

Report on EOSC

European Open Science Cloud in DCP context

B Cecconi (+ thanks to M Allen) — DCP IG — Nov-2023 Interop

The Europlanet-2024 Research Infrastructure project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871149. The FAIR-IMPACT project has received funding from the European Union's Horizon-Europe research and innovation programme under grant agreement No 101057344.























speose EOSC vision in a nutshell

What

EOSC is the European web of FAIR data and related services for research

Research data that is easy to find, access, interoperate and reuse (FAIR)

Trusted and sustainable research outputs are available within and across scientific disciplines

Why

Unlock the full potential of research data to accelerate discoveries and innovation

How

- Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'
- Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results
- Establish a sustainable and federated infrastructure enabling open sharing of scientific results

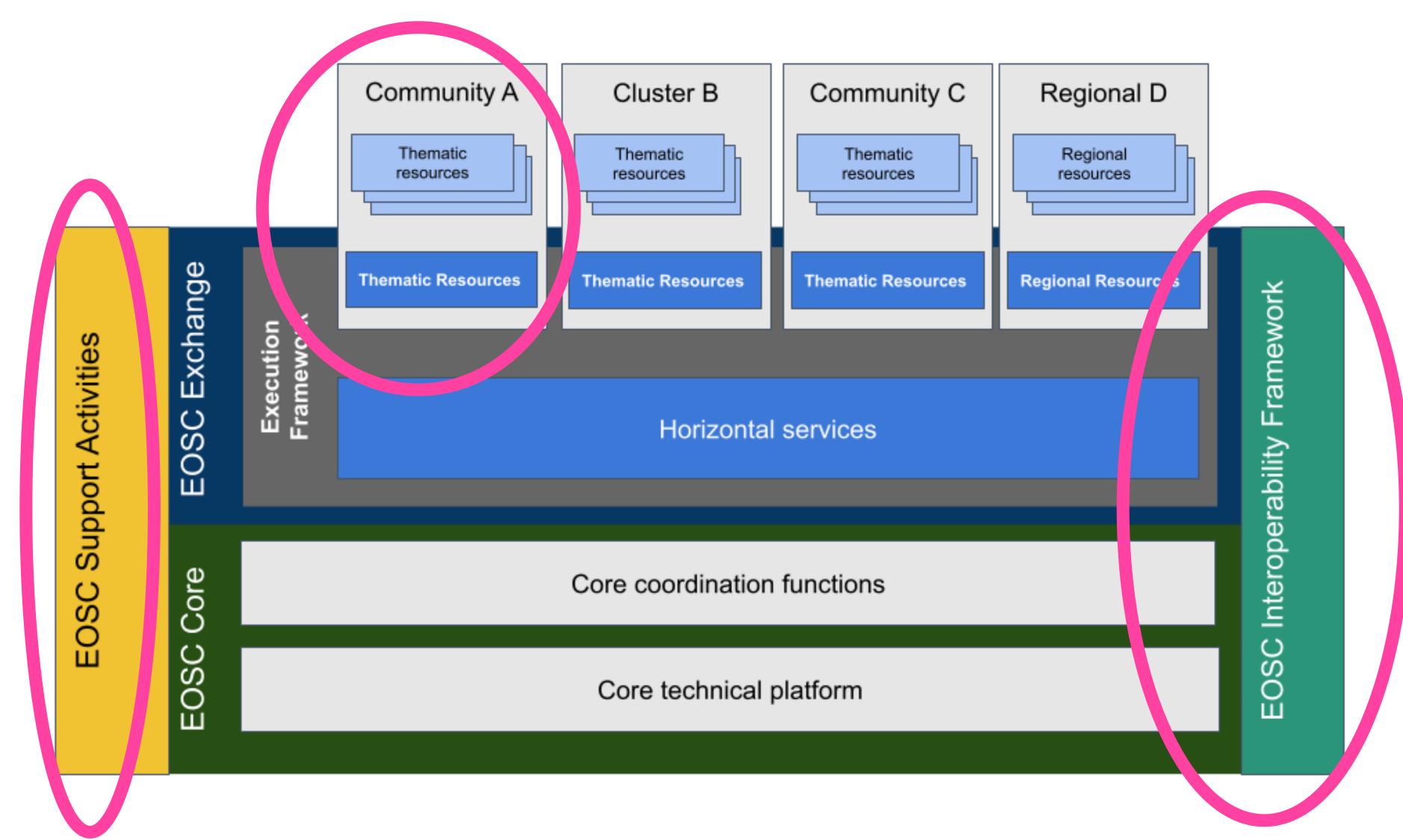


Strategic
Research and
Innovation
agenda (SRIA)
eosc.eu/sria-mar





EOSC Architecture and Astronomy connections



speose EOSC development (2018-2027)

