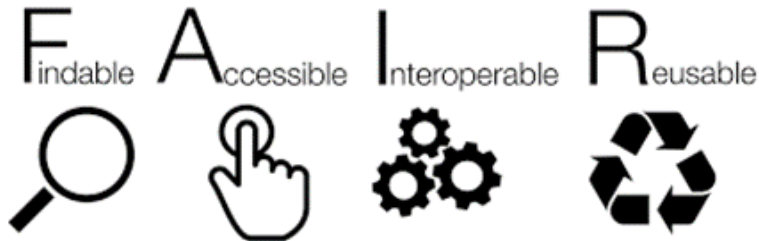# PubFAIR Conceptual Model

Eloy Rodrigues

PubFAIR Concept

The PubFAIR concept is the result of extended discussion between several people, especially:

Tony Ross-Hellauer, Benedikt Fecher, Kathleen Shearer, Andrea Bollini, John Willinsky, José Benito González López, Natalia Manola, Paolo Manghi and Eloy Rodrigues

What is PubFAIR?

- An **open publishing services framework**, which aims **to enrich repositories with a layer of services for the quality assurance, dissemination and discovery of a range of research outputs** (including preprints, data and software).

- PubFAIR enables FAIR research objects in two senses:

PubFAIR and Next Generation Repositories

- The PubFAIR concept builds upon and aims to implement major elements of COAR's vision for Next Generation Repositories, enabling greater interoperability of scholarly communication and data infrastructures, leading to enhanced sharing and re-use of FAIR data and other research results

- Next Generation Repositories Recommendations -

https://www.coar-repositories.org/activities/advocacy-leadership/working-group-next-generation-repositories/

NEXT GENERATION
REPOSITORIES

PubFAIR - Why?

Current Scholarly Communication System
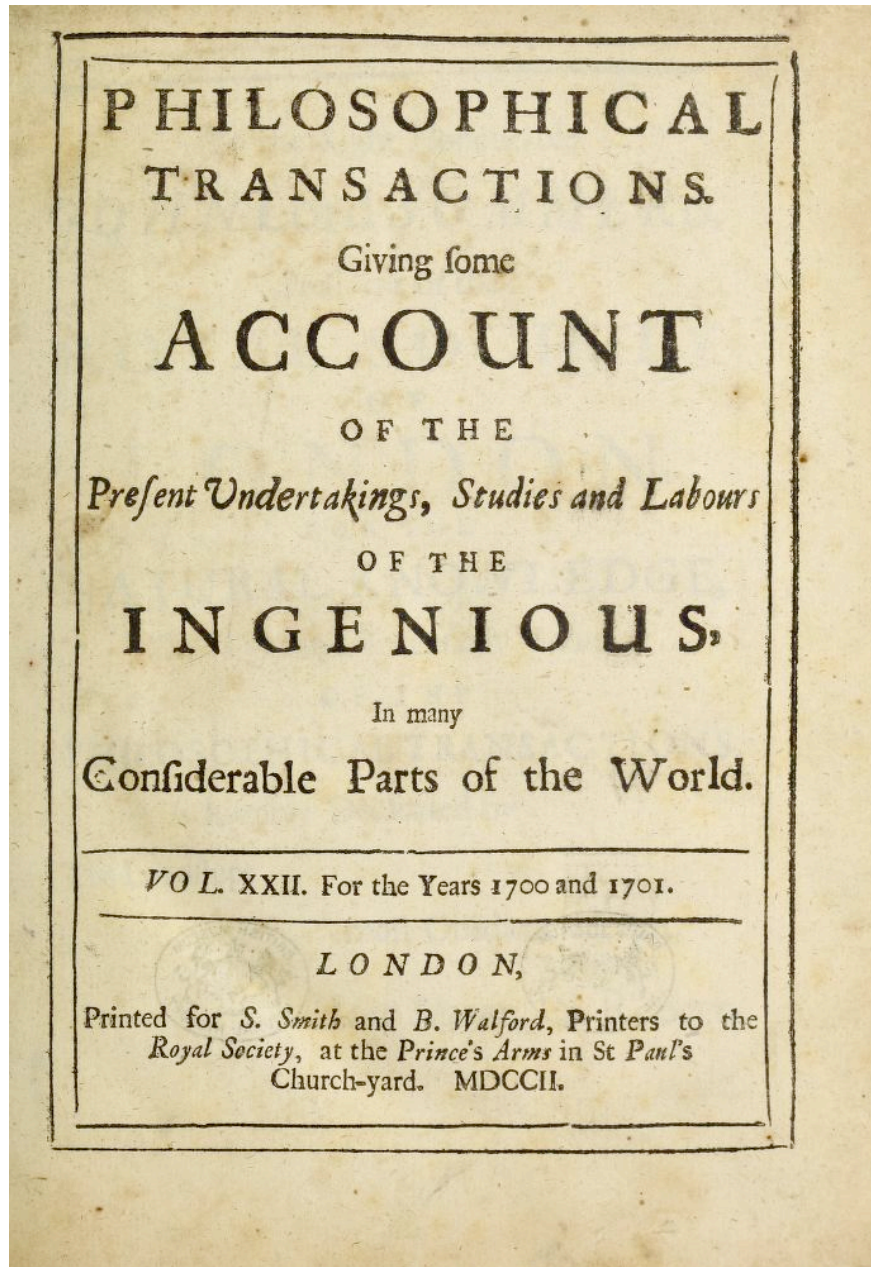
Not
Sustainable

