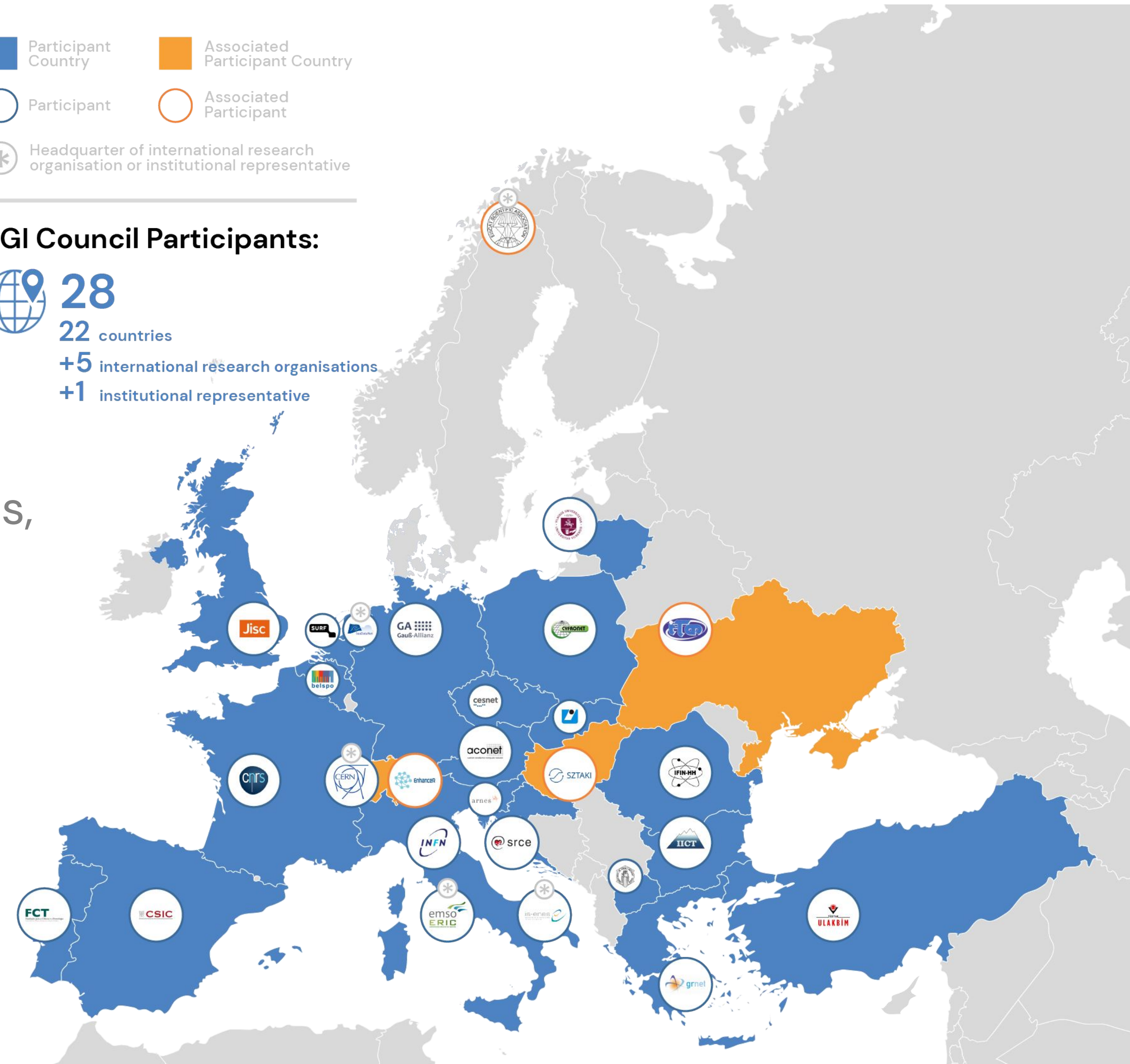
Mission of the EGI Foundation

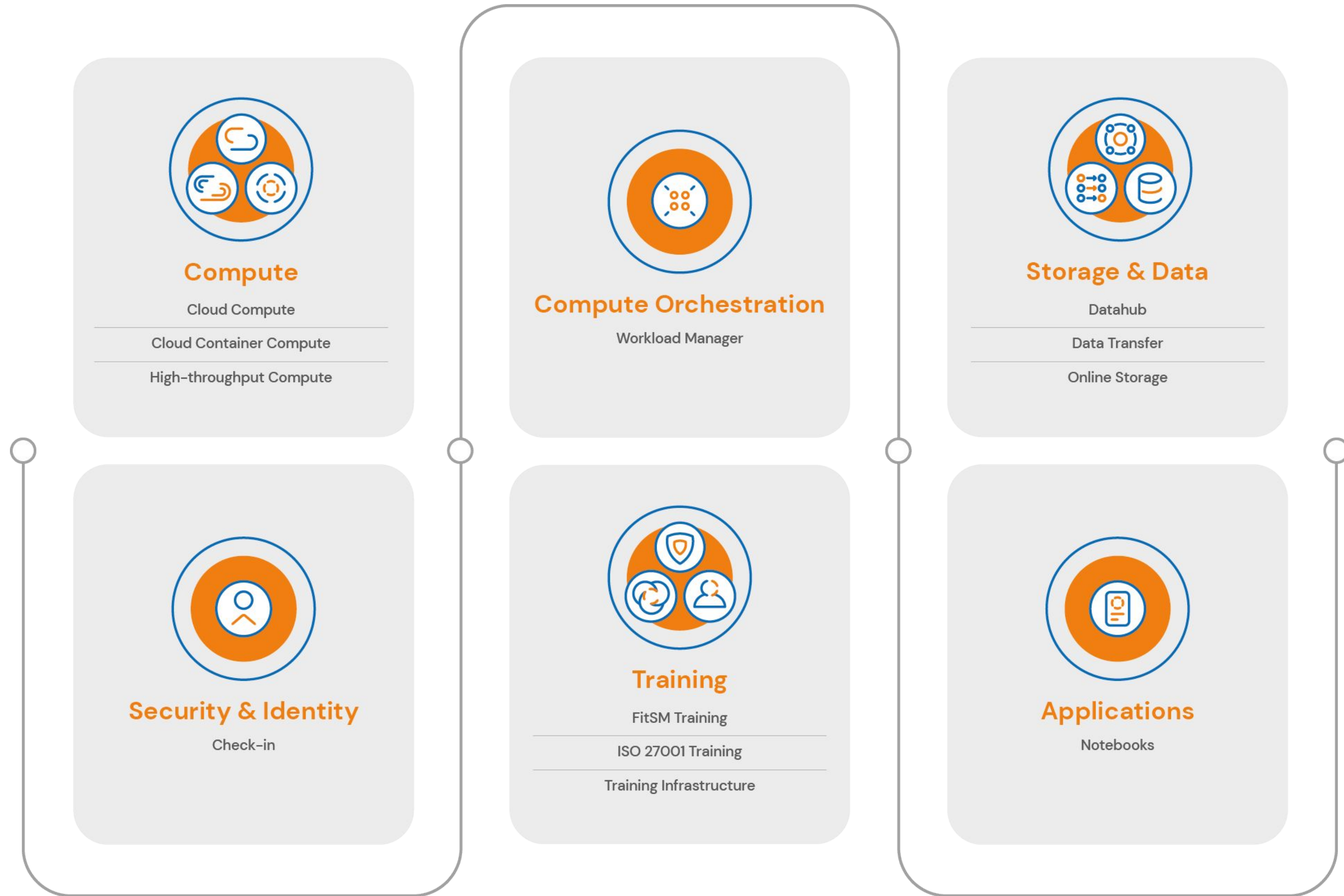
Enable the EGI Federation to serve international research and innovation together

- Participant Country
- Associated Participant Country
- Participant
- Associated Participant
- Headquarter of international research organisation or institutional representative

EGI Council Participants:

28
 22 countries
 +5 international research organisations
 +1 institutional representative





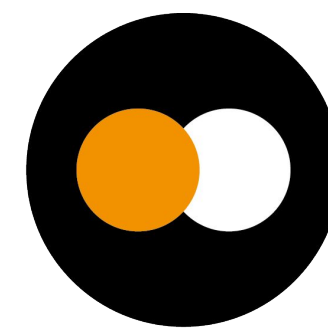
Read about our services for research: <https://www.egi.eu/services/research/>



