

# OpenAIRE2020

A pan-European Open Scholarship Initiative

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# Agenda

- **Begriffsklärung und Einordnung**
- **Rückblick**
- **Motivation**
- **Umfang und Aufgaben in OpenAIRE2020**
- **Rolle der UB im Projekt**
- **Mehrwert für die Universität**



# **BEGRIFFSKLÄRUNG UND EINORDNUNG**

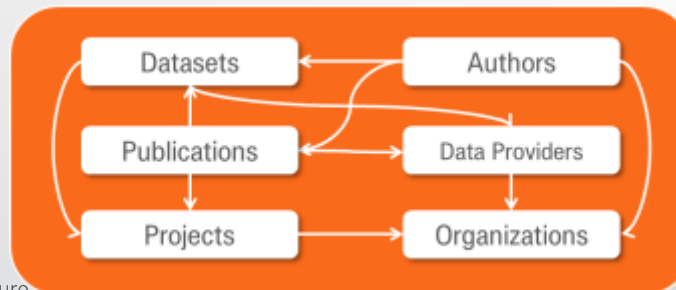




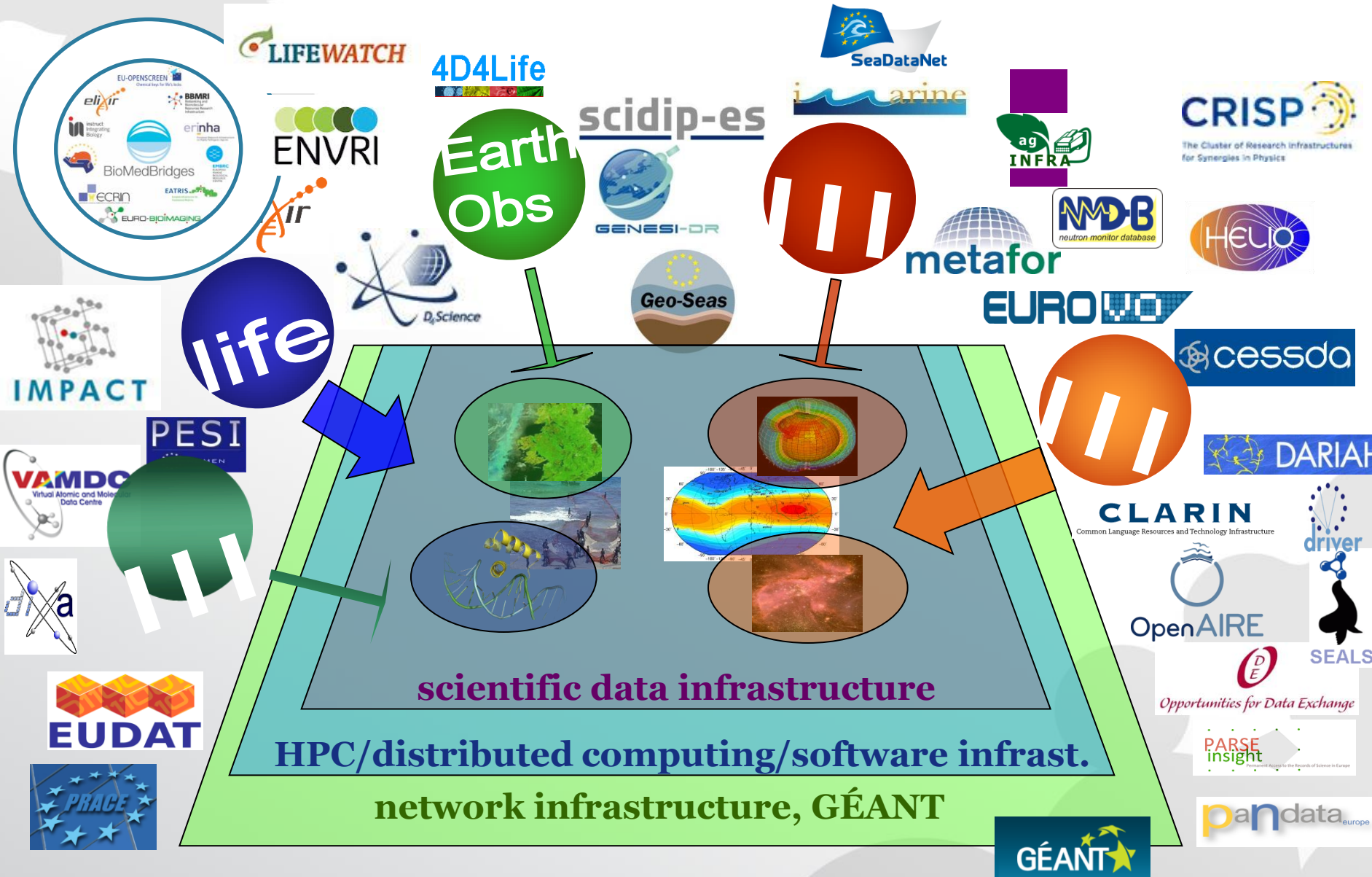
# Was ist OpenAIRE ?

