

The DRIS+ Project – Enhancing the euroCRIS Directory of Research Information Systems

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DRIS+: Enhancing the euroCRIS Directory of Research Information Systems (DRIS)

The DRIS+ proposal aims to enhance the euroCRIS Directory of Research Information Systems (DRIS) and to make it automatically searchable via a dedicated API.

This improvement is a follow-up action to the euroCRIS-led 3-month METIS2OpenAIRE project that was awarded funding by OpenAIRE in early 2018. This project allowed the first institutional CRIS (METIS at Radboud University in Nijmegen, the Netherlands) to expose and test its metadata feed against the CERIF-XML Guidelines and to undergo the first test validation against a minimally sufficient validator developed by euroCRIS.

As the number of test-harvested CRIS system increases and the opportunities grow for expanding this OpenAIRE data provider role across vendors and solutions, the enhanced DRIS is seen as a key element to streamline the process for metadata harvesting from the OpenAIRE portal.

Tender priority topics addressed: The DRIS+ proposal addresses Challenge no 3 within the OpenAIRE Call for Innovators, i.e. "Expanding the OpenAIRE Service Portfolio". The proposed work will provide a missing piece in the set of features required to make the CRIS validation and harvesting into the OpenAIRE content aggregation a reality.

DRIS+: Enhancing the euroCRIS Directory of Research Information Systems (DRIS)

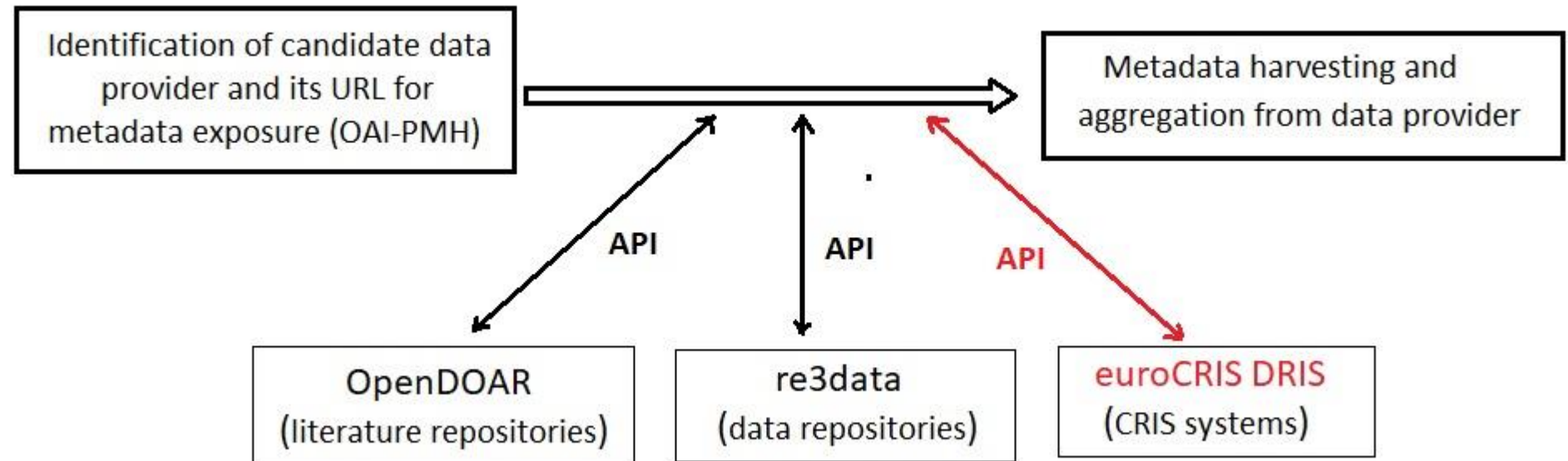
The project aims to enhance the euroCRIS Directory of Research Information Systems (DRIS) and make it automatically searchable via a dedicated API. This will promote CRIS systems becoming OpenAIRE data providers and simplify the process for harvesting their metadata.

[Entered Phase 1](#) | [Completed Phase 1](#) | [Entered Phase 2](#) | [Completed Phase 2](#) | [Entered Phase 3](#) | [Completed Phase 3](#)

[LEARN MORE](#) →

<https://www.openaire.eu/open-call-winner-phase-1-eurocris>

Using DRIS API: Use Case no 1 – OpenAIRE



Validate your datasource



Run compatibility test against the OpenAIRE literature guidelines.



Run compatibility test against the OpenAIRE Guidelines for Data Archives.



Run compatibility test against the OpenAIRE Guidelines for CRIS Managers based on CERIF-XML.