Equitative/Inclusive

Innovative

350 years of the academic journal!

PHILOSOPHICAL
TRANSACTIONS.

Giving some

ACCOUNT

OF THE

Present Undertakings, Studies and Labours

OF THE

INGENIOUS,

In many

Considerable Parts of the World.

VOL. XXII. For the Years 1700 and 1701.

LONDON,

Printed for S. Smith and B. Walford, Printers to the
Royal Society, at the Prince's Arms in St Paul's
Church-yard. MDCCII.

ISSN 1364-503X I Volume 376 I Issue 2120 I 28 May 2018

PHILOSOPHICAL TRANSACTIONS
OF THE ROYAL SOCIETY A

MATHEMATICAL, PHYSICAL AND ENGINEERING SCIENCES

The promises of gravitational-wave astronomy
Discussion meeting issue organised and edited by Iain Martin, Nils Andersson, Carole Mundell
and James Hough

THE
ROYAL
SOCIETY
PUBLISHING

PubFAIR Context

- The idea to overlay publishing functionalities upon repositories or preprint servers is not new…

- Already in 1994, arXiv's creator Alan Ginsparg saw the potential for such preprint servers to disrupt scholarly communications, imagining

  "a relatively complete raw archive unfettered by any unnecessary delays in availability", on top of which "[a]ny type of information could be overlayed … and maintained by any third parties", including tools for validation, filtering and communication (Ginsparg, 1994)
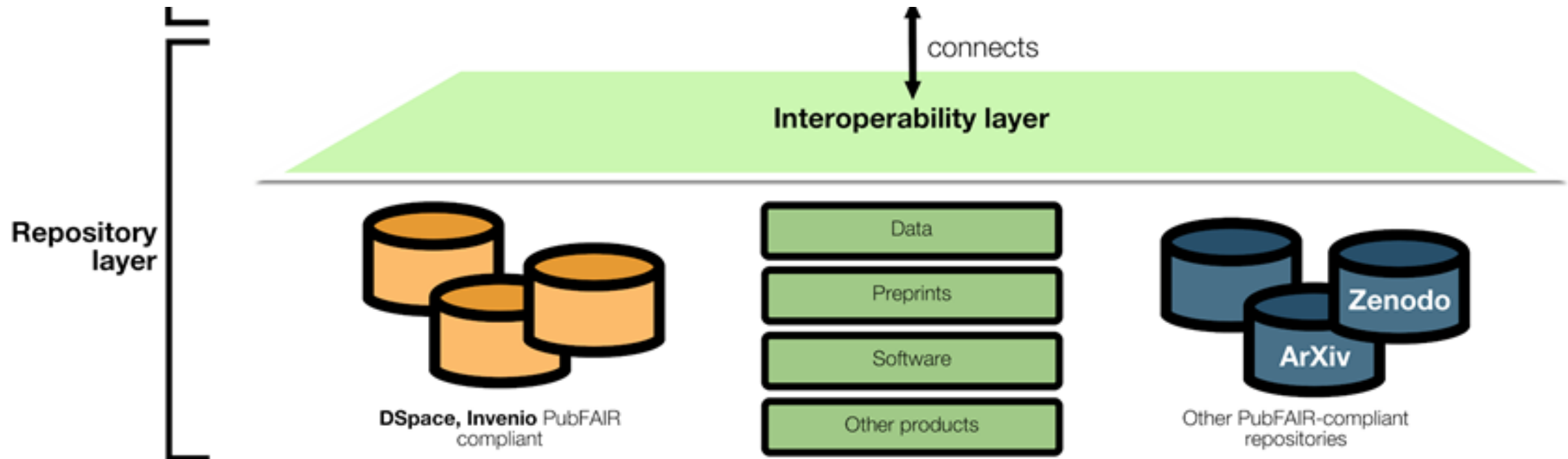
An idea which time has come?