“**Open Access Infrastructure for Research in Europe**”

- Was ist eine “e-Infrastructure”?
  - Teil einer Forschungsinfrastruktur bestehend aus
    - Digital basierten Technologien (bzgl. Hard- und Software)
    - Kommunikationsstandards (Netzwerke, Protokolle, Zugangsrechte)
    - Ressourcen (Services, Daten, digitale Bibliotheken)
    - Organisatorisches Netzwerk, d.h. Experten und Werkzeuge zur Unterstützung kollaborativer Forschung
- In diesem Sinne stellt OpenAIRE bereit bzw. nutzt nach
  - Technische Infrastruktur (D-Net) und Portallösung
  - Netzwerk aus Datenprovidern (z.B. OAI-Quellen), Registries (z.B. CODA, OpenDOAR, re3data) und Drittanbieter-Services
  - Helpdesk und nationale Open Access Kontaktstellen
  - Ressourcen:



# E-infrastructure Initiatives in Europa



# RÜCKBLICK

# Genese von Open Access Infrastruktur-Maßnahmen



(2015-2018)

- Setzt das **Open Access Mandat** in H2020 um
- Unterstützt den “**Research Data Pilot**” der EC
- Koord. **Gold OA-Pilot** für post-FP7 Publikationen

- Zugang zum Europäischen wissenschaftl. OA Output
  - vereinigt DRIVER (OA) und OpenAIRE (FP7)
- Cross-Links zw. Publikationen - Daten - Projektinformation



(2011-2014)



(2009-2012)

- Umsetzung **Open Access Pilot** in FP7 (SC39)
- Aufbau **Nationaler Open Access Desks**
- OpenAIRE Guidelines
- Studien zu disziplin-spez. Anforderungen an OA-Infrastrukturen

- Aufbau einer europäischen Repository-Infrastruktur
- DRIVER Guidelines
- Studien und Demonstratoren zu Enhanced Publications



(2006-2009)

BASE

“BASE ... beteiligt sich seit Juni 2006 am EU-Projekt ‘Digital Repository Infrastructure Vision for European Research’.”



# OpenAIRE unterstützt Open Science



**Research** repositories  
**link** to OpenAIRE

PUBLICATIONS  
DATA  
FUNDING INFORMATION



## Infrastructure

RESEARCH OUTPUT FROM REPOSITORY NETWORK. INTEGRATED EUROPEAN RESEARCH INFORMATION WITH LINKS FROM PUBLICATIONS TO RESEARCH DATA AND FUNDING.



## Services

ACCESS, SHARE, REUSE, ENHANCE AND MONITOR RESEARCH OUTPUT. DISSEMINATE AND INTEGRATE RESEARCH RESULTS.





