



PID Metaresolver to support data management processes

Sven Bingert 0000-0001-9547-1582 
GWDG

Themis Zemani 0000-0003-1148-1738 
GRNET

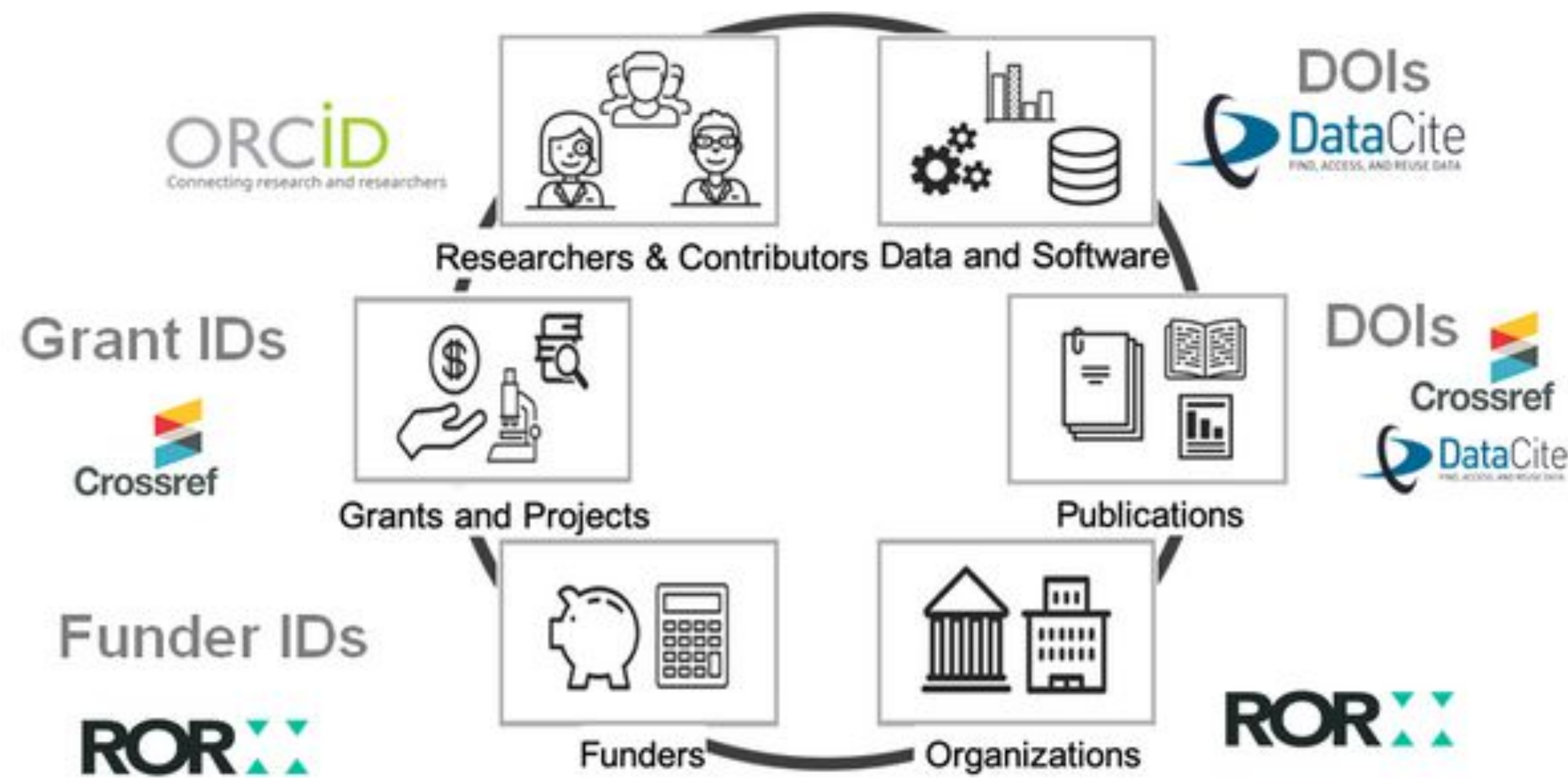


Co-funded by
the European Union



There are so many !

URN:NBN



More to come in future !

Multiple systems used to create and maintain PIDs.

PID Metaresolver - The case

Increasing use of PIDs to reference all types of research results is a major step forward in meeting future requirements for the FAIRness of (research) data.

