

OpenAIRE-Nexus

Scholarly Communication Services for
EOSC users

Ein abschließender Blick,
auf Teile an denen die UB
beteiligt war.



Agenda

- Übersicht “OpenAIRE Nexus”
- Arbeiten und Ergebnisse, am Beispiel von OpenAPC
 - Einbettung
 - KPIs
 - FactSheets, AudioCast, Presentation Video
 - FAIRness and Communities
- Abschluss



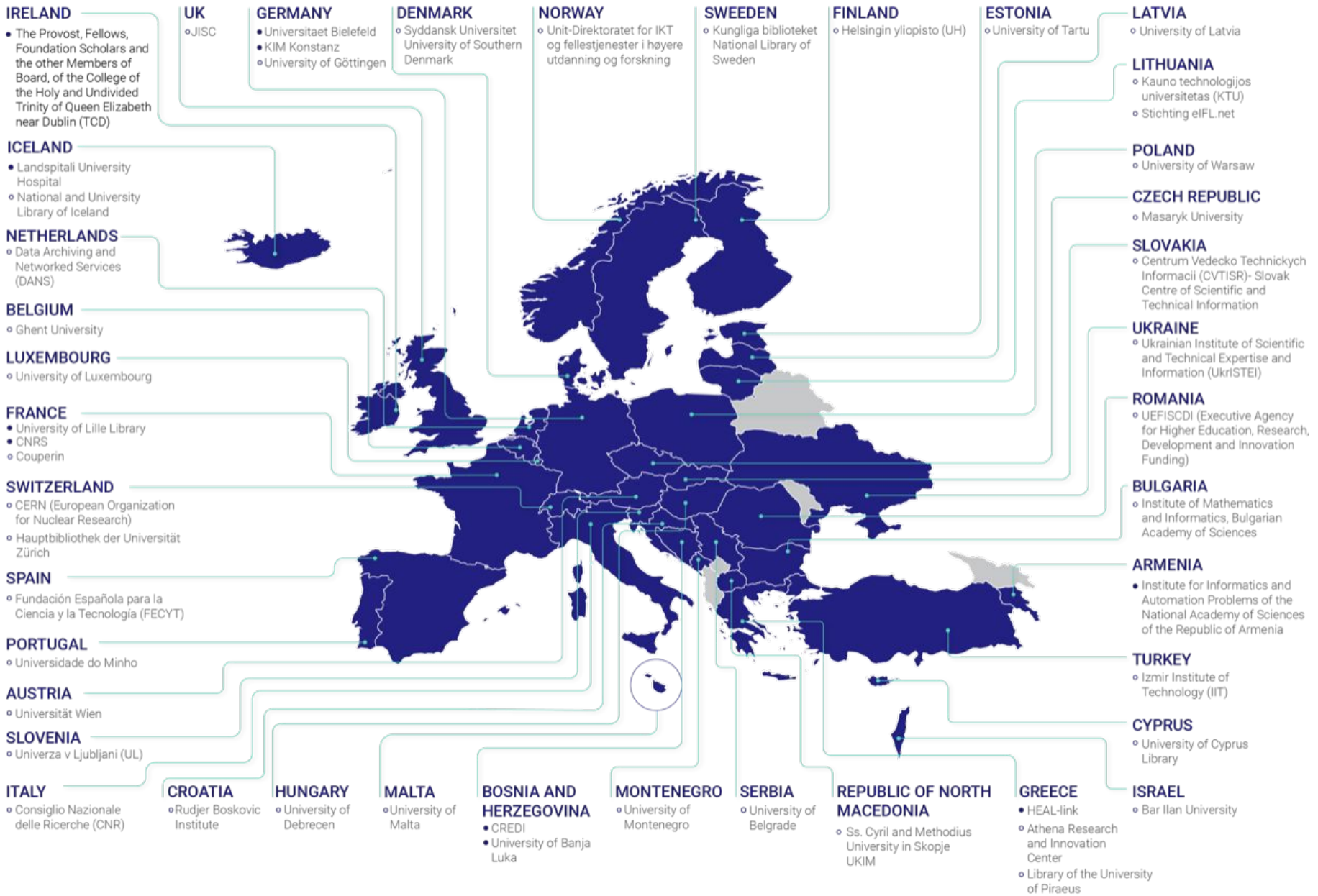
Projekt - Übersicht

- Laufzeit: 01. Januar 2021 bis 30. Juni 2023
- Fördersumme: 3.999.923,50 EUR
- Koordination: OpenAIRE AMKE, Griechenland
- Partner: CNR, UNIBI, CERN, ARC, UNIGÖ, ICM, UNIBO, CNRS, CITE, UMINHO

- Grant agreement ID: 101017452
 - Cordis: <https://cordis.europa.eu/project/id/101017452> ,
<https://doi.org/10.3030/101017452>