# MOTIVATION

**“THE EUROPEAN  
COMMISSION’S VISION  
IS THAT INFORMATION  
ALREADY PAID FOR  
BY THE PUBLIC PURSE SHOULD  
NOT BE PAID FOR AGAIN EACH  
TIME IT IS ACCESSED OR USED,  
AND THAT IT SHOULD BENEFIT  
EUROPEAN COMPANIES  
AND CITIZENS TO THE FULL”**



Guidelines on Open Access  
to Scientific Publications and Research Data  
in Horizon 2020

Version 1.0  
11 December 2013



# OA-Policy in H2020 ( )

## General

- General Conditions:**
- \* Applies to all projects funded totally or partly by the European Commission [Horizon 2020]
  - \* Deposit must be made as soon as possible, no later than publication
  - \* Where 'Green' route is chosen, there is a maximum embargo period for making the work open access of 6 months for STEM subjects and for social sciences and humanities, where the maximum embargo period will be twelve months
  - \* Open access journal publications must be made open access no later than publication
  - \* Open access journal publications must also be deposited in a repository
  - \* Authors are encouraged to retain copyright and provide adequate licenses to publishers, e.g. Creative Commons Attribution or Creative Commons Zero Licenses
  - \* Authors are strongly encouraged to provide open access to monographs, books, conference proceedings and grey literature
  - \* Payment for open access journals will only be reimbursed during the project
- Policy Links:**
- \* [Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020](#)
  - \* [Fact Sheet: Open access to publications and data in Horizon 2020: Frequently Asked Questions \(FAQ\)](#)

## Open Access Archiving



**Whether to Archive:** \* Requires deposition in Open Access archives



**What to Archive:**

- \* Peer-reviewed publications
- \* Publisher's version (Preferred) *and/or* Author's final version (Optional)
- \* Unspecified format



**When to Archive:**

- \* At the earliest possible opportunity
- \* Acceptable embargo: up to 12 months after publication
- \* Metadata must be deposited at the date of publication

**Where to Archive:**

- \* In appropriate institutional repositories (Optional)
- \* In appropriate national repositories (Optional)
- \* In appropriate disciplinary repositories (Optional)
- \* In any appropriate repository (Required)

**Archiving Conditions:** \* The European Commission [Horizon 2020] encourages authors to retain their copyright of their publications

# OA-Policy in H2020 ( SHERPA/JULIET )

## Open Access Publishing

<input type="checkbox"/>	<b>Whether to Publish:</b> * Encourages publication in Open Access publications
	<b>Where to Publish:</b> * in a peer-reviewed open access journal (Optional) * as an article with immediate paid-for open access (Optional)
	<b>Publishing Conditions:</b> * Costs of open access publication may be reimbursed by the European Commission [Horizon 2020]

