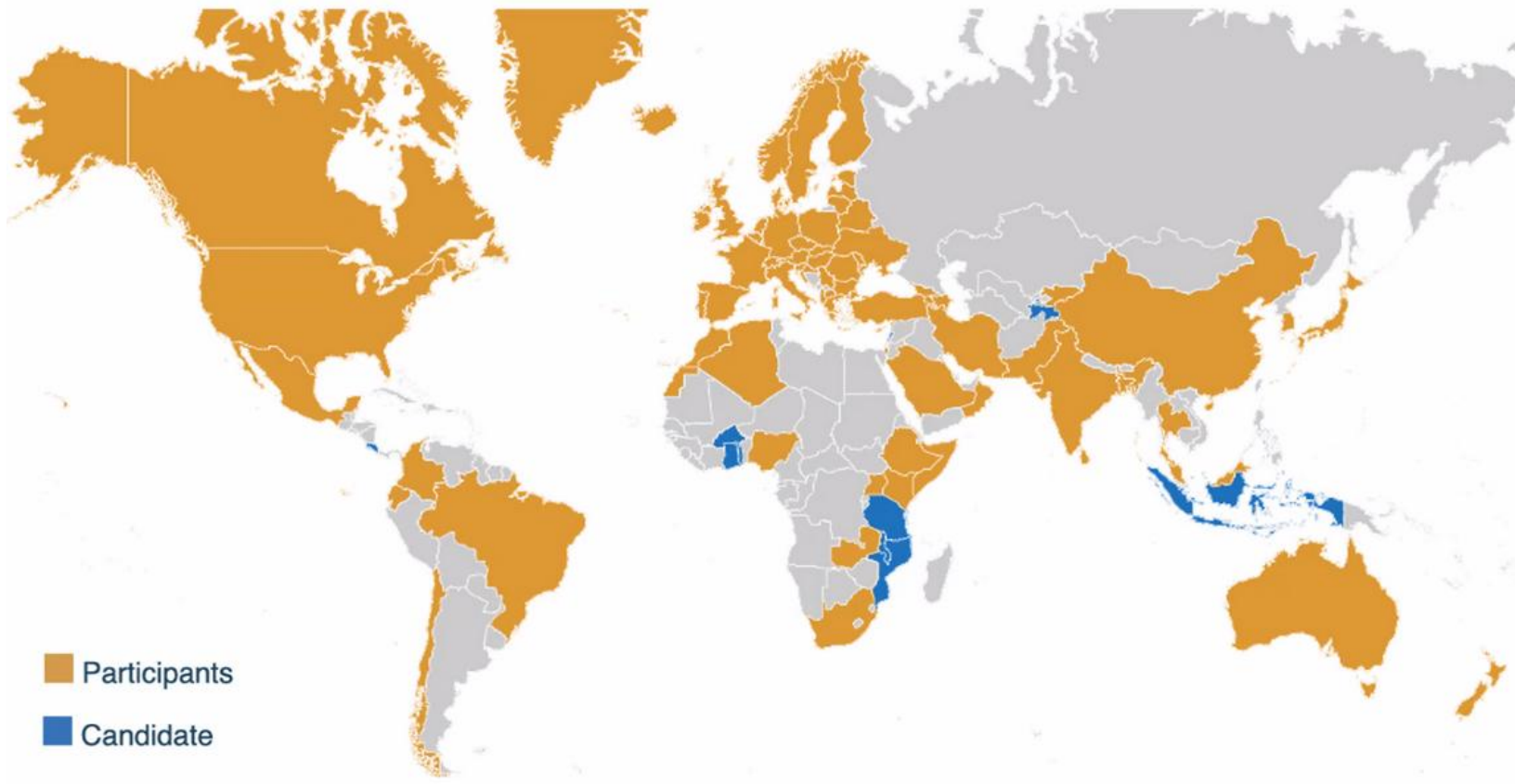# Introduction to eduGAIN

eduGAIN Training Team

GÉANT GN5-2

eduGAIN training for ngREN
April 2025

GN5-1

eduGAIN

- Enabling access for the global research and education community

Participants
Candidate

April 2025:
* 78 Active Federations
* 10 Candidate Federations
* 9700+ entities

# The beginning of eduGAIN

What is eduGAIN?