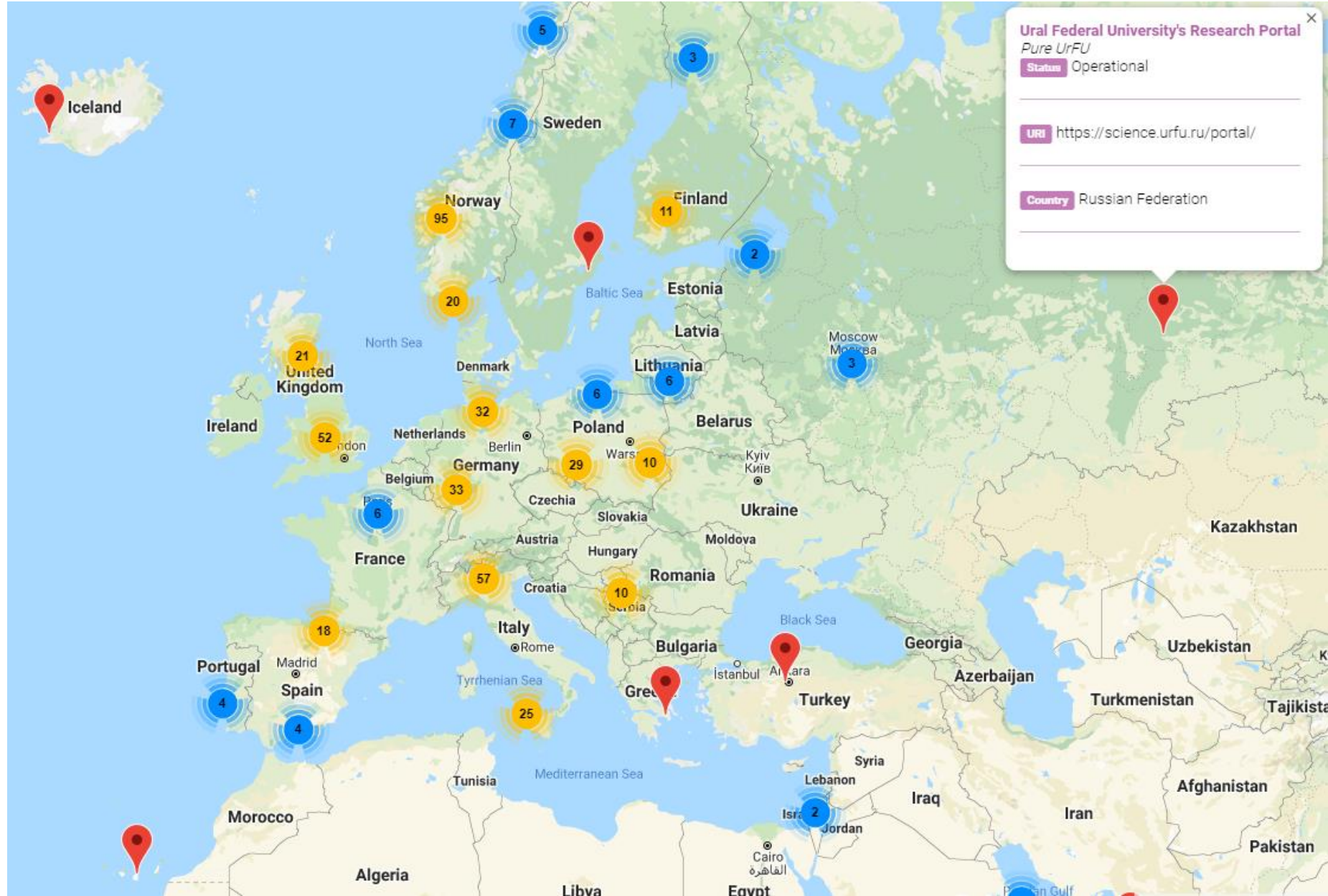
euroCRIS Directory of Research Information Systems (DRIS)