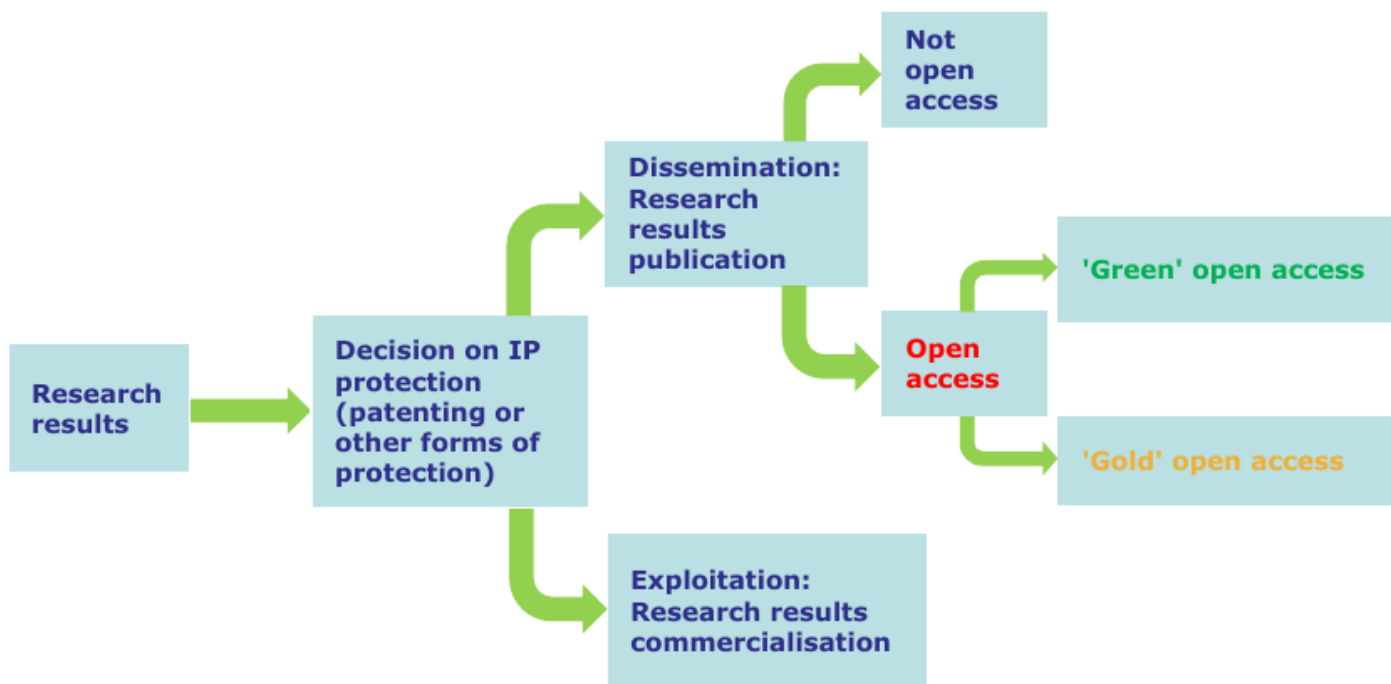
## Data Archiving Policy

<input type="checkbox"/>	<b>Whether to Archive:</b> * Encourages deposition in Open Access archives
	<b>What to Archive:</b> * Research data * Program code * Unspecified data
<input type="checkbox"/>	<b>When to Archive:</b> * At the earliest possible opportunity
	<b>Where to Archive:</b> * In any appropriate repository
	<b>General Conditions:</b> * Horizon 2020 will set up a pilot scheme on open access to and re-use of research data * Participants must provide an initial data management plan within the first 6 months of the project starting * Data must be deposited at the same time as any related publication * Participants may opt out of the pilot (please see policy for acceptable reasons) * Projects must take measures to enable third parties to access, mine, exploit, reproduce and disseminate (free of charge to users) this research data, for example Creative Commons Attribution or Creative Commons Zero Licenses
	<b>Policy Links:</b> * <a href="#">Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020</a> * <a href="#">Fact Sheet: Open access to publications and data in Horizon 2020: Frequently Asked Questions (FAQ)</a> * <a href="#">Guidelines on Data Management in Horizon 2020</a>



# Open Access in H2020

- Open access to publications and data in Horizon 2020:  
FAQ: [https://www.iprhelphdesk.eu/Open\\_Access\\_in\\_H2020](https://www.iprhelphdesk.eu/Open_Access_in_H2020)





# H2020 Metadata Requirements

- **Beneficiaries must ensure immediate open access to the bibliographic metadata that identify the deposited publication in a standard format and must include all of the following:**
  - the terms ["European Union (EU)" and "Horizon 2020"] ["Euratom" and Euratom research and training programme 2014-2018"];
  - the name of the action, acronym and grant number;
  - the publication date, and length of embargo period if applicable
  - a persistent identifier.