- *eduGAIN provides an efficient, flexible way for participating federations, and their affiliated users and services, to **interconnect***

- *The eduGAIN Interfederation service is intended to **enable the trustworthy exchange of information related to identity, authentication and authorisation** between the member federations*

- *eduGAIN **allows students and researchers to securely access a world of educational resources** using a single sign-on*

eduGAIN
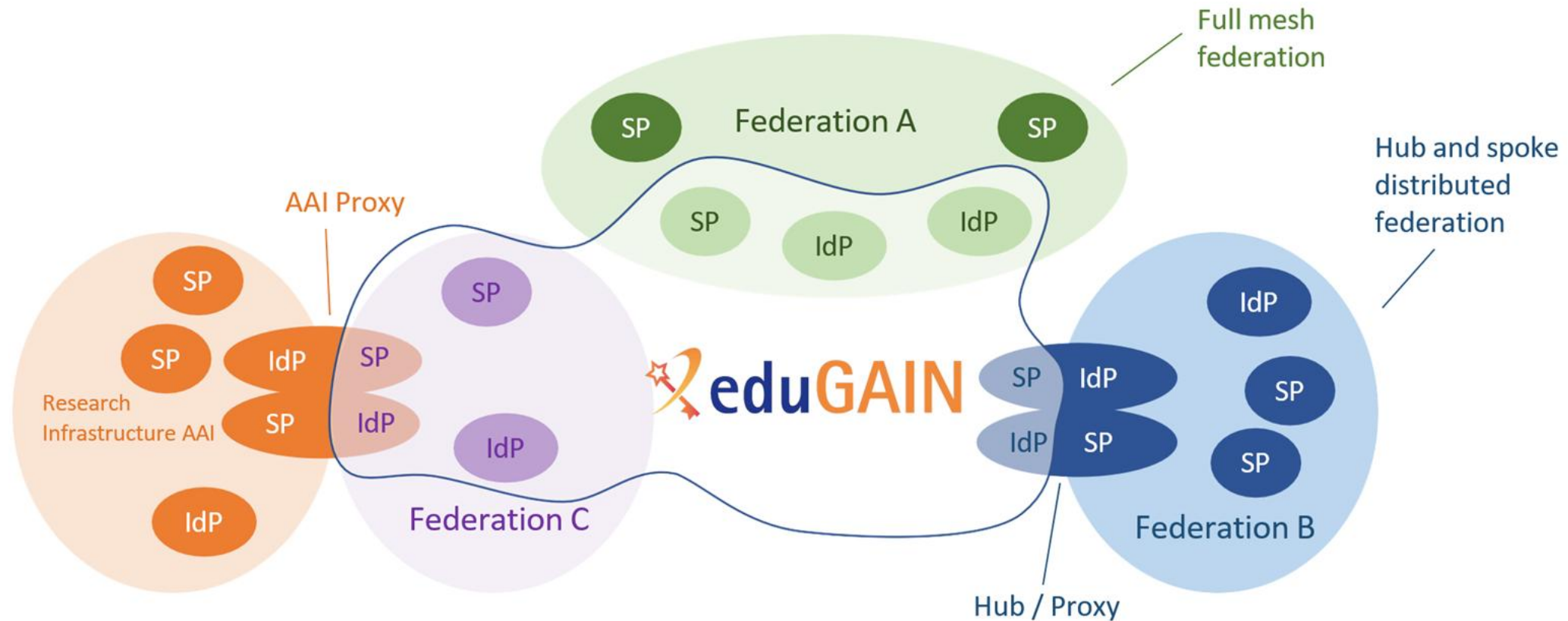
The eduGAIN is an **inter-federation** service that connects identity federations around the world, simplifying access to content, services and resources for the global research and education community.
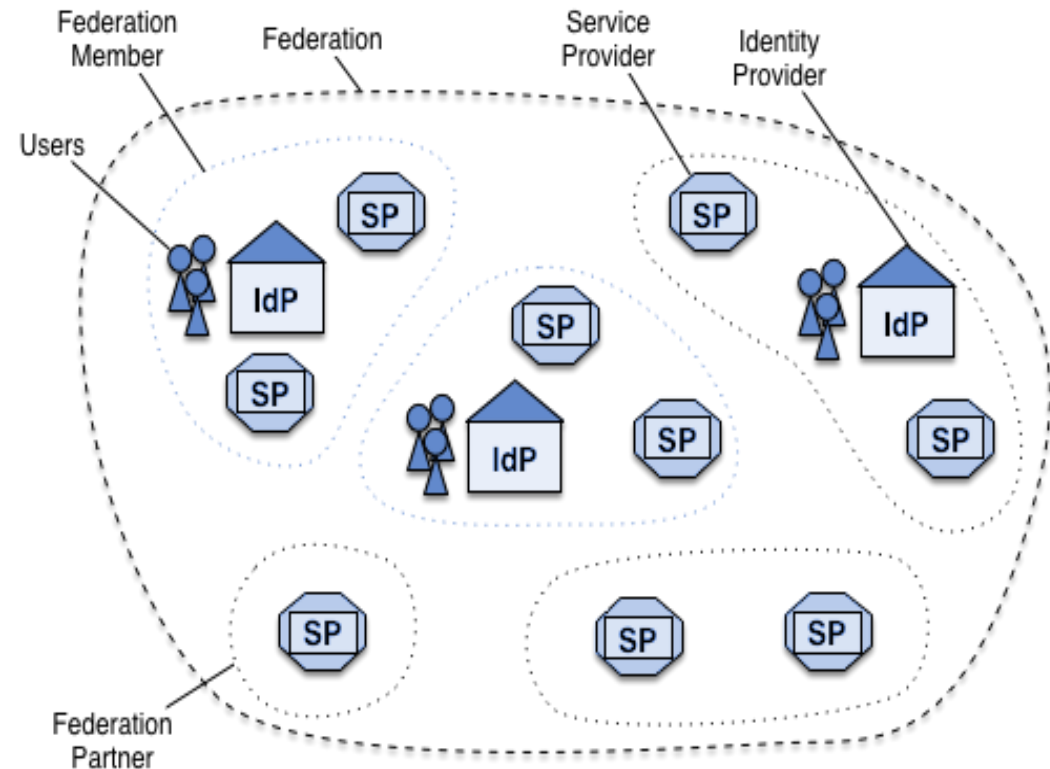
Who benefits from eduGAIN?