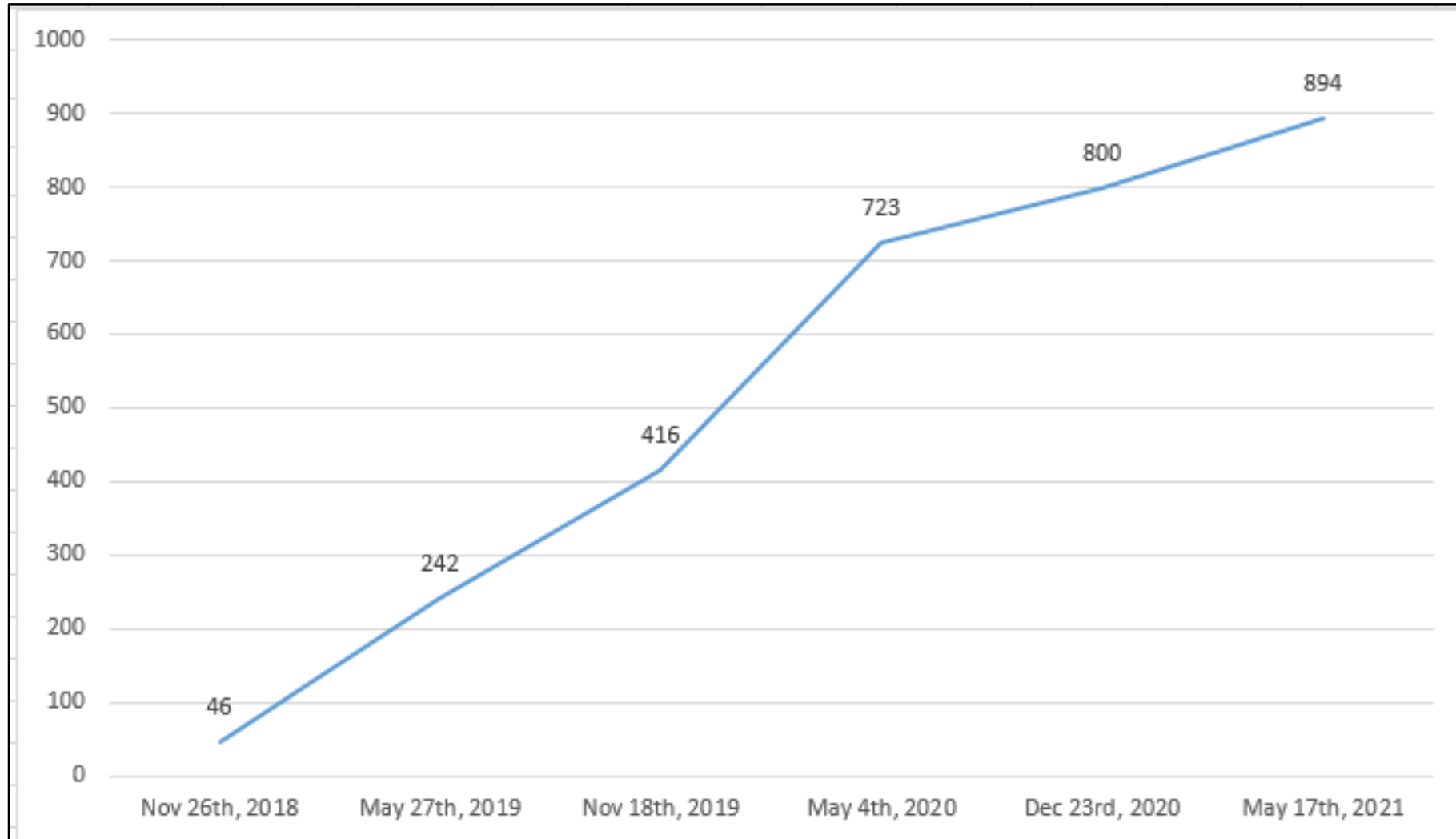
- 894 entries as of today (up from 800 on Dec 23rd, 2020)
- Sitting in the same **Dspace-CRIS platform** that hosts the euroCRIS repository
- Platform enhancement through **geolocation features** (Phase 1) and **badges** (Phase 3)
- Work-in-progress: the DRIS keeps growing

<https://dspacecris.eurocris.org/cris/explore/drisc>

euroCRIS DRIS: geolocation feature



euroCRIS DRIS keeps growing (thanks to RIM community input)



- The DRIS **keeps steadily growing** as stated in the DRIS+ project goals
- **DRIS dissemination** at euroCRIS membership meetings has switched to **online webinars**
- Data collection from **institutions and vendors**: ongoing effort
- End-goal is to promote **system interoperability** via the implementation of the OpenAIRE CERIF-XML Guidelines for CRIS Managers

“Minimally sufficient metadata” for DRIS entries



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CERIF [DRIS](#) Repository Projects

DRIS

The **Directory of Research Information Systems** ([DRIS](#)) is a euroCRIS initiative to map the available research information management infrastructure in Europe (and beyond). As of mid-May 2021 it includes close to 900 CRIS systems for institutions, research funders and other bodies in multiple European countries and beyond.

