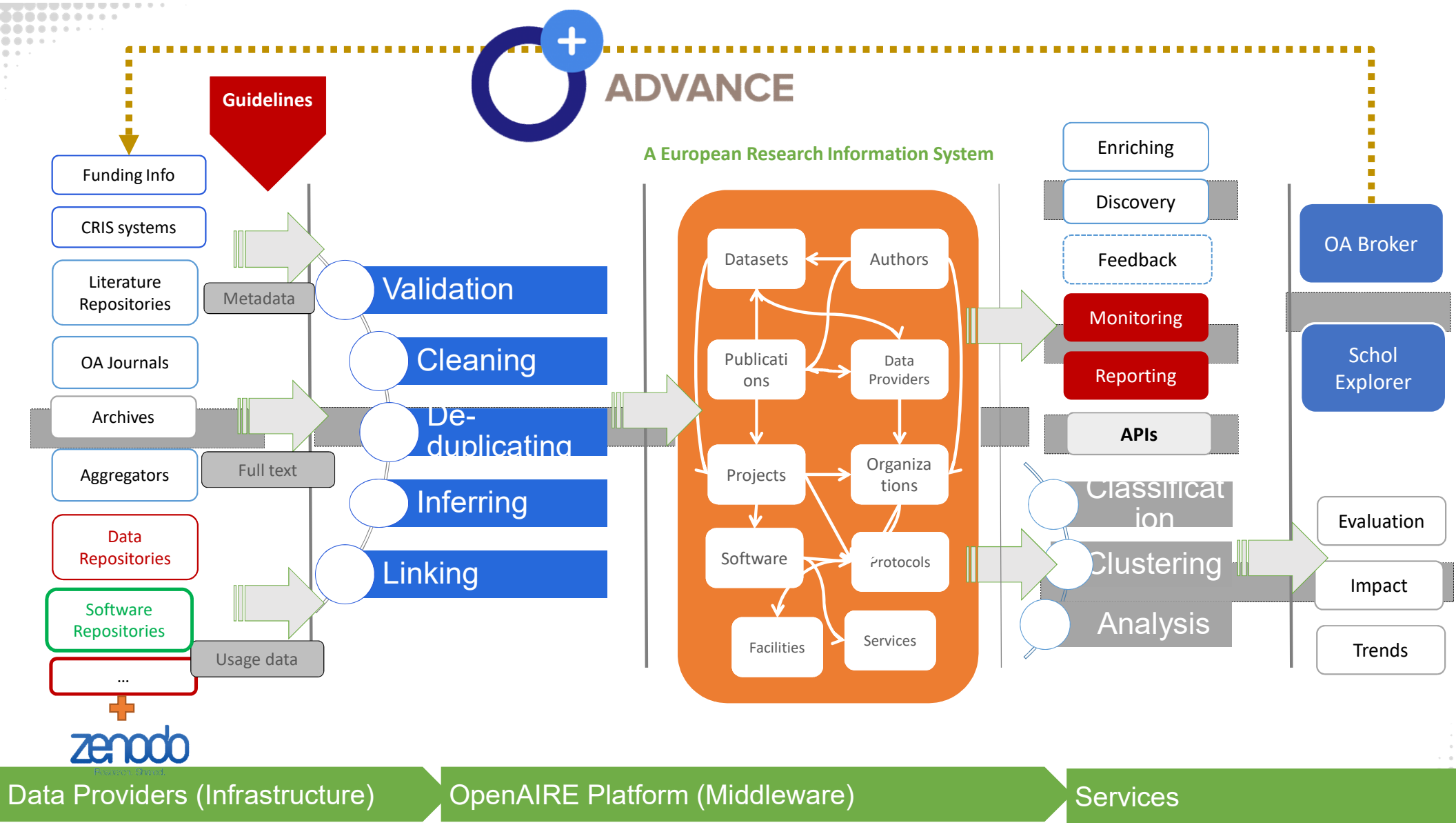
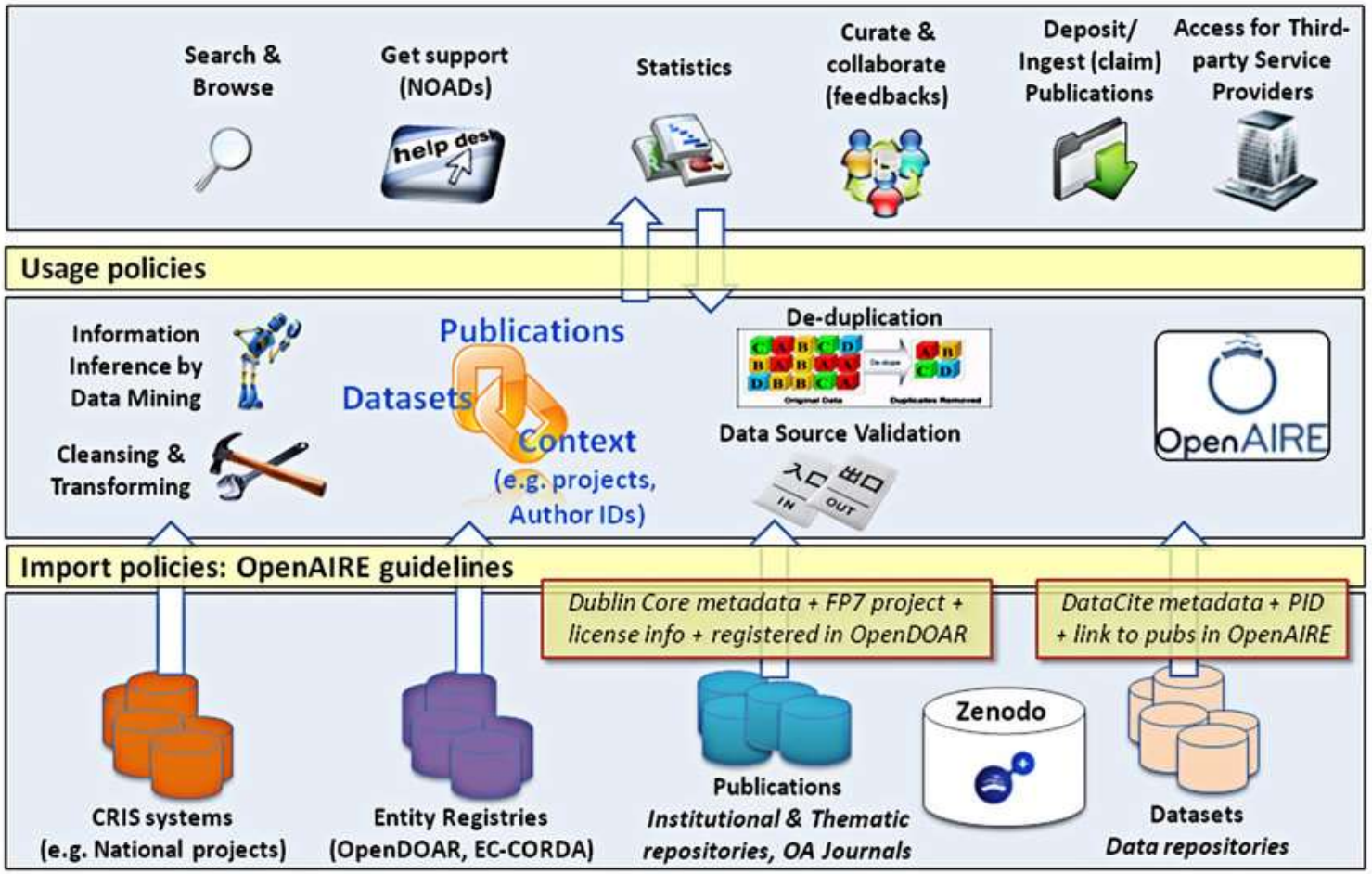
The Eleventh National Information Day: Open Science, Open Data, Open Access, Bulgarian Open Science Cloud