# Schwerpunkte von OpenAIRE2020

- **Monitoring der Forschungsergebnisse in H2020**
  - Insbesondere Umsetzung des Open Access Mandats
- **Unterstützung des Open Data Pilot in H2020**
  - Trifft auf 7 Fördergebiete zu
  - Best Practices bzgl. Forschungsdatenmanagement
- **APC Gold Open Access Pilot für post-FP7 Publikationen**
- **Erprobung neuartiger Methoden von Review und wissenschaftlicher Publikationen**
- **Studien und Piloten**
  - zur Abschätzung von Open Access Impact
  - zu rechtl. Schranken bzgl. Datenschutz und Datenteilen im Open Data Pilot
  - zu Literatur-Daten Integration und Data Citation Interlinking Service
- **Internationale Ausrichtung mit regionalen Repository Netzwerken**
- **Verstetigung in einer rechtlichen Trägerschaft**



# UMFANG UND AUFGABEN





# Angaben zum Projekt

## Partner

- **Projektmanagement: Universität Athen**
- **Wissenschaftl. Koordination: SUB-Göttingen**
- **Technische Koordination: CNR-ISTI, Pisa**
- **50 Partner**
  - **Networking Team**
  - **Technisches Team (darunter UNIBI)**
  - **+27 NOADs**

## Umfang

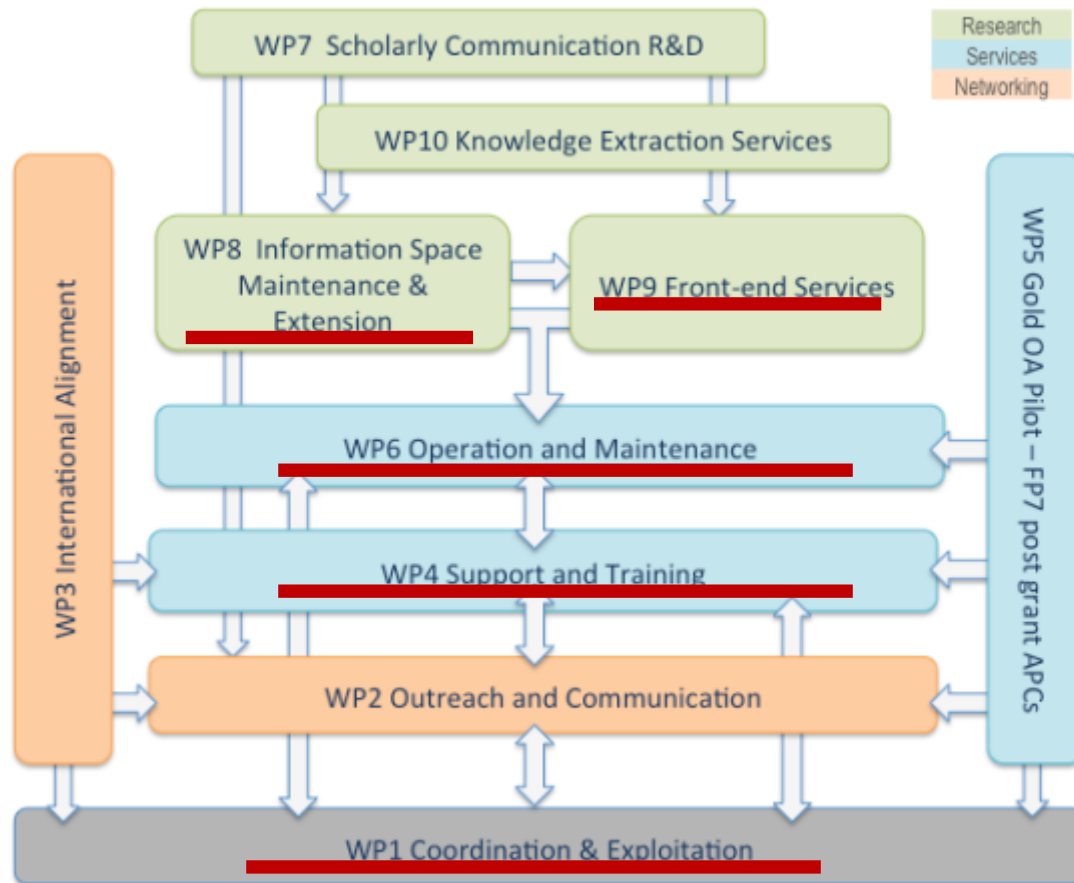
- **Laufzeit: 01/2015 – 06/2018**
- **Budget: 13,13 Mio EUR**  
**(davon 4 Mio EUR für APC-Pilot)**

