Национална инициатива за отворена наука в Европа

ORDM

Open Research Data Management

Управление на отворени изследователски данни

Петър Станчев

stanchev@math.bas.bg

Съдържание

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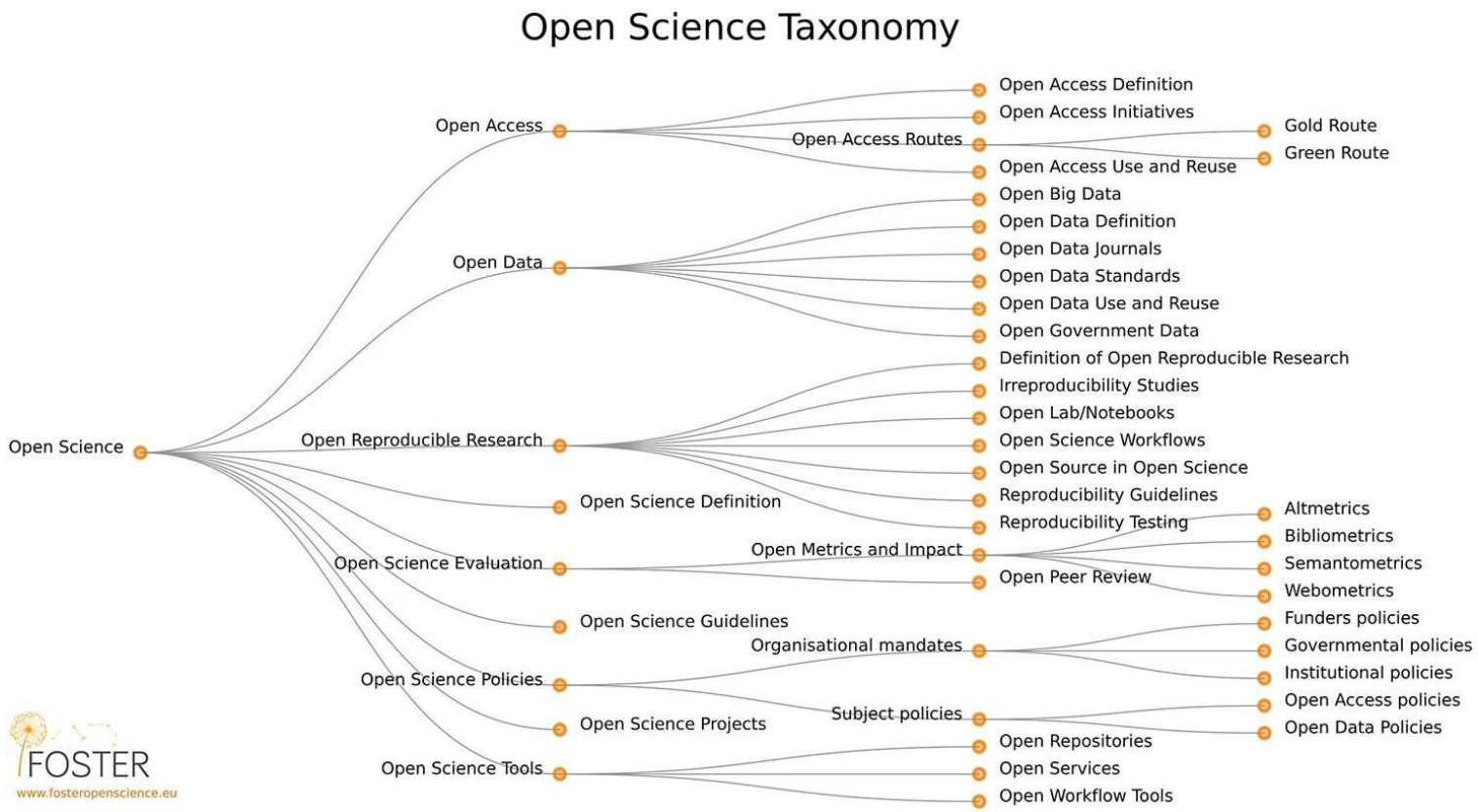
2. Отворена и FAIR RDM
3. Заинтересовани страни и RDM
4. Изследователи
5. Архиви в България