EGI Projects related to Artificial Intelligence and
Machine Learning

Evolve and enhance the service offering on AI

EGI AI/ML Related Running Projects



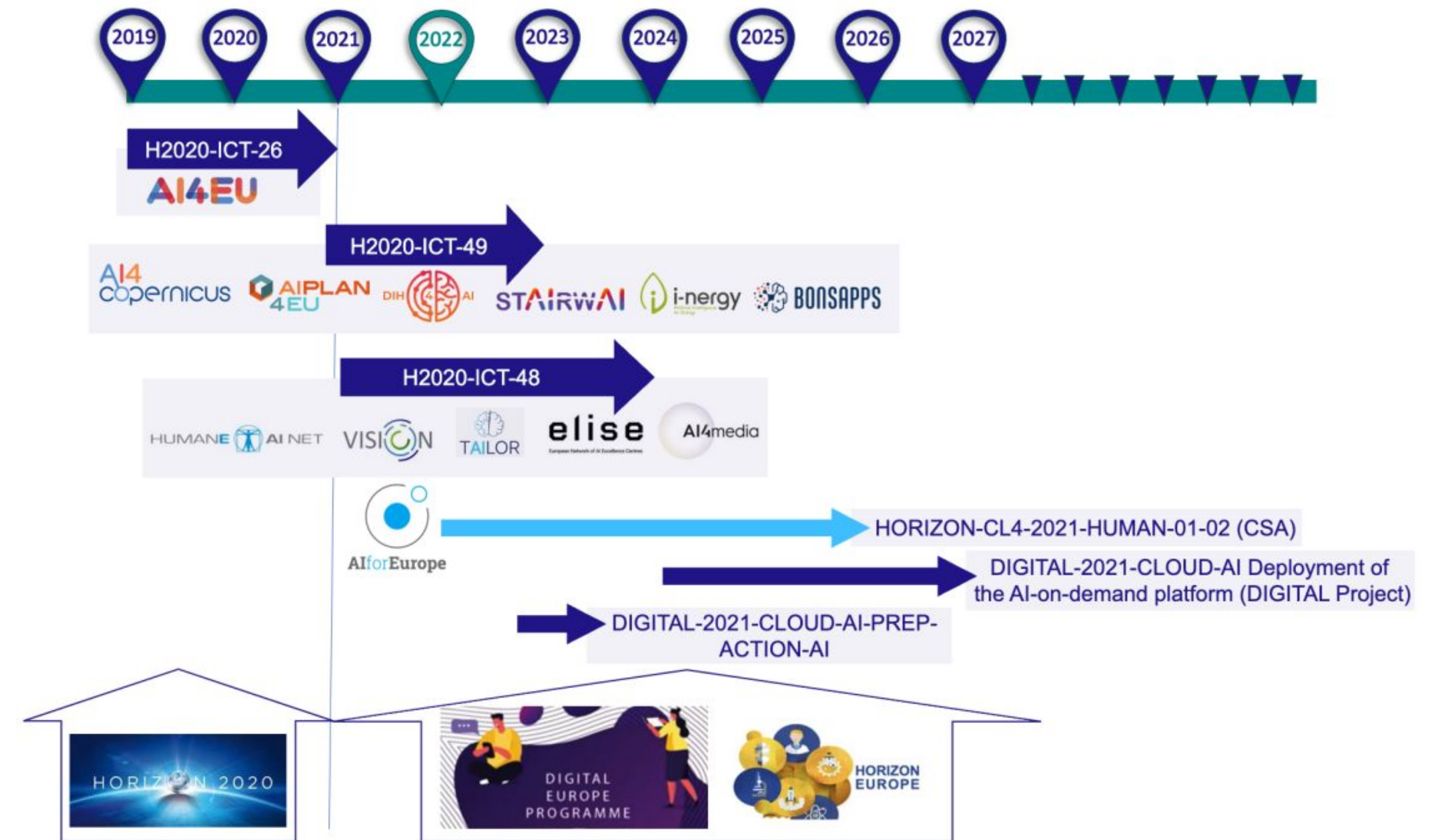
AI4Europe building block of the AIOD

AI-on-Demand platform

- Construct a EU shared repository of AI knowledge – tools/assets
- Avoid fragmentation in Europe
- Create a supportive platform on AI for European stakeholders

AI4EUROPE

- Horizon Europe project to follow up the AI4EU project
- Focused on ensuring the successful development of the AIOD platform
- Foster the European AI research ecosystem, both academic and industrial
- Seamlessly integrates other projects, platforms, and solutions



- 42 new HE projects starting to further supporting the enhancement and development of the AIOD and developing new services and depositing results on the platform.