- Next-generation repositories
- Rise of preprints
- FAIR data and outputs beyond publications
- Funder policy pushes
- Dissatisfaction with costs, commercial players and the pace of change
- Commons approaches
- Consortial models for OA publishing with no author-facing fees
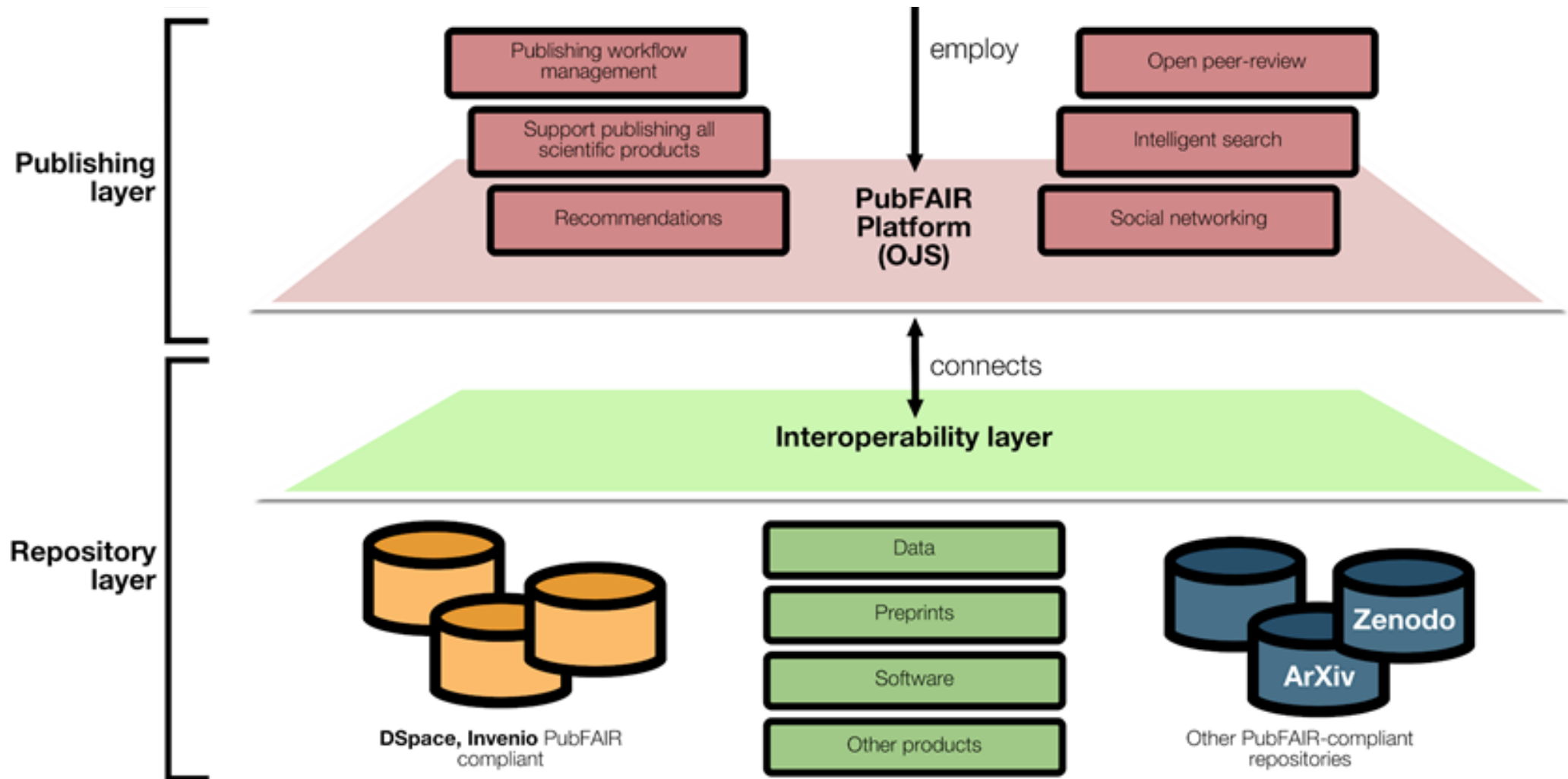
Stakeholders and (preliminary) Use Cases