Overview of types of open access

type	preprint	gold (incl. diamond)	hybrid-gold	green
who?	author	publisher	publisher	author
where?	preprint archives	~10K open access journals	many subscription journals	institutional / subject repository
when?	before/around submission to jrnl.	simultaneous with publication	simultaneous with publication	upon acceptance, but often embargo
costs?	free	0-4000 USD	~1000-6000 USD	free
fulfill funder req.?	mostly not	always, but (possibly) affected now	always, but discussed now	often, but often not if embargoed
funding	n.a.	sometimes funder, UU OA fund 50%	sometimes funder / included in big deals	n.a.
license/copyright	choose CC-license, copyright retained	choose CC-license, often keep copyright	often CC in exclusive license for publisher	often none?


ADVANCE
A European Research Information System
Guidelines
Funding Info
CRIS systems
Literature Repositories
OA Journals
Archives
Aggregators
Data Repositories
Software Repositories
...
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
zenodo
Data Providers (Infrastructure)
OpenAIRE Platform (Middleware)
Services

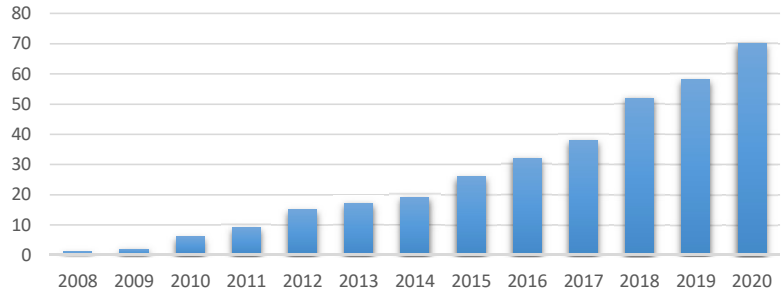
ADVANCE

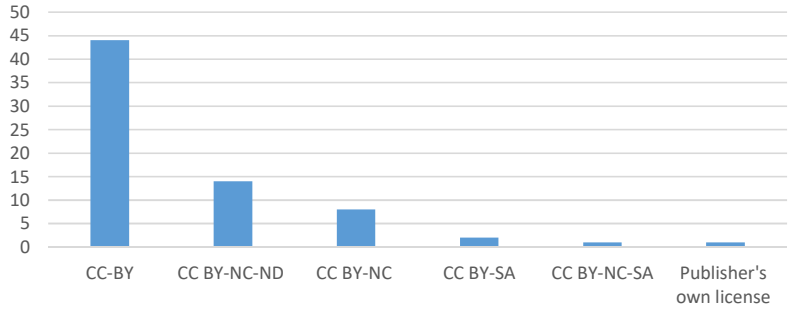

Search & Browse
Get support (NOADs)
help desk
Statistics
Curate & collaborate (feedbacks)
Deposit/ Ingest (claim) Publications
Access for Third-party Service Providers
Usage policies
Information Inference by Data Mining
Cleansing & Transforming
Publications
Datasets
Context
(e.g. projects, Author IDs)
De-duplication
Data Source Validation
IN
OUT
OpenAIRE
Import policies: OpenAIRE guidelines
Dublin Core metadata + FP7 project + license info + registered in OpenDOAR
DataCite metadata + PID + link to pubs in OpenAIRE
CRIS systems
(e.g. National projects)
Entity Registries
(OpenDOAR, EC-CORDA)
Publications
Institutional & Thematic repositories, OA Journals
Zenodo
Datasets
Data repositories

Bulgarian Open Access Repositories

Open Access Bulgarian Repositories 2020	Software	Link
New Bulgarian University Repository	EPrints 3.3.12	http://eprints.nbu.bg
BulDML at IMI-BAS	DSpace 1.6	http://sci-gems.math.bas.bg
Digital repository of Sofia University	DSpace 1.8.2	https://research.uni-sofia.bg
D.A.Tsenov Academy of Economics - Digital Library	DSpace 6.3-SNAPSHOT	http://dlib.uni-svishtov.bg/
Academic Research Repository at the Burgas Free University	Dspace 1.8.1	http://research.bfu.bg/
Electronic Repository - Central Medical Library - MU, Sofia	Dspace 3.0	http://nt-cmb.mu-sofia.bg:8080/jspui/
Medical Academic Repository - Medical University - Varna Prof. Dr. Paraskev Stoyanov	EPrints 3.3.15	http://eprints.mu-varna.bg
BGOpenAIRE at IMI-BAS	DSpace 1.6.2	http://www.bg-openaire.eu
Bulgarian Portal for open science	Custom software	https://pub.bpos.bg/login

Bulgarian Open Access Journals





Bulgaria Activities

In the Area of National Policy and Infrastructure:

- Analysis of good practices and tendencies in the development of the open science initiative in the EU, including studies of national policies, plans an e-infrastructures across the EU that are more advanced in the field of open science in order to achieve interoperability;
- The group responsible for the package “Storages for open scientific results” of the National Scientific Program "Information and Communication Technologies for a Single Digital Market in Science, Education and Security", created a model for Bulgarian Open Science Cloud that would serve as a prototype that research organisations and universities can use in the development of their institutional software platforms and digital repositories for preservation and publishing of scientific results;
- The National centre for information and documentation (NACID) developed and maintains the Bulgarian Portal for Open Science (BPOS.bg) and the national repository for open access to scientific information. The portal and the repository form a system that provides researchers and the public at large with access to scientific publications and other research outputs free of charge in an open and non-discriminatory manner. The system is developed in compliance with OpenAIRE Guidelines for Literature Repository Managers v.4. The Bulgarian Portal for Open Science provides quick and easy access to scientific information and publicly funded research outputs, including resources from institutional open access repositories in Bulgaria. The national repository is a trusted space that allows the long-term archiving and sharing of scientific publications and research outputs with open access.

Bulgaria Activities

In the Field of Training and Support

- Specific trainings on working with BPOS and the national repository were organized by NACID; special training for administrators and moderators from the research organizations and universities is also planned;
- A National Capacity Building - Bulgaria NI4OS training event was held by the Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences on 22nd of July 2020;
- Maintaining the National Open Access Desks, which connect researchers, research institutions, and policy makers at national level on the one end and the OpenAIRE-Advance project services on the other. The focus of the National Open Access Desks activities is on support for compliance with the EC Open Access policies;
- Teaching the academic staff (young and experienced researchers) and research project managers the best practices, examples and policies for open access, open data and open science practiced OA, and helping them acquire knowledge and skills writing, publishing and depositing articles, scientific data and materials in OA repositories, OA repositories maintenance, etc.;
- Organizing the National Seminar “Open Access for Open Science” during the Open Access week.

Bulgaria Activities

In the Field of Outreach and Dissemination

- Guidelines on sharing scientific publications with open access and using the national repository and the portal for open science are published in BPOS and are distributed within the research community;
- Instructions for publishing in the national repository are available on BPOS.
- A workshop on Data management was organized by the RDA BG Node on 24th of July 2020;
- RDA COVID-19 Recommendations and Guidelines are published on the RDA BG Node portal;
- National coordinators for The European COVID-19 Data Platform were appointed;
- Regular participation and active contribution to EOSC Governance Board meetings and the establishing of the EOSC legal entity;
- Participation in EOSC Landscape Validation Workshop, April 27th and 28th, 2020;
- Participation in the event EOSC Governance and Sustainability: NI4OS-Europe meets the EOSC GB country delegates, 8th of July 2020.