EOSC phase 1: preparatory

2018 - 2020

EOSC phase 2: convergence

2021 - 2027

EOSC phase 3: operation

Post-2027

Funding instruments: H2020 calls/grants approach

Funding instruments: HE INFRAEOSC calls / grants approach EOSC Procurement In kind contributions from the EOSC Association members **Funding instruments:**

Under discussion

Main purpose: To support the implementation strategy defined in the EOSC roadmap 2018-2020 by the European Commission

Main purpose: To support the implementation of the strategic priorities identified in the Multi Annual Roadmap 2021-2022; 2023-2024; 2025; 2026-2027 of the Strategic Research and Innovation Agenda (SRIA)

Main purpose: To support the **EOSC** strategy and governance post 2027









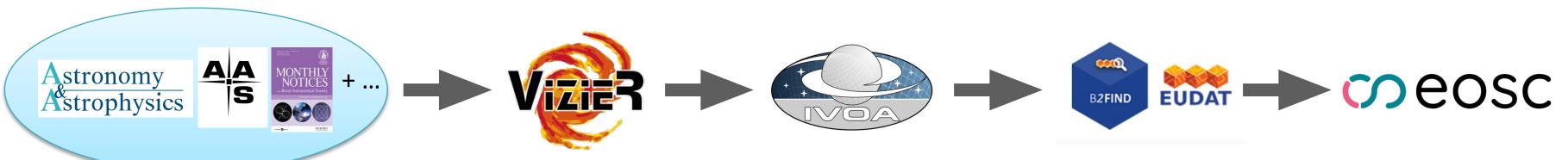






Creation of training materials - adapted for Astronomy community

Publish a Journal paper



Publish a VO service



...makes astronomy VO resources available in the EOSC Portal:







PUBLICATIONS

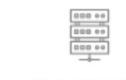




SOFTWARE



SERVICES



DATA SOURCES



TRAININGS





Default



GUIDELINES

Sort By

BUNDLES OTHER

Filters

Process and Analyse (0) Manage Research Data (0) Access Training Material (0) Access Computing and Storage Resources (0) Access Research Infrastructures (0) Publish Research Outputs (0) Find Bundles (0)

2343	search	results	ΑII	cata	log
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Dataset Not Specified