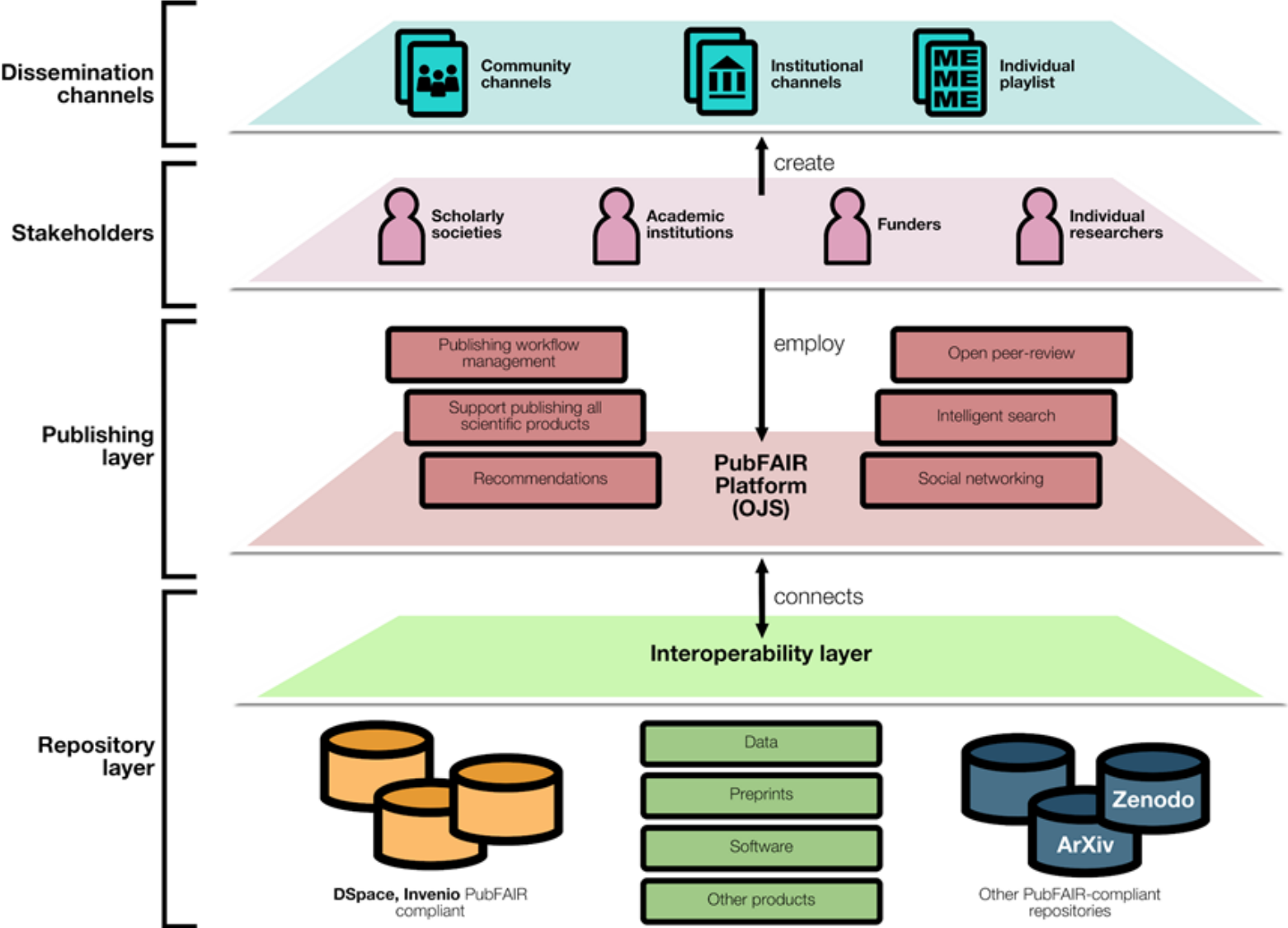|	As a ...	I want to ...	In order to ...
	Repository manager	… have the research outputs hosted in my repository reviewed and have information about this visible within the repository	… increase trust in the reliability of our repository content and create added value
	Scholarly society	… have a review and publishing system that is responsive to my community needs	… create independent brand journals and data collections and facilitate a researcher-centered transition to Open Access
	Editorial manager	… have an easy-to-use review and publishing system	… streamline the publishing process and facilitate the interaction with authors and reviewer.
	Funder	… create a quality-proven and low-cost channel for data, code, reports and translational articles	… show the results of funded research and enable reuse in different contexts
	Researcher (in Economics)	… compile peer-reviewed data on social inequality in a peer-reviewed data playlist	… enable other researchers to reuse for publications and replications