Bulgaria Activities

In the Field of Working with Funders

- Working with the National Science Fund (NSF) for the requirement that each funded project should provide open access to the results;
- The project reports to the National Science Fund are published with open access in BPOS.

Bulgaria Activities

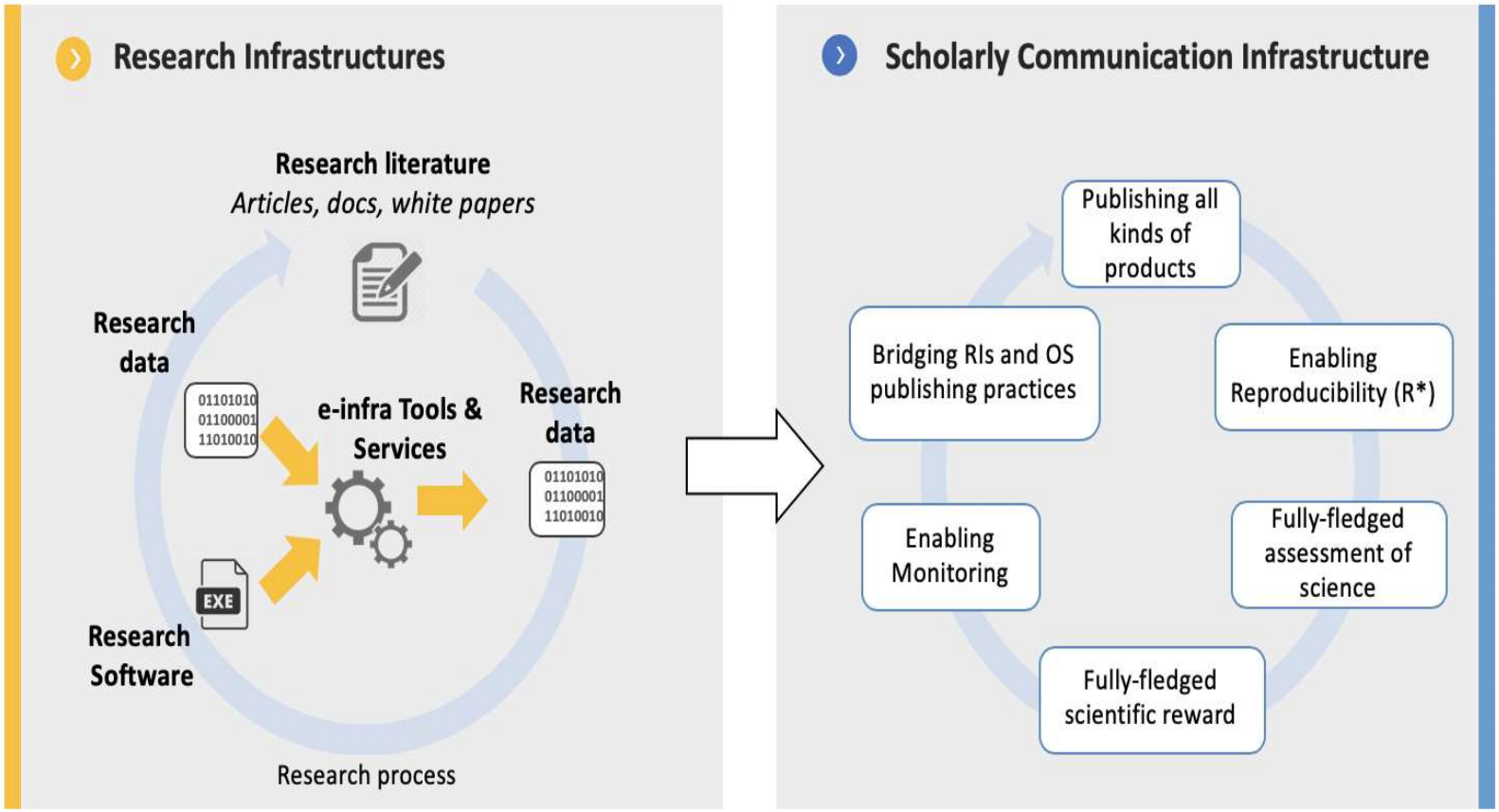
In the Field of Task Forces

- Participating in the Expert Group on European Open Science Cloud at the Ministry of Education and Science;
- Participating in the EOSC Nordic International Advisory Committee;
- Participating in the Research Data Alliance and establishing a RDA BG Node;
- Participating in the National Initiatives for Open Science in Europe – NI4OS Europe;
- Participating as a partner in the OpenAIRE.