OpenAIRE AMKE - Netzwerk

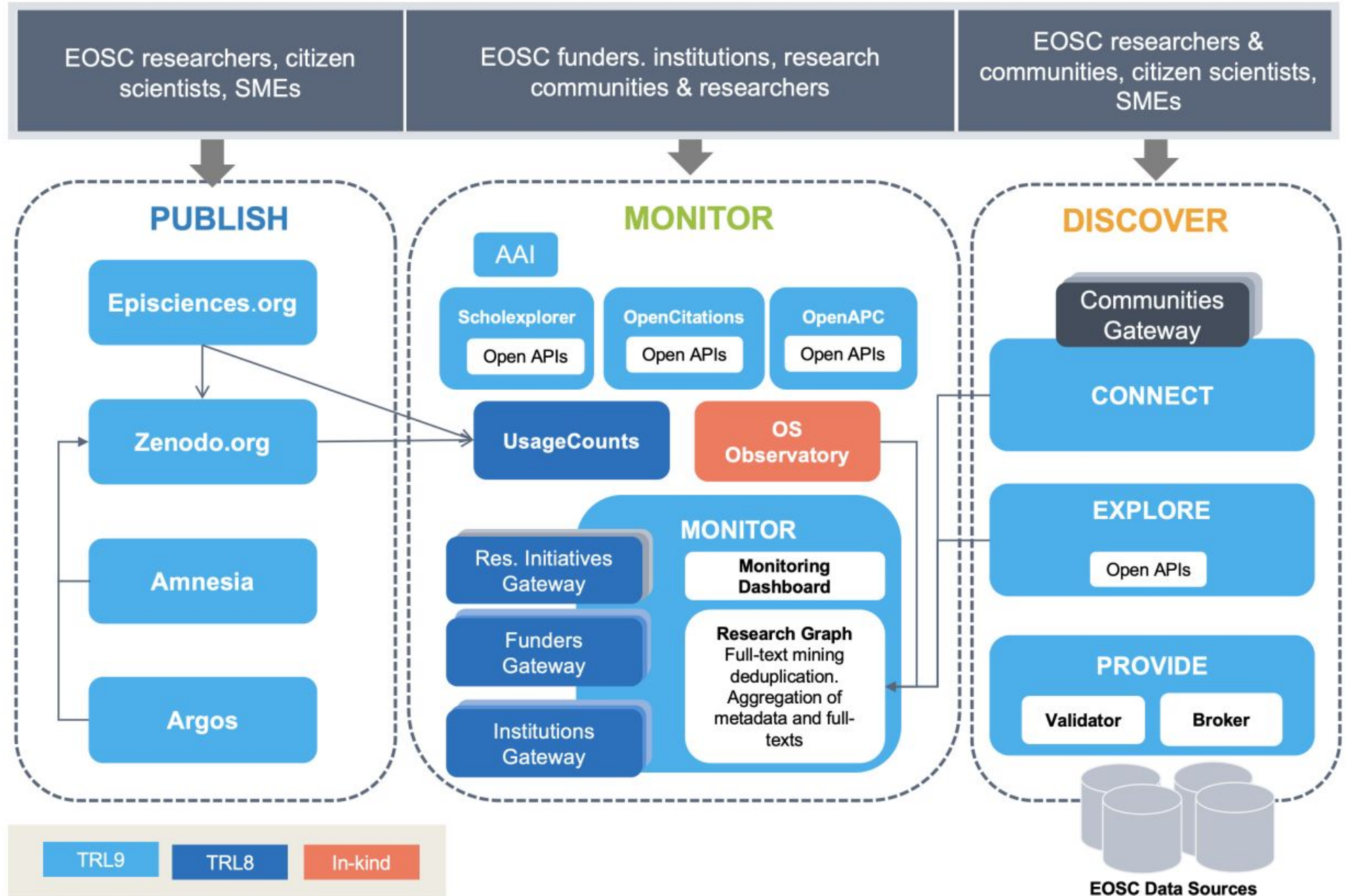
- ASSOCIATE MEMBERS
- REGULAR MEMBERS



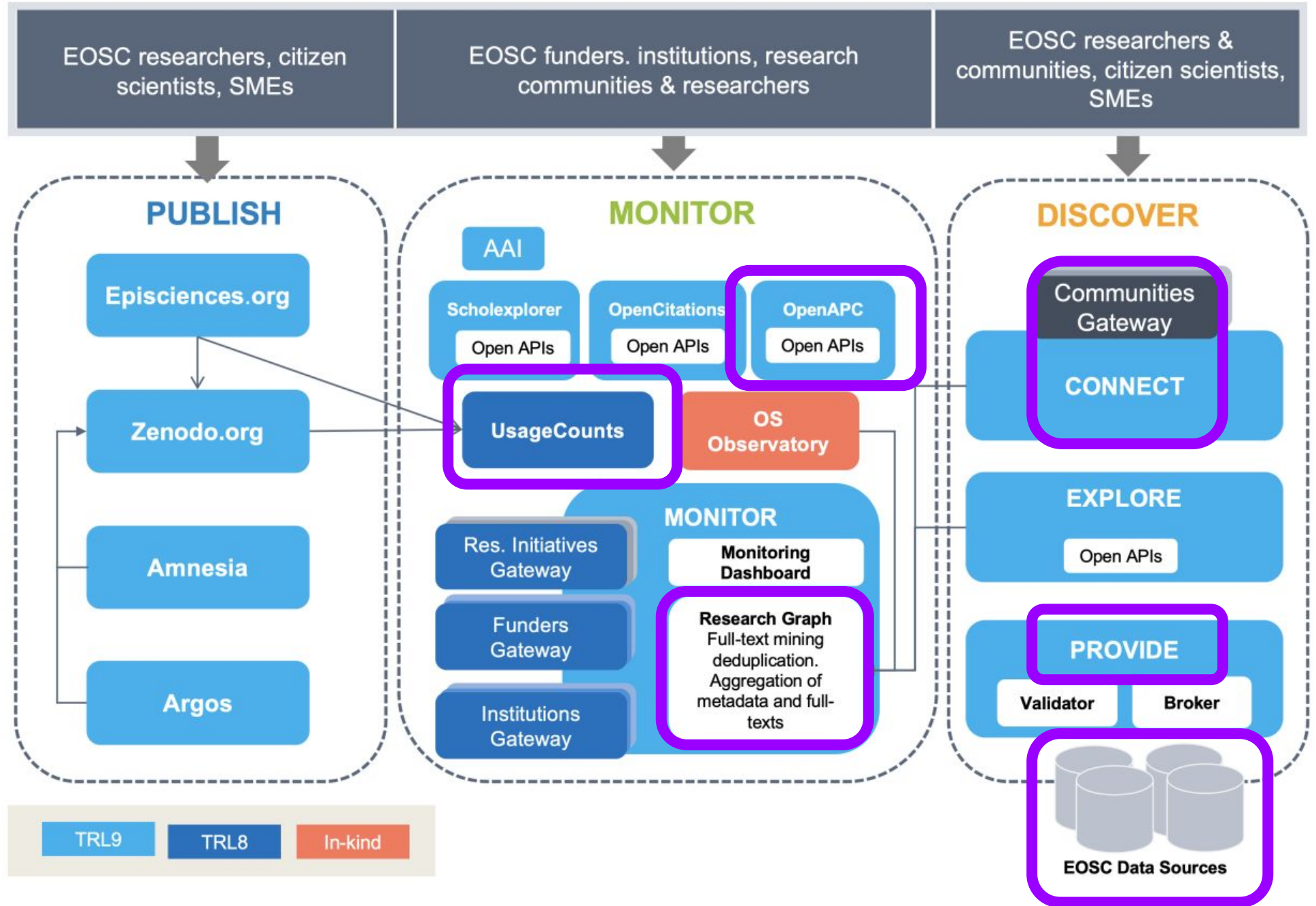
Projekt - Übersicht

Das EU-finanzierte Projekt "OpenAIRE-Nexus - Eine zugänglichere offene Wissenschaft" hatte zum Ziel, in der Welt der offenen Wissenschaft eine **faire, benutzerfreundliche und offene Kommunikation** sowie **Informationsweitergabe zu fördern**. Um Forschung zu unterstützen, müssen Inhalte und Informationen daher leicht zu finden und anzuzeigen sein. OpenAIRE Nexus stellte ein **Dienstportfolio** zusammen, das bei der **Veröffentlichung von Forschungsergebnissen, zum Monitoring ihres Impacts und zur Verbreitung** des neuen **Wissens** wesentlich **beitragen** kann. Diese in **Europa und darüber hinaus** bereits etablierten Dienstleistungen werden von öffentlich-rechtlichen Institutionen und Einrichtungen bereitgestellt. Ziel war es, dieses Portfolio in die **European Open Science Cloud (EOSC)** und die globale **offene Wissenschaftsgemeinschaft** einzubinden.