In order to make the addition of new entries as simple as possible, [a minimally sufficient metadata set has been adopted](#) for their description in the DRIS. This also aims to keep the maintenance effort as low as possible by avoiding fields prone to frequent changes such as contact person or number of records kept in the CRIS. This basic description contains just six fields:

- **Type:** type of CRIS, i.e. institutional, funder, national, regional, aggregation, subjectspecific, other
- **Organisation:** body operating the CRIS (usually a university or research centre, or a funder)
- **Name:** name of the CRIS (where available)
- **Platform:** software solution underpinning the CRIS. It may be a commercial platform (Pure, Converis, Symplectic Elements, SoleCRIS, etc), an open source solution (DSpaceCRIS, Haplo) or it may have been developed in-house
- **Status:** status of the CRIS, usually operational or under construction
- **URL:** URL for the open CRIS portal where available. If the CRIS is closed, any webpage where information on the system is provided, see for instance the entry for [METIS at Radboud Uni](#)

Online DRIS submission form

DRIS: Directory of Research Information Systems

Type

CRIS type. Possible values: institutional, funder, regional, national, international, aggregation, other

Organisation

Organisation served by the CRIS or running the CRIS

Name

Name of the CRIS. If there's also an acronym, it can be added in brackets

Platform

CRIS solution. Possible values are in-house-built, Pure, Converis, Symplectic Elements, DSpace-CRIS, Haplo, Worktribe, etc. Details may be added to complete the description for an in-house-built platform, eg "In-house-built (Java/Webservices)"

Status

☐

Operational

☐

Under construction

URL

URL for an open CRIS portal, eg <https://www.researchportal.be/en>. If the CRIS has no open portal, then a URL may be used that provides info on the system itself such as <https://researchsupport.admin.ox.ac.uk/reporting/symplectic>

CAPTCHA

This question is for testing whether or not you are a human visitor and to prevent automated spam submissions.

☐

I'm not a robot



reCAPTCHA
[Privacy](#) - [Terms](#)

Submit

Other interesting DRIS stats

Discover

Country

India	301
Norway	132
Italy	76
United Kingdom	71
United States	42
Germany	38
Poland	33
Spain	23
Netherlands	18
Finland	16
next >	

Software

IRINS	300
Pure	172
CRISin	131
In-house-built	74
IRIS	70
Omega-PSIR	31
DSpace-CRIS	23
Symplectic Elements	23
Converis	18
VIVO	11
next >	

DRIS+ project goals (live demo to follow)

1. to add **geolocation features** to the DRIS entries while keeping the directory growing
2. to **expand the underlying DRIS data model** in order to add fields like the **OAI-PMH endpoint URL***
3. to implement **badges** for highlighting **OpenAIRE-compliant CRIS systems** (also searchable via the API) and **CRIS systems hosting research datasets**
4. to add a **basic authentication layer** for users of the DRIS API (eg OpenAIRE) to go through as a safety mechanism
5. to test the retrieval of OAI-PMH endpoint URLs by the **real-life OpenAIRE validation workflow** for a first case study, <https://dspacecris.eurocris.org/cris/dris/dris01840> (Polish Platform for Medical Research, PPM) – **ongoing work**, currently setting up the **OAI-PMH endpoint URL**

* URL for the endpoint through which a CRIS system will expose its research info metadata

Adding OAI-PMH endpoint URLs to DRIS records

EuroCRIS

TUHH Open Research

Profile: ☐ Private ☒ Public

Source ID:

Source Reference

Created: 2019-03-18 20:49:42.717

Updated: 2021-02-02 11:47:38.708

▼ **Edit Dris Extra Fields**

Policy Access (Additional Information)

OpenaireReader 

Administrator 

Check Openaire Compliance ☒

OAI-PMH Url ☒

Displaying OAI-PMH endpoint URL & OpenAIRE badge

 Logged in as pcastromartin@gma...

EuroCRIS

DRIS record TUHH Open Research

 View Statistics  Email Alert  RSS Feed  Edit dris 

Source ID: none

Source Reference none

Created: 2019-03-18 20:49:42.717

Updated: 2021-02-02 11:47:38.708

Information

DRIS Details

Name of the CRIS	TUHH Open Research	Acronym	TORE	Status	Operational	Scope	Institutional
URI	https://tore.tuhh.de		Institution/organization	Hamburg University of Technology		Country	Germany
Software	DSpace-CRIS						

Additional Information

<https://tore.tuhh.de/external/openaireinfo>

OpenAIRE

Internal view:
OAI-PMH
endpoint URLs
are **only visible**
in DRIS records
when specific
Dspace-CRIS
users are logged
in

Displaying OAI-PMH endpoint URL & OpenAIRE badge

euroCRIS
Current Research Information Systems

The International Organisation for Research Information

Repository Digital Collections Research Outputs People Organizations DRIS Help

Search Sign on to:

EuroCRIS

DRIS record TUHH Open Research

View Statistics Email Alert RSS Feed

Information

DRIS Details

Name of the CRIS	TUHH Open Research	Acronym	TORE	Status	Operational	Scope	Institutional
URI	https://tore.tuhh.de		Institution/organization	Hamburg University of Technology		Country	Germany
Software	DSpace-CRIS						