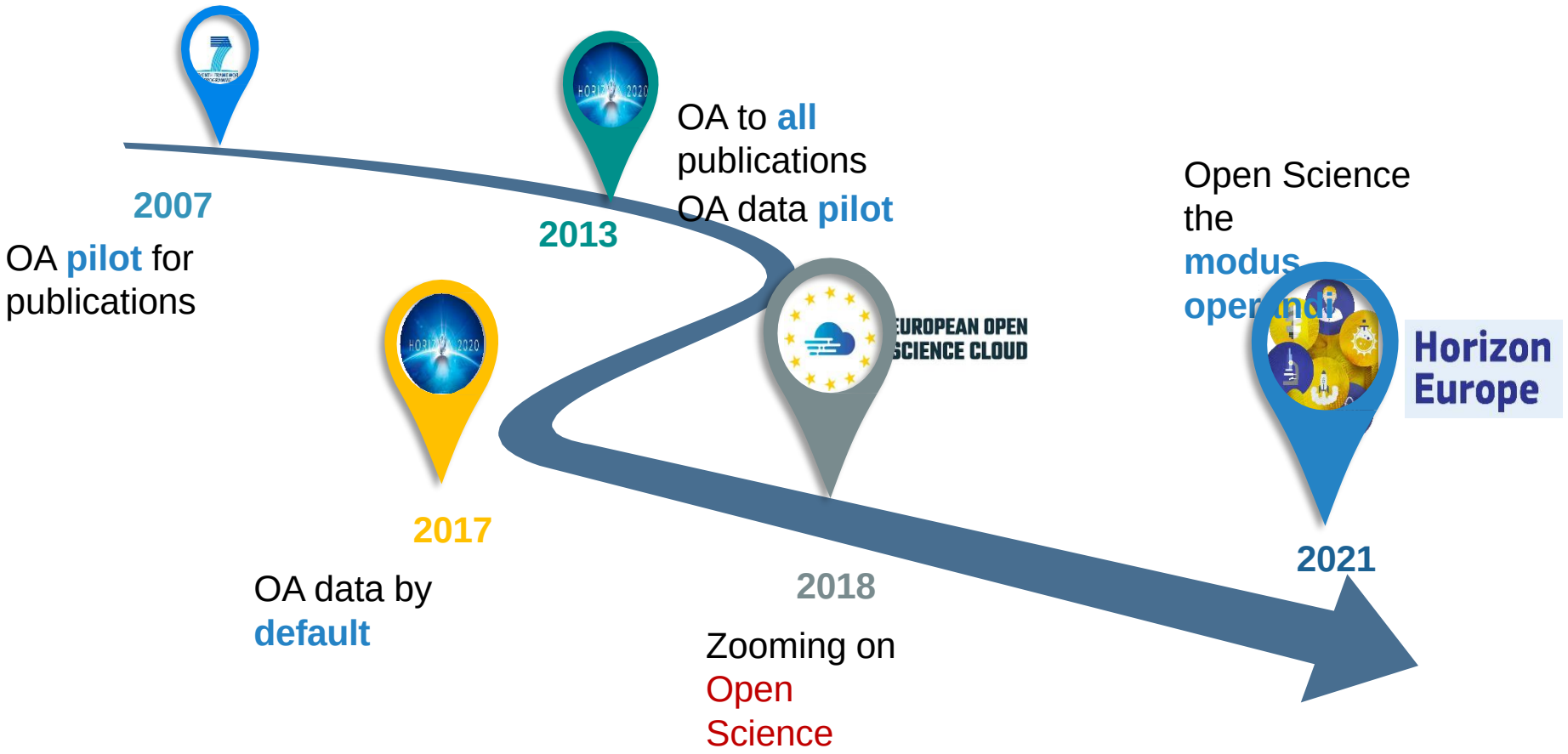
Рамка за отворена наука

Отворена наука



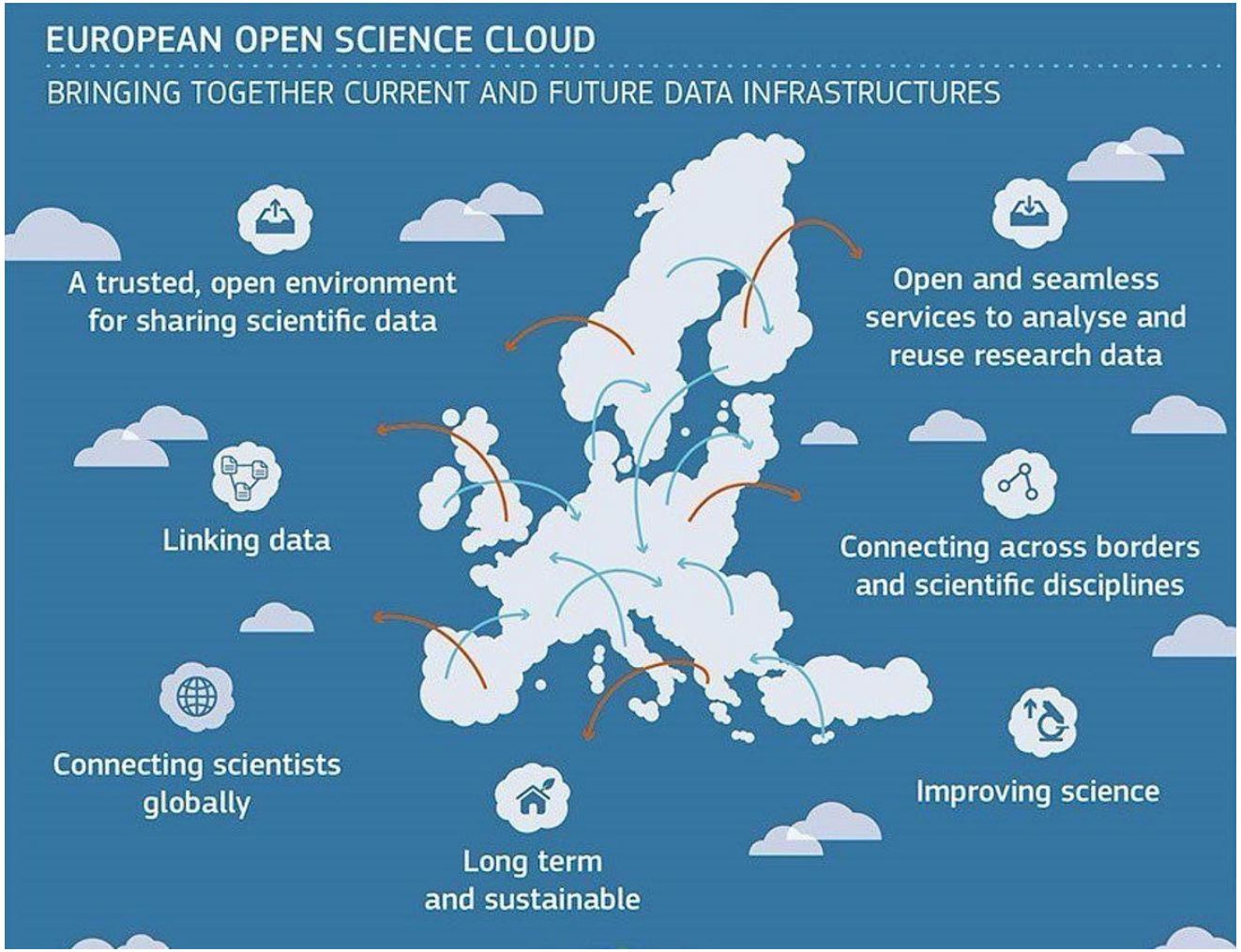
Knoth, Petr; Pontika, Nancy (2015): Open Science Taxonomy. figshare. Figure. https://doi.org/10.6084/m9.figshare.1508606.v3

Рамкови програми



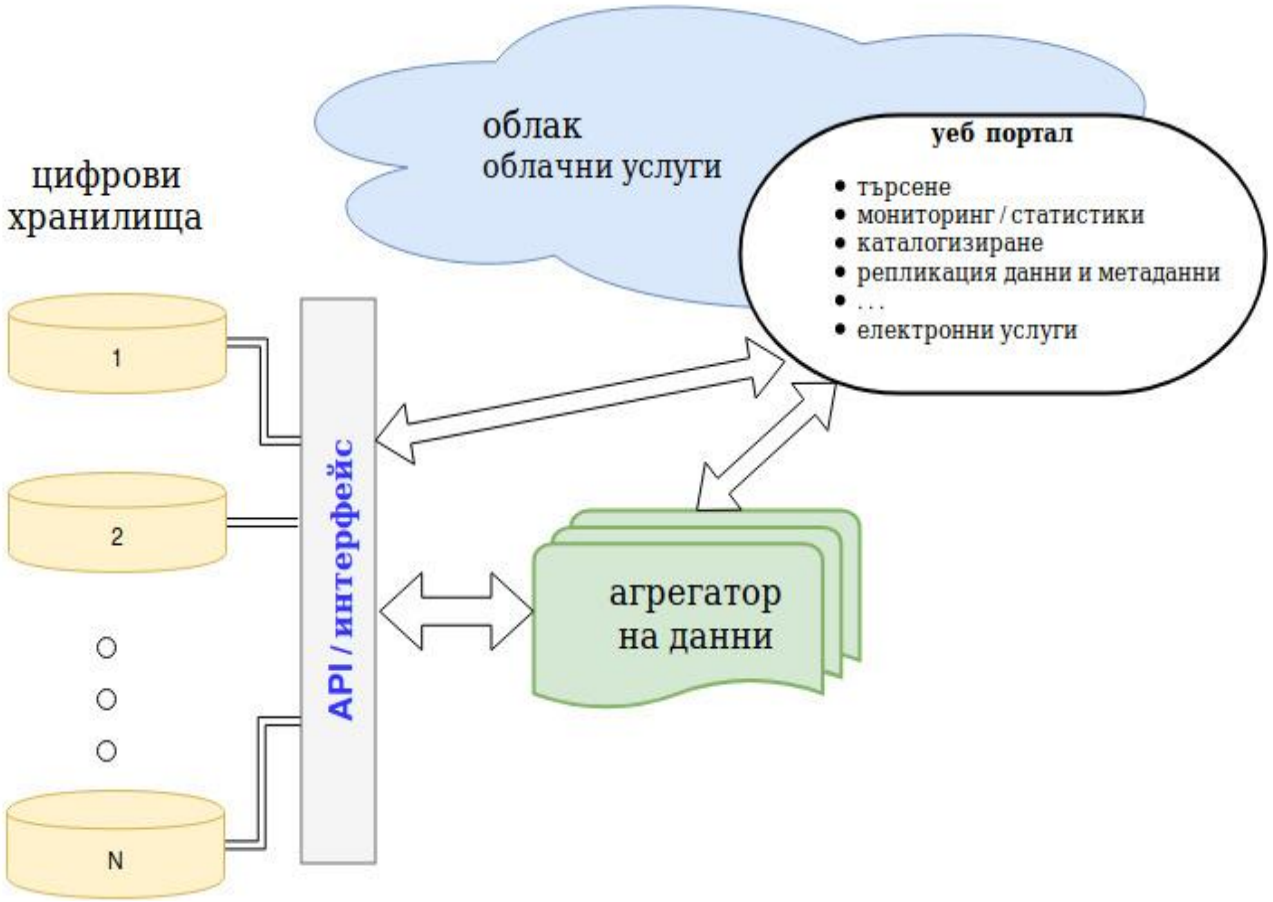
EOSC – Европейски облак за отворена наука

- Етична, открита, сигурна и рентабилна среда в подкрепа на практиките за отворена наука и комуникационните изследвания в ЕС

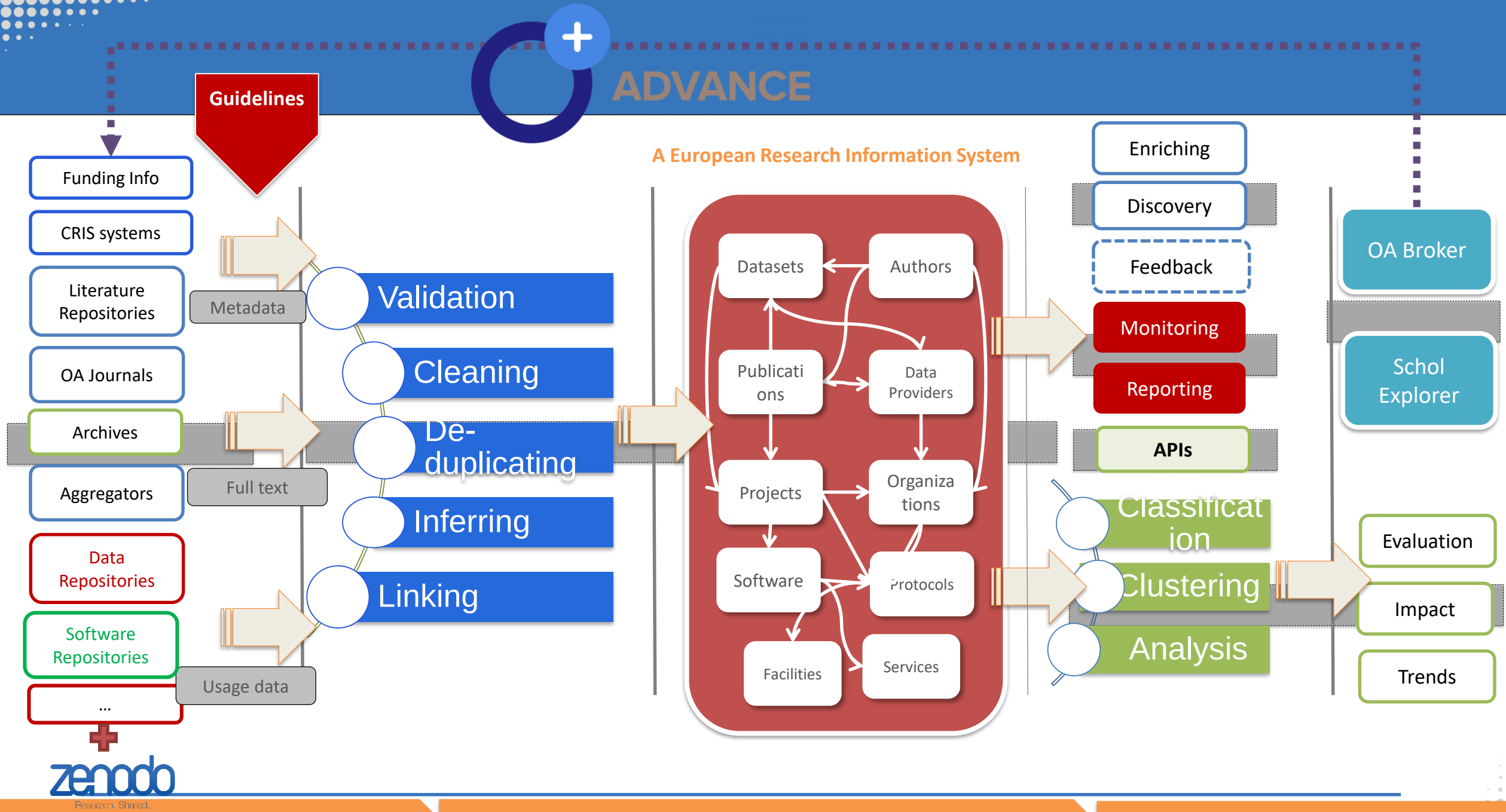


EOSC portal: https://www.eosc-portal.eu/

Основни изисквания към автоматизирана система и национален портал за отворен достъп до научна информация