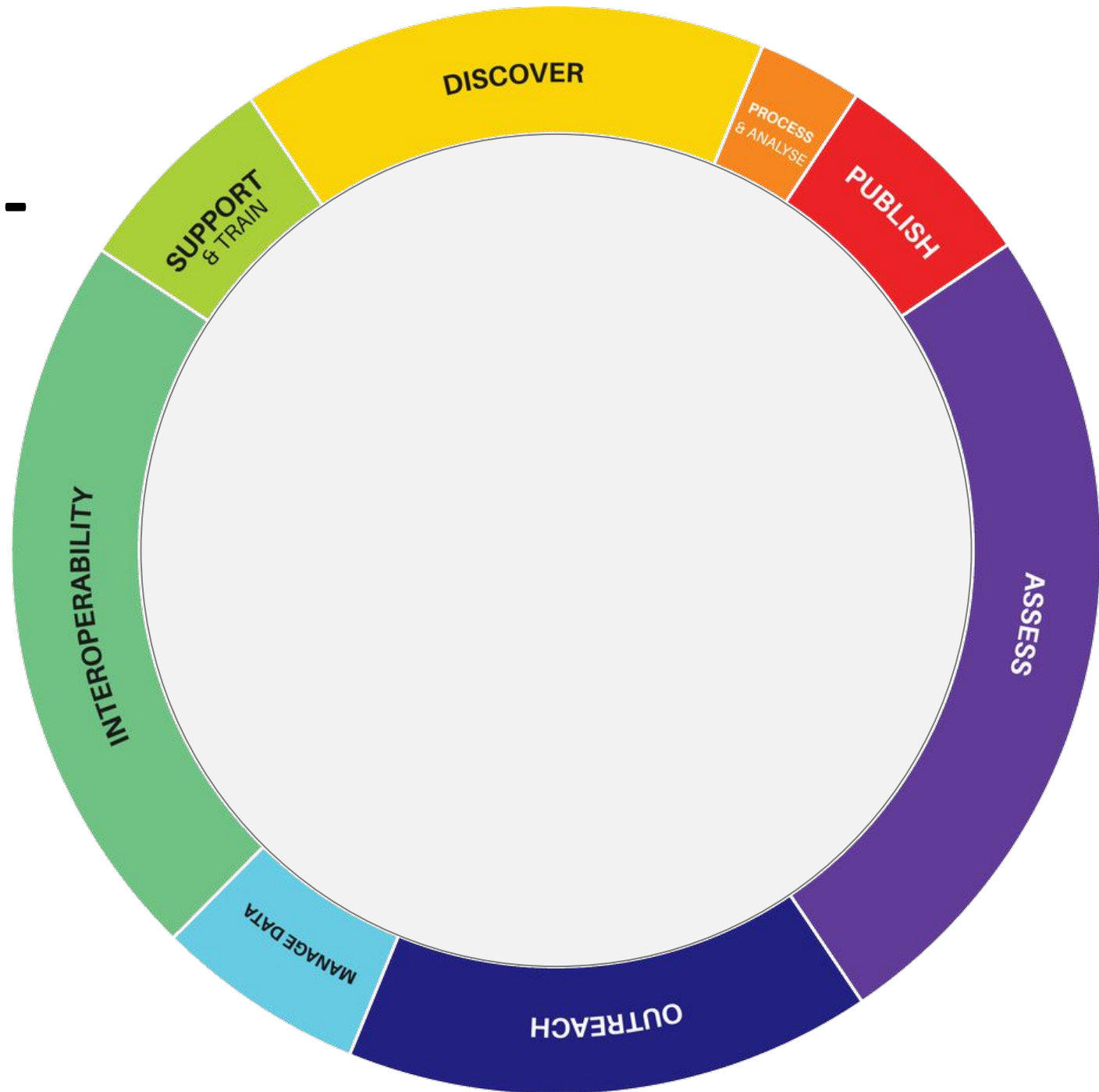
Projekt - Übersicht



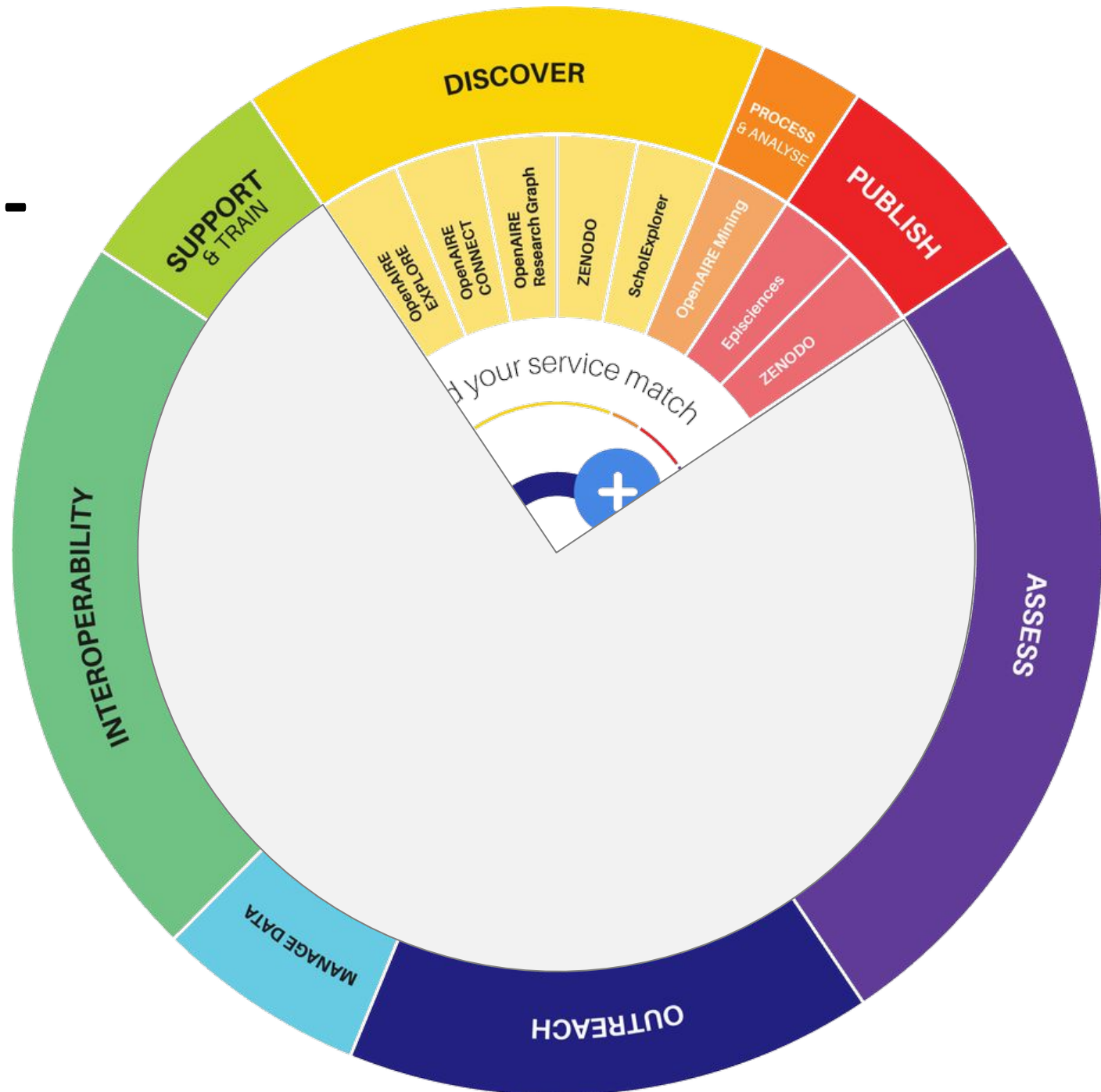
Projekt - Übersicht



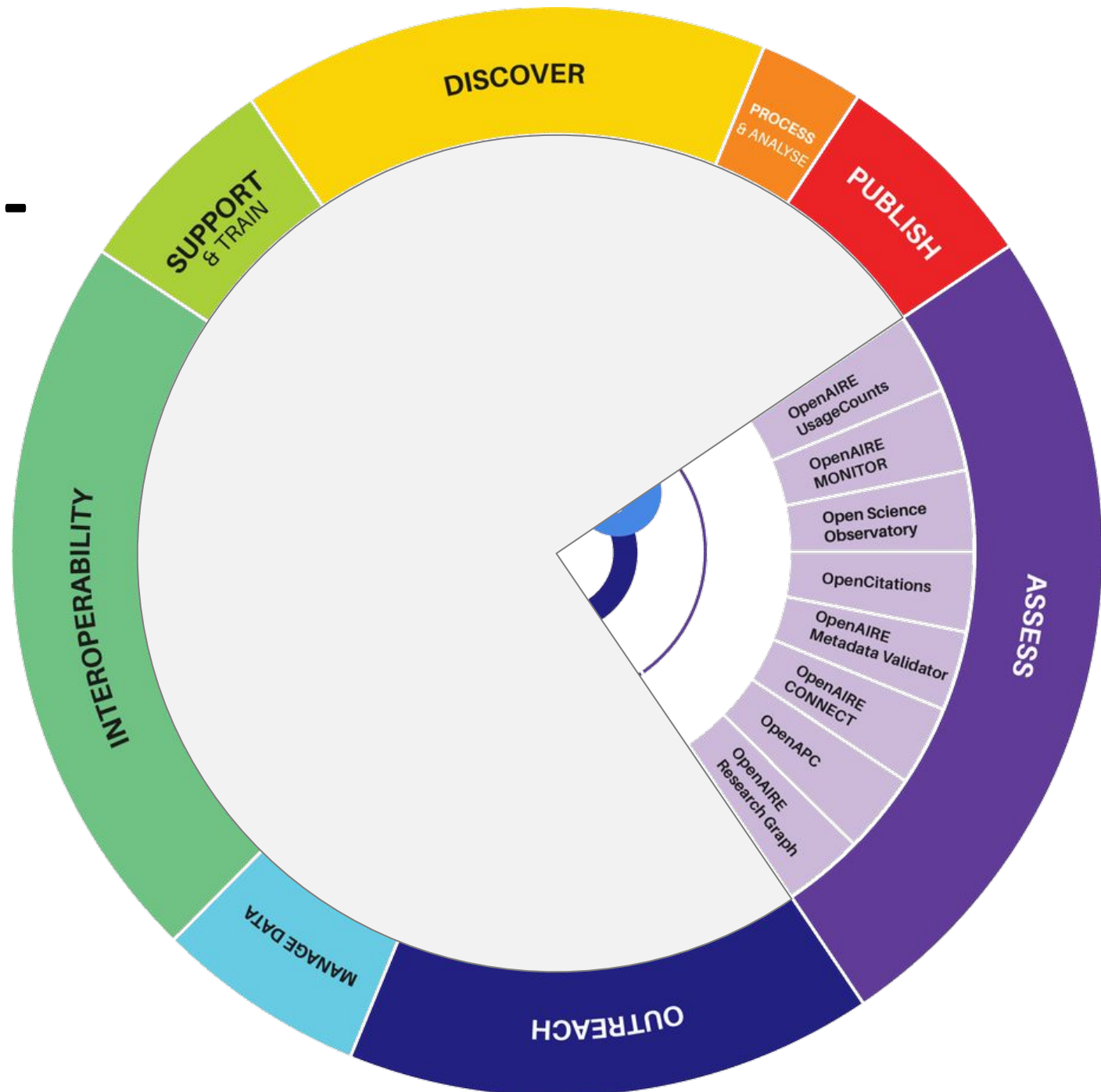
OpenAIRE Service - Übersicht



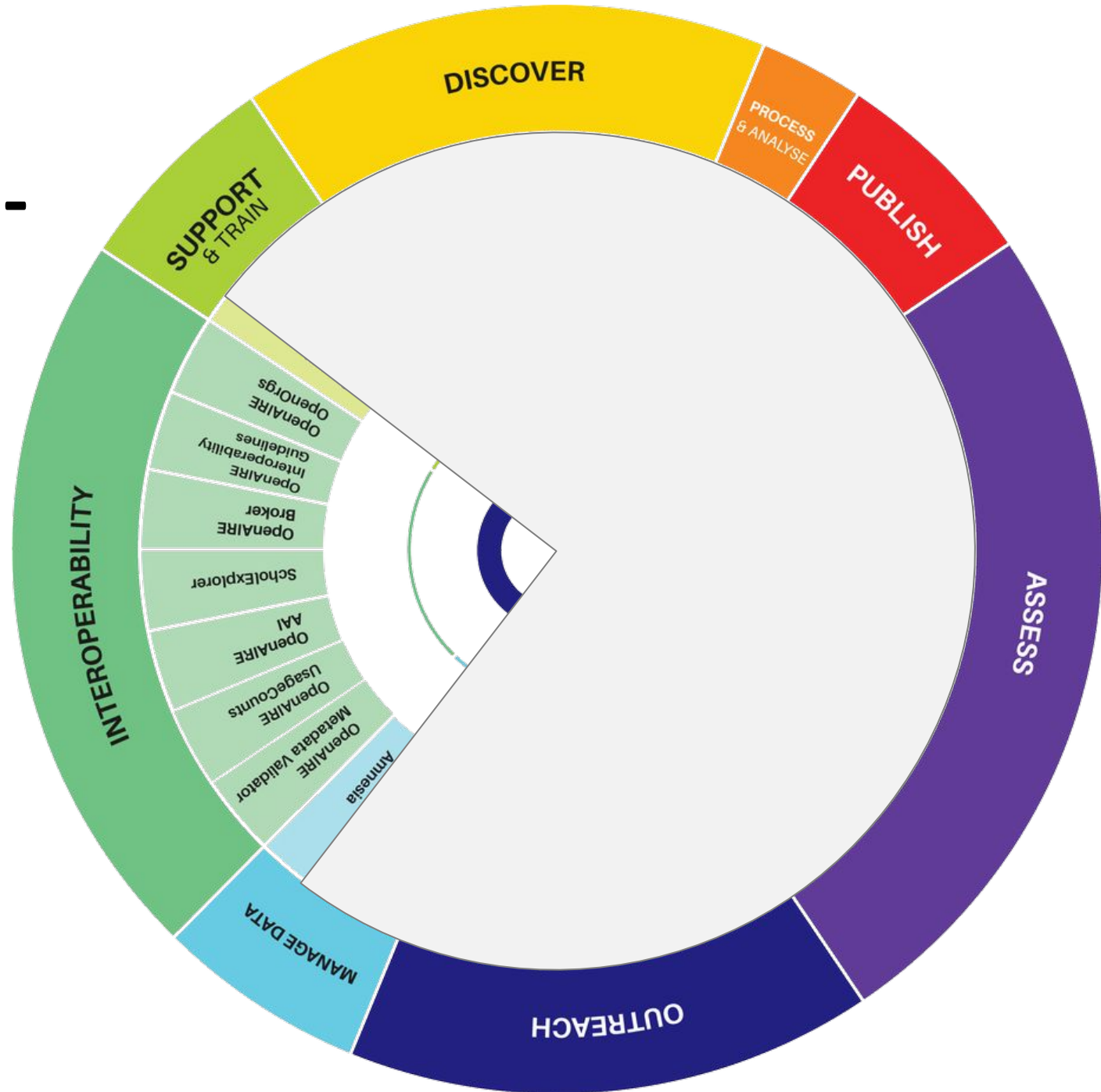
OpenAIRE Service - Übersicht



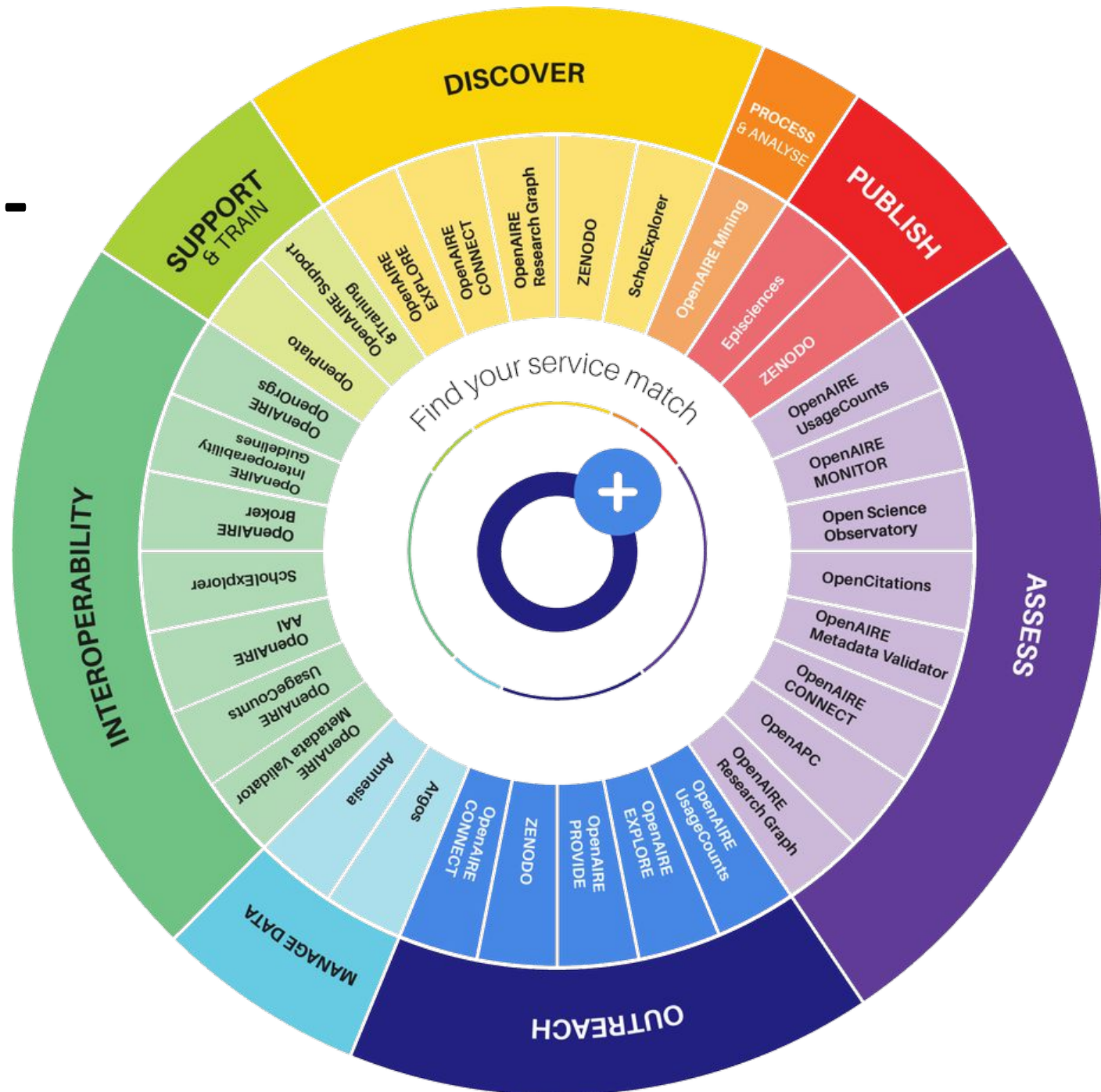
OpenAIRE Service - Übersicht



OpenAIRE Service - Übersicht



OpenAIRE Service - Übersicht

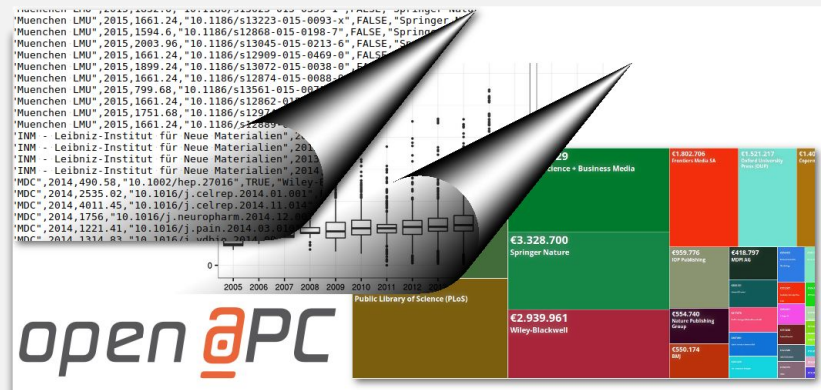




Arbeiten

und

Ergebnisse am Beispiel von OpenAPC

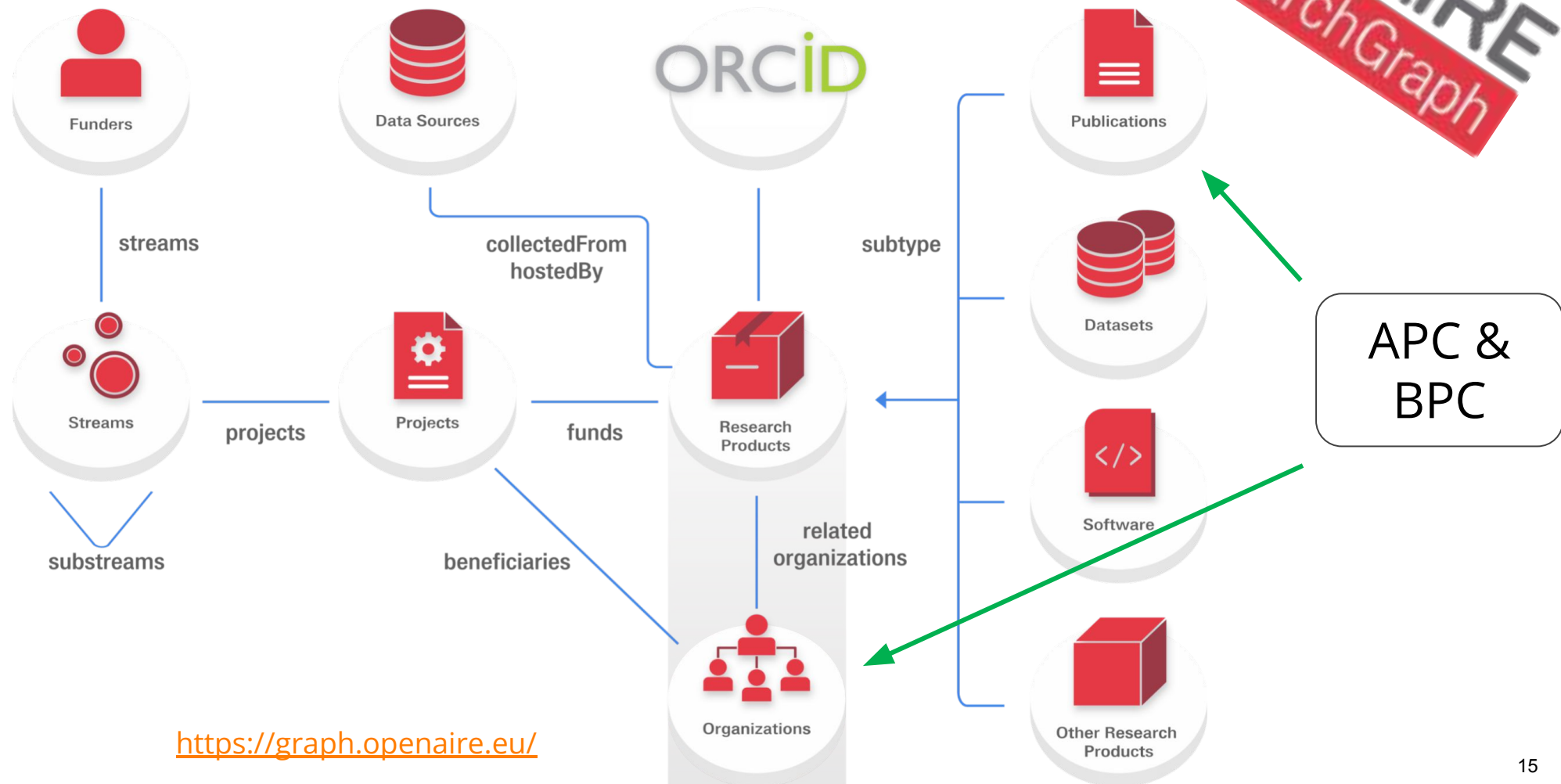


Schritte zu Beginn für jeden Service

- Erstellung eines Daten-Management-Plans (RDM) mit dem RDM-Tool *ARGOS* von OpenAIRE
- Schärfung der Indikatoren zur Beurteilung des Service
- Analyse von Wettbewerben
- Analyse des Services

Integration von Diensten in den RG

APC und BPC Daten sind mit den Organisations Identifikatoren (ROR, GRID) angereichert und werden mit den Artikeln und Organisationen verknüpft.



<https://graph.openaire.eu/>

Virtual Access Cost (VA)

Direct costs for **providing virtual access to the installation:**

- Personnel cost of administrative, technical and scientific staff directly assigned to the functioning of the installation and to the support of the users.
- Costs of contracts for maintenance and repair (including specific cleaning, calibrating and testing) specifically awarded for the functioning of the installation (if not capitalised).
- Costs of consumables specifically used for the installation.
- Costs of contracts for installation management, including security fees, insurance costs, quality control and certification, upgrading to national and/or EU quality, safety or security standards (if not capitalised) specifically incurred for the functioning of the installation.
- Costs of energy power and water supplied specifically for the installation.
