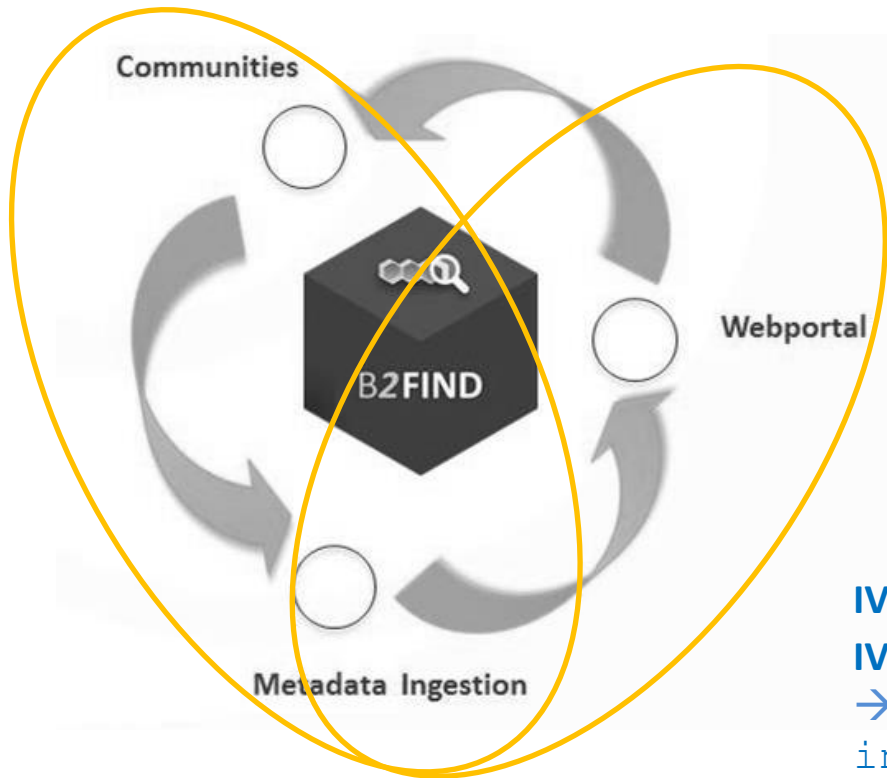


# IVOA resources

in B2FIND and OpenAire



harvesting: methods

- OAI-PMH, CSW, RestAPI, [SPaRQL]
- IVOA = OAI-PMH**

mapping: reader

- DublinCore, Datacite, OpenAire, EUDAT Core
- ISO 19115/19139 [INSPIRE], DDI 2.5
- community specific

**IVOA with md = Datacite (old)**

**IVOA with md = EUDAT Core (new)**

→ including more metadata elements, e.g. instrument, temporalCoverage


narrow down results using the facets

Communities,  
Spatial/TemporalCoverage,  
PublicationYear, Keywords,  
Creator, Instrument,  
Discipline, Language,  
Publisher, Contributor,  
OpenAccess, ResourceType

Instrument	
Filter	
ACS (20)	9-1
Gaia (9)	
Apertif (7)	
Byurakan 1m Schmidt (7)	
SPiRE (7)	
LAMOST (6)	
WFC3 (6)	
VIMOS (5)	
WFPC2 (5)	
PACS (4)	

ResourceType	
Filter	
Service (24200)	9-1
AstroObjects (1712)	
Other (1089)	
AstroImage (309)	
Spectrum (132)	
AstroData (114)	
Collection (33)	
Text (25)	
SpectralLines (3)	

Filter by location
Clear



Map data © OpenStreetMap contributors  
Tiles by Stamen Design (CC BY 3.0)

**25,394 datasets found**
Order by: Relevance

Communities: **IVOA**

**HST observations of planets and satellites**  
HST observations of planets, dwarf planets, and satellites, extracted from the CADC database catalogue (with daily updates). Data are linked to the CADC repository, with file...

**BASS2000 Solar Survey Archive**  
EPNcore table of BASS2000, a Solar survey archive: Images, movies of full Sun from groundbased instruments: Spectroheliographs of Meudon and Coimbra, RadioHeliograph and...

**Heliophysics Feature Catalogue: Active regions**  
Active regions of the Sun from Heliophysics Feature Catalogue (HFC).

**Type 3 event in Helio**  
type 3 events of the sun from helio database.

**Light Pollution Weather**  
We give continuous night and day light measurements at all natural outdoor light levels by a network of low-cost lightmeters. Developed to start simple, global continuous high...

**GAVO RegTAP Service**  
Tables containing the information in the IVOA Registry. To query these tables, use our TAP service. For more information and example queries, see the RegTAP specification....

**TOSS -- Tübingen Oscillator Strengths Service**  
This service provides oscillator strengths and transition probabilities. Mainly based on experimental energy levels, these were calculated with the pseudo-relativistic...

**TOSS -- Tübingen Oscillator Strengths Service**  
This is a prototype for a future LineTAP specification. If you are not interested in validating LineTAP, you should probably not use this table.

**PlanetServer CRISM-derived subset**  
PlanetServer2/CRISM data: <http://access.planetserver.eu/>

## B2FIND

- md schema based on EUDAT Core  
(Datacite + temporalCoverage, Instrument, Discipline, Contact, several types of Identifier)
- md exposure via OAI-PMH
  - with md prefix euc (all we have)
  - with md prefix datacite (= OpenAire)

## OpenAire

- md schema based on Datacite  
(with multiple types of Identifier)
- harvesting only with md prefix datacite!



*missing information for IVOA  
records in B2FIND*



Are IVOA resources already in EOSC (because in OpenAire via B2FIND) ?

## EOSC Future

- EOSC Portal = web interface for everything
- EOSC Marketplace = web interface for ordering "services"
- EOSC Resource Catalogue = system behind the Portal
  - currently: just a look-up tool for "services"
  - update September: include "research products" and "data sources"



## FAIRCORE4EOSC

- 14 new "components" for EOSC, e.g.
  - EOSC Research Discovery Graph (RDGraph)
  - EOSC PID Graph (PIDGraph)
  - EOSC Metadata Schema and Crosswalk Registry (MSCR)
  - EOSC Data Type Registry (DTR)
  - EOSC PID Meta Resolver (PIDMR)
  - EOSC Research Activity Identifier Service (RAiD)
  - ...
- as always: no real sustainability...

→ become an EOSC Provider and onboard your services, data sources, research products!



- IVOA resources on productive B2FIND here:
  - <http://b2find.eudat.eu/dataset?groups=ivoa>
- new B2FIND coming in June 2022
  - new hardware, new software; new CKAN with updated SolR; new search interface with working 'timeline' search; ...
  - therefore reingest af all 'Communities' = good opportunity to fix some issues / improve mapping:
    - Instrument? temporalCoverage?
- plan: start with GraphDB in summer, include triples
- continue with concrete work → try to make IVOA resources discoverable as best as possible in B2FIND