Отворена и FAIR RDM


ADVANCE
Guidelines
A European Research Information System
Funding Info
CRIS systems
Literature Repositories
OA Journals
Archives
Aggregators
Data Repositories
Software Repositories
...
zenodo
Research. Shared.
Metadata
Full text
Usage data
Validation
Cleaning
De-duplicating
Inferring
Linking
Datasets
Authors
Publications
Data Providers
Projects
Organizations
Software
Protocols
Facilities
Services
Enriching
Discovery
Feedback
Monitoring
Reporting
APIs
Classification
Clustering
Analysis
OA Broker
Schol Explorer
Evaluation
Impact
Trends
Data Providers (Infrastructure)
OpenAIRE Platform (Middleware)
Services

Отворени и FAIR RDM

ACCESS	READER RIGHTS	REUSE RIGHTS	COPYRIGHTS	AUTHOR POSTING RIGHTS	AUTOMATIC POSTING	MACHINE READABILITY	ACCESS
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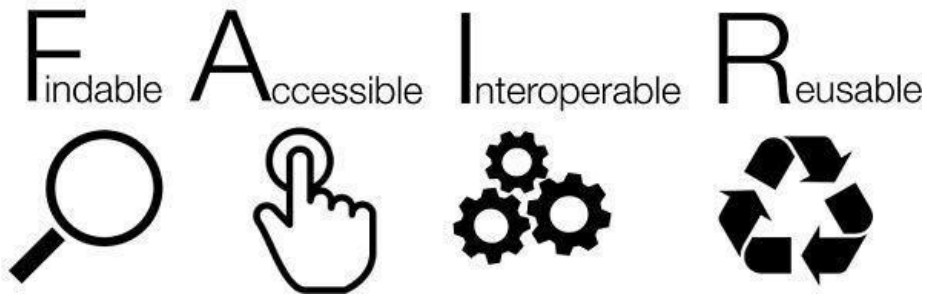
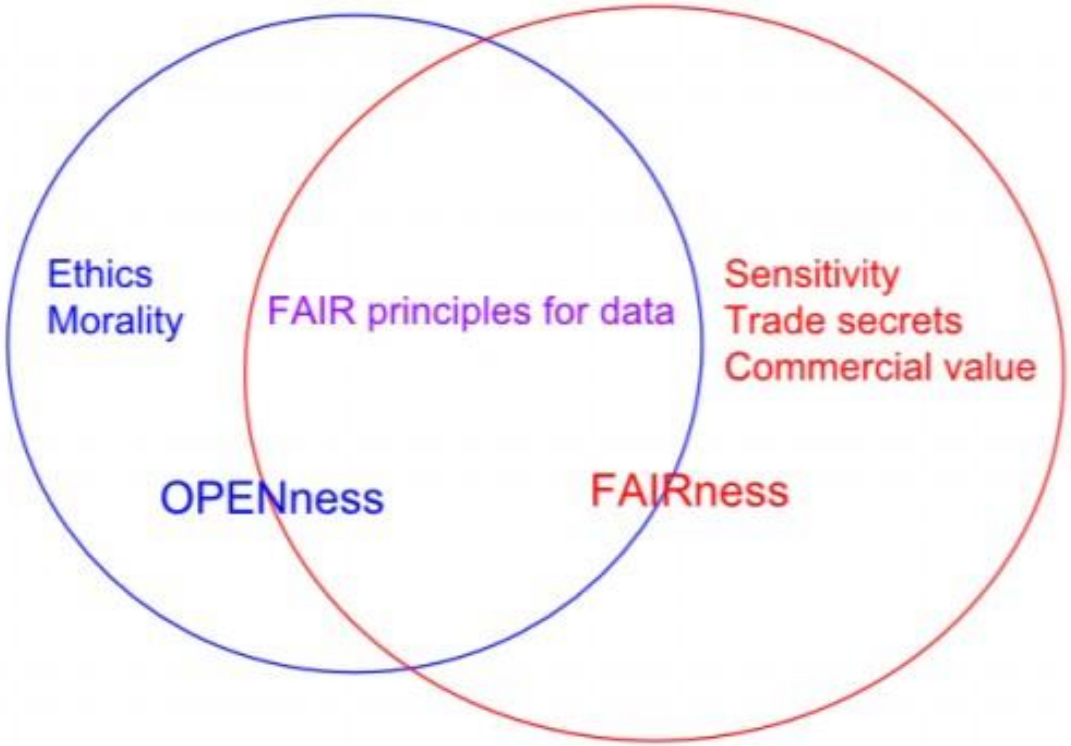
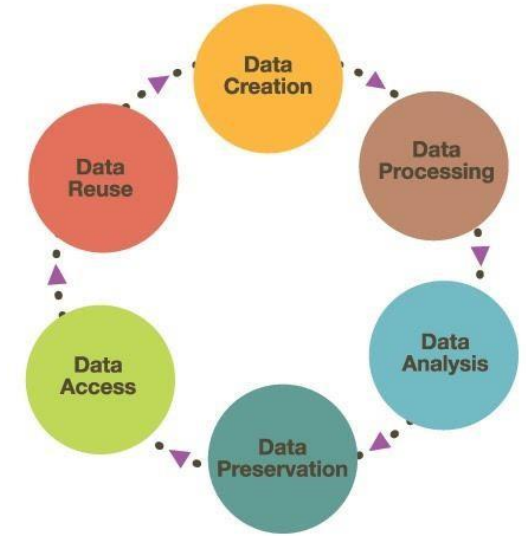
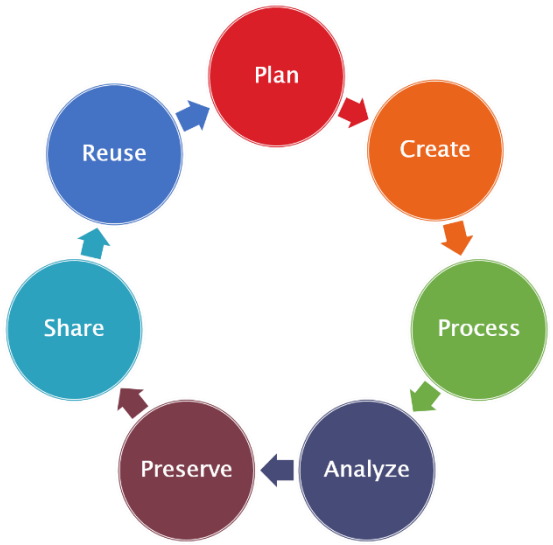