- Costs of software licence, internet connection or other electronic services for data management and computing supplied specifically for the installation when they are needed to provide virtual access services.
- Costs of specific scientific services included in the access provided or needed for the provision of virtual access by the installation.

Key Performance Indicator - Definition

Service name: UsageCounts

KPI name	Definition
#APIrequests (Unit of Access)	Number of requests handled by publicly available APIs
#RepositoriesRegistered	Repositories registered in UsageCounts
#Uptime	Service availability, expressed as percentage value

Service name: OpenAPC

KPI name	Definition
#DataProviderInstitutions (Unit of Access)	Number of institutions providing the data
#APIrequests	Number of requests handled by publicly available APIs
#Uptime	Service availability, expressed as percentage value

Virtual Access Cost (VA)

Service name: OpenAIRE PROVIDE

KPI name	Definition
#DataSources (Unit of access)	Number of data sources covering institutional repositories only
#Repositories	Total number of repositories registered in OpenAIRE PROVIDE
#BrokeringEvents	Total number of brokering events which are expected to be consumed by subscribers
#Uptime	Service availability, expressed as percentage value

Key Performance Indicator - Werte

Service	KPI	Point of reference (Basis)	Success Target (% inc)	Initial value	Success Target value (M30)	M12 value	M24 value	M30 value
UsageCounts	#APIrequests (UoA)	649,779	115%	0	747,246	495,800	5,598,233 ⁵	8,945,126
UsageCounts	#RepositoriesRegistered	200	250%	0	500	436	506	563
UsageCounts	#Uptime				99,98%	100%	100%	100%
OpenAPC	#DataProviderInstitutions (UoA)	230	59%	0	136	93	152	163⁶
OpenAPC	#APIrequests	70,000	50%	0	35,000	33,795	148,016	261,008
OpenAPC	#Uptime				99,98%	100%	100%	99,99%