ESG Working Group on Artificial Intelligence and
Machine Learning

**Share knowledge, best practices
and solutions**

- **Main objectives**

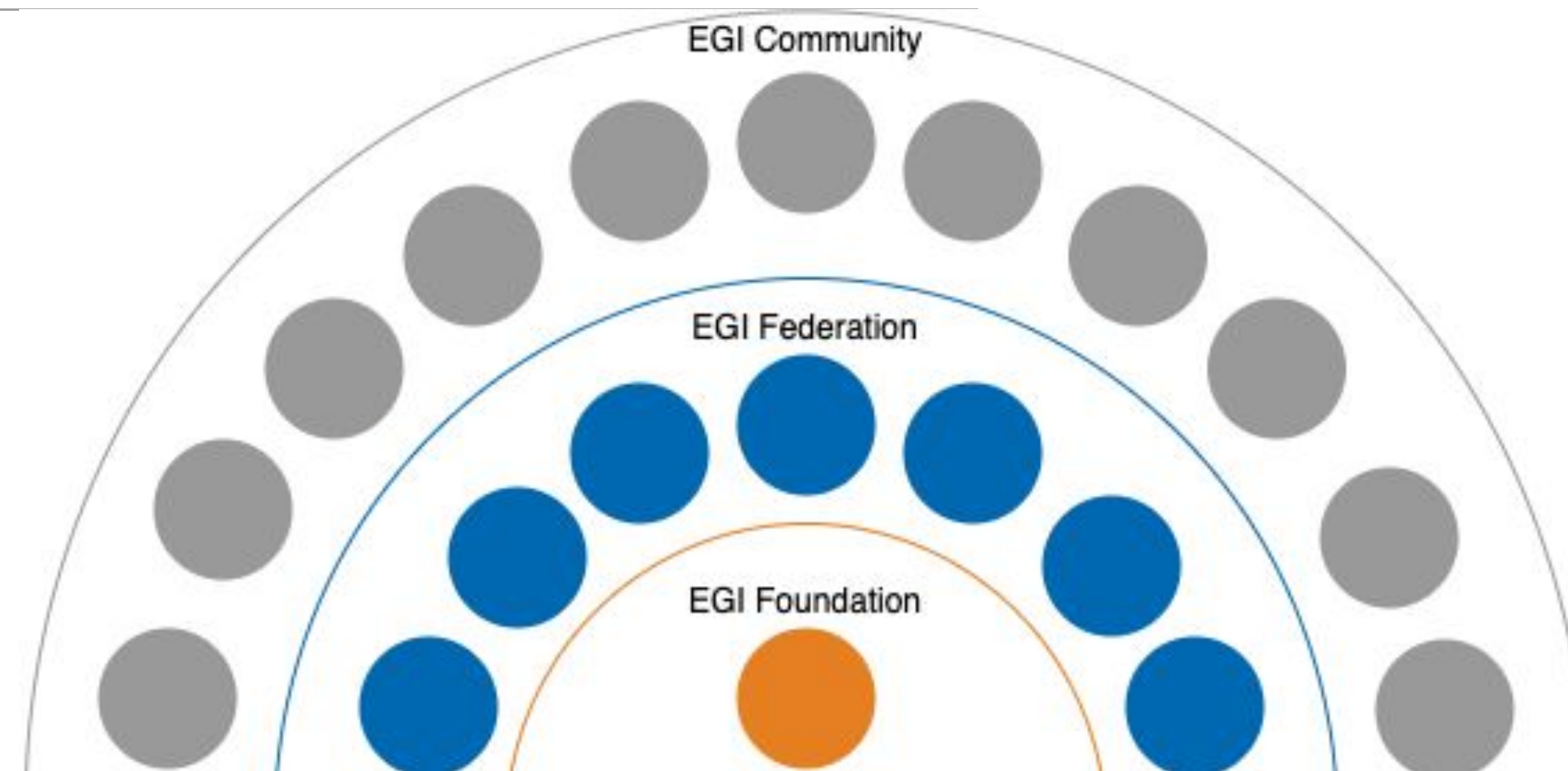
- Drive the technical evolution of the EGI Federation in AI and ML
- Evolve the service offering to meet the needs of researchers

