

A conceptual model for building publishing services on top of a distributed network of repositories

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The logo for Open Repositories, featuring a stylized orange outline of a city skyline above the text "OPEN REPOSITORIES" in orange capital letters.

OPEN
REPOSITORIES

2019 | HAMBURG

The logo for COAR (Confederation of Open Access Repositories), featuring the letters "COAR" in blue with a globe icon integrated into the "O", and the full name "Confederation of Open Access Repositories" in smaller blue text below.

COAR
Confederation of Open Access Repositories

Why?

Current Scholarly Communication System

Not
Sustainable
Equitative/Inclusive
Innovative

Excellent

Very good

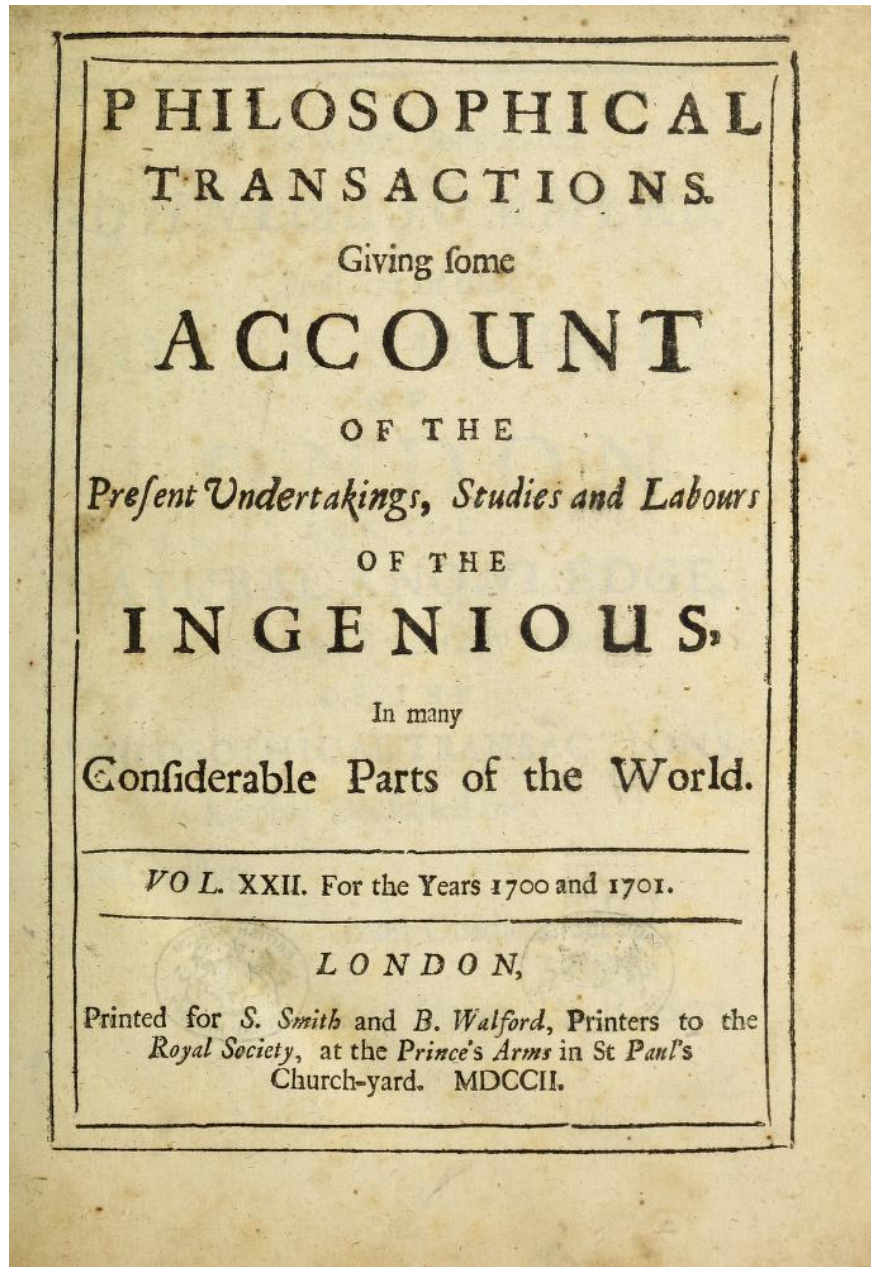
Good

Average

Poor



350 years of the academic journal!