Challenges arise

- in processing PIDs
- in integrating PIDs into different research processes



The PID Meta Resolver



THE IDEA



One service to **resolve** PIDs from various **providers**



Allow retrieval of **URLs**, **Metadata** and **Resources**



Information about PID provider

Behind the scenes

The Architecture

<https://pidmr.argo.grnet.gr>

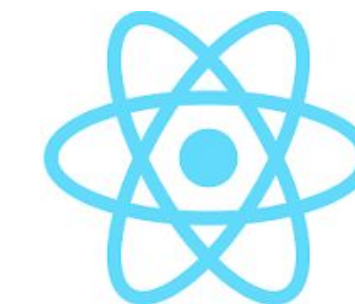
The PID Meta Resolver Backend



The PID Meta Resolver API



The PID Meta Resolver Web UI



Behind the scenes

The Architecture

<https://pidmr.argo.grnet.gr>

The PID Meta Resolver Backend



Resolve logic

handle API

retrieve meta data

process meta data

The PID Meta Resolver API



Identity the type of PID

Resolve batch of PIDs

Resolve PID

Check the status of PID

Provide more info

Give access to providers

The PID Meta Resolver Web UI



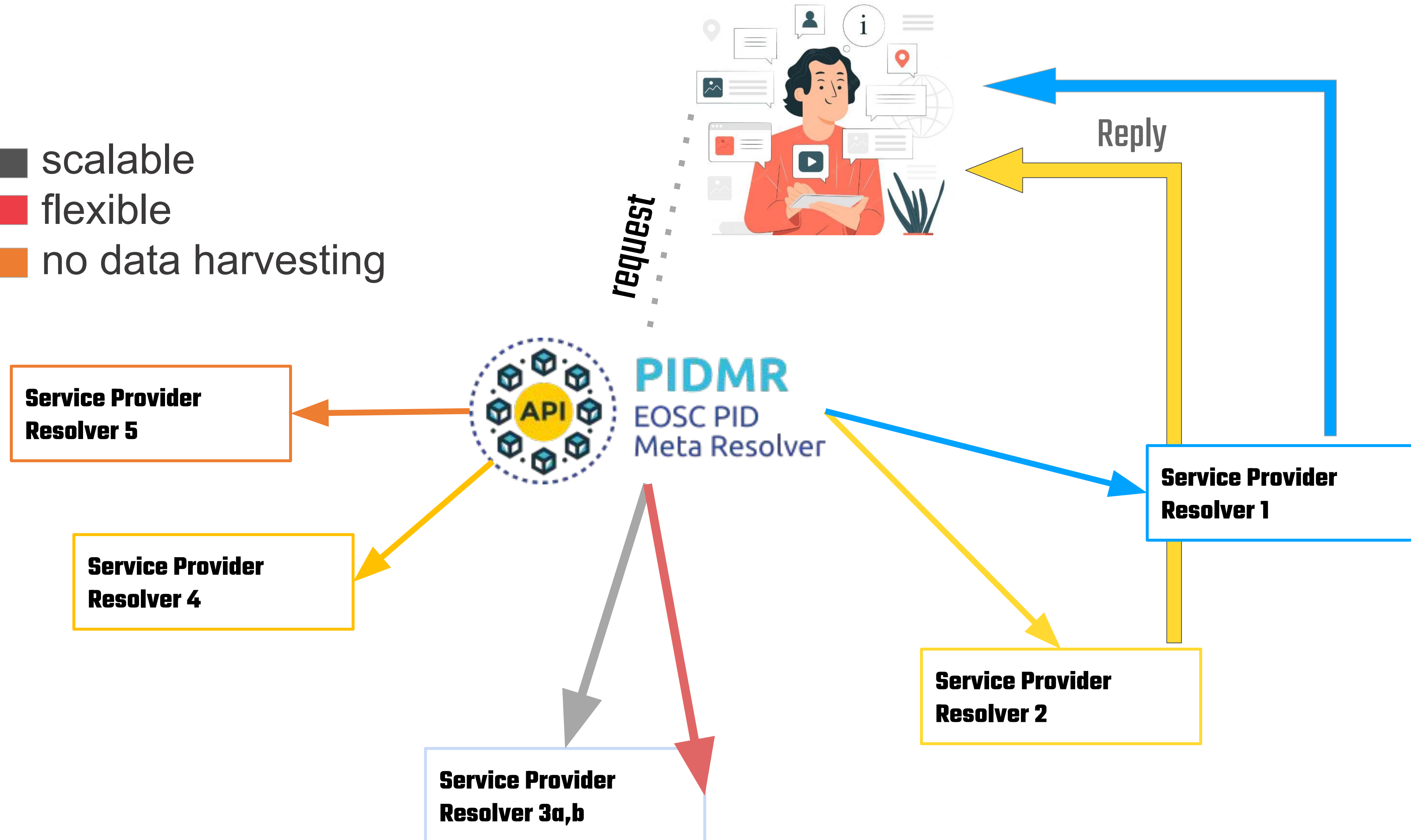
Library of PID

Resolve PIDs

Provide more info

PIDMR operating principle

- scalable
- flexible
- no data harvesting



Providers Currently supported



More to come ...