PubFAIR Architecture

PubFAIR Architecture –Repository Layer
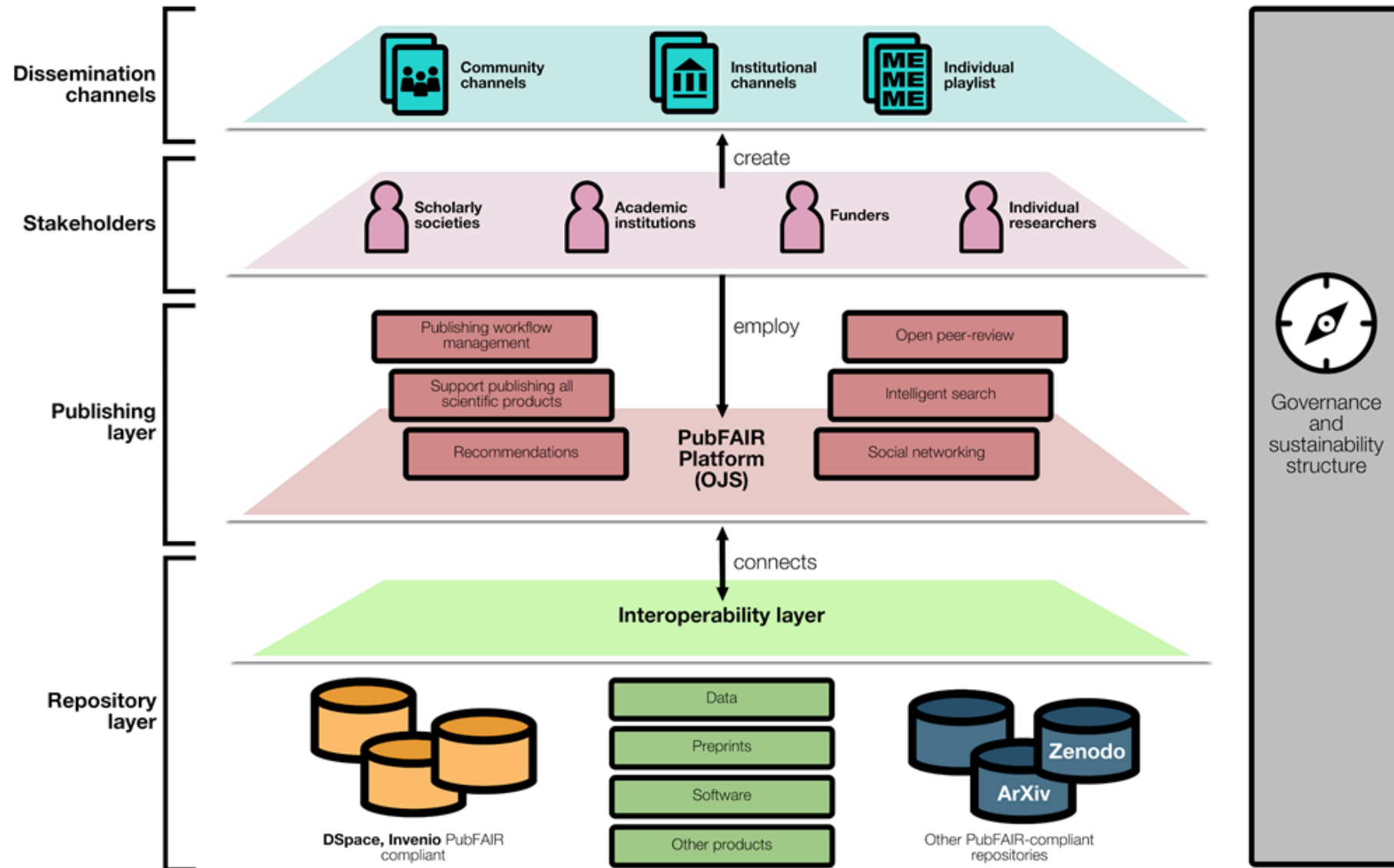
PubFAIR Architecture - Publishing layer

PubFAIR Architecture - Dissemination Channels

Dissemination Channels

- **Community channels:** Analogous to current journals, community dissemination channels will be maintained by communities of interest (e.g., according to disciplinary focus).

- **Institutional channels:** Institutions, including research funding and performing organisations, that wish to enable Open Access channels for their researchers can set up and maintain their own channels.

- **Individual channels:** Individual users can curate content, bringing together mixtures of research objects according to, e.g., research theme. Users can then follow each other to receive alerts to each other's playlists.

PubFAIR Architecture

Current Status and Future Work

- Proposal submitted to the call INFRAEOSC-02-2019 Prototyping new innovative services (EU H2020) 🙁 Not selected

- Working with several US based organizations on another funding proposal 🙂

- Presenting and developing the PubFAIR concept and trying to identify opportunities and funding for piloting

Thank you!

Questions?