OpenAIRE

External view:
OAI-PMH
endpoint URLs
are **not visible**
in DRIS records
if user is not
logged in

<https://dspacecris.eurocris.org/cris/dris/dris01170>

'Marking' research datasets on DRIS records

EuroCRIS

Polish Platform of Medical Research (Polska Platforma Medyczna, PPM)

Profile: ☐ Private ☒ Public

Source ID:

Source Reference

Contact information ☒ Data supply ☒

CRIS data supply ☒ Data validation ☒

CRIS data validation ☒ ICT Support ☒

CRIS data output ☒ ICT Support for the CRIS ☒

Country  Coverage 

GeoLocation Reference (Latitude,Longitude) ☒ Used for import (country) ☒

Used for import (drisproviderOrgUnit) ☒

Save Changes

Exit

'Marking' research datasets on DRIS records: RDM+ badge

EuroCRIS

DRIS record Polish Platform of Medical Research (Polska Platforma Medyczna, PPM)

[View Statistics](#) [Email Alert](#) [RSS Feed](#)

Information

DRIS Details

Name of the CRIS Polish Platform of Medical Research (Polska Platforma Medyczna, PPM) **Acronym** PPM

Description

The Polish Platform of Medical Research (PPM) is a digital platform presenting the scientific achievements and research potential of 7 medical universities from Bialystok, Gdansk, Katowice, Lublin, Szczecin, Warsaw, Wroclaw and the Nofer Institute of Occupational Medicine in Lodz. These institutions have teamed up for the PPM Project, whose platform incorporates the features of a Current Research Information System and a consortium repository and uses OMEGA-PSIR software. It provides Open Access to full texts of publications, doctoral theses, research data and other documents. The PPM is a central platform that aggregates data from the local platforms of the PPM Project Partners. The PPM showcases the research profiles of the academic staff of the Project Partners, provides access to a database of experts from various medical fields and allows reports and analyses to be generated based on the data stored in the repository. The PPM also provides information on the research potential – patents, projects, infrastructure and laboratories. The PPM is accessible for any Internet user.

Status Operational **Scope** Aggregation **URI** <https://ppm.edu.pl/index.seam>

Institution/organization Partnership of 8 Polish medical scientific institutions **Country** Poland **Coverage** Dataset

Software Omega-PSIR



Aim: to record CRIS systems holding both **research datasets** and **metadata for research datasets hosted elsewhere**

Using DRIS API: Use Case no 2 – CRIS as EOSC providers



- The EOSC Association relies on data (and literature) repositories as default data providers for datasets
- However, CRIS systems often contain datasets too (or at least *metadata* on datasets)
- CRIS systems are rarely registered in data repository directories like re3data – but they are listed in the DRIS
- If we managed to highlight those DRIS entries that contain either datasets or their associated metadata, that would be a very valuable info on additional data providers for the EOSC
- Now where do we get the info on *which CRIS systems are hosting data*?

Retrieving info on dataset hosting by a CRIS: PPM



Polish Platform of Medical Research

A knowledge and research potential platform

Search...