## Zielgruppen

- **Forschungsförderer (EC und nationale Förderer)**
- **Projektkoordinatoren**
- **Forschungsadministratoren**
- **Repositorybetreiber**
- **Wissenschaftler**



# Arbeitspakete in OpenAIRE2020





# **ROLLE DER UB IM PROJEKT**





# Schwerpunkte

- 1) Datenaggregation und –kuration
- 2) Weiterentwicklung der Guidelines für Datenprovider (Lit. u. Daten-Repositories, eJournals, CRIS)
- 3) Koordination Aufbau eines Nutzungsstatistik-Netzwerks und -Services in OpenAIRE



# 1) Datenaggregation und -kuration

D-Net Home DataSource Management Infrastructure Management Configuration Tools Logs

Im Team mit den technischen Partnern

- Aggregation bibliographischer Metadaten
- Aggregation aus autoritativen Quellen über
  - Projektinformationen (z.B. H2020)
  - Institutionelle, thematische und Datenrepositories
  - Autorenidentifizier
  - Zeitschriften-Titellisten
- Workflowkonfiguration und –monitoring von Validierung, Registrierung und Aggregation aus Quellen
- Definition und Ausführung von Normalisierungsregeln/-skripten für die Metadaten

DataSource Management

Results of query: oai

Country	Datasource Api	Namespace Prefix	Protocol
DE	driver Dokumentenserver der TUB	od____718	oai
DE	driver Propylaeum-DOK	od____1279	oai
DE	driver Digitale Hochschulschriften der LMU	od____313	oai
DE	driver Digitales Archiv Technische Universität Berlin	od____793	oai
DE	driver	od____1559	oai
DE	driver	od____2294	oai
DE	driver E-LIB Dokumentenserver - Staats und Universitätsbib...	od____139	oai
DE	driver SavifaDok Datenbank	od____880	oai
DE	driver Kölner UniversitätsPublikationsServer	od____199	oai



## 2) OpenAIRE Guidelines

### Main Strands of Activities

#### OA in H2020

- Meet OA mandate for publ.
- Support OA Data Pilot

#### National Guidelines / Aggregators

- OpenAIRE-RIOXX Mapping
- Aggregation from CORE/UK, CEON/PL, NARCIS/NL, CRIS systems

#### Global Interoperability

- COAR-CASRAI Working Group on Regional Repository Network Interoperability
- NISO-OA Indicators



## 2) OpenAIRE Guidelines

- **Partners involved**

- **UNIBI (DE) – BASE and National Guidelines Background**
- **UMINHO (PO) – OA and National Guidelines Background**
- **CERN (EU) – Research Data (Zenodo) / DataCite Background**
- **CNR (IT) – Technical Coordination / Infrastructure Background**
- **EKT (GR) – EuroCRIS Background**
- **JISC (UK) – National Guidelines Background (RIOXX)**



## 2) OpenAIRE Guidelines

- **Update of Guidelines for Data Source Administrators**
  - To meet H2020 requirements
  - Authoritative list of jurisdictions: EC, governments, foundations
  - Cooperation with FundRef
  - More explicit metadata for: AuthorIDs, Fulltext Links, License
- **Collaboration and Alignment with other relevant organizations and initiatives**
  - EuroCRIS, DataCite, RIOXX, COAR, CASRAI
- **Check out new standards**
  - ResourceSync Framework
- **Documentation, Guidance, Support**
  - of OpenAIRE Service APIs