Identity Federations

Identity Providers

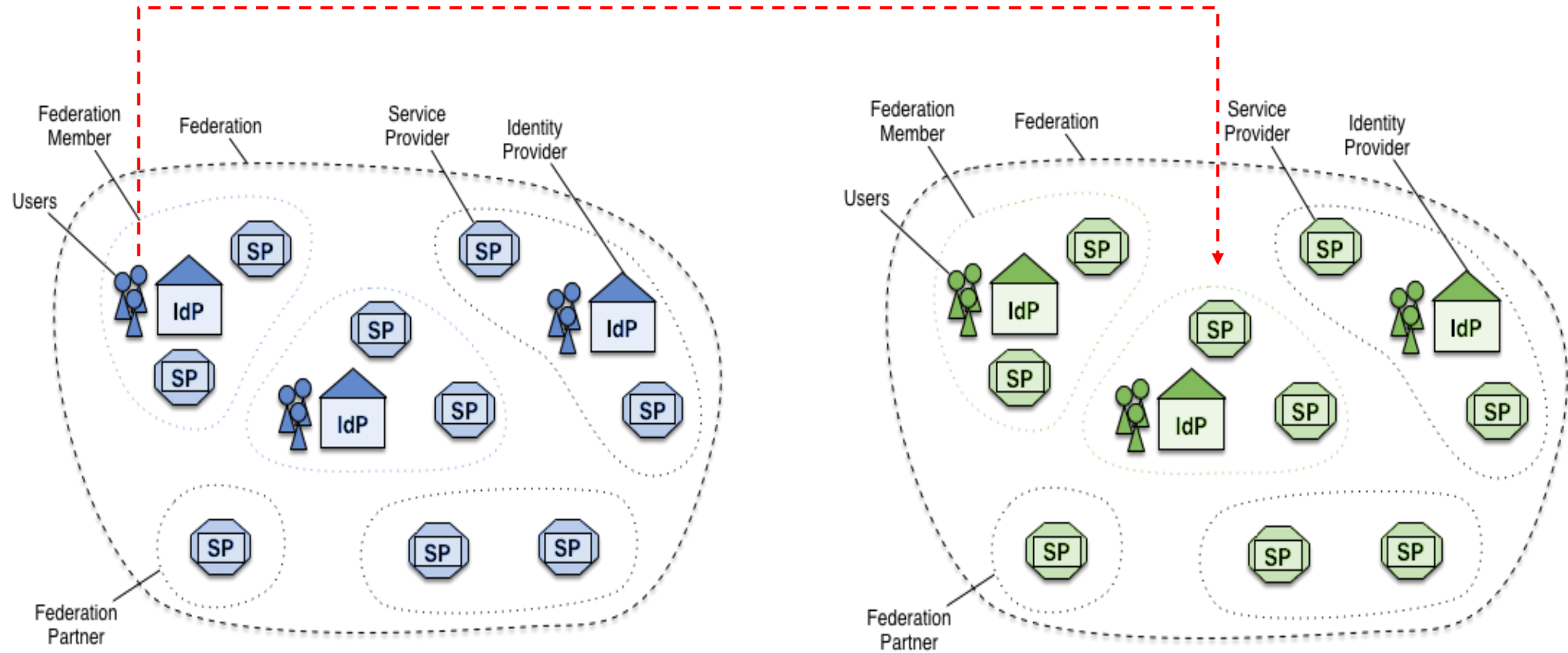Identity Holders (users)