Everywhere ▾



Research Units

1825



People

5558



Publications

217066



PhD theses

10352



Research data

176



Patents

632



Projects

2486



Infrastructure

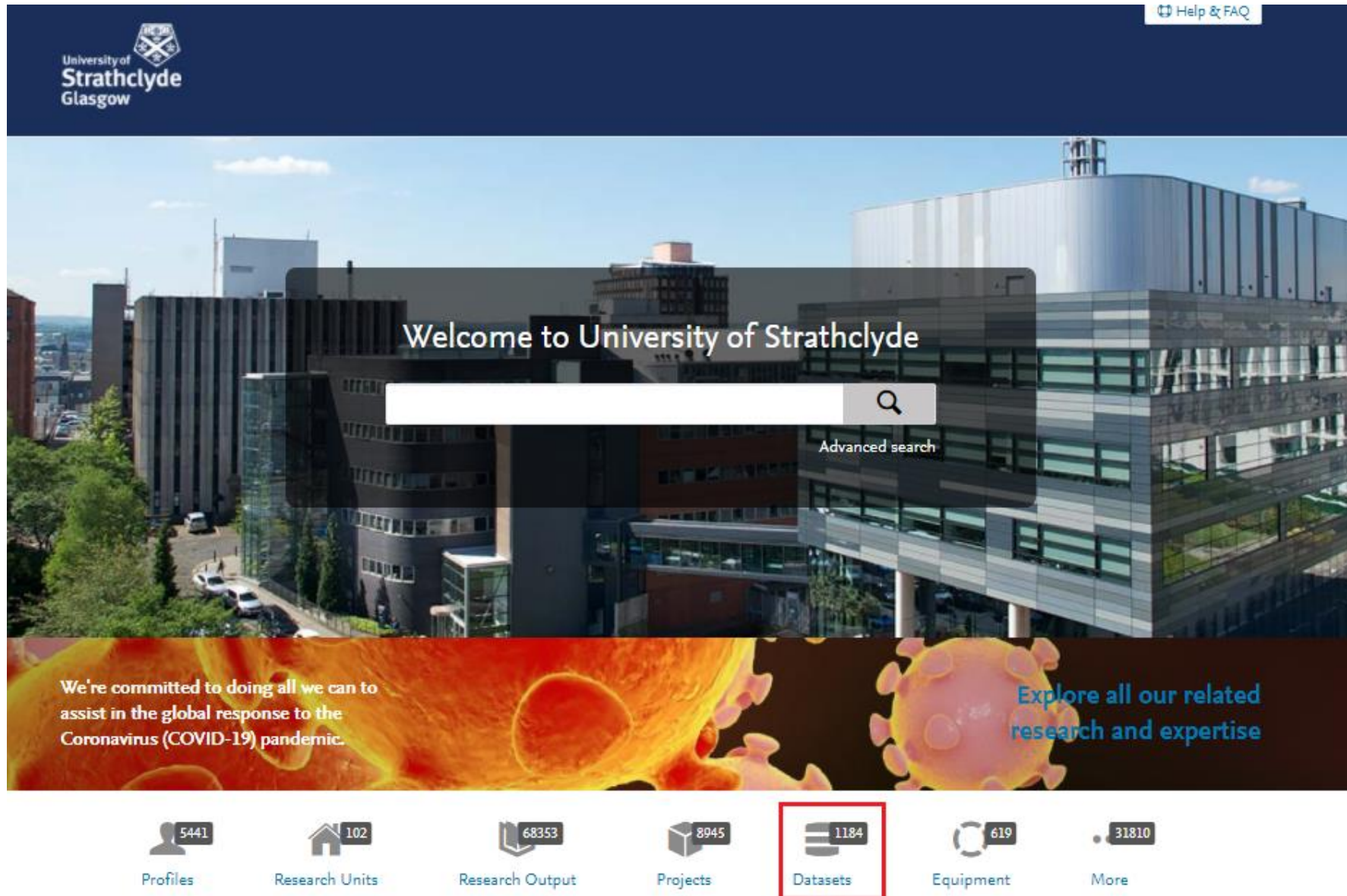
247



Laboratories

68

Retrieving info on dataset hosting by a CRIS: PURE@Strathclyde



- Where the information is available on the CRIS portal, it can directly be taken from there
- Where it's not available (or where there's no portal) it will need to be sourced from the CRIS managers: pending dissemination work

Basic authentication layer on the DRIS API

```
diff --git a/data/entries/dris00902.json b/data/entries/dris00902.json
```

```
index d494f86..bcf17e4 100644
```

```
--- a/data/entries/dris00902.json
```

```
+++ b/data/entries/dris00902.json
```

```
@@ -65,7 +65,7 @@
```

```
        "lastModified": "2021-02-04T23:55:21.389Z"
```

```
    },
```

```
    "name": "METIS Research Information System",
```

```
-    "openaireCrisEndpointURL": "",
```

```
+    "openaireCrisEndpointURL": "https://damis.org/.../...",
```