- **Main Activities**

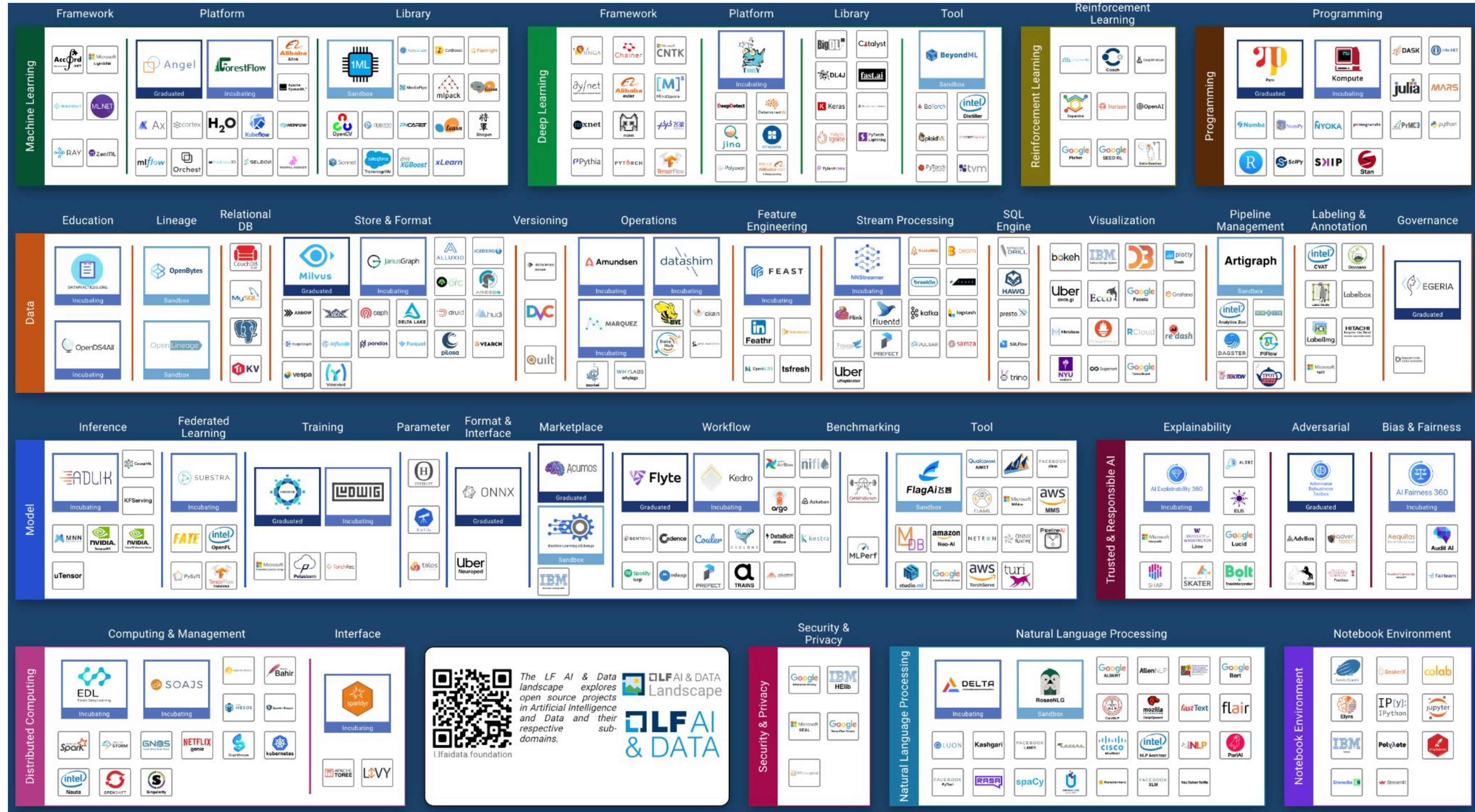
- Gather requirements and recurrent use cases from user communities
- Identify technical solutions
- Help the setup and execution of new EGI projects in the AI/ML area