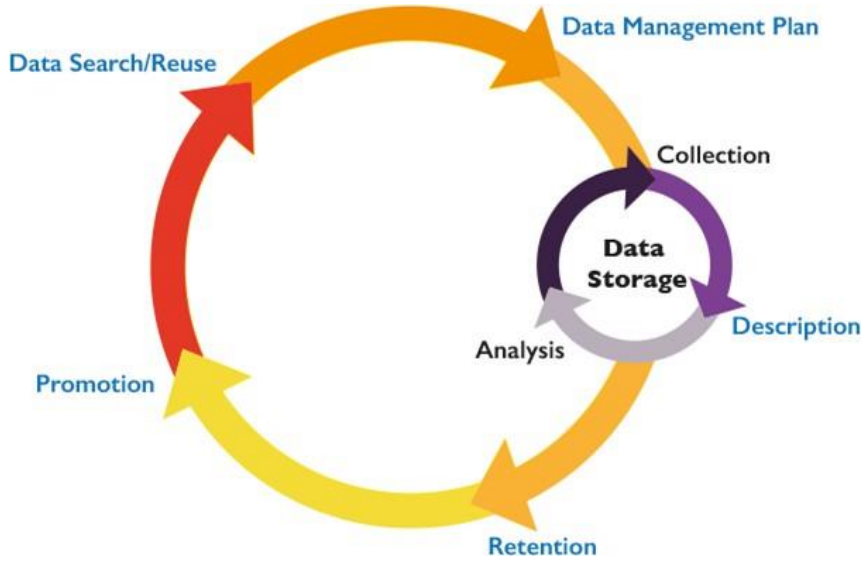


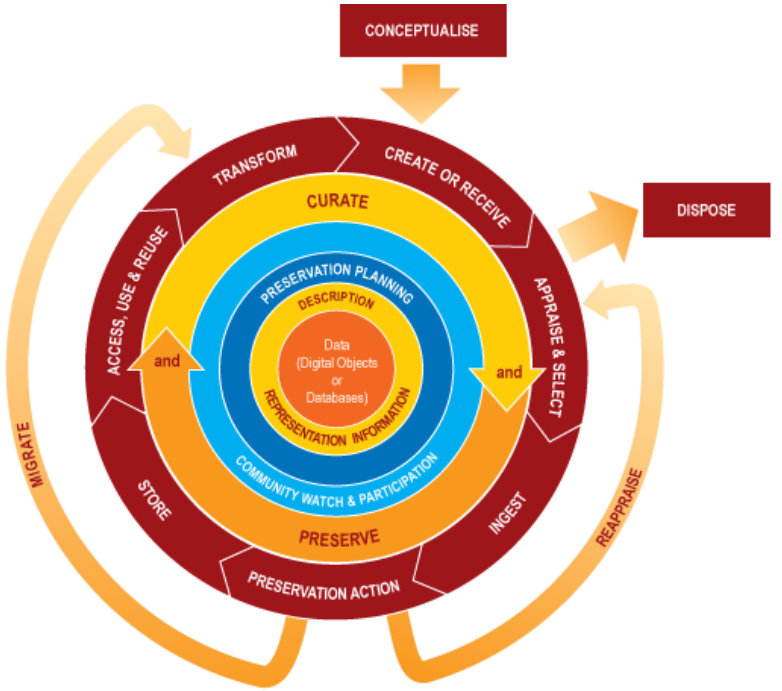
достъпни, оперативно съвместими и повторно използваеми

RDM жизнен цикъл









Изчисване на данните

- Несъответствия в представителството
- Числени несъответствия
- Неправилно изписване / печатни грешки
- Съкратено съдържание и несъответствия
- Дубликати
- Други данни

M, male, m., fem., F, Female

05/05/2020 OR 5th May 2020 OR May 5 2020
VS 05-05-2020 “%d-%m-%Y”

SUM; Notes

“hello world” -> “hello world
munchen, Munich, Muenchen

Mixed scales, eg million vs age

Видове чувствителни данни

- Лични данни (и метаданни)
- Поверителни данни (търговска тайна, разследвания, ...)
- Данни за сигурност (пароли, финансови информация, национална безопасност, военни, ...)
- Данни, защитени от правата на интелектуална собственост
- Данни за местоположение / GPS / мобилни телефони
- Застрашени видове
- Комбинация от различни набори

Заинтересовани страни и RDM

Политики

RECOMMENDATIONS

COMMISSION RECOMMENDATION (EU) 2018/790
of 25 April 2018
on access to and preservation of scientific information

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 292 thereof,

Whereas:

(1) The European Commission adopted in July 2012 a scientific information package, consisting of the communication 'Towards better access to scientific information: Boosting the benefits of public investments in research' ([1]), and of Commission Recommendation 2012/417/EU ([2]). Recommendation 2012/417/EU states that the Commission will review the progress made across the Union to assess whether further action is needed to achieve the objectives laid down.

https://eur-lex.europa.eu/legal- _content/EN/TXT/PDF/?uri=CELEX:32018H0790&from=EN

Политики

RECODE

Project acronym:	RECODE
Project title:	Policy RECommendations for Open access to research Data in Europe
Grant number:	321463
Programme:	Seventh Framework Programme for Science in Society
Objective:	SiS-2012.1.3.3-1: Scientific data: open access, dissemination, preservation and use
Contract type:	Co-ordination and Support Action
Start date of project:	01 February 2013
Duration:	24 months
Website:	www.recodeproject.eu

PASTEUR4OA

http://www.pasteur4oa.eu/resources

learn

LEARN Toolkit of Best Practice for Research Data Management

http://learn-rdm.eu/wp-content/uploads/RDMToolkit.pdf

OpenAIRE

Toolkit for Policy Makers

on Open Science and Open Access

The OpenAIRE Toolkit for Policy Makers has been designed to assist the design and adoption of Open Science policies aligned with EU developments in the field. It therefore targets stakeholders at national, institutional or funder level with a key role in the adoption of Open Science / Open Access policies (university rectors, directors of research centres, directors of funding agencies, rectors' summit, ministries etc.).

The Toolkit aims to assist NOADs in promoting OS/OA policies in their country and enabling them to become the national hub on OS/OA by enhancing their expertise.

Yet, the Toolkit can also be used by other stakeholders seeking to learn, adopt or align their OS/OA policies and this is why all related material and resources are public.

- Open Science Policy Checklist for Research Funding Organisations
- Open Science Policy Checklist for Research Performing Organisations
- Model Policy on Open Science for Research Funding Organisations
- Model Policy on Open Science for Research Performing Organisations

https://www.openaire.eu/toolkit-for-policy-makers-on-open-science-and-open-access

Политики

IP Toolkit for Universities and PRIs: IP Policies

The IP Toolkit helps universities and PRIs deal with key issues such as ownership of IP and rights of use, IP disclosure, IP management, commercialization of IP, incentives for researchers, recording and accounting, and conflicts of interest.

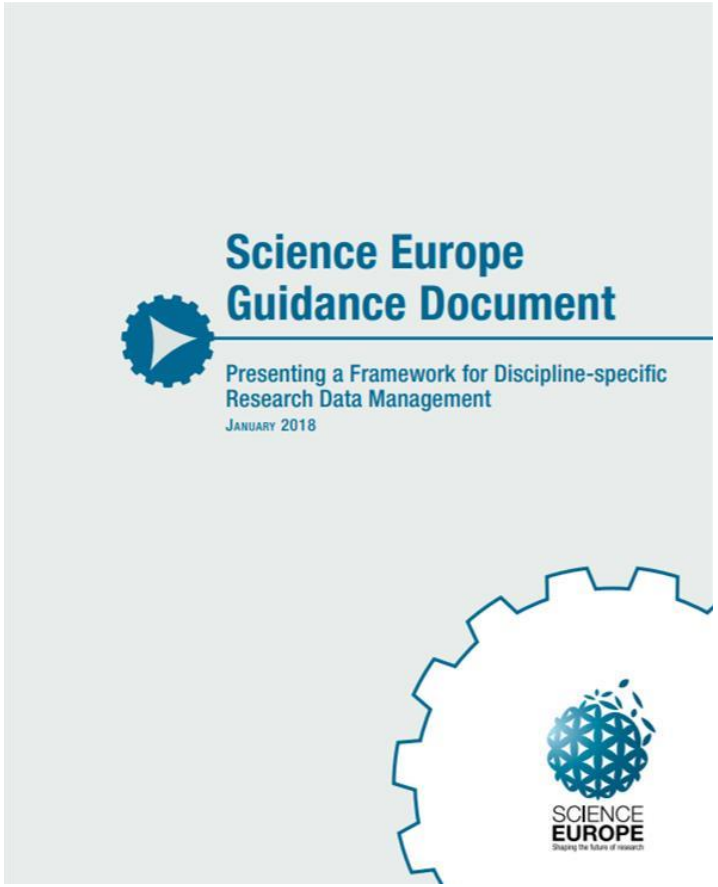
- IP Policy Template for Academic and Research Institutions DOC
- Guidelines for Customization of the IP Policy Template DOC
- IP Policy Writer's Checklist DOC

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

https://www.wipo.int/about-ip/en/universities_research/ip_policies/index.html#toolkit

Отворено управление на изследователските данни

https://www.scienceeurope.org/media/jezkhnoo/se_rdm_practical_guide_final.pdf



http://www.scienceeurope.org/media/nsxdyvqn/se_guidance_document_rdmps.pdf

Поддръжка

Homepage - Open Field Guides - Engaging Researchers with Data Management: The Cookbook

Engaging Researchers with Data Management: The Cookbook

Connie Clare, Maria Cruz, Elli Papadopoulou, James Savage, Marta Teperek, Yan Wang, Iza Witkowska, and Joanne Yeomans

https://orcid.org/0000-0002-4369-196X https://orcid.org/0000-0001-9111-182X
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https://www.openbookpublishers.com/product/1080