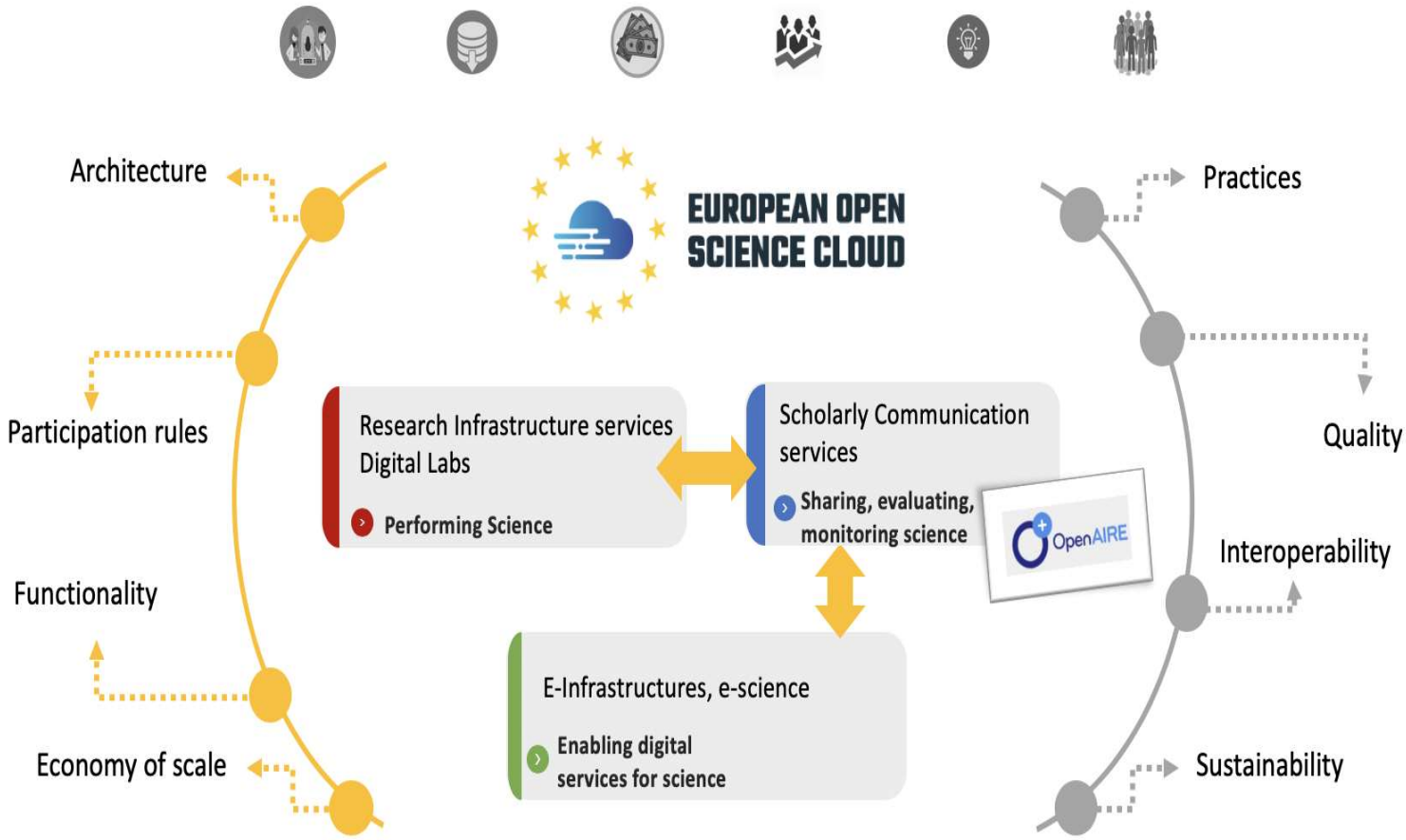
Why European Open Science Cloud?

- Now: A fragmented e-infrastructure landscape
- End-users, such as researchers, innovators or industry actors, often are unaware of the available e-infrastructure services
  - Even if users find out about the availability of a certain e-service, it is difficult to gather further information and compare it with other existing services.
- Service providers and data producers often have difficulty reaching out to potential new users
  - Even when they reach them, service providers often lack user feedback on the ways they could improve their offerings.

