Geophysical Research Abstracts
Vol. 18, EGU2016-16610-3, 2016
EGU General Assembly 2016

INDIGO: Building a DataCloud Framework to support Open Science

Yin Chen (1), Jesus Marco de Lucas (2), Fenando Aguilar (2), Sandro Fiore (3), Massimiliano Rossi (4), Tiziana Ferrari (1), and the INDIGO Collabration Team

(1) EGI.eu (yin.chen@egi.eu), (2) Universidad de Cantabria, (3) University of Salento, (4) INGV

New solutions are required to support Data Intensive Science in the emerging panorama of e-infrastructures, including Grid, Cloud and HPC services. The architecture proposed by the INDIGO-DataCloud (INtegrating Distributed data Infrastructures for Global ExplOitation) (https://www.indigo-datacloud.eu/) H2020 project, provides the path to integrate IaaS resources and PaaS platforms to provide SaaS solutions, while satisfying the requirements posed by different Research Communities, including several in Earth Science.

This contribution introduces the INDIGO DataCloud architecture, describes the methodology followed to assure the integration of the requirements from different research communities, including examples like ENES, LifeWatch or EMSO, and how they will build their solutions using different INDIGO components.