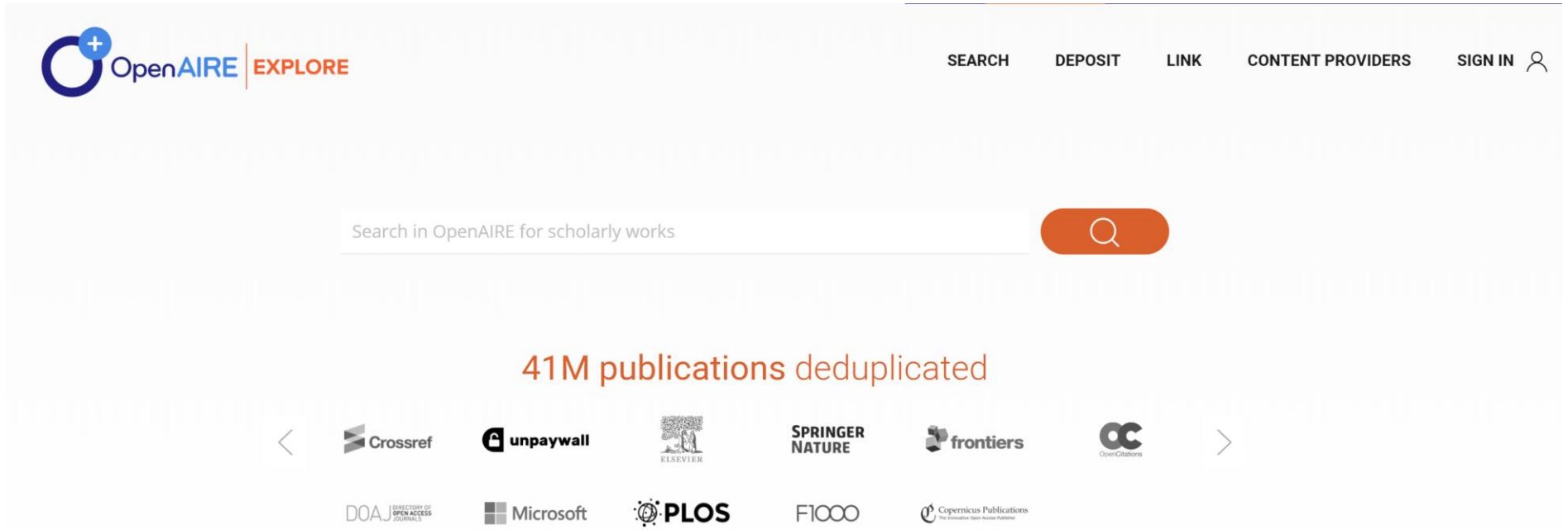
The Open Science Training Handbook

Readme 1.1
Introduction 1.2
Open Science Basics 1.3
Open Concepts and Principles 1.3.1
Open Research Data and Materials 1.3.2
Open Research Software and Open Source 1.3.3
Reproducible Research and Data Analysis 1.3.4
Open Access to Published Research Results 1.3.5
Open Licensing and File Formats 1.3.6
Collaborative Platforms 1.3.7
Open Peer Review, Metrics and Evaluation 1.3.8
Open Science Policies 1.3.9
Citizen Science 1.3.10
Open Educational Resources 1.3.11
Open Advocacy 1.3.12
On Learning and Training 1.4
Organizational Aspects 1.5
Examples and Practical Guidance 1.6
Glossary 1.7
References 1.8
About the Authors & Facilitators 1.9
Languages 1.10

https://book.fosteropenscience.eu/en/book.pdf

Изследователи

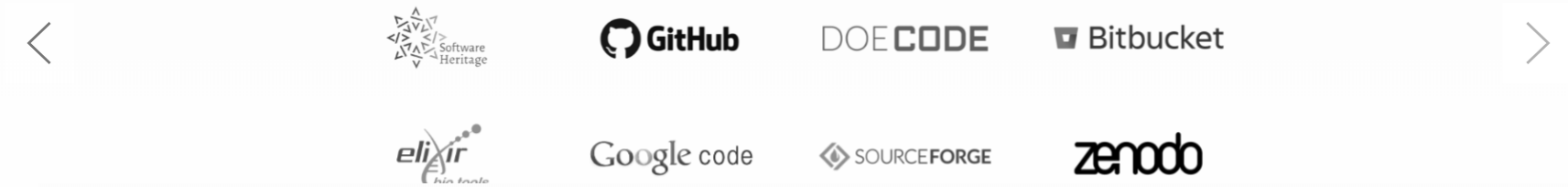
Учете се и се информирайте



Учете се и се информирайте

OpenAIRE

51K research software interlinked with publications

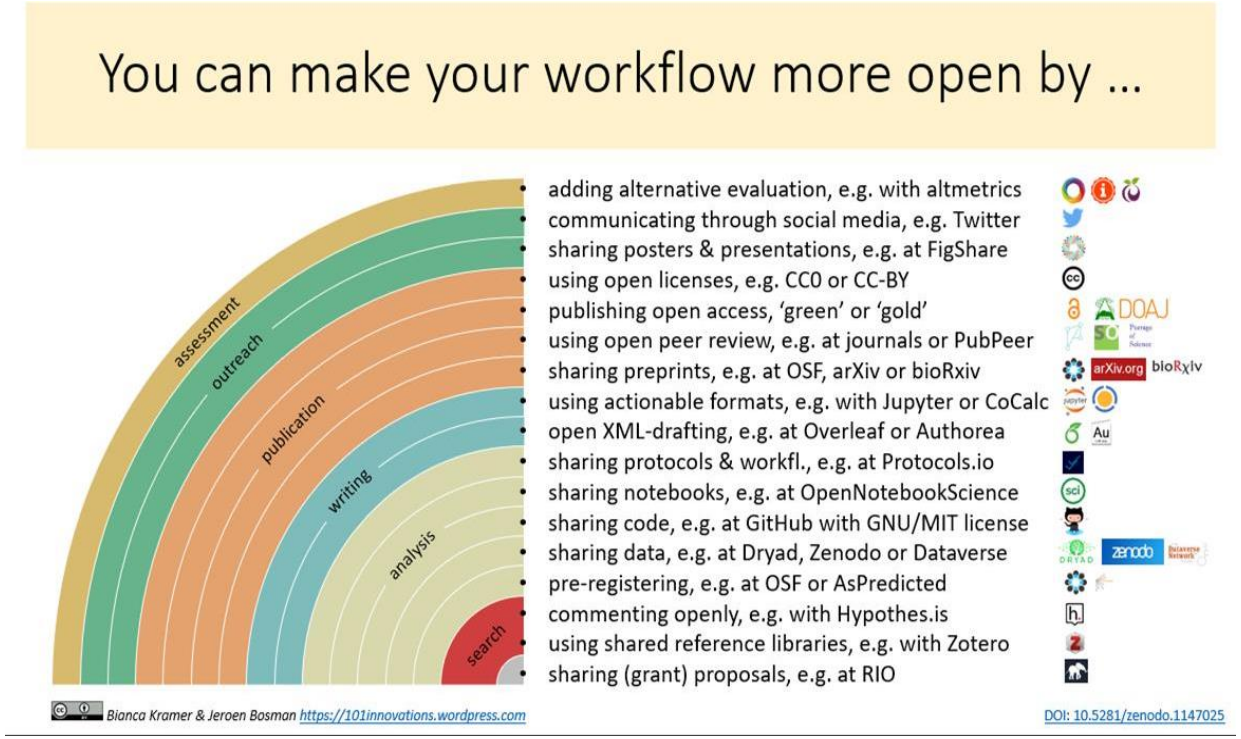


971K datasets interlinked with publications

Учете се и се информирайте

FOSTER

https://www.fosteropenscience.eu/



https://zenodo.org/record/1147025#.XrF_IKgzY2w

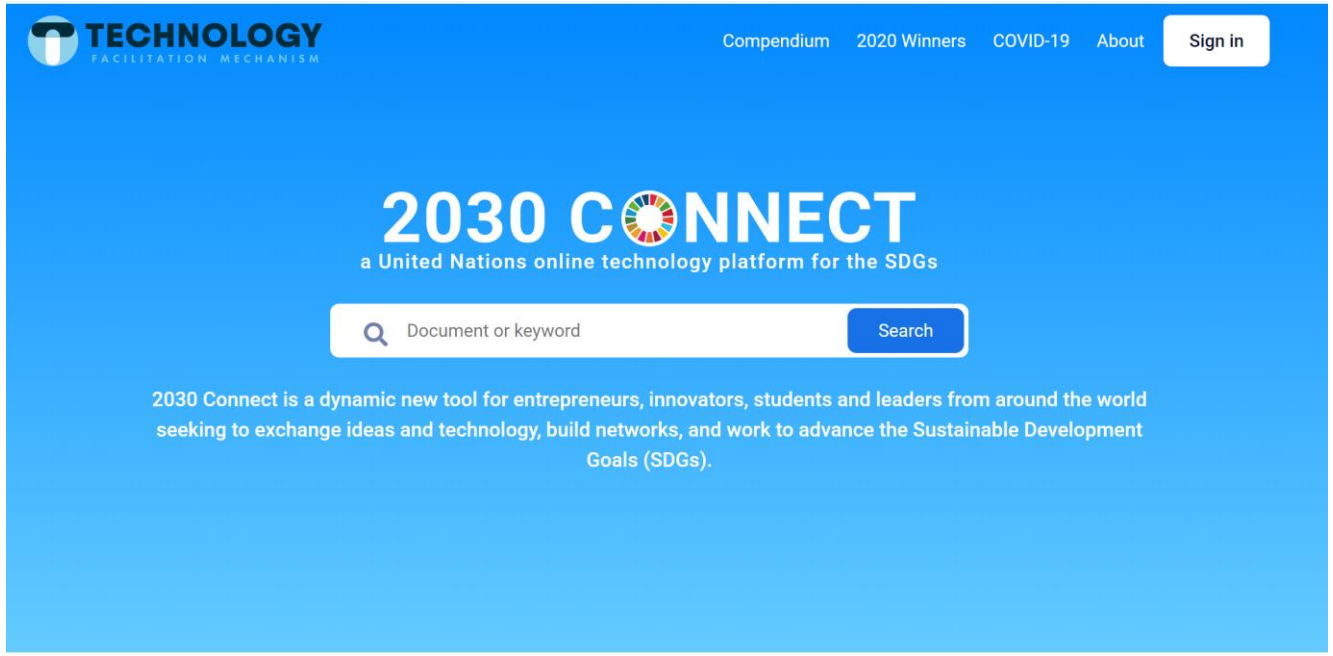
Учете се и се информирайте

https://librarycarpentry.org/Top-10-FAIR/

https://www.openuphub.eu/

Учете се и се информирайте

портал към съществуващите инициативи,
механизми и програми в рамките и извън ООН
https://tfm2030connect.un.org/