Service Providers
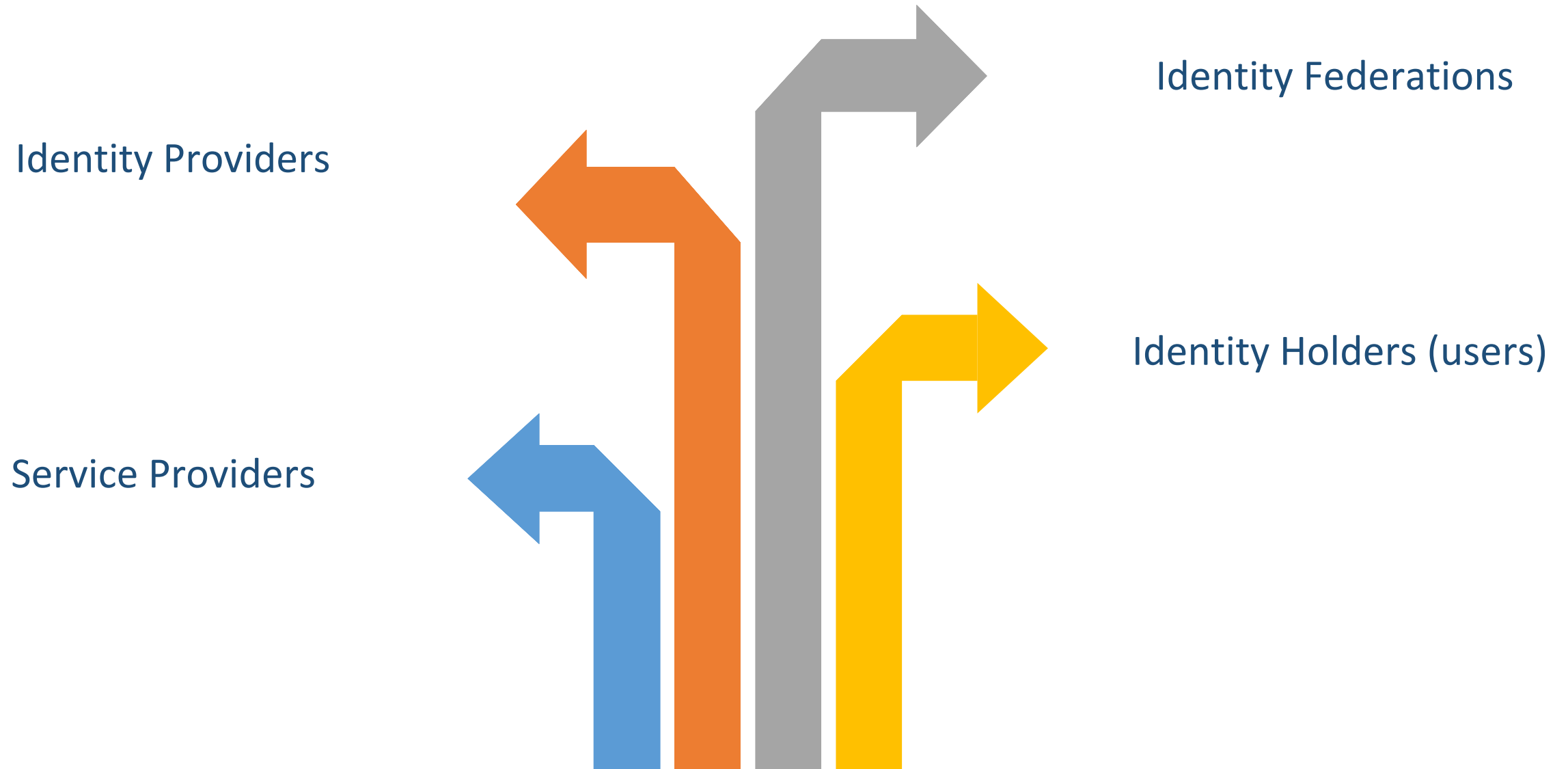
What is an Identity Federation?

An Identity Federation is a collection of organizations that agree to interoperate under a certain rule set.