Open Access Solution



Gold and Green OA

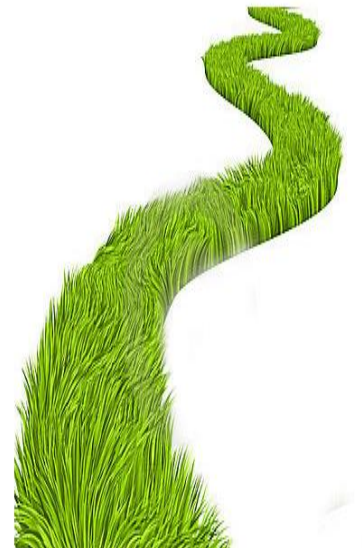
Gold OA

- >13000 OA journals
- “Push” for APC (Article Processing Charges) based publishing



Green OA

- > 4000 OA repositories
- National and regional networks established (OpenAIRE, LA Referencia, etc.)



Enters Pubfair...

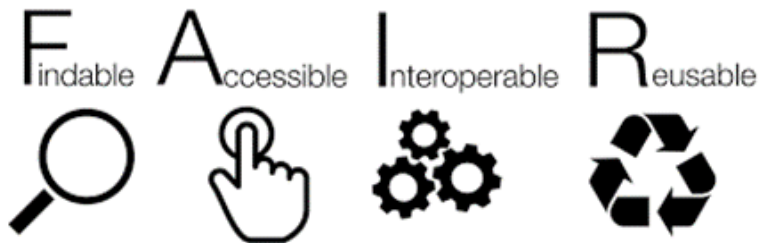


Enters PubFAIR...

- A conceptual model for building publishing services on top of a distributed network of repositories

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



The screenshot shows the top section of the Next Generation Repositories website. At the top center is a logo consisting of a network of blue dots connected by lines, with the text "NEXT GENERATION REPOSITORIES" below it. Below the logo is a photograph of the aurora borealis over a snowy landscape at night. Underneath the photograph, the text reads "COAR publishes recommendations for next generation repositories". At the bottom of this section is a blue button with the text "Browse Technologies".

Two Critical Elements of the NGR Vision

Common Behaviours of
Repositories
(Interoperability)

Value Added
Services on top of
resources in
repositories






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 overlaid ... and maintained by any third parties”, including tools for validation, filtering and communication
[\(Ginsparg, 1994\)](#)

An idea whose time has come?

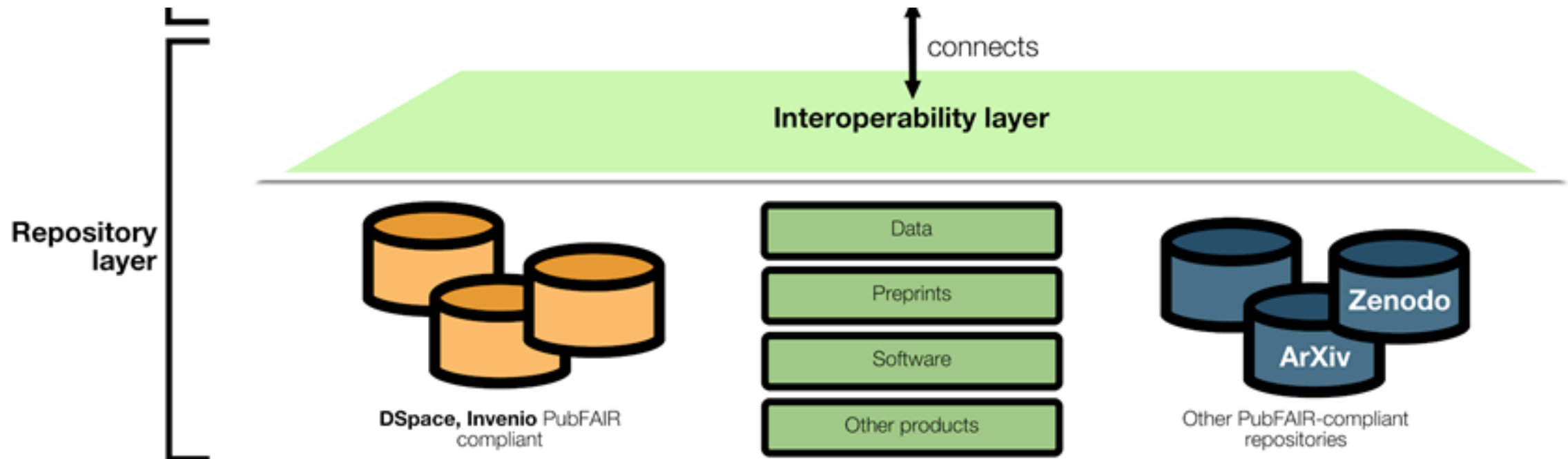
- Next generation repositories
- Rise of preprints
- FAIR data and outputs beyond publications
- Funder policy pushes
- Dissatisfaction with costs, commercial players and the pace of change
- Consortial models for OA publishing with no author-facing fees