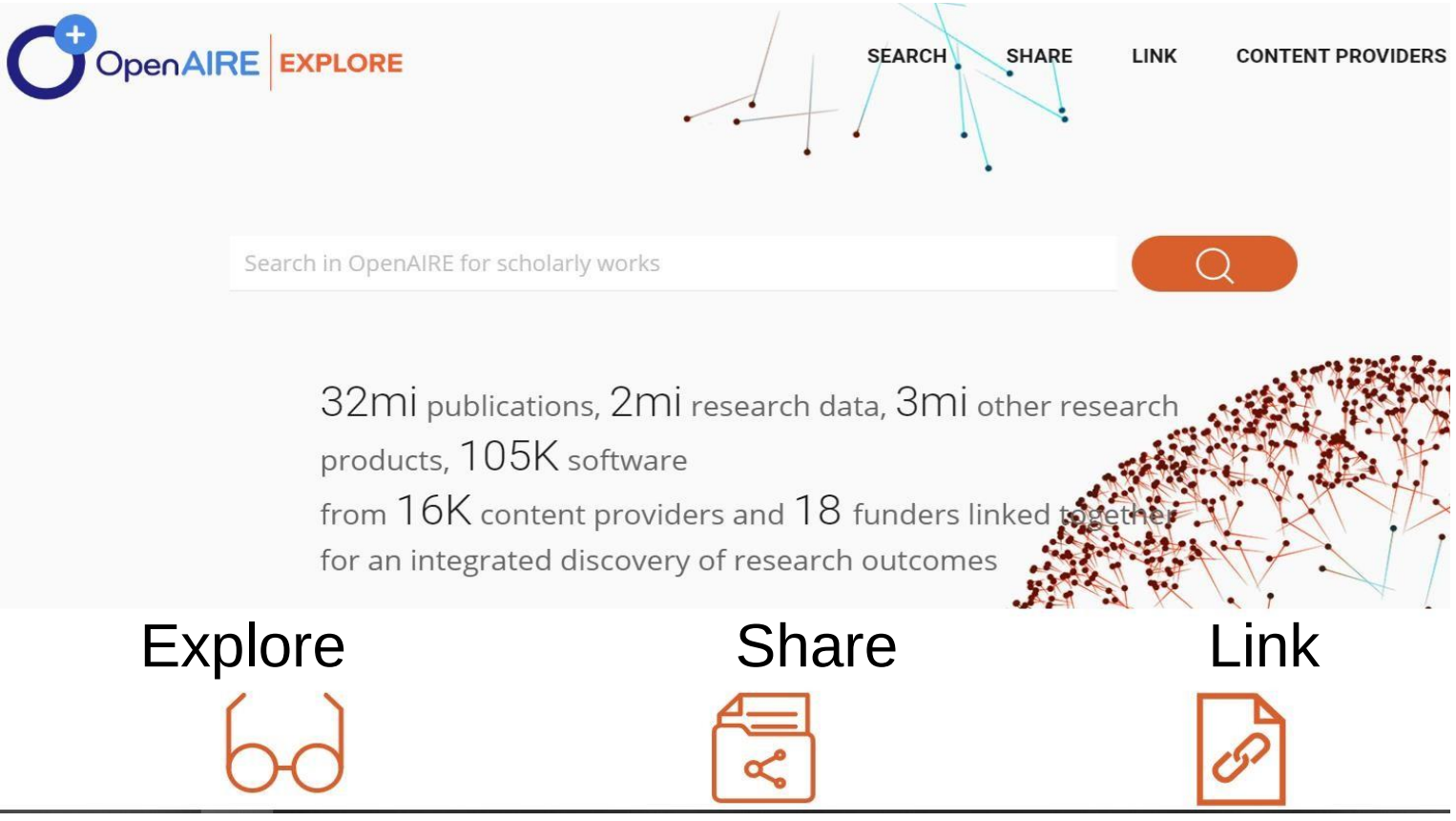


OPEN SCIENCE MOOC

FREE | OPEN | LEARNING

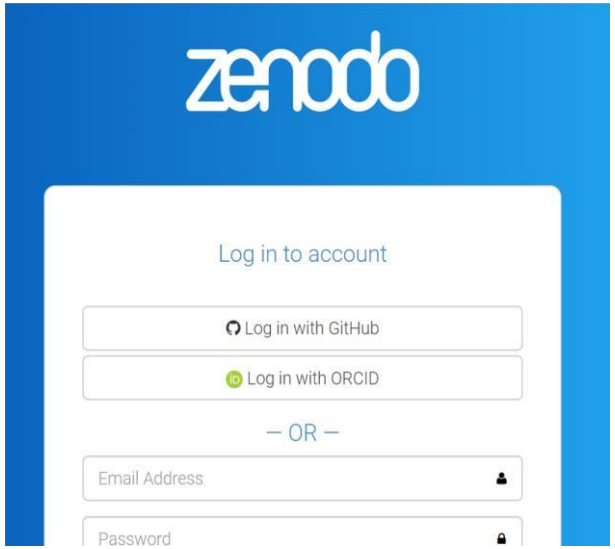
https://opensciencemooc.eu/

Намиране/събиране

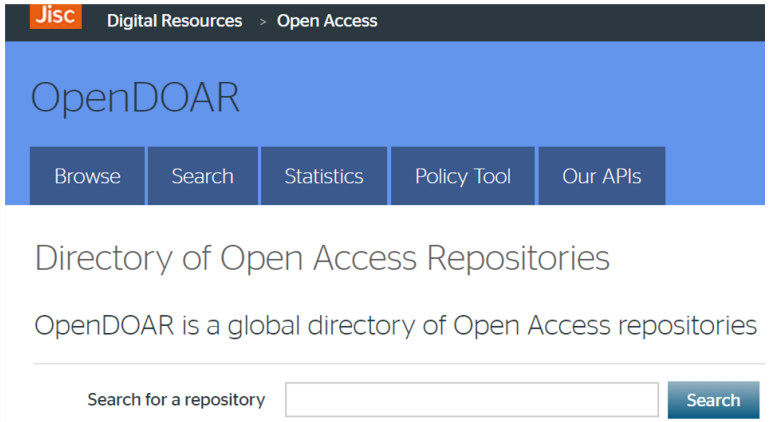


https://explore.openaire.eu/

Намиране/събиране и депозиране



https://zenodo.org/

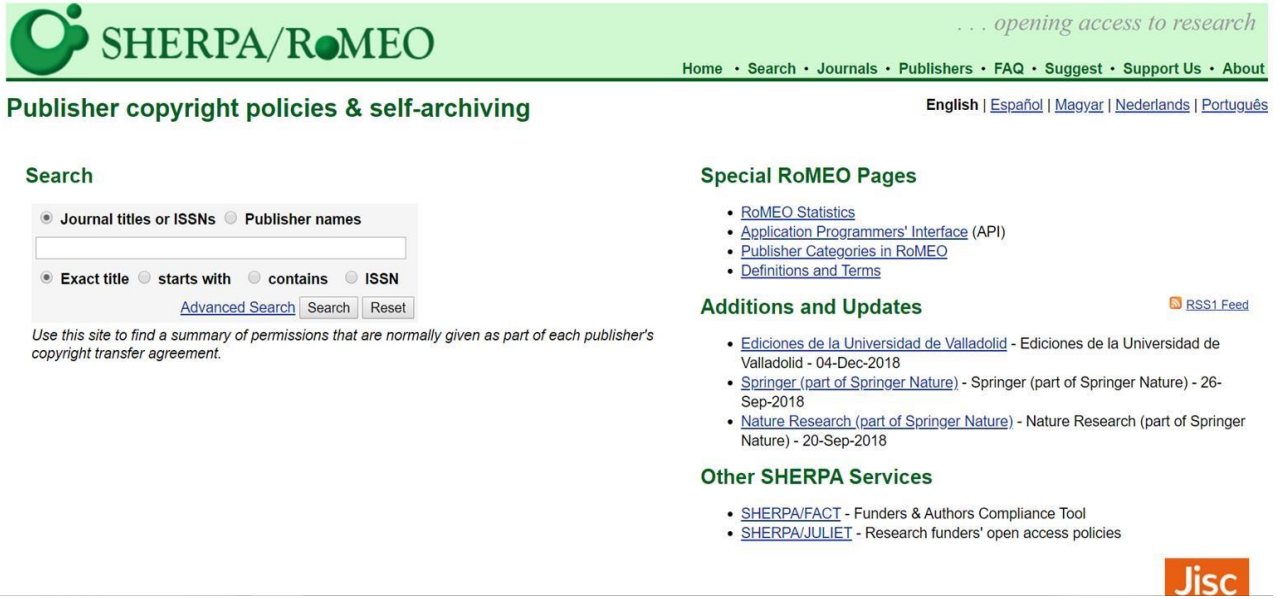


https://v2.sherpa.ac.uk/opendoar/

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

https://www.re3data.org/

Публикуване в ОА - правила за статии



https://v2.sherpa.ac.uk/romeo/

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Цифрови обекти