Metadata is the technical information required for integration between members of the federation.
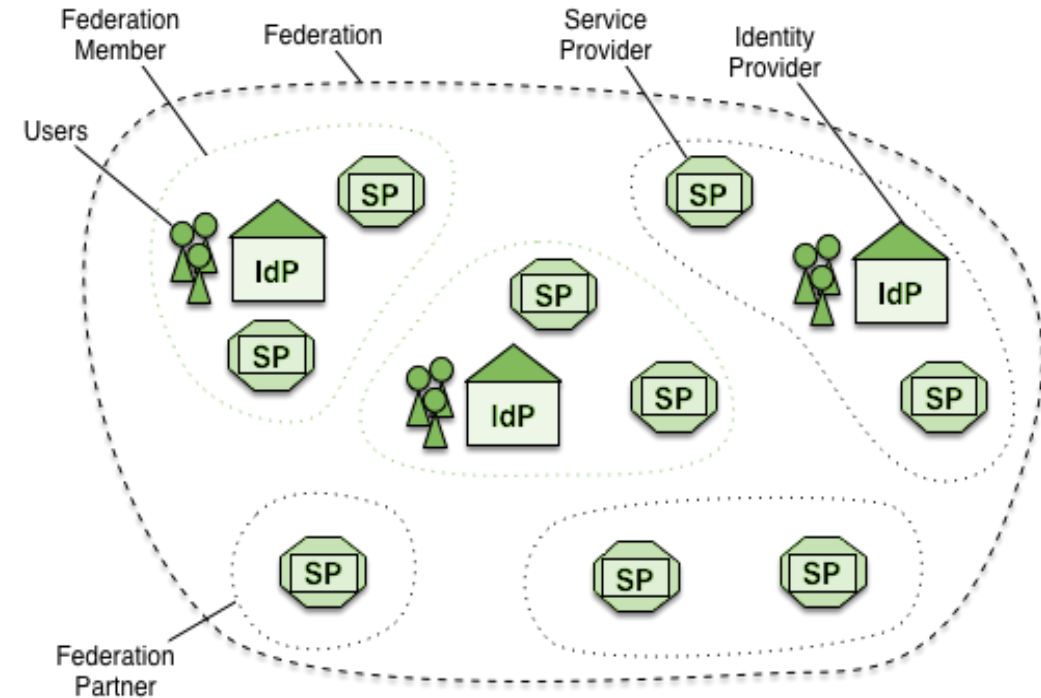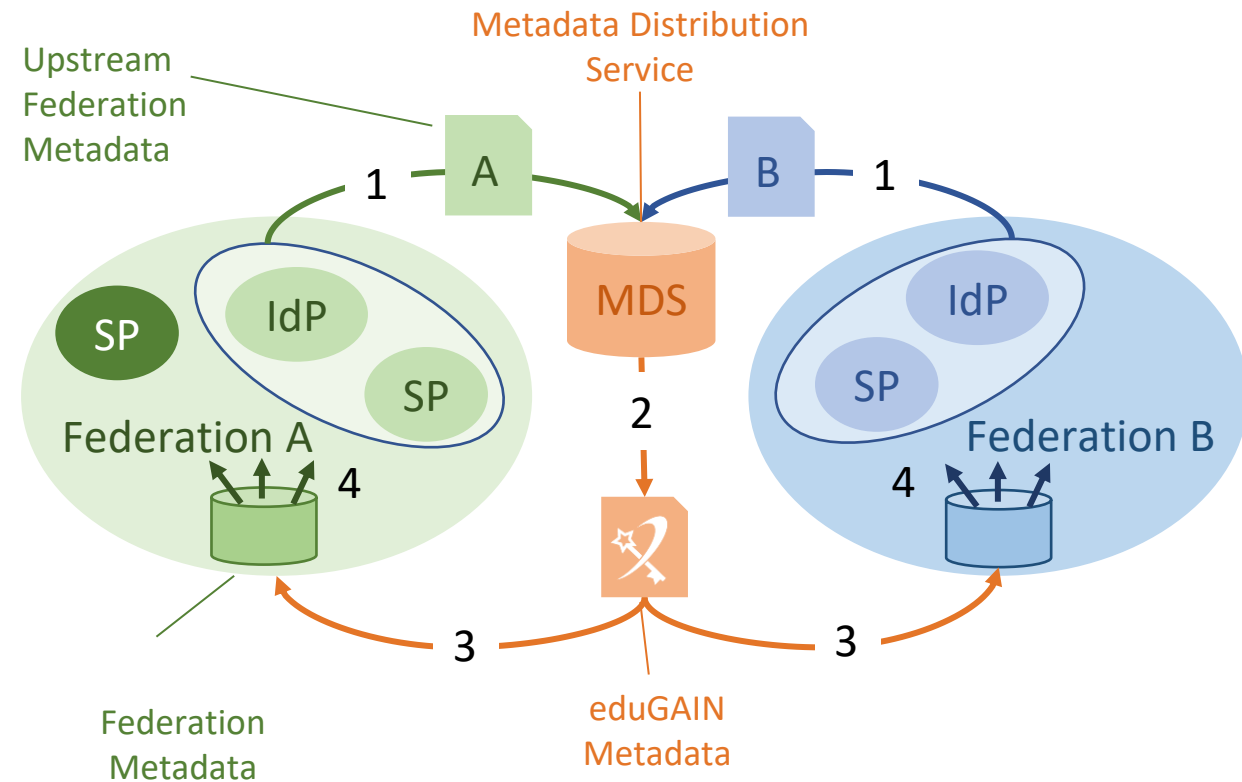
Inter-federation access