Key Performance Indicator - Werte

Service	KPI	Point of reference (Basis)	Success Target (% inc)	Initial value	Success Target value (M30)	M12 value	M24 value	M30 value
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PROVIDE	#DataSources (UoA)	150	153%	0	230	85	182	231
PROVIDE	#Repositories	189	153%	0	289	122	252 279 ³	351
PROVIDE	#BrokeringEvents	29,000,000	40%	8,481,089	20,081,089	24,803,631	13,921,850	14,668,384⁴
PROVIDE	#Uptime				99,98%	100%	100%	100%

Service :: Analysen

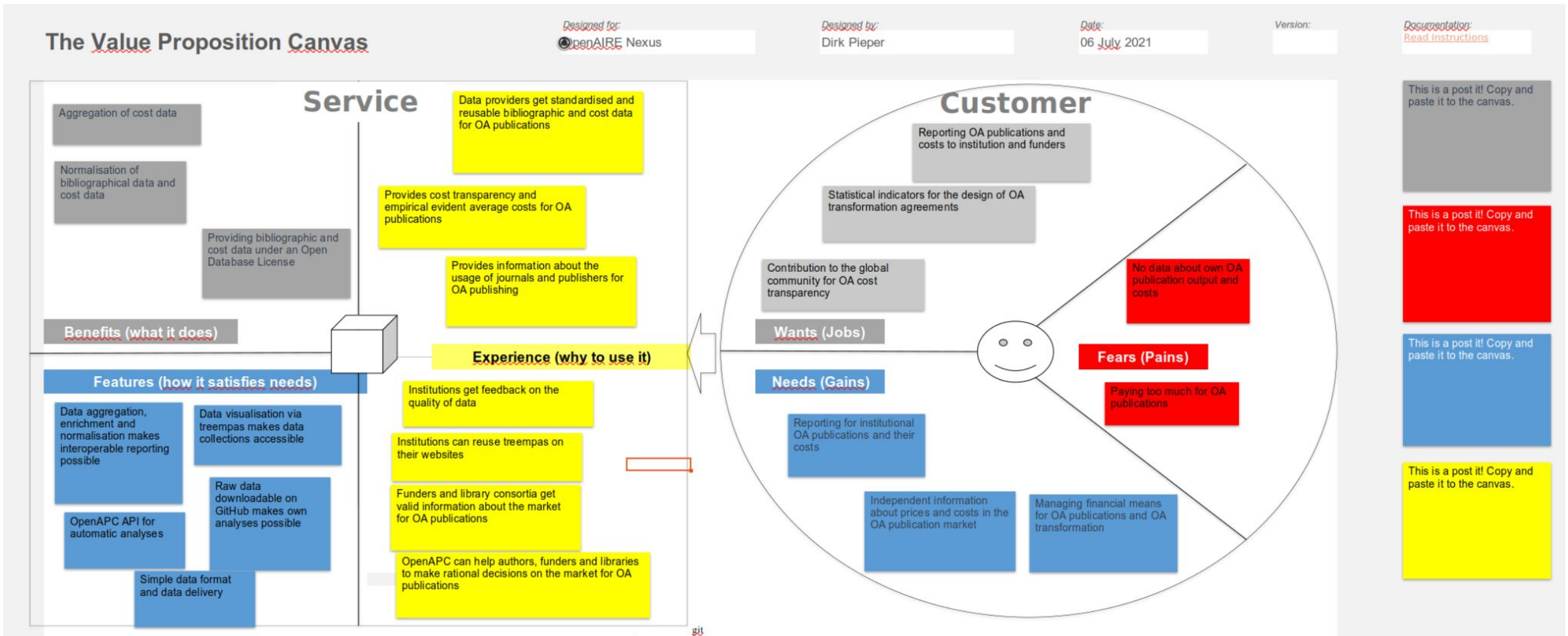
- **Wettbewerber Analyse**

- Namen, Webseite, Bereiche, Übereinstimmungen, Alleinstellungsmerkmale


- **Value Proposition Canvas (VPC)**


“Die *Value Proposition Canvas* ist ein Rahmenwerk, das dabei helfen kann, ein Produkt oder eine Dienstleistung so zu positionieren, wie es der Kunde schätzt und braucht.”

Service :: Value Proposition Canvas (VPC)



Service :: FactSheets


Services Factsheets
www.openaire.eu



**Article and Book Publishing Costs (APC and BPC):
cost transparency of Open Access publishing**

Factsheet for Institutions, Libraries and Funders

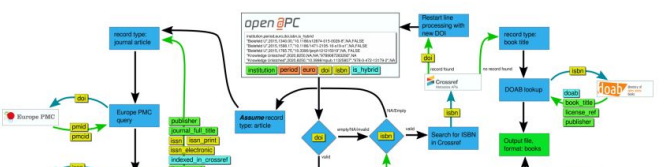
What is OpenAPC?

OpenAPC aggregates and normalises cost data and bibliographic data on open access journal articles, open access books and on articles published under transformative agreements. Because of the discrepancies between publisher price lists and actual costs for so called **article processing charges (APC)** and **book processing charges (BPC)**. **OpenAPC** is based on voluntary and regular data submissions from libraries and library consortia, academic institutions and research funders. The data sets are made available since 2014 under the Open Database License:
<http://opendatacommons.org/licenses/odbl/1.0/>.

The idea

Regarding steadily increasing expenses for open access publishing cost transparency is a means to prevent overpayments and to limit expenses in the future. **OpenAPC** demonstrates how reporting on fee-based open access publishing can be made more transparent and reproducible across publishers, journals and institutions. **Data providing institutions** are getting feedback on the quality of their data and independent information about the market for fee-based open access publishing.

How it works?



OpenAPC data delivery, normalization and enrichment workflow for journal articles and books.

A very minimal set of information about the workflow is provided in the diagram.

OpenAIRE Services Fact sheets

with all the necessary information about the main OpenAIRE services, and how to use their functionalities to easily adopt Open Science.

Graph



Unlock the power of open science data

Unlock the power of open science data

Updated!

1st version | 2nd version

[View →](#)

Explore



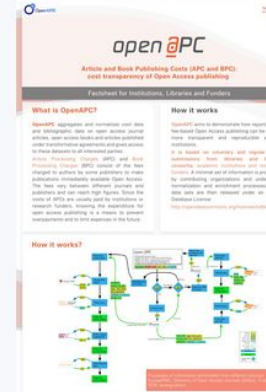
Discover open linked research.

Discover open linked research

New!

[View →](#)

OpenAPC



Aggregating, normalising and disseminating data on APC and BPC expenditures

Aggregating, normalising and disseminating data on APC and BPC expenditures

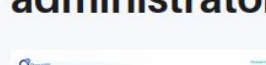
New!

[View →](#)

Episciences




Argos: for administrators





OpenCitations




Service :: Poster









**Cost transparency of Open Access Publishing:
Article and Book Publishing Costs**

Facts for Institutions, Libraries, and Funders

What is OpenAPC?

OpenAPC aggregates and normalises cost data and bibliographic data on open access journal articles, open access books and on articles published under transformative agreements.

OpenAPC is based on voluntary data submissions from libraries and library consortia, academic institutions and research funders. The data sets are made available under the Open Database License:

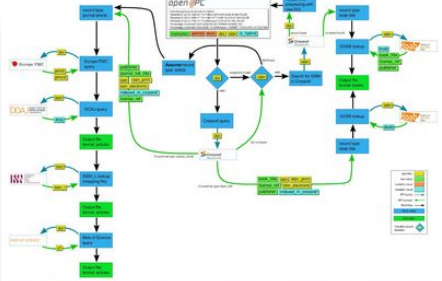
<http://opendatacommons.org/licenses/odbl/1.0/>

The idea

Publisher list prices for **Article Processing Charges (APC)** and **Book Processing Charges (BPC)** may differ from actual paid costs. At the same time, steadily increasing expenses for Open Access publishing require solid data on expenditures to prevent overpayments and to limit expenses in the future.

OpenAPC demonstrates how aggregating data on fee-based open access publishing as a community-based effort can lead to transparent and reproducible cost data across publishers, journals and institutions.

Workflows




OpenAPC data delivery, normalisation and enrichment workflows for journal articles and books. A minimal initial set of information is needed to bootstrap the process.

Which OpenAIRE services use OpenAPC?

OpenAPC data is fully embedded in the OpenAIRE Research Graph <https://graph.openaire.eu/> and we use it in constructing open science indicators in our **MONITOR Dashboard** <https://monitor.openaire.eu/> (for funders and institutions) and in the Open Science Observatory portal <https://osobservatory.openaire.eu/>.

Already EOSC onboarded

Since 2021, OpenAPC is registered as a service/resource in the EOSC marketplace.

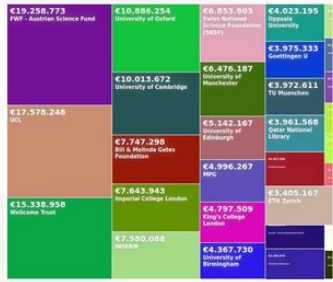


For Institutions/Libraries/Funders

- Getting reports on Open Access publications and costs
- Tracking development of costs for OA publishing over time
- Leverage OpenAPC data when negotiating publication charges
- Reuse enriched OpenAPC data and integrate treemap visualisations into institutional sites.

Notable features

- Simple data format and workflows for data providers.
- Automated data reports for participants, meant to help finding possible errors in the contributed data.
- Detailed analyses of contributed data in the OpenAPC project blog.
- Automated testing routines ensure metadata consistency.
- Treemap-based data visualisations for interactive data exploration.
- Raw data sets made available on GitHub.