Gaia EDR3

□ 01 January 2020 ♣ Type: dataset

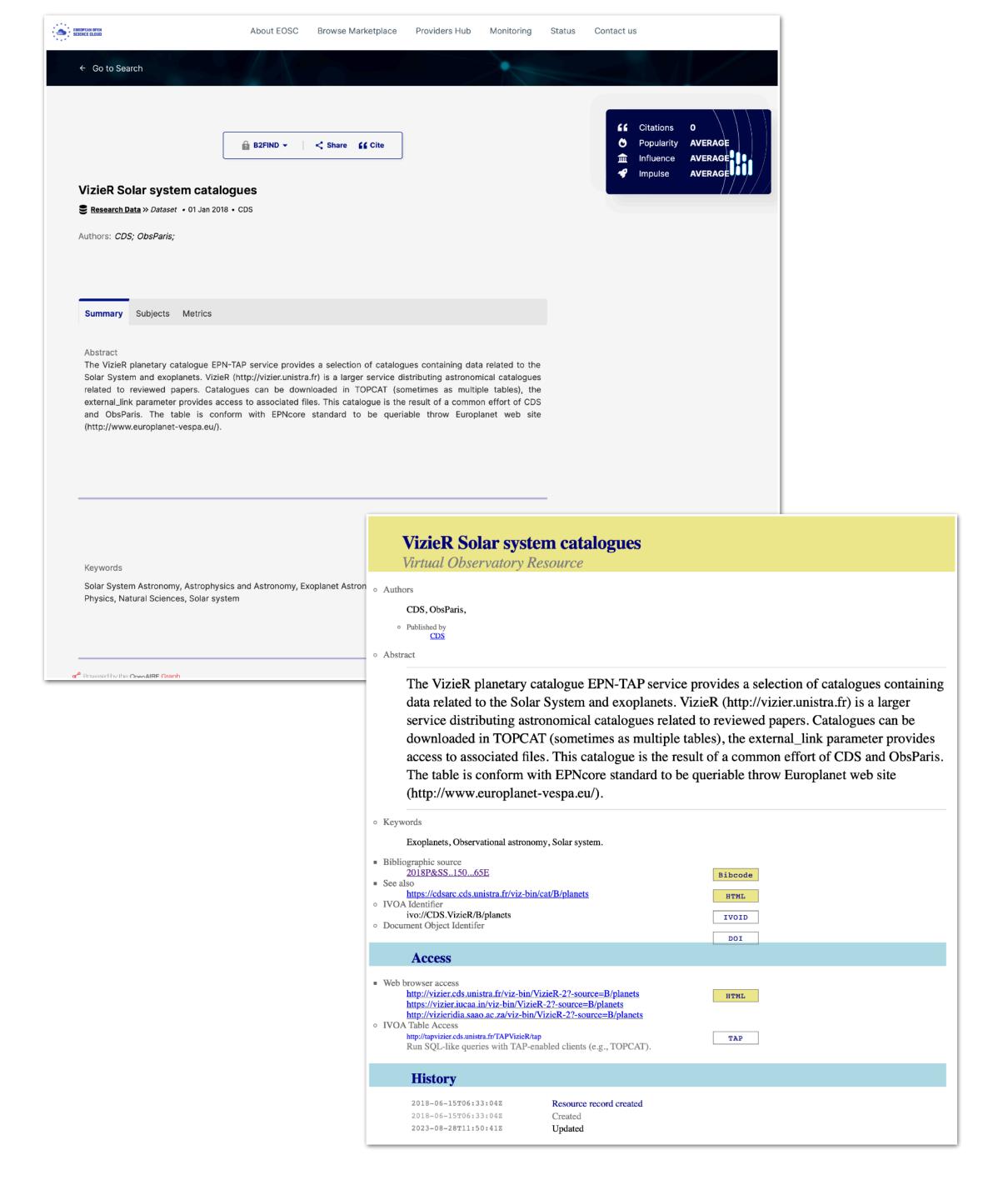
Author names: Collaboration Gaia

DOI: 10.26093/cds/vizier.1350

Asteroids Astrometry Astronomical object identification Optical astronomy Photographic photometry Photometry Proper motions Radial velocity Standard stars Surveys Trigonometric parallax Variable stars exoplanet astronomy galactic and extragalactic astronomy observational astronomy solar system astronomy stellar astronomy Astrophysics and Astronomy Natural Sciences Physics

EOSC Portal IVOA integration

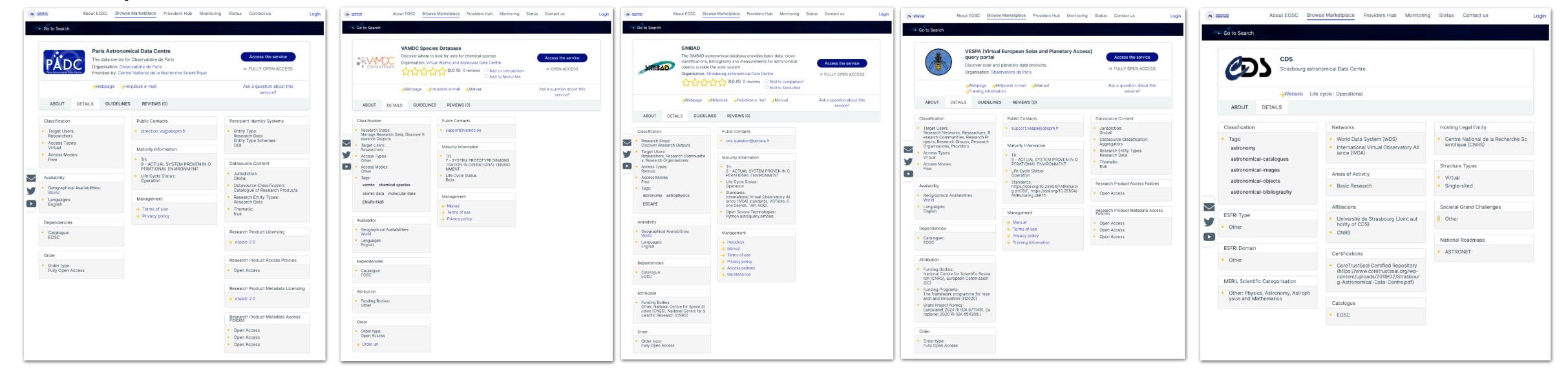
- IVOA Resources findable in EOSC Portal thanks to Registry/B2Find mapping.
 - => need improvement (ok for CDS resources, not ok for PADC resources)
- need to understand how to map VO Registry properties into metadata in portal:
 - standard-id or table-utype => dcterm:conformsTo
 - subject term as an URI => dcterm:subject
- need for landing page for each IVOA resource?



EOSC Portal

Services

- EOSC-Future outcome: new « profiles » for services and datasets in Portal
- Several IVOA-related services are registered.
 Requirement on legal documents (SLA, privacy policy...)
- Currently: only web portals are directly registered. More to come, but still evaluating impact.



FAIR-IMPACT



enhancing semantic interoperability

- Goal: improve portal with semantic interoperability in portal and in DCP tools => example: DANS (Denmark) developed plug-in for Dataverse to include controlled vocabularies URI in subjects fields (it is only plain text by default)
- Astronomy is new comer: a lot to do in terms of mapping
- However, our information is already well described, not so difficult
- Prototypes coming out next year (on MASER service)