- **WG composition**

- User communities
- Technology providers
- Service providers
- EGI Foundation staff



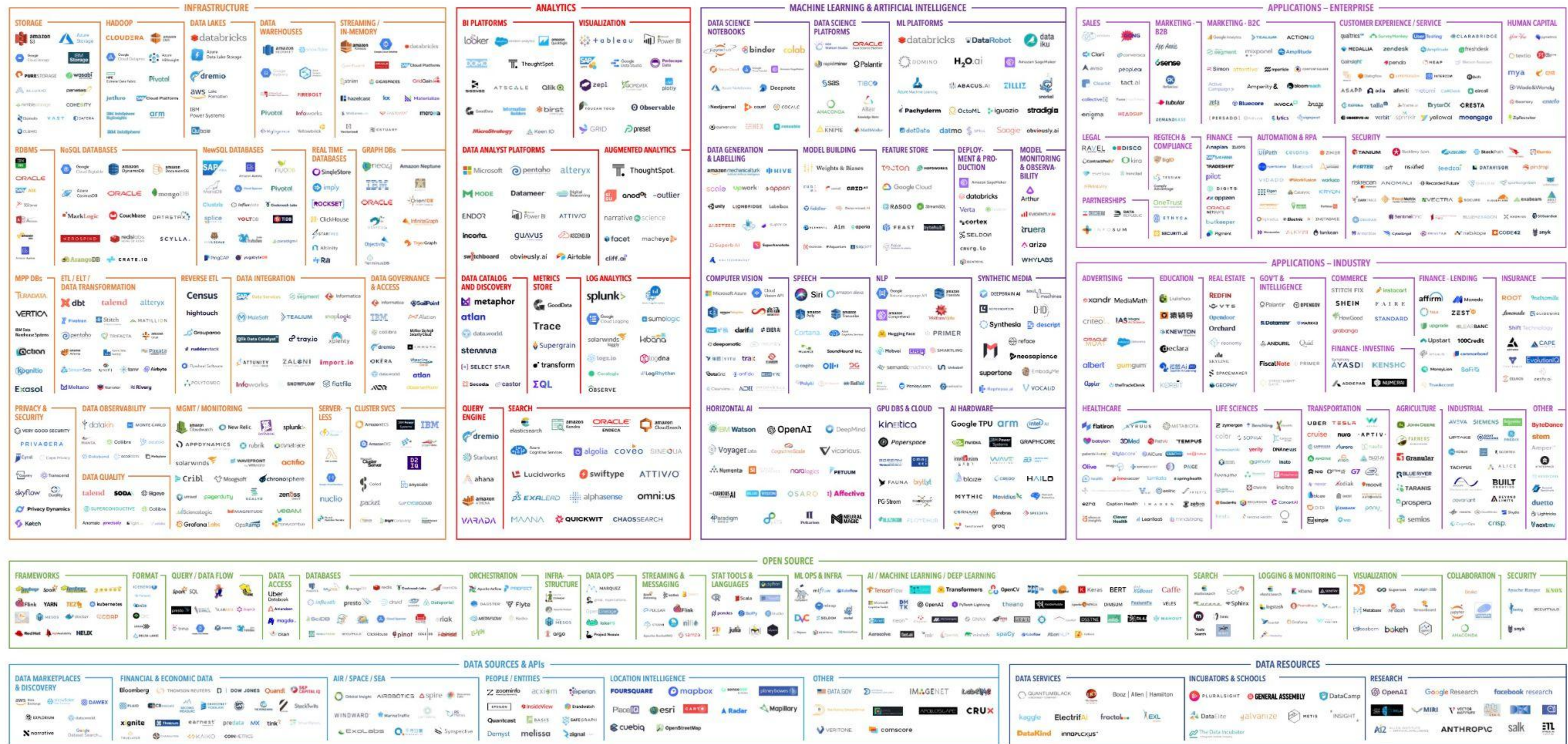
LF AI & Data Foundation Landscape



ML, AI, AND DATA (MAD) LANDSCAPE 2021

mattturck.com/data2021

MACHINE LEARNING, ARTIFICIAL INTELLIGENCE, AND DATA (MAD) LANDSCAPE 2021





Thank you

Marco Rorro
Ville Tenhunen

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