Please select an identifier example for testing:

- ☐ ARK: ark:/67531/metaph346793
- ☐ arXiv: arXiv:2302.00338
- DOI
 - ☐ DOI ID: 10.15167/tomasi-federico_phd2019-03-14
 - ☐ DOI Canonical: https://doi.org/10.15167/tomasi-federico_phd2019-03-14
 - ☐ Handle: 21.T11148/7317d72eb37156ced029
 - ☐ ISLRN: 261-537-224-628-2
- ORCID
 - ☐ ORCID ID: 0000-0001-9547-1582
 - ☐ ORCID Canonical: <https://orcid.org/0000-0001-9547-1582>
 - ☐ ROR: 00cd95c65
 - ☐ SWHID: swh:1:cnt:94a9ed024d3859793618152ea559a168bbcbb5e2
 - ☐ DE-URN: urn:nbn:de:hbz:6-85659524771
 - ☐ FI-URN: urn:nbn:fi-fe2021080942632
- zbMATH
 - ☐ Author ID: bingert.sven
 - ☐ swMATH ID: 32212
 - ☐ Publication ID: 7800006
- Zenodo
 - With single-part resource
 - ☐ zenodo PID: 10.5281/zenodo.8056361
 - With multi-part resource
 - ☐ zenodo PID: 10.5281/zenodo.8246990

Thank you !!



**EOSC Research
Discovery Graph
(RDGraph)** to deliver
advanced discovery tools
across EOSC resources
and communities.



**EOSC PID Graph
(PIDGraph)** to improve the
way of interlinking research
entities across domains
and data sources on the
basis of PIDs.



**EOSC Metadata Schema
and Crosswalk Registry
(MSCR)** to support
publishing, discovery and
access of metadata
schemas and provide
functions to operationalise
metadata conversions by
combining crosswalks.



**EOSC Data Type
Registry (DTR)** to
provide user friendly
APIs for metadata
imports and access to
different data types and
metadata mappings.



**EOSC PID Meta
Resolver (PIDMR)** to
offer users a single PID
resolving API in which
any kind of PID can be
resolved through a
single, scalable PID
resolving infrastructure.