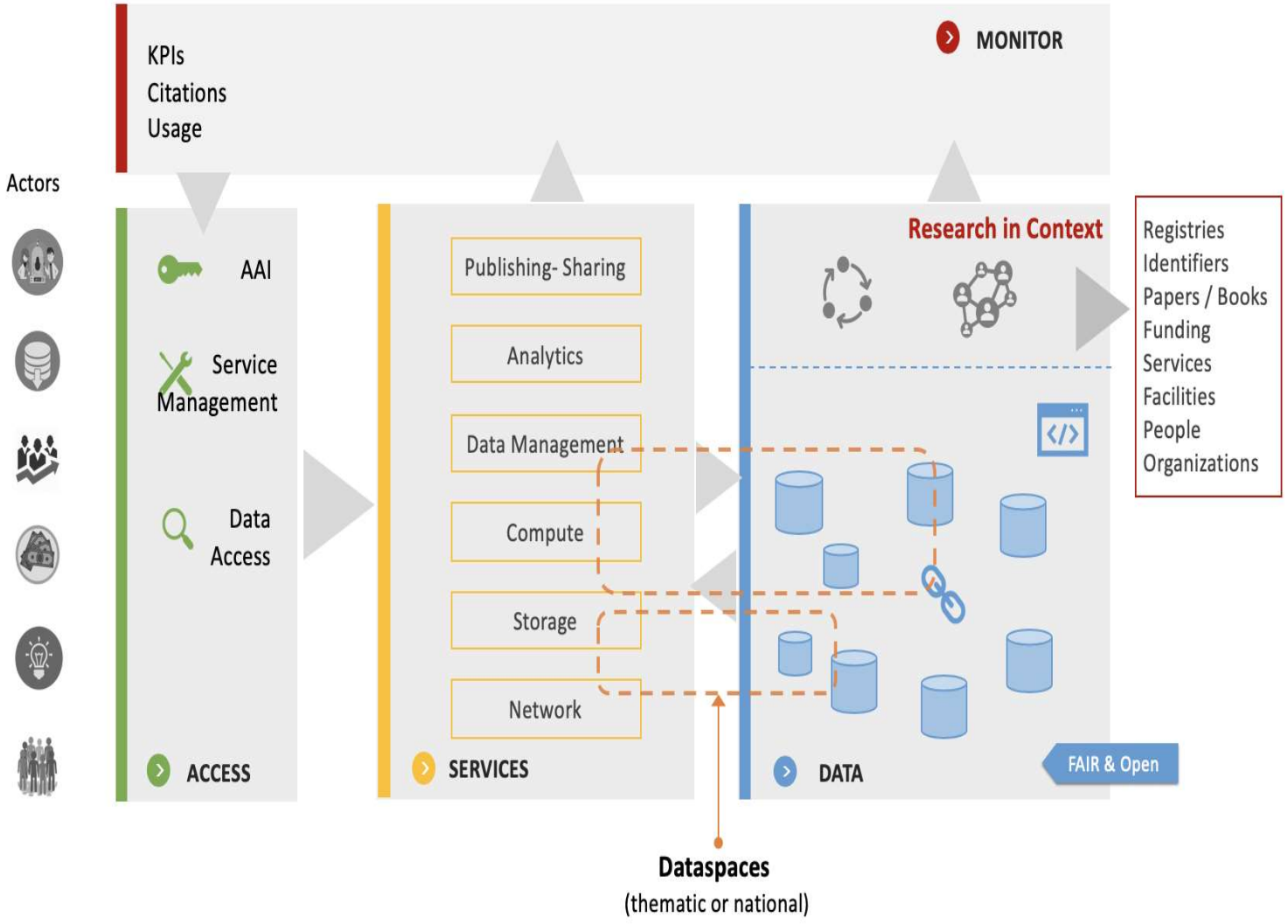
OpenAIRE



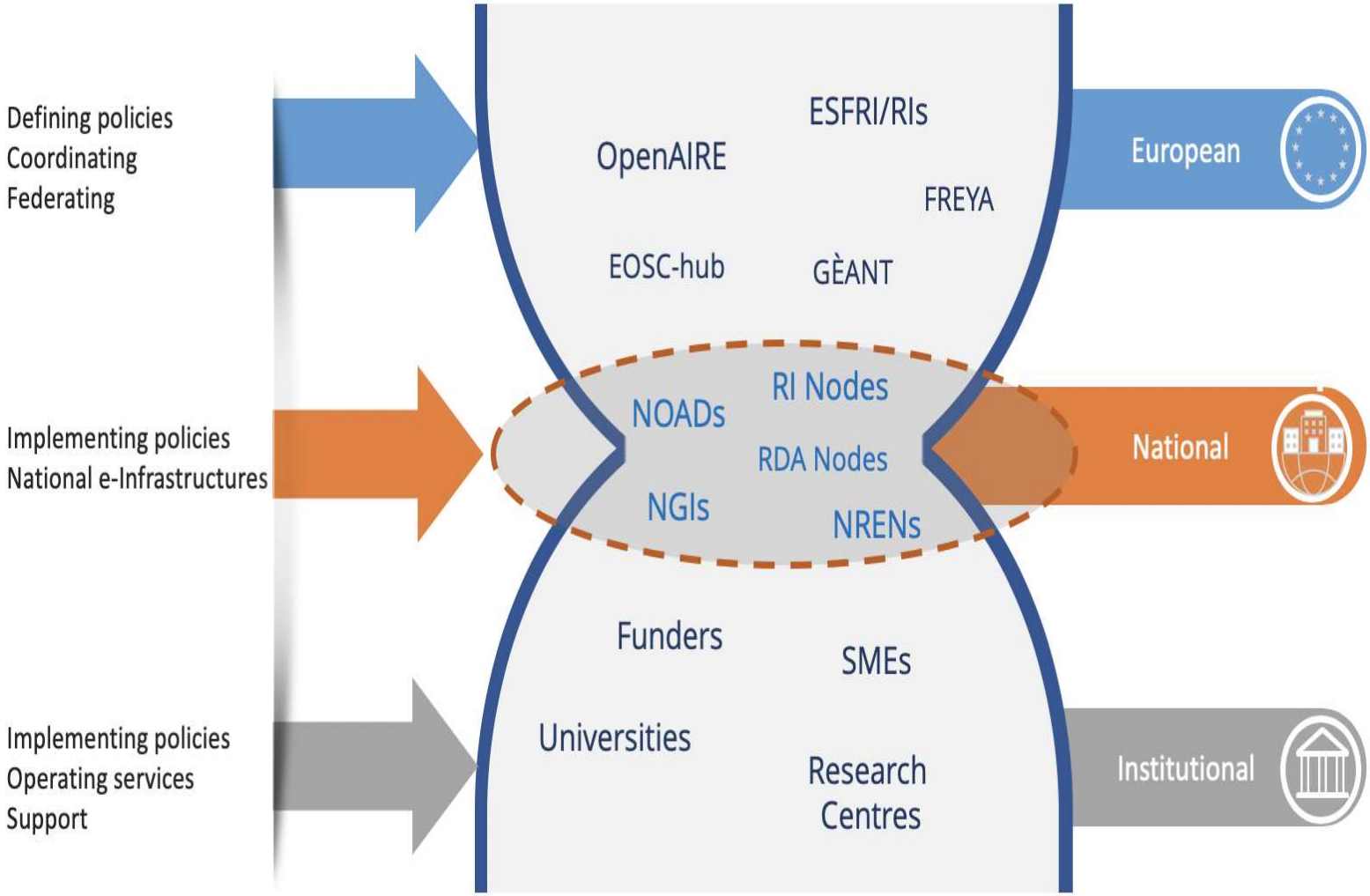
RESEARCH LIFE-CYCLE MAPPED TO SCHOLARLY