Stakeholders and (preliminary) Use Cases

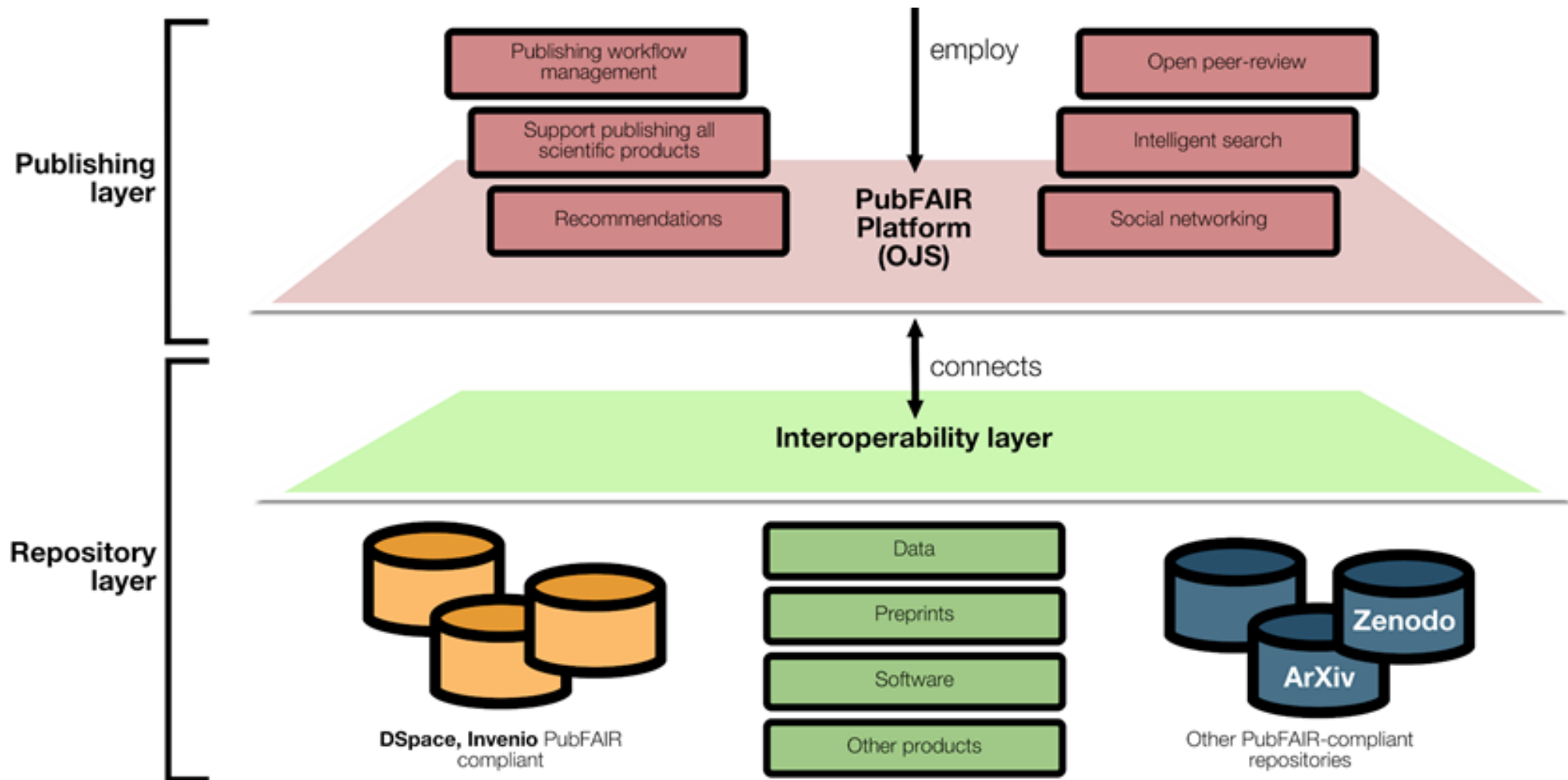
	As a ...	I want to ...	In order to ...
	Repository manager	... have the research outputs hosted in my repository reviewed and have information about this visible within the repository	... increase trust in the reliability of our repository content and create added value
	Scholarly society	... have a 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