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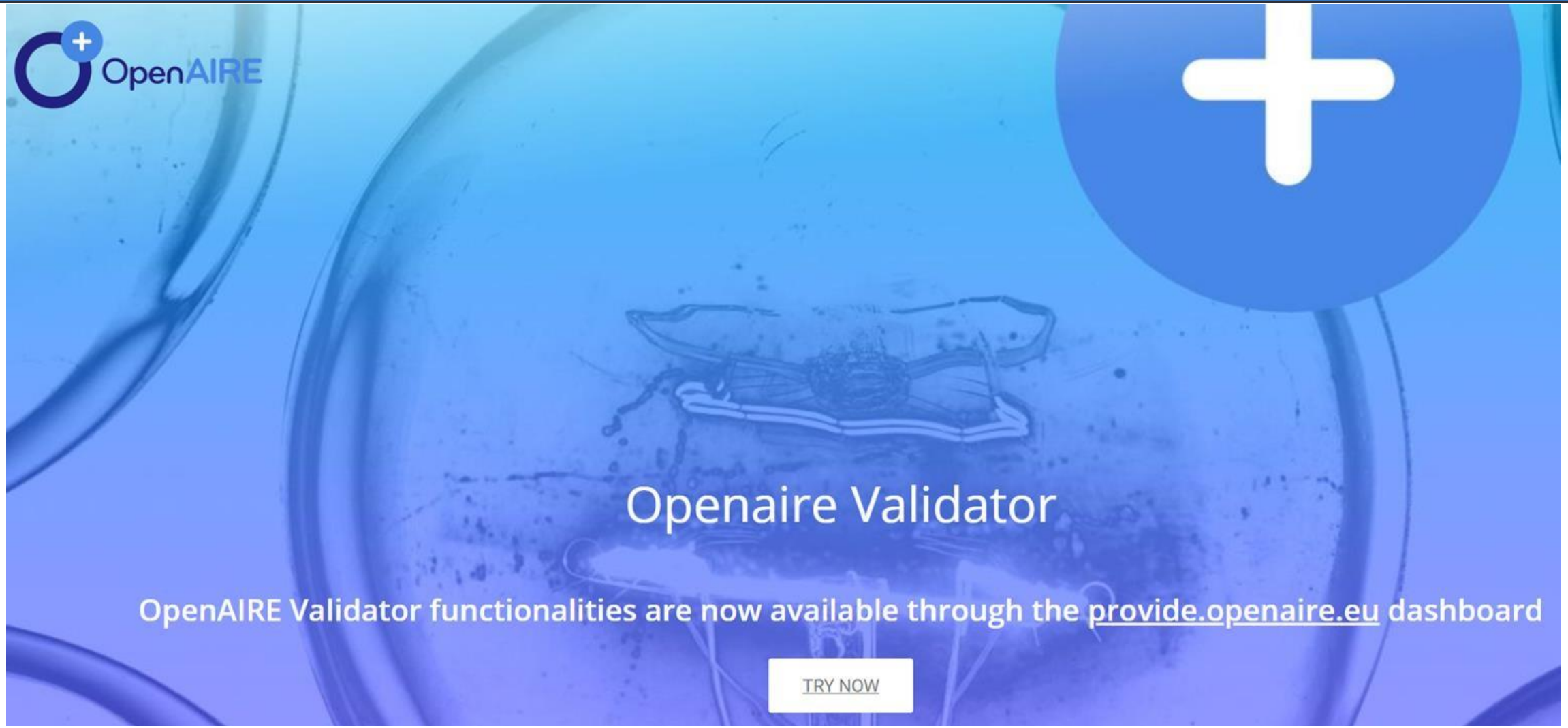
Други

RAiD

Validator



https://www.openaire.eu/validator/

Архиви в България

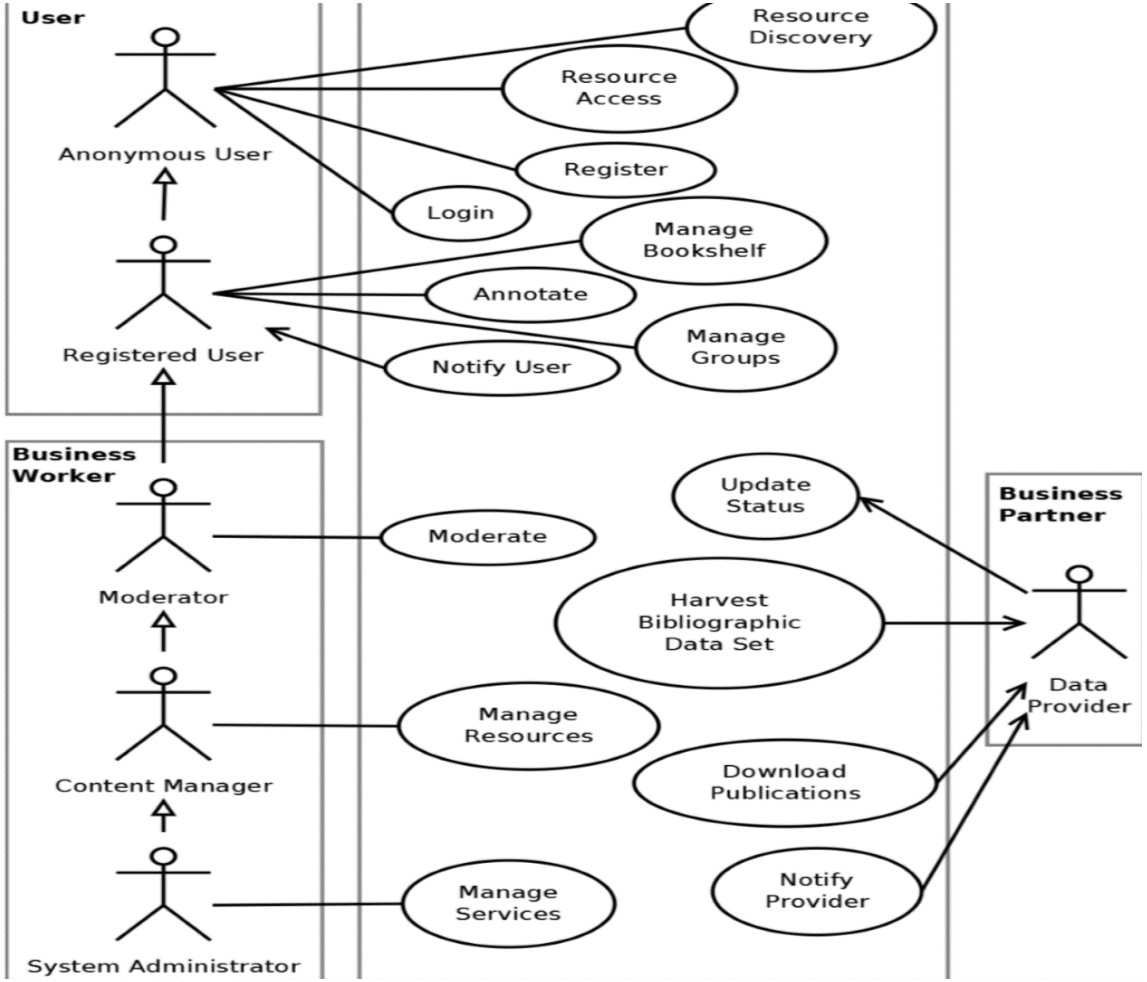
Базови функционалности:

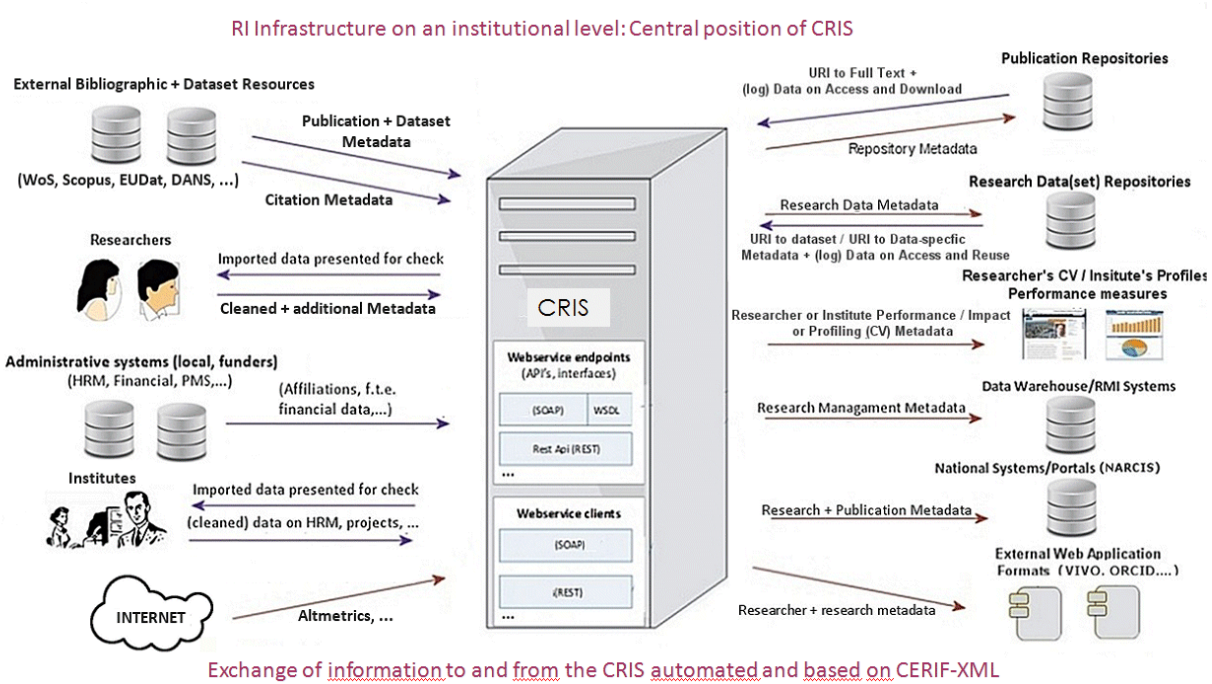
- Изграждане на архитектура на обединените инфраструктури за научни изследвания;
- Предоставяне на данни, основани на принципите на FAIR (достъпни, оперативно съвместими и повторно използваеми);
- Предоставяне на услуги, които покриват нуждите на потребителите;
- Използване на интерфейс за работа с данни в различни дисциплини;
- Създаване на правила за участие в BOSC.

