INDIGO Datacloud

- An H2020 project approved in January 2015 in the EINFRA-1-2014 call

  ▸ 11 M€

  ▸ 30 Months (Apr. 2015 -> Sept. 2017)

- **Who:** 26 partners from 11 European countries

- **What:** develop an **open source** platform for computing and data targeted at **multi-disciplinary scientific communities**

- **Where:** provisioned over hybrid (public and private) e-infrastructures

INDIGO objectives

- Provide **seamless access** to data and computing provisioned over private, public or hybrid e-infrastuctures

- Leverage and extend current Cloud technologies, **fill the gaps,** provide tools and services to support scientists, software developers, resource providers and e-infrastructures for the **efficient exploitation of computing, data and network technologies**:

Better software for better science

INDIGO AAI: main challenges

- **Authentication**

  - Support for federated AuthN & social logins

- **Identity Harmonisation**

  - Link accounts to a single INDIGO identity, providing a persistent identifier orthogonal to AuthN mechanism

- **Authorization**

  - Orthogonal to AuthN, Dynamic

  - Consistent across heterogeneous infrastructures

- **Delegation**

  - Provide the ability for services to act on behalf of a user

  - Support offline access

- **Provisioning**

  - provision/de-provision identities to services/relying resources

- **Token translation**

  - enable integration with services relying on heterogeneous AuthN mechanisms

INDIGO AAI: a standards based approach