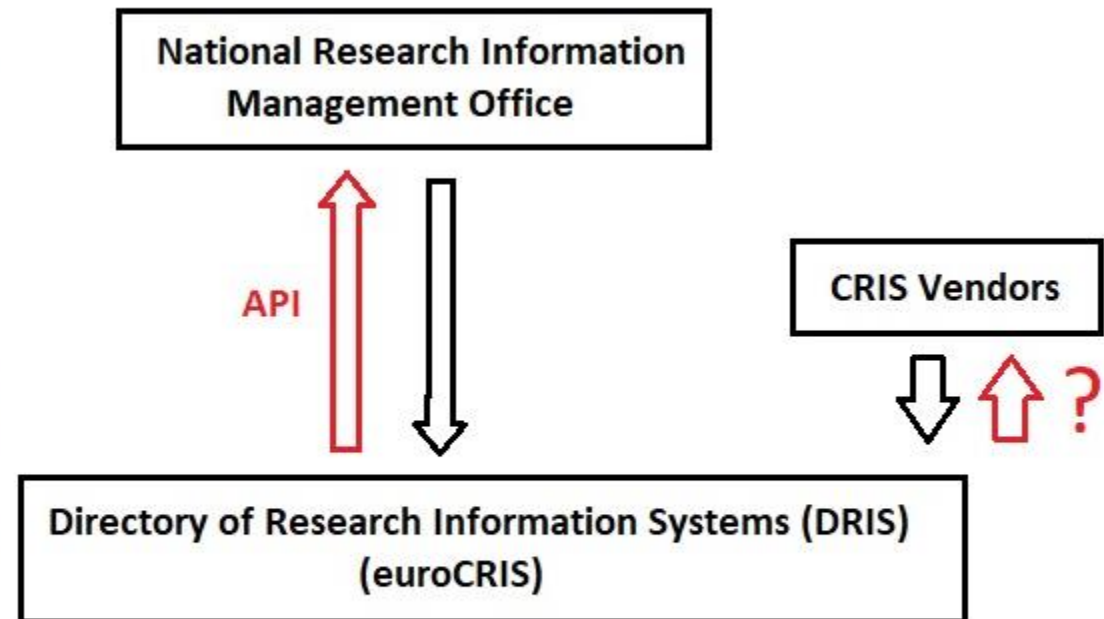
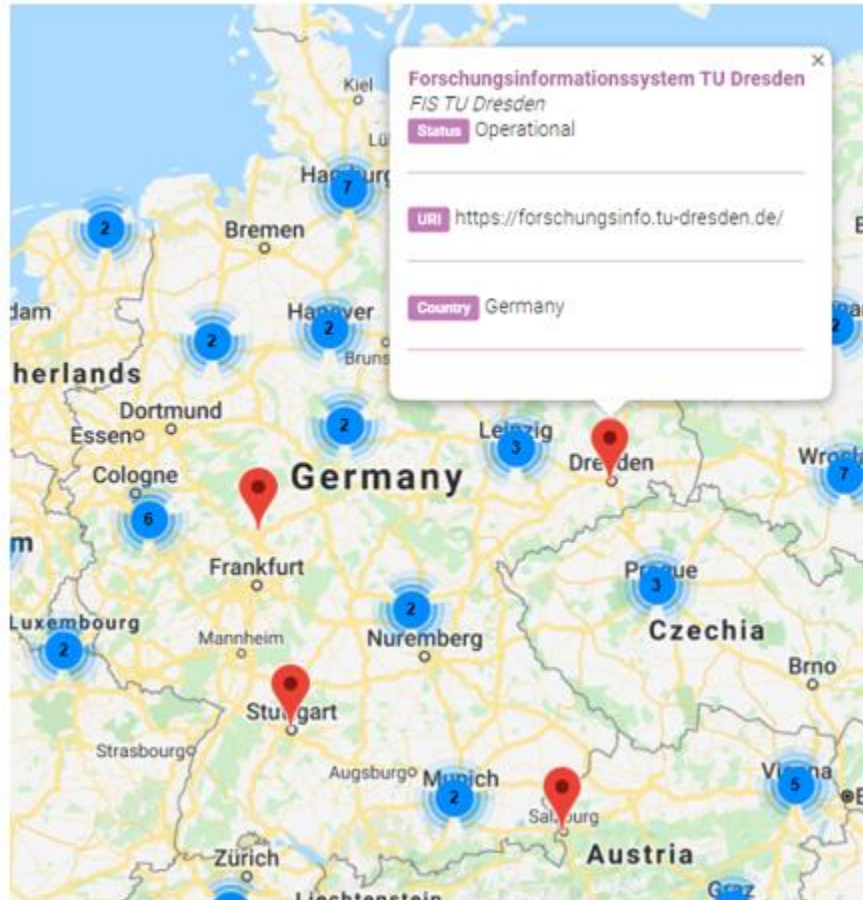
```
    "organization": "orgunits:ou00093",
```

```
    "scope": "vocabs:scopes/classcerif00937",
```

```
    "status": "vocabs:statuses/classcerif00935",
```

Aim: to 'protect' CRIS systems from openly sharing potentially sensitive information – OAI-PMH endpoint URLs can only be retrieved via the DRIS API by authenticated users (such as OpenAIRE)

