



# EGI AI/ML WG

## EGI Artificial Intelligence and Machine Learning Working Group

**Marco Rorro (EGI Foundation)**

AI Solutions Architect

TLP: WHITE Public

September 1, 2022

AI/ML WG Meeting #2

- **Introduction**
- **Use case presentations**
  - Deep learning models for powerline removal when quantifying ecosystem structure from massive (multi-terabyte) LiDAR point clouds (Yifang Shi & Daniel Kissling)
  - Using machine learning to AI based schedule massive docker containers, to detect performance anomalies, and do federated learning across sites (Zhiming Zhao)
- **Open discussion and AOB**



EGI Working Group on Artificial Intelligence and  
Machine Learning

**Share knowledge, best practices  
and solutions**

- **Main objectives**

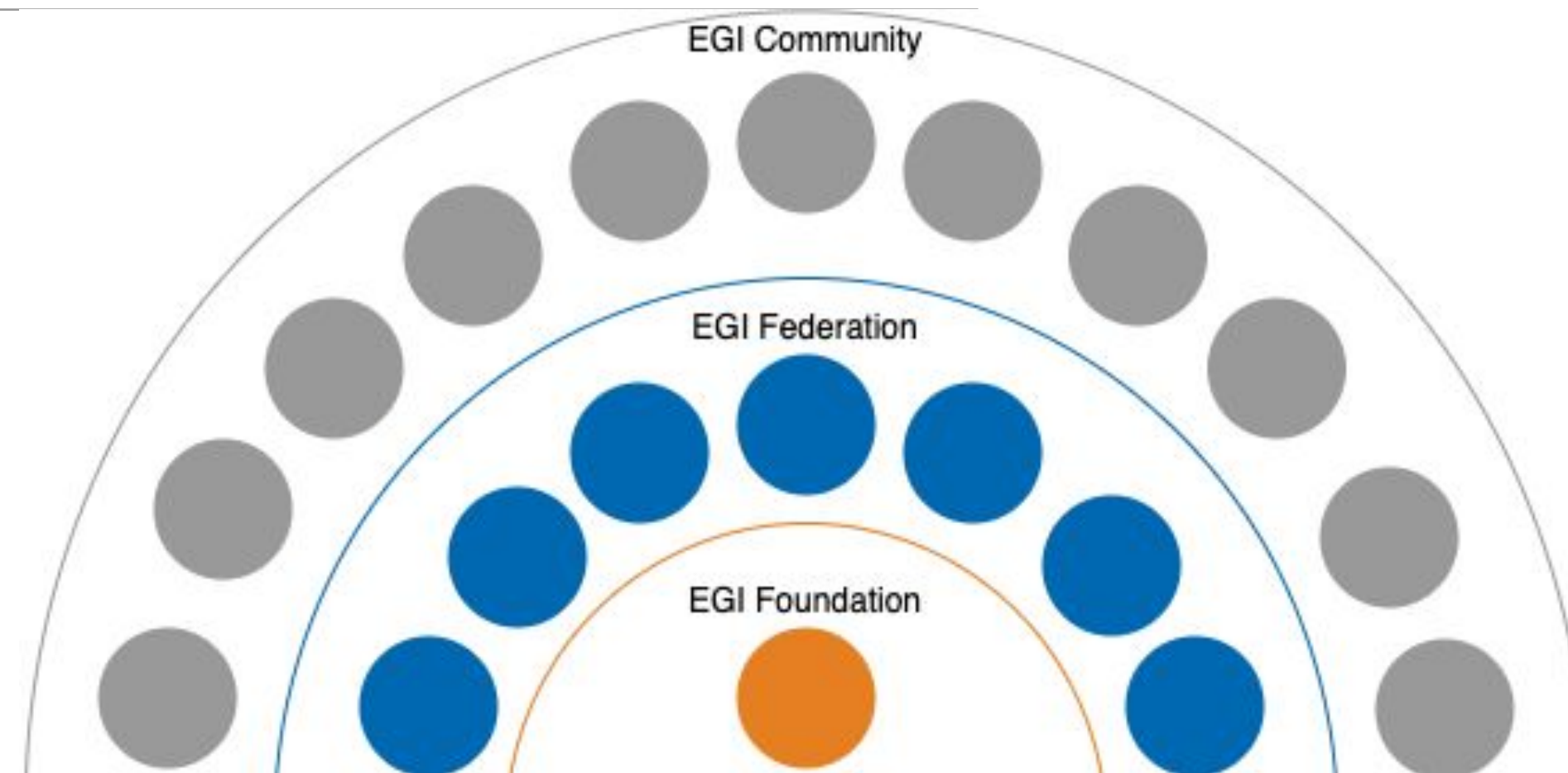
- Drive the technical evolution of the EGI Federation in AI and ML
  - Evolve the service offering to meet the needs of researchers
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- **Main Activities**

- 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
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- **WG composition**

- User communities
- Technical providers
- EGI Federation
- EGI Foundation



## Communities

- Philipp Heuser (DESY HIP)
- Rohaifa Khalid (LifeWatch)
- Daniel Kissling (UvA)
- Valentin Kozlov (KIT)
- Jan Willem Noteboom (KNMI DataLab)
- Andrea Pagani (KNMI DataLab)
- Ivan Rodero (EMSO)
- Zhiming Zhao (UvA)

## Technical Providers

- Álvaro López García (IFCA) - Deep PaaS - WG co-chair
- Gabriel González Castañé (UCC) - AI4EUROPE - External advisor
- Martin Weiß (Fraunhofer IAIS) - AI4EUROPE - External advisor
- Danilo Ardagna (Polimi) - AI-SPRINT - External advisor

## Infrastructure providers

- Viet Tran (IISAS)
- Marica Antonacci (INFN)
- Carlos Fernández (CESGA)

## EGI Foundation

- Marco Rorro (WG Chair)
- Diego Scardaci (TCB Chair)
- Ville Tenhunen (Service owner)
- Elisa Cauhé (Service owner)
- Andrea Manzi (Service owner)
- Giuseppe La Rocca (Community support chair)
- All the Technical Solution Team

- **Confluence page:** <https://confluence.egi.eu/display/EGIBG/Working+Group%3A+AI+and+ML>
- **Operational Meetings:** <https://indico.egi.eu/category/383/>
- **Mailing list:** tcb-aiml-wg@mailman.egi.eu
  - Please subscribe if you haven't already done it. Thank you.



# Thank you

Marco Rorro

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