€19,258,773 DFG - Deutsche Forschungsgemeinschaft	€10,886,254 University of Cologne	€6,933,903 British Academy	€4,023,195 University of Bonn
€10,013,672 University of Cambridge	€6,476,187 University of Manchester	€3,972,611 TU Muenchen	€3,975,333 Leibniz Universität Göttingen
€17,578,248 DFG	€5,142,167 University of Edinburgh	€3,961,368 Spain National Library	€4,797,509 Linköping University
€7,747,298 DFG - Deutsche Forschungsgemeinschaft	€4,996,267 DFG	€3,405,187 DFG	€15,338,958 DFG
€7,643,943 Imperial College London	€7,589,088 DFG	€4,367,730 University of Birmingham	

<https://OpenAPC.net> Follow us @open_apc

OpenAPC @ GitHub: <https://github.com/OpenAPC/>
Citable and latest release: doi.org/10.5281/zenodo.6883472

Learn more
Guide - <https://www.openaire.eu/guides>
Webinar - https://youtu.be/Ez_nIs0HN1k
Visualizations - <https://treemaps.openapc.net/>

Andreas Czerniak, Dirk Pieper, Christoph Broschinski,
Julia Bartlewski, Jochen Schirrwagen

Service :: Podcasts

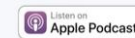


PUBLISHED ON MAY 09, 2023

Successful Research Data Management: Integrating Technology and Human Expertise

Effective Research Data Management is the cornerstone of research not only for researchers but for funders and institutions as well. Due to national and European standards, development and delivery of a Data Management Plan (DMP) at the very start of a project or at times even before the project starts is essential (or even mandatory in some cases, e.g., Horizon Europe funded projects) for all research input and output. In this episode, our training experts Venkat and Jonathan provide insights on why DMPs are crucial steps in the research lifecycle while Elli, Argos's service Manager, explains how OpenAIRE tools and services can support researchers and research support staff to write and deliver effective DMPs and how, ultimately, funders and research performing organisations can benefit from its adoption.

Speakers: Elli Papadopoulou, Shanmugasundaram Venkataraman, Jonathan England



Series: Open Science and OpenAIRE for Institutions | Open Science and OpenAIRE for funders | Open Science and OpenAIRE for researchers | General



PUBLISHED ON APRIL 25, 2023

Unleashing the Power of Research: How Repositories Fuel Open Science

In today's scientific workflow, one of the key ways to unlock the full potential of research is by archiving publications, data, software, and other research outputs in dedicated infrastructures known as "repositories." In this episode, we explore the benefits of depositing your work in a repository, and how this practice can become a crucial pillar of support for Open Science.

To give us a comprehensive overview of this topic, we have invited Andreas Czerniak and Pedro Principe, who provide insights into the OpenAIRE Guidelines and the OpenAIRE Provide service. Additionally, Kathleen Shearer offers her expertise on the global repository landscape.

Speakers: Kathleen Shearer, Pedro Principe, Andreas Czerniak



Series: Open Science and OpenAIRE for RIs



PUBLISHED ON MARCH 27, 2023

Jack of all trades: the contribution of the OpenAIRE Graph

Open Science is a multifaceted term that encompasses various research practices. It involves more than just publishing a manuscript or making data available. In this episode, Paolo Manghi and Pedro Principe will provide insights into OpenAIRE's flagship service, the Graph. Find out what makes OpenAIRE Graph so unique, and how you can use it to unlock the power of open science data and enter a world full of opportunities.

Speakers: Paolo Manghi, Pedro Principe

Service :: V

Service :: MONITOR

OpenAIRE | MONITOR

[Browse Dashboards](#) [Resources](#) [Support](#) [About](#)

Search OpenAIRE Monitor Dashboards

Filters

Type (3)

- Funders (22)
- Research Initiatives (5)
- Research Institutions (36)

Accessibility (3)

- Public (12)
- Restricted (51)
- Private (0)


Role (2)

- Manager (1)
- Member (1)

63 Dashboards

Results per page: 10 | Sort by: Name


1 2 3 4 5 >



Academy of Finland (AKA)

Creation Date: 28-11-2020
Type: Funder

Restricted



Arts et Métiers Institute of Technology

Creation Date: 19-01-2023
Type: Research Institution

Restricted

- Overview
- Overview
- Funding
- Research Output
- Open Science
- Collaborations
- Impact

Filter

Type (3)

- Funde
- Resea
- Resea

Access

- Public
- Restr
- Privat

Role (2)

- Manag
- Memb

Production

Publications

94.363

Datasets

419

Software

13

Other Research Products

365



Project Participations

136

EC Project Participations

130

Project Participations

Filter

Type (3)

- Funde
- Resea
- Resea

Access

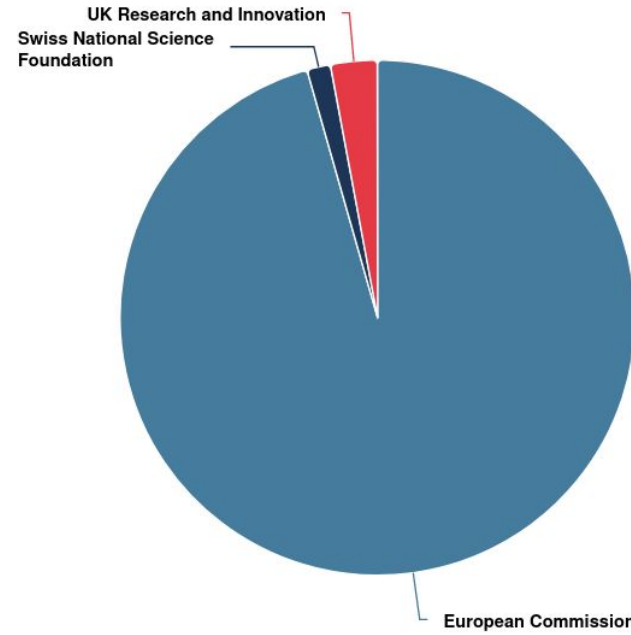
- Public
- Restr
- Privat

Role (2)