## 2) OpenAIRE Guidelines

- **For data source managers**
  - Regular validation reports about metadata records
- **With NOADs and Network Team**
  - Quaterly meetings
  - Fostering contacts with and support of data source managers
- **With platform vendors / developers**
  - Definition of community requirements
  - Integration in repositories, journal platforms, CRIS
- **For All**
  - Guidelines updates in month 12 and 36
  - Webinars and other training measures
  - Dissemination and Promotion of the Set of Guidelines



## 3) Usage Statistics Services

- Focus on **usage data about publications** first then extend to **research data** and other kinds of output
- Make OpenAIRE a **usage statistics hub** to
  - Collect, normalize and analyse usage data
  - Calculate and share usage statistics
- **Comparing usage statistics** with other established metrics **on the article level**, e.g. citation counts
- **Complement and integrate** with alternative types of usage data (**altmetrics**)



# 3) Usage Statistics Services

- **Partners involved**

- **UNIBI** (DE) – Task Coordination
- **ARC** (GR) – Usage Stats Serviceprovider
- **UMINHO** (PO) – National Usage Stats Service SCEUR
- **Couperin** (FR) – National Usage Stats Service \*
- **JISC** (UK) – National Usage Stats Service IRUS-UK



# 3) Usage Statistics Services

## Strands of Activities

- **Aligning policies and standards** enabling to gather and share usage data and statistics in a consistent way
- **Guidelines** for exporting usage data / sharing usage stats
- Study on **legal frameworks for usage data sharing**
- Usage Statistics **tools for repository platforms**
- Regular usage data collection and processing



# 3) Usage Statistics Services

## Usage Statistics Pipeline

Repos  
OA Journals  
CRIS



IRUS-UK



**oas**  
Open-Access-Statistik





# 3) Usage Statistics Services

## Comparing Two Metrics


	<b>Altmetrics</b>	<b>Usage Statistics</b>
Indicators	Tweets, likes, bookmarks, readers, mentions	Downloads, views
Audience	Academic & Public	Rather academic
Resource	Research paper; Refs. in other media	Research paper; repository assets
“Speed”	Immediately	Immediately
Coverage	Datasources used by altmetrics-service	Often limited to individual repository
Noise/bias	“gaming”	robots



# 3) Usage Statistics Services

## Expected Results

- **Task activities are strongly related to T7.2 Study on measuring Open Access Impact**
  - E.g. Multi-dimensional indicators and data sources these are based on
- **Starting with pilots and gather usage data within one year is crucial !**
- **Results of studies, guidelines and techn. specification (D8.5) in two years**
- **Operational usage statistics service components in three years**



# **MEHRWERT FÜR DIE UNIVERSITÄT BIELEFELD**





# Mehrwert für Wissenschaftler (in EU-Projekten) an der UNIBI

- Nachweis von Projektergebnissen (Publikationen, Forschungsdaten) über das institutionelle Repository **PUB** (<https://pub.uni-bielefeld.de>)
  - PUB ist kompatibel zu OpenAIRE und wird regelm. aggregiert
  - dadurch Erfüllung des Open Access Mandats in H2020
  - Recherche im OpenAIRE Portal nach EU geförderten, sowie Open Access Publikationen und damit in Zusammenhang stehenden Forschungsdaten



# Synergien und Profilbildung an der UB

- Stärkere Verzahnung der Aktivitäten zwischen BASE-Team und OpenAIRE2020 UB-Projektmitarbeitern
- **In technischer Hinsicht:**
  - Zusammenführung von Metainformationen über Datenprovider
  - Angleichung der Normalisierungsregeln für Metadaten
- **Profilbildung:**
  - Ausbau des Bereichs Metadatenkuration (personell und technisch)
  - Stärkung der Expertise über
    - Datenaggregation
    - Guideline-Entwicklung hinsichtlich Metadatenformate, kontrollierte Vokabulare, Transfer-Protokolle



**Vielen Dank für  
Ihre  
Aufmerksamkeit!**



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