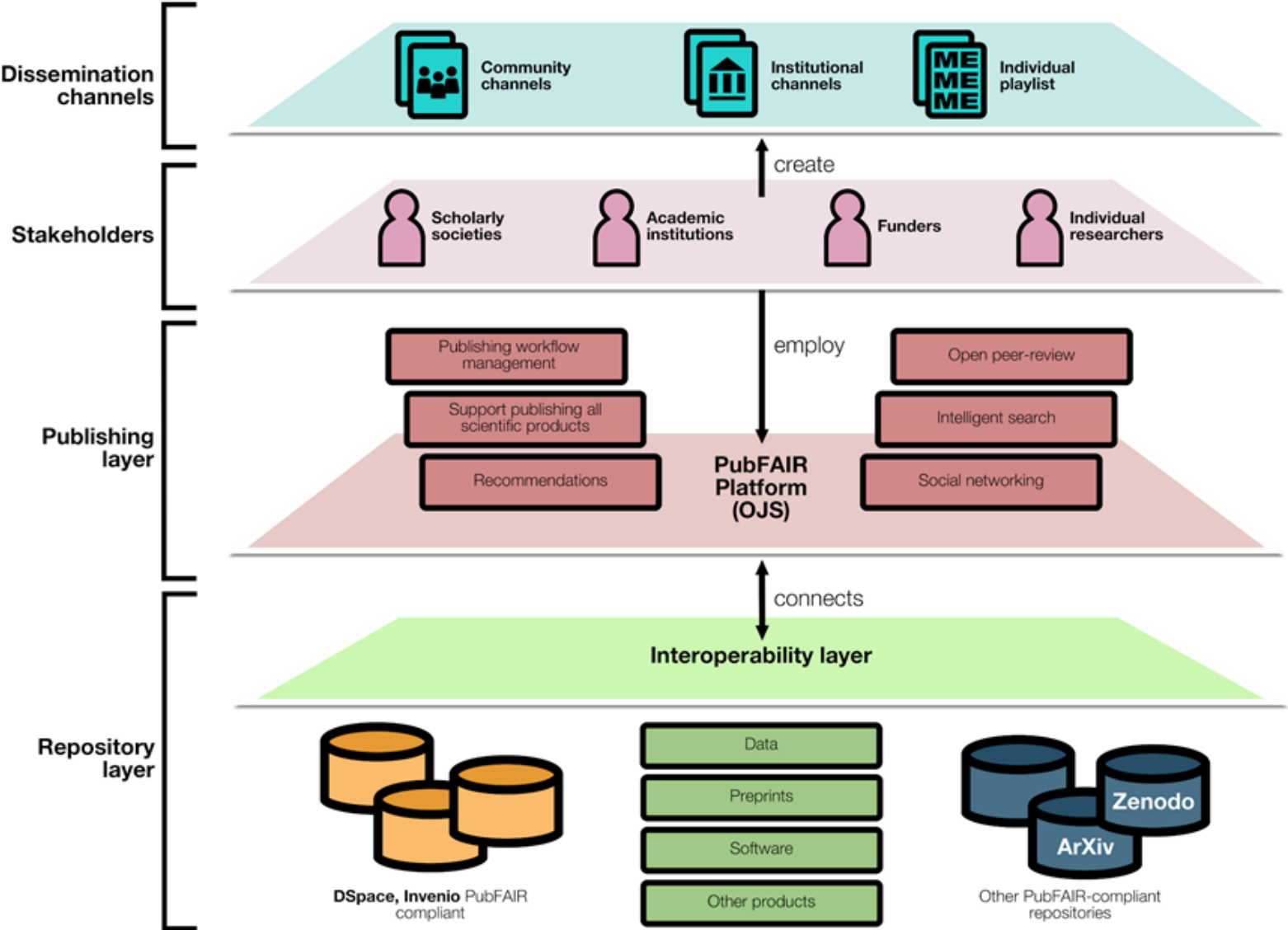
PubFAIR Architecture – Repository Layer



PubFAIR Architecture - Publishing layer



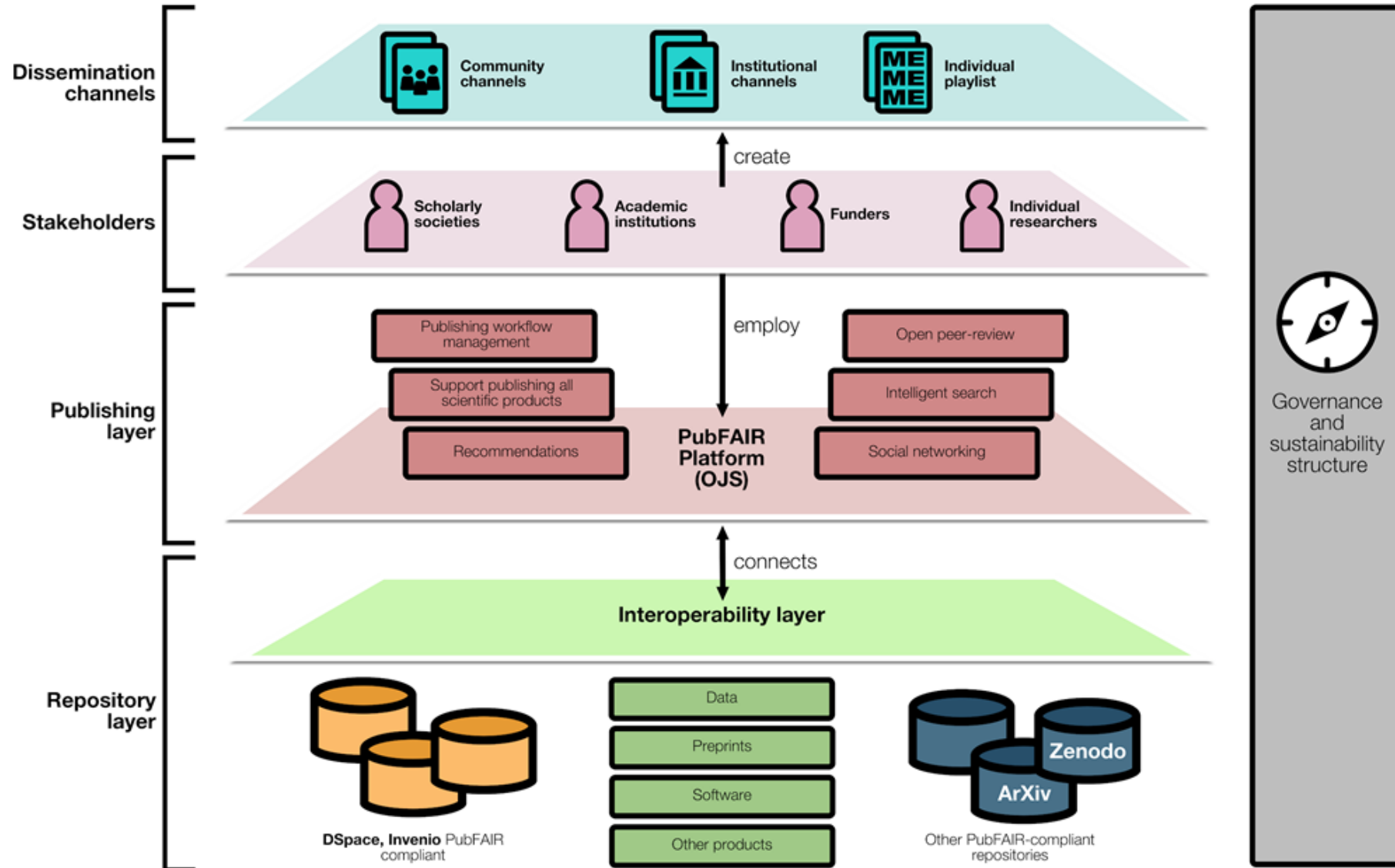
PubFAIR Architecture - Dissemination Channels



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

- Presenting and developing the PubFAIR concept
- Trying to identify opportunities and funding for piloting the conceptual model

Thank you!

Questions?