**EOSC Compliance
Assessment Toolkit
(CAT)** to support the
EOSC PID policy
compliance and
implementation.



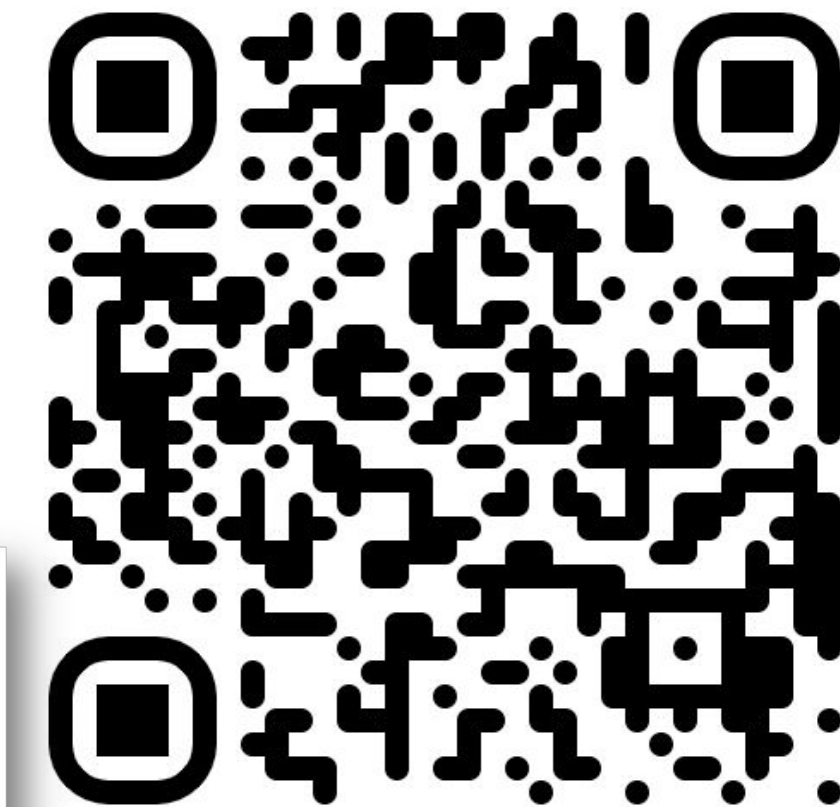
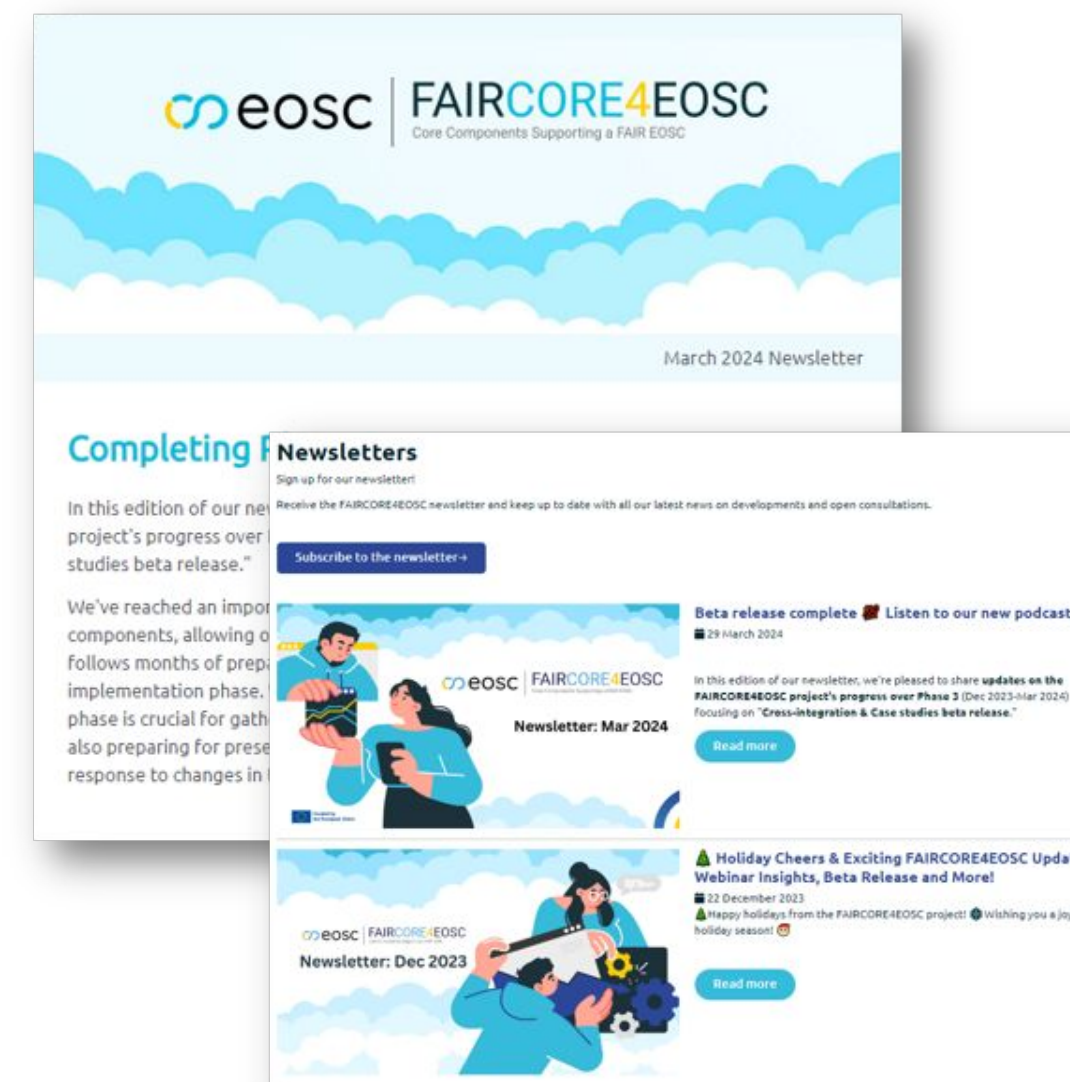
**EOSC Research Activity
Identifier Service (RAiD)**
to mint PIDs for research
projects, allowing to
manage and track project
related activities.



**EOSC Research Software
APIs and Connectors
(RSAC)** to ensure the
long-term preservation of
research software in
different disciplines.



**EOSC Software Heritage
Mirror (SWHM)** to equip
EOSC with a mirror of
the Software Heritage
universal source code
archive.



<https://faircore4eosc.eu/>