Using DRIS API: Use Case no 3 – National RIM Offices



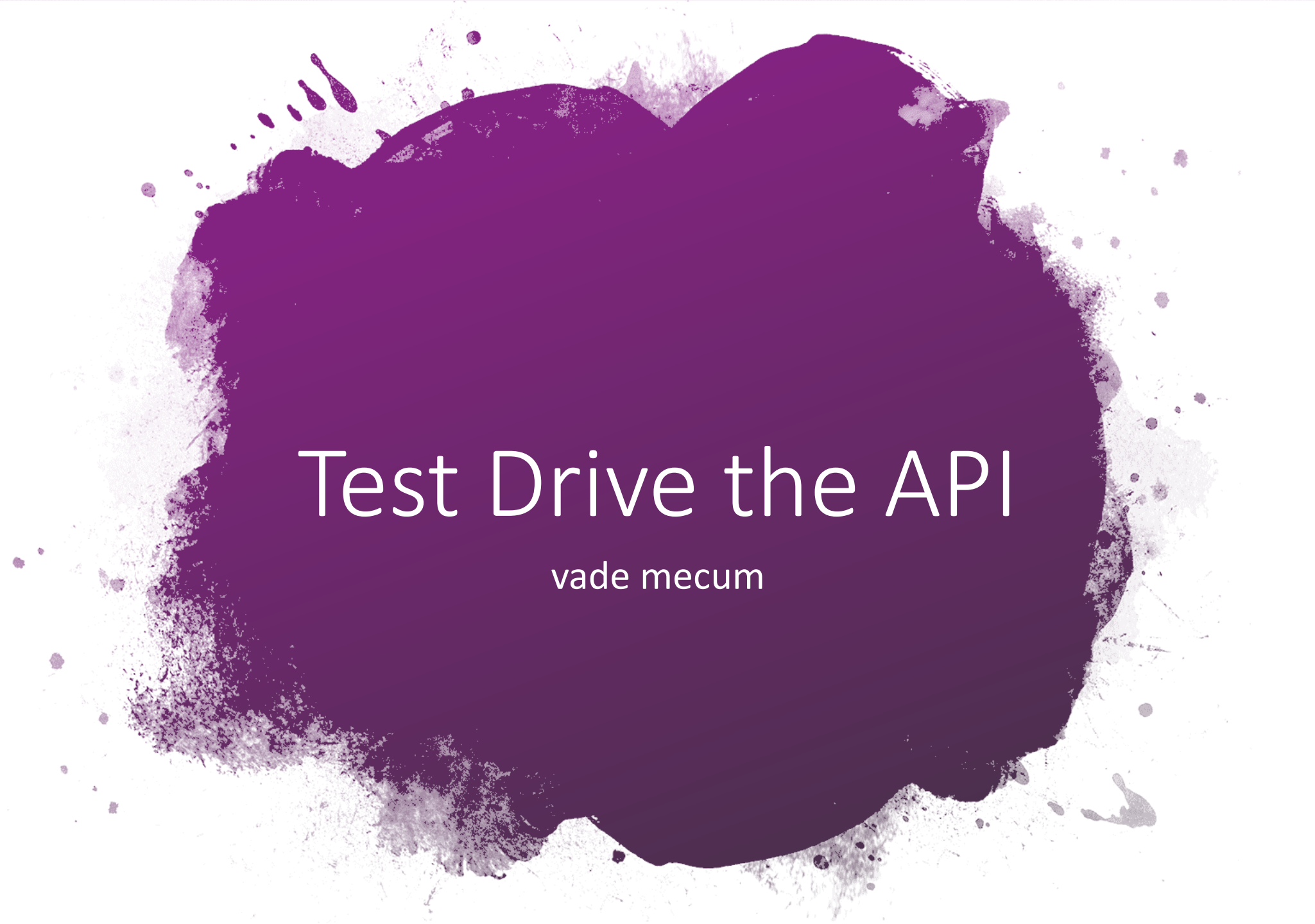
Search the DRIS

for

> Add Filters

Results 1-10 of 34 (Search time: 0.0 seconds).

Results/Page | Sorted by Relevance



Test Drive the API

vade mecum

The basic example

List all the CRISs in the DRIS: <https://api.eurocris.org/dris/entries>

- The total number given
- First 100 records listed
- Stand-alone records, context **@included**
- Iteration through the *Link* HTTP header (*rel=next*)

Examples of filtering

- List all operational CRISs in the DRIS:
<https://api.eurocris.org/dris/entries?status.id=classcerif00935> or
<https://api.eurocris.org/dris/entries?status.label=operational>
- List all operational CRISs in Germany, Austria and Switzerland:
<https://api.eurocris.org/dris/entries?status.label=operational&country.code.alpha2=DE,AT,CH>

Further examples of filtering

- List all operational CRISs that cover datasets:
<https://api.eurocris.org/dris/entries?status.label=operational&coverage.label=Dataset>
- List all CRISs with the RDM+ badge:
<https://api.eurocris.org/dris/entries?rdm=true>
- List all CRISs with the OpenAIRE badge:
<https://api.eurocris.org/dris/entries?openaire=true>
- List all operational CRIS that are built on the DSpace-CRIS platform:
<https://api.eurocris.org/dris/entries?status.label=operational&cris-platform.label=DSpace-CRIS>

<https://github.com/jdvorak001/DRIS-API-testing>

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Thanks!

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