- Manag
- Memb

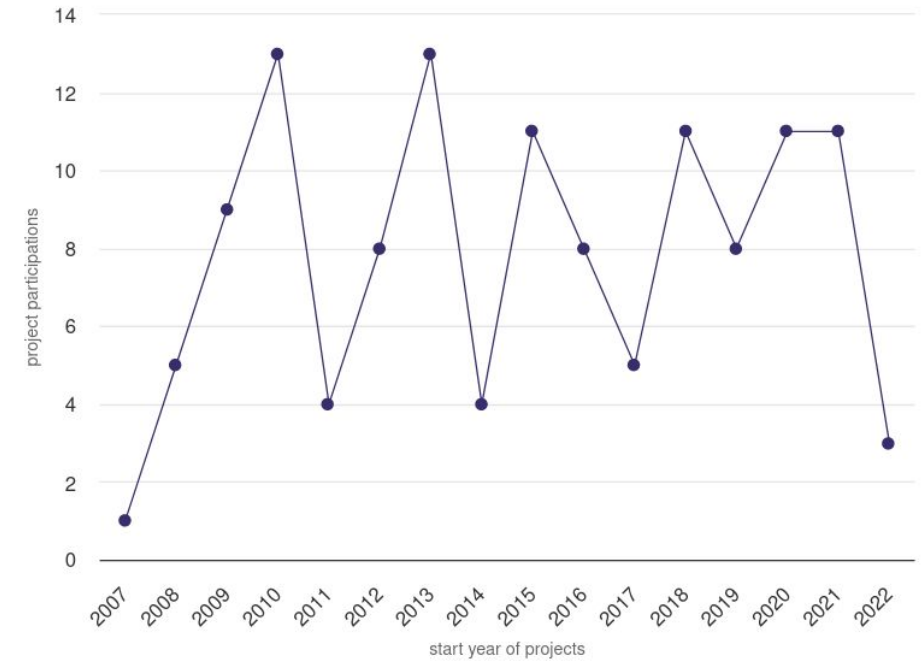
Project participations

by funder



Project Participations


over time




● All ● Peer-reviewed ● Grant-supported

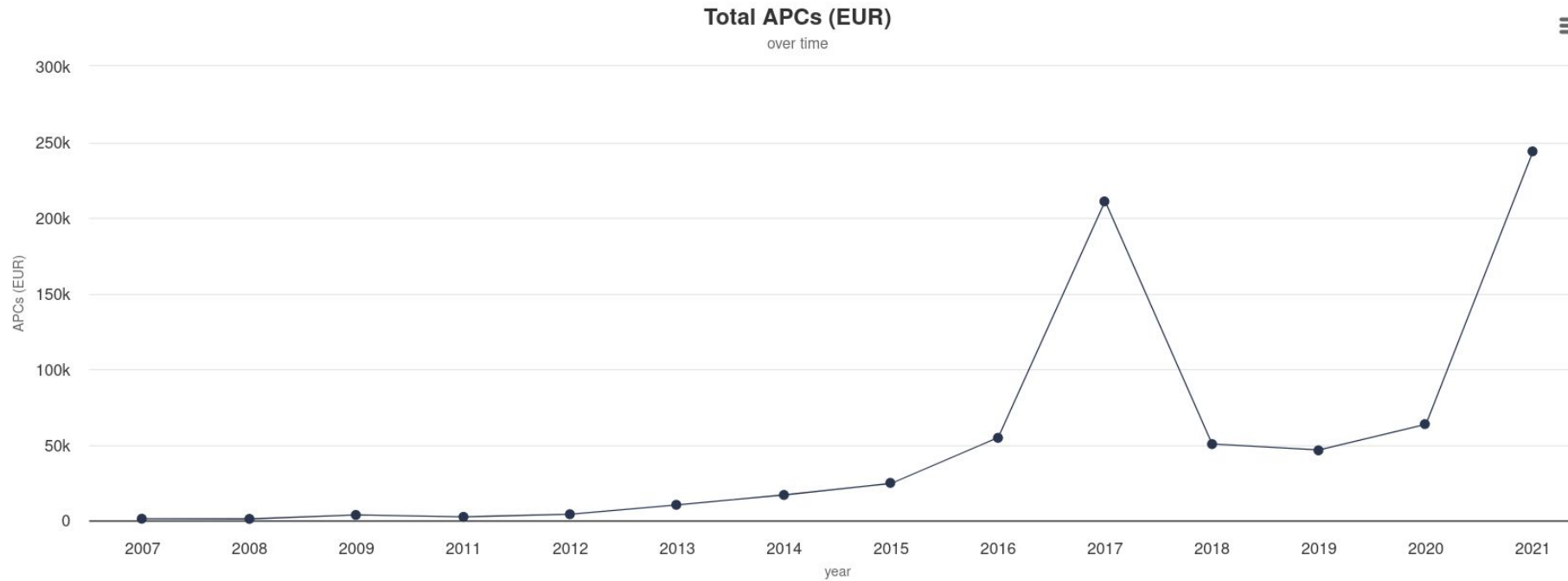
Total APCs (EUR)
733.461,421

Total Publications
94.363

Publications with reported APCs 
232

APCs (EUR) for all affiliated public... 
733.461,421

APCs reported by the institution in OpenAPC



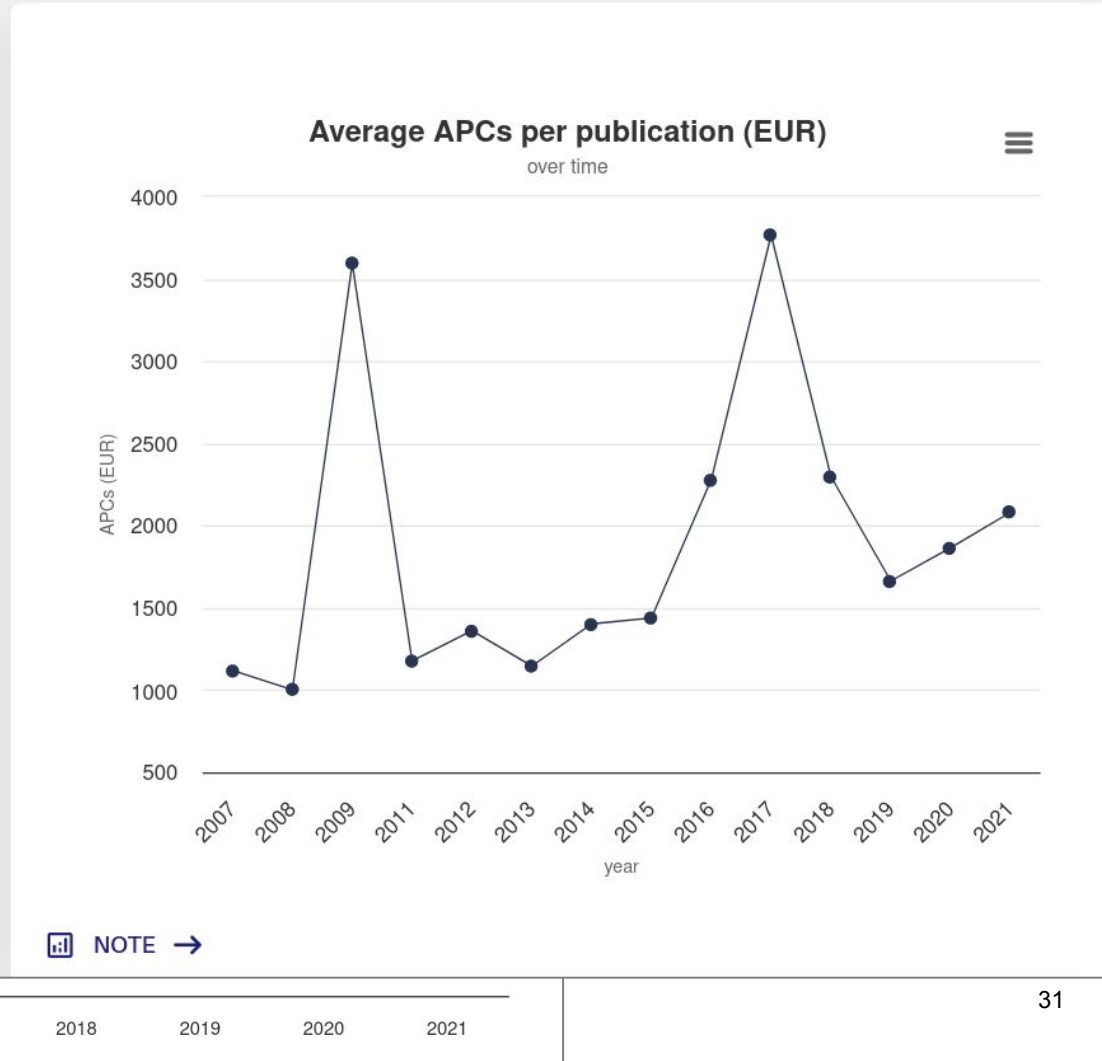
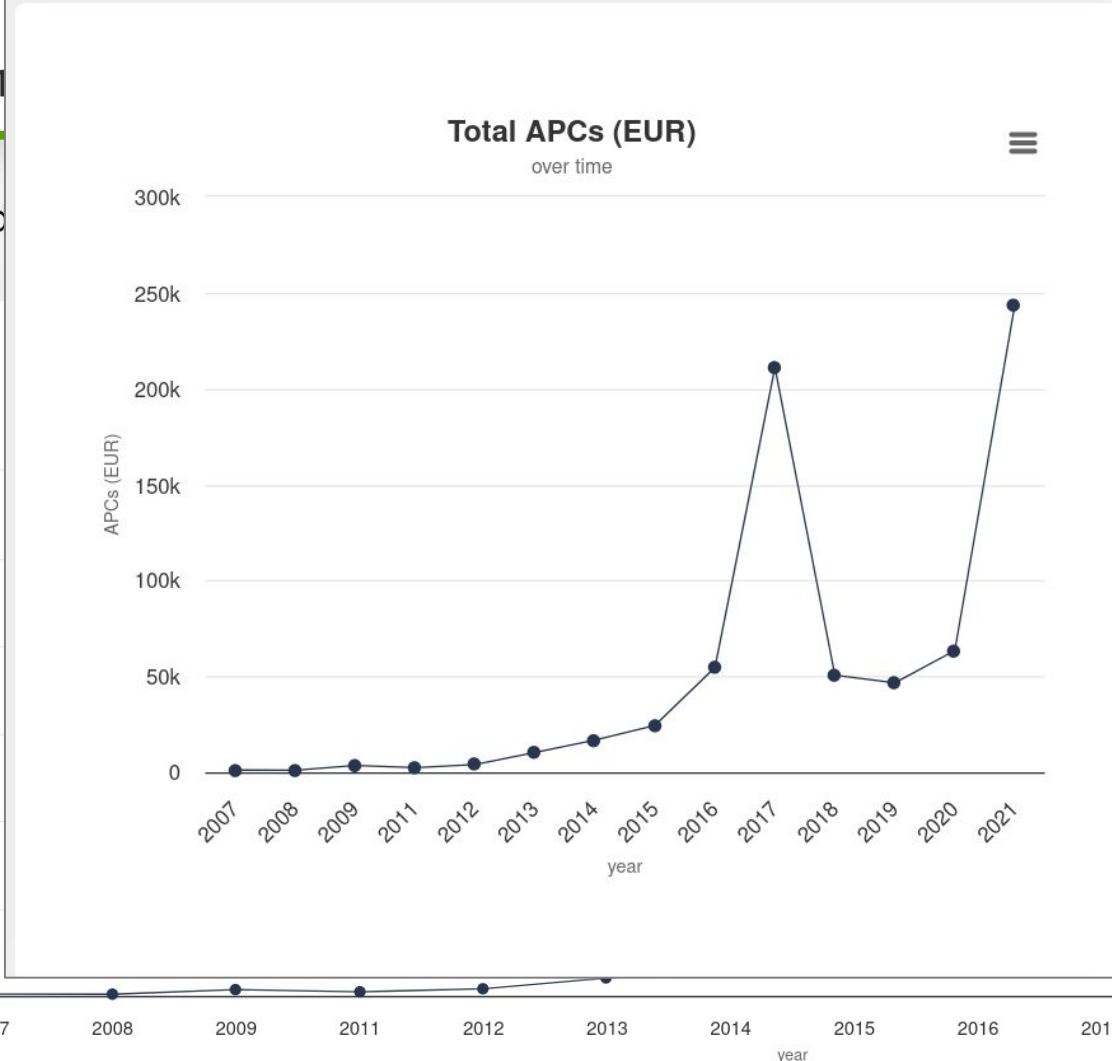
OPEN ACCESS

APCs reported by the institution in OpenAPC + APCs for publications with an affiliated co-author (APCs not paid by the institution)

Total APCs (EUR)