Entities, metadata and Identity Federation

- Entities register metadata
- The Federation provides the metadata feed
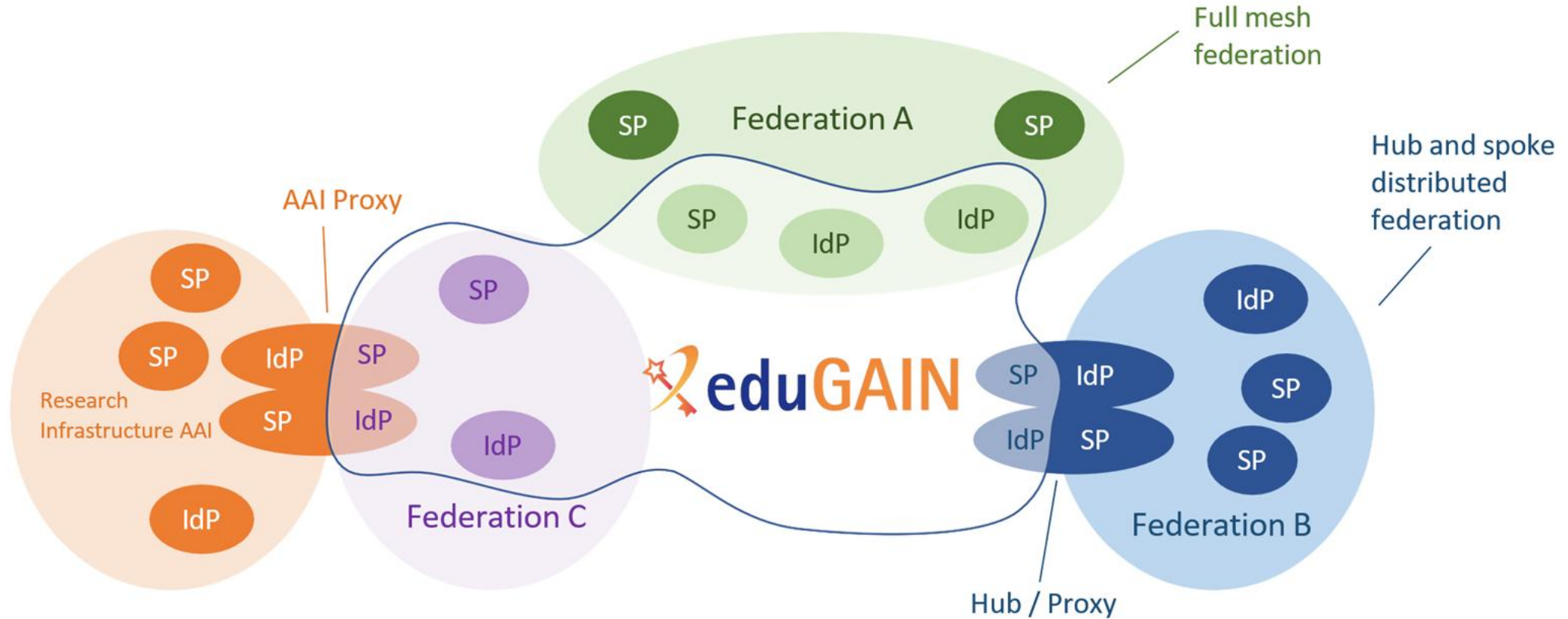- Signing & Distribution of the metadata feed

eduGAIN Metadata Distribution Service

1. Federations' metadata upstream feed

2. eduGAIN metadata creation

3. eduGAIN metadata signing and distribution

4. Federations redistribute the eduGAIN metadata

A complex ecosystem

Thank You