Данните в BOSC ще доведат до:

- Архивиране на данни без ограничения за файлов формат;
- Създаване и поддържане на база от метаданни;
- Управление на достъпа, отчетност, статистики;
- Организиране и управление на съдържанието според структурата на организацията по различните звена
- Навигация и търсене в данни и метаданни;
- Потребителски интерфейс (уеб базиран);
- Програмен/машинен интерфейс за обработка или обмен на голям обем от данни;
- Интерфейс за оперативна съвместимост с OpenAIRE и EOSC.

Архитектура

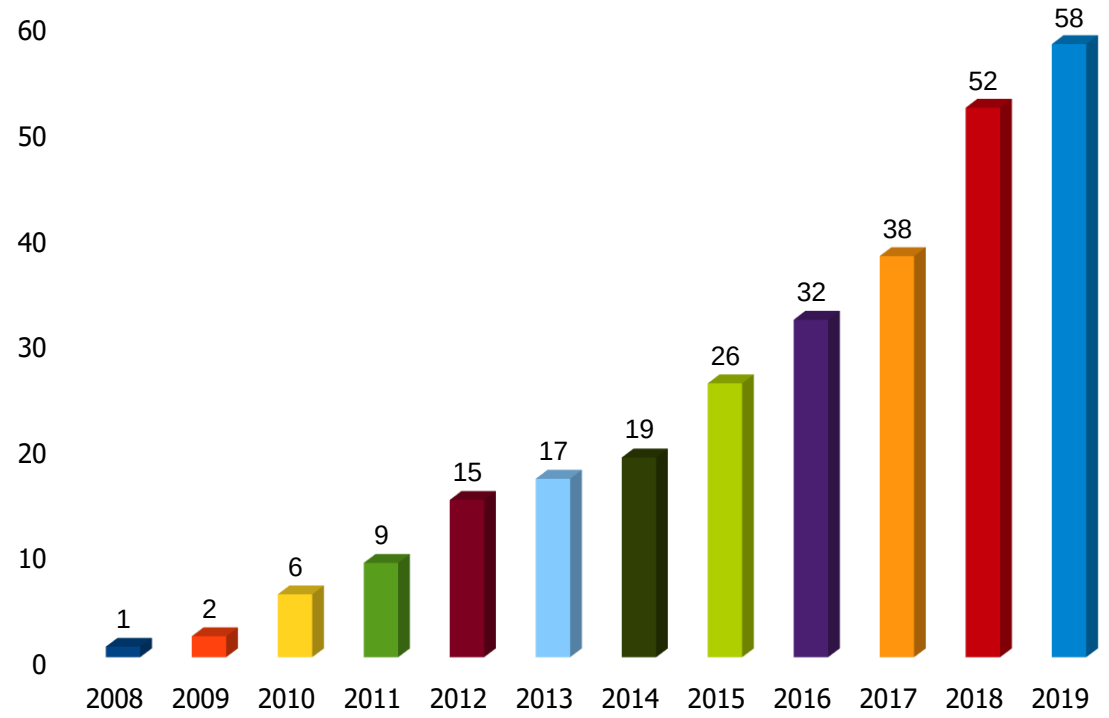




Архиви

Open Access Bulgarian Repositories 2019	Publications	Software	Link
New Bulgarian University Repository	2806	EPrints 3.3.12	http://eprints.nbu.bg
BulDML at IMI-BAS	2869	DSpace 1.6	http://sci-gems.math.bas.bg
Digital repository of Sofia University	1613	DSpace 1.8.2	https://research.uni-sofia.bg
Research BFU - Burgas Free University	801	Dspace 1.8.1	http://research.bfu.bg:8080/jspui/
Electronic Repository - Central Medical Library - MU, Sofia	1600	Dspace 3.0	http://nt-cmb.mu-sofia.bg:8080/jspui/
Medical University - Varna Prof. Dr. Paraskev Stoyanov	381	EPrints 3.3.15	http://eprints.mu-varna.bg
BGOpenAIRE at IMI-BAS	119	DSpace 1.6.2	http://www.bg-openaire.eu

Списания в България с отворен достъп



Институт по математика и информатика БАН

Цифровото хранилище Bulgarian Digital Mathematics Library (BulDML), поддържано от ИМИ-БАН, съдържа онлайн варианти на издания на института.

http://sci-gems.math.bas.bg/jspui/

https://bpos.bg

BPOS Bulgarian Portal for Open Science

НАЧАЛО | ОРГАНИЗАЦИИ | ПУБЛИКУВАНЕ | ОТВОРЕНА НАУКА | ВХОД | English

NIKOS National Initiatives for Open Science in Europe

ТЪРСЕНЕ НА ПУБЛИКАЦИЯ

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Още...

Editorial - Serdica Journal of Computing 2015

26 април 2018, Публикация, Отворен достъп

Автори: Stanchev, Peter

This special double issue of Serdica Journal of Computing is dedicated to the 80 th anniversary of the birthday of Professor Edward A. Friedman, internationally renowned scientist and innovative educator, versatile humanitarian, and member of our editorial board.

Handle: http://hdl.handle.net/10525/2895

Preface

26 април 2018, Публикация, Отворен достъп

Автори: Stanchev, Peter

In recent years, the research community has demonstrated considerable interest in Digital Culture (DC) and its online presentation, accessibility, exploitation, preservation and reuse through new tools and services to model, analyse and visualize vast amounts of DC data. The focus is on the searc ...

Teaching Materials Repository

8 юни 2011, Публикация, Отворен достъп

Автори: Stanchev, Peter; Nisheva-Pavlova, Maria; Geske, John

Repository | Gaming | Semantic Web

The paper presents results from the development of a methodology and corresponding software tools for building an academic repository.

The repository was filled up with gaming material. The repository architecture and key features of the search engine are discussed. The emphasis

falls on solutions of the large set of problems concerning the development of

proper mechanisms for semantics-based search in a digital repository.

* This work was supported in part by the FP7 projects: OpenAIRE – “Open Access In-

frastructure for Research in Europe”, EuDML – “The European Digital Mathematics Library”,

and by the Bulgarian National Science Fund under the Project D002-308 “Automated Metadata

Generating for e-Documents Specifications and Standards”.

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Публикацията е извлечена автоматизирано от хранилището на Институт по математика и информатика - БАН.

Подробна информация

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Title: Teaching Materials Repository

Authors: Stanchev, Peter
Nisheva-Pavlova, Maria
Geske, John

Keywords: Repository
Gaming
Semantic Web

Issue Date: 2010

Publisher: Institute of Mathematics and Informatics Bulgarian Academy of Sciences

Citation: Serdica Journal of Computing, Vol. 4, No 3, (2010), 371p-384p

Abstract: The paper presents results from the development of a methodology and corresponding software tools for building an academic repository. The repository was filled up with gaming material. The repository architecture and key features of the search engine are discussed. The emphasis falls on solutions of the large set of problems concerning the development of proper mechanisms for semantics-based search in a digital repository.

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ISSN: 1312-6555

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About

The Tenth International Conference on **Digital Presentation and Preservation of Cultural and Scientific Heritage—DiPP2020** aims at presenting innovative results, research projects and applications in the field of digitisation, documentation, archiving, representation and preservation of global and national tangible and intangible cultural and scientific heritage. The main focus is to provide open access to digitised cultural heritage and to set up sustainable policies for its continuous digital preservation and conservation. The priority area is the digital presentation and preservation of cultural and historical objects under conditions of risk, including those from the Burgas region. The forum will demonstrate innovative technologies and prototypes, including digital repositories, digital archives, virtual museums and digital libraries, which result from established practices and achievements in the field. Representatives of public and specialised libraries, museums, galleries, archives, centres, both national and foreign research institutions and universities are invited to participate and exchange experiences, ideas, knowledge and best practices of the field.

There will also:

Workshop on Open Access to Scientific Publications, Data and Data Science, Bulgarian Open Science Cloud which will primarily focus on the following activities:

- Open Access indicators;
- Disseminate partners' best practices;
- Discuss research problems in the field;
- Discuss the possibilities of establishing a network of open-access repositories;
- Contribute to the problems of the harmonization of national legislation and practices; and
- Discuss the possibilities of developing training courses for creators and managers of scientific digital repositories to ensure interoperability.

DiPP2020 co-organisers: Regional Academic Center - Burgas, Bulgarian Academy of Sciences, Regional Historical Museum – Burgas, Burgas Free University, Index Ltd.

DiPP2020 Conference: September 24–26, 2020

Location of the Event: Burgas, Bulgaria

Working language of the conference: English

The DiPP2020 is organized under the patronage of **UNESCO** and the support of **Burgas Municipality.**