733.461,421

APCs reported



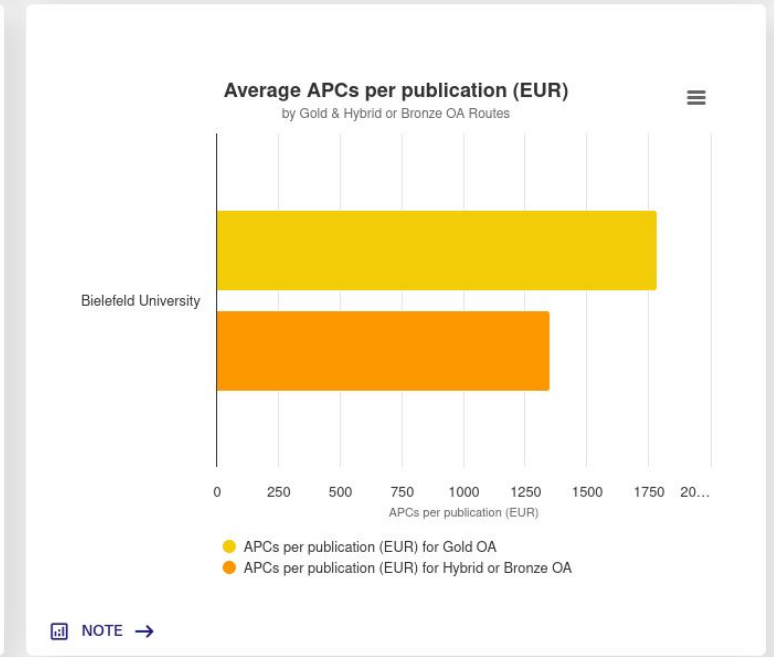
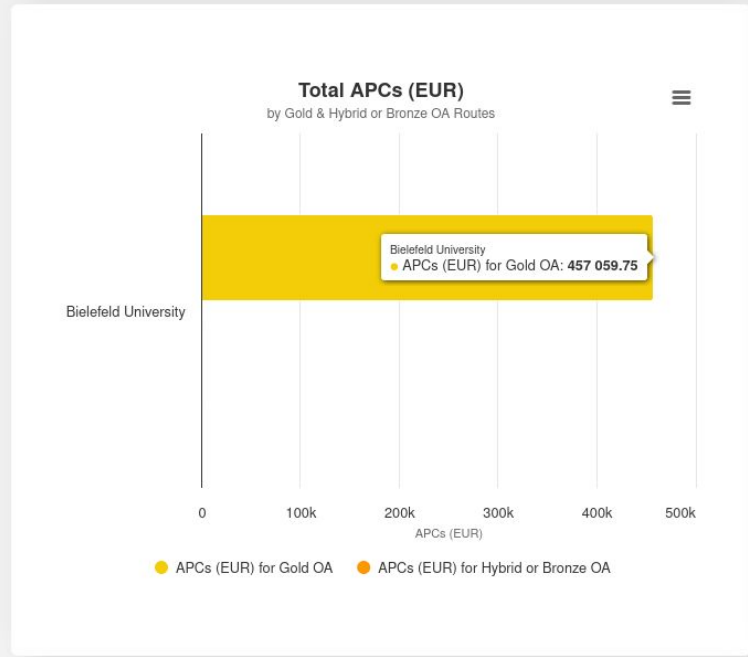
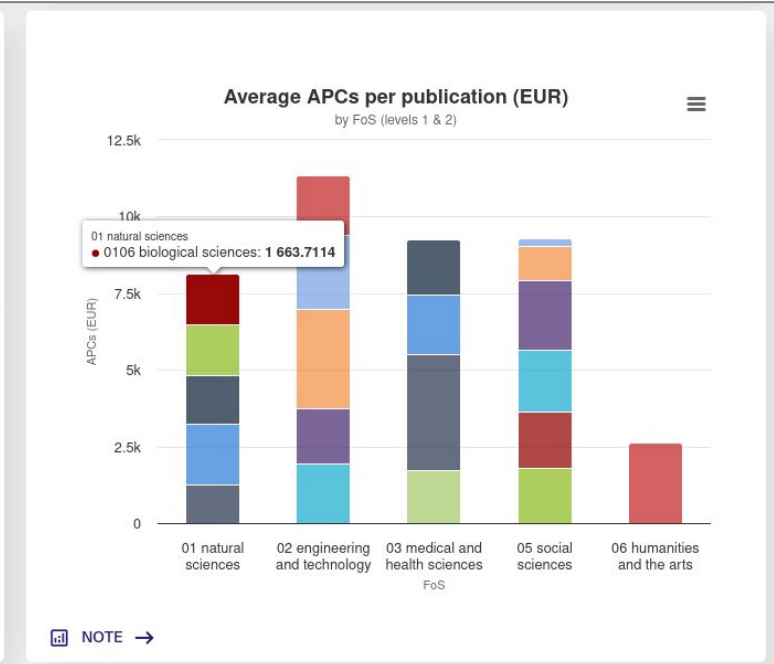
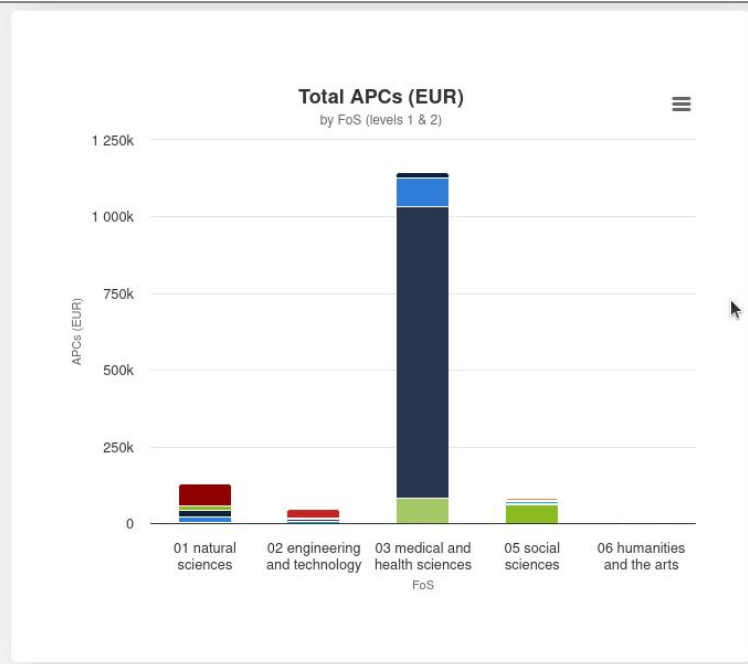
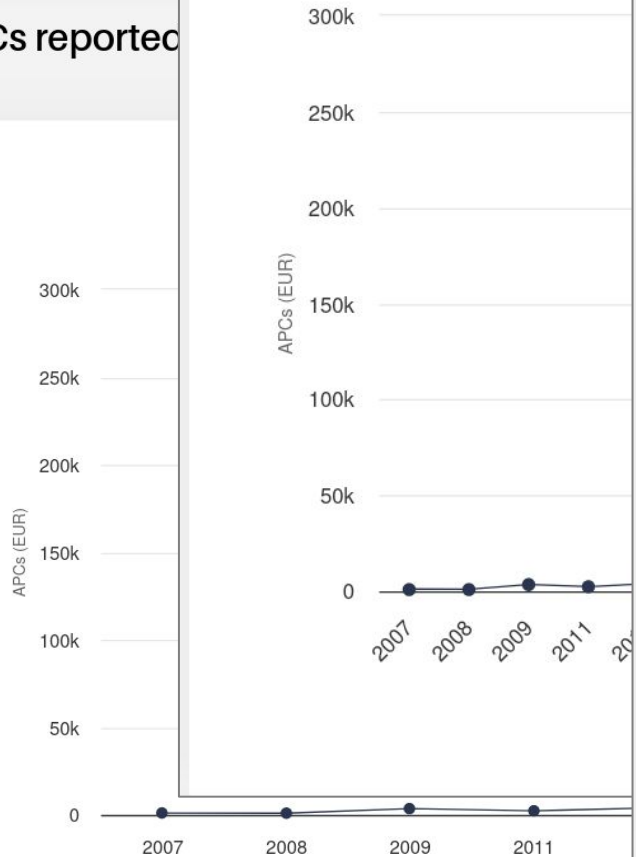
NOTE →

OPEN ACCESS

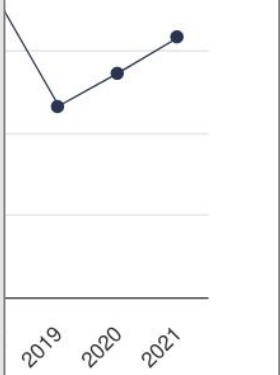
APCs reported by the institution

Total APCs (EUR)
733.461,421

APCs reported



APCs not paid by



Community Einbindung - Webinare :: OpenAPC

- October, 6th 2021
 - post: <https://www.openaire.eu/item/openapc-making-costs-of-open-access-publishing-transparent-in-the-eosc-2>
 - recording: https://youtu.be/Ez_nIsoHN1k?t=241
 - slides: <https://doi.org/10.5281/zenodo.5552910>
 - participants: 91
- April, 4th 2023
 - post: <https://www.openaire.eu/item/openapc-open-minds-towards-transparent-publication-fees>
 - recording: <https://youtu.be/E5RhSmxCcLc>
 - slides: <https://doi.org/10.5281/zenodo.7802410>
 - participants: 171

FAIR - Community

- Analyse der *RDA FAIR Data Maturity Model: specification and guidelines* (<https://doi.org/10.15497/RDA00050>).
- Adaption der *FAIR Data Maturity Specifications* auf nicht **Datensätze**.
- Entwicklung des prototypischen FAIR-Validator für OAI-PMH Endpunkte, nicht beschränkt auf Datensets, im OpenAIRE PROVIDE Dashboard zur Assistenz der Repositorien Manager (<https://doi.org/10.5281/zenodo.5541133>).
- *FAIR Assessment Tools: Towards "Apples to Apples" Comparisons* mit Mark D. Wilkinson
- Report über die Adaption der RDA FAIR DMM Spezifikation und Evaluierung der *OpenAIRE Guidelines for CRIS Managers v1.1.1*
 - *Compliance of the OpenAIRE Guidelines for CRIS Managers v1.1.1 with the FAIR Principles* (<https://doi.org/10.5281/zenodo.6627246>)

Guidelines for CRIS Managers - Aktualisierung

- List of changes in the 1.2.0 version (since 1.1.1) <https://doi.org/10.5281/zenodo.8050936>
 1. The **Medium** CERIF entity is brought into the profile to represent locations of files. It is never used as a top-level entity, so it does not have its own OAI-PMH set. ([#59](#))
 2. The **COAR Resource Types** controlled vocabulary is upgraded to Version 3.1. ([#99](#) and [#143](#))
 3. The **COAR Access Types** controlled vocabulary is upgraded to Version 1.0. ([#86](#))
 4. Support for generic **Person Identifier:s** is added. ([#91](#))
 5. Some constraints in structured **Person Identifiers:s** were expanded. ([#146](#) and [#154](#))
 6. Support for structured **OrgUnit Identifiers:s** is added. ([#64](#))
 7. The meaning of date fields in **Patent:s** is clarified. ([#88](#))
 8. ZDB-ID is added among structured identifiers for **Publication:s** ([#66](#))
 9. GrantDOI is added as a structured identifier for **Funding**.
 10. Unmanaged entities are allowed without an **Internal Identifier** attribute. ([#56](#))
 11. The `xml:lang` attributes are no longer required. ([#61](#))
 12. DataCite Metadata Kernel *Dates* are supported in the **Product** ([#84](#)) and **Medium** ([#150](#)) entities with a common *DatesStructure__Group*.
 13. The use of *SPDX License* URIs is recommended. ([#134](#))
 14. The rules for constructing the OAI identifiers have been relaxed ([#126](#), [#85](#))
 15. Examples were added, documentation has been improved. ([#65](#), [#83](#), [#88](#), [#97](#))
 16. Other minor extensions and cleanup. <https://github.com/openaire/guidelines-cris-managers/>
- Unterstützung der aktualisierten Guidelines im Validator , v2.0.0
<https://github.com/EuroCRIS/openaire-cris-validator>



Abschluss

eine kurze Zusammenfassung



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- Key Performance Indikatoren (KPIs) wurden erreicht.
- Festlegung der Zielgruppen und direkte Ansprache.
- Erweiterung des Präsentations-Material für die Dienste
- Integration der neuen Dienste in das OpenAIRE Kern-Produkt, dem *OpenAIRE Research Graph* der einer der Kern-Komponenten von der **European Open Science Cloud** ist.
- Förderung der FAIRen Informations-Weitergabe.

Herzlichen Dank an die
UB-Kolleg:inn:en für die
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