COMMUNICATION PROCESSES



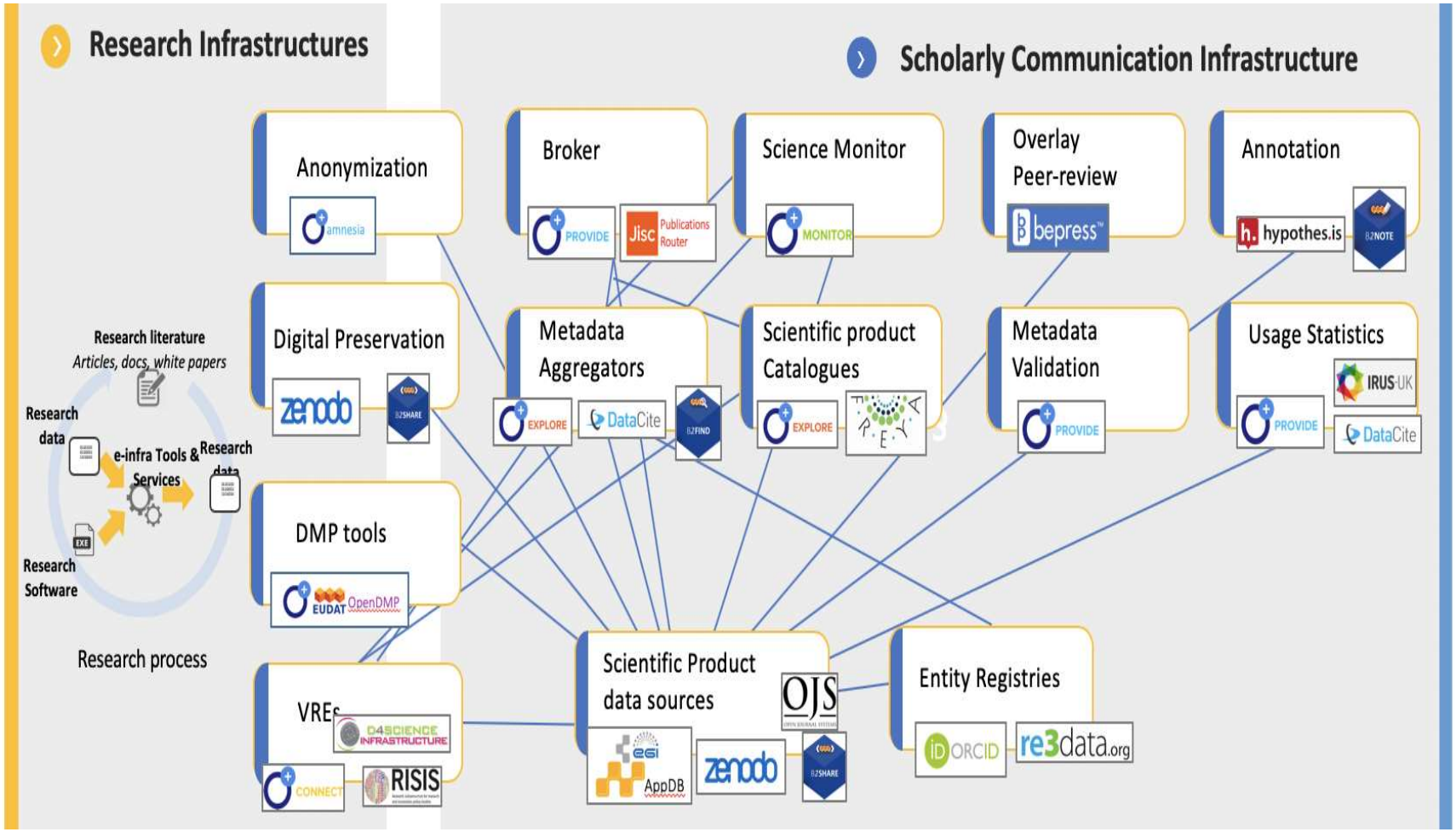
SCHOLARLY COMMUNICATION: A COMMON INTERFACE FOR EOSC.



EOSC DECONSTRUCTED: SERVICES, DATA, ACCESS



Players in EOSC and their interplay

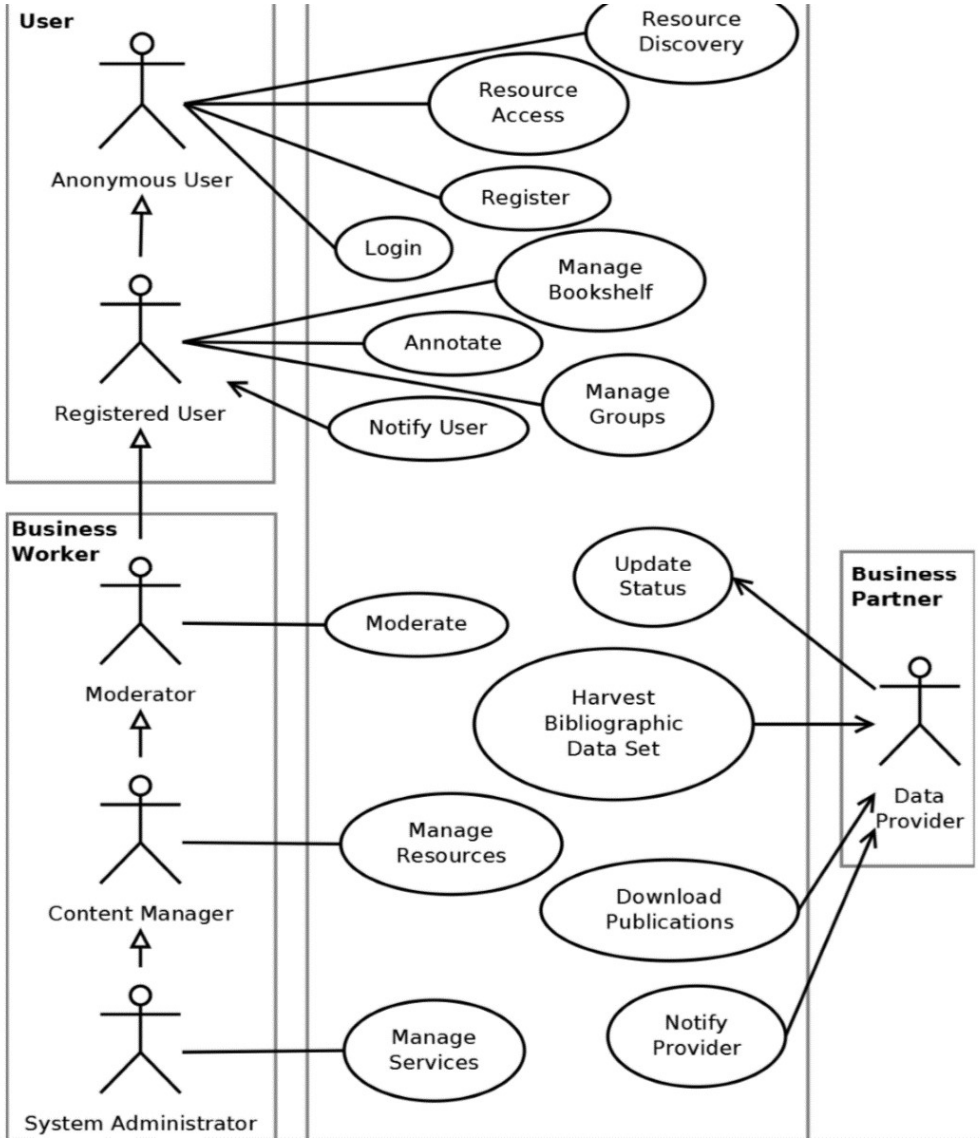


Key Focus Areas and Priorities for EOSC

BOSC Model

Architecture

BOSC should be a federation of existing and new research infrastructures, adding a layer to connect them and turn them into a Bulgarian research infrastructure. BOSC will essentially include a single gateway and a variety of pooled infrastructure research data committed to providing services as part of the EOSC.



BOSC Data

- Developing a better culture of management of research data and practical skills among scientists and innovators in Bulgaria, including actions related to scientific data;
- Developing tools, specifications, catalogues and data standards for FAIR (findability, accessible, interoperable and reusable) data within a secure and reliable environment, as well as supply-side services to assist scientists and innovators;
- Stimulating a demand for FAIR data through incentives to find data in Bulgaria.

The BOSC general resources will cover:

- Finding catalogues of data/services and metadata;
- Affordable persistent unique identifiers, data management plans;
- Interacting compliant standards and common metadata;
- Reusing common intellectual property rights and legal provisions.

BOSC Services

Unique identification and authentication service, as well as access point and system to BOSC resources;

- A secure and personalized work environment/space (diary, settings, compliance documents and unresolved issues);
- Access to relevant service information (BOSC status, list of unified data infrastructures, policy-related information, description of the compliance framework) and specific guidance;
- Services for finding, accessing, reusing and analyzing research data generated by others, available through appropriate data set catalogues and data services (analysis, synthesis, processing);
- FAIR data conversion services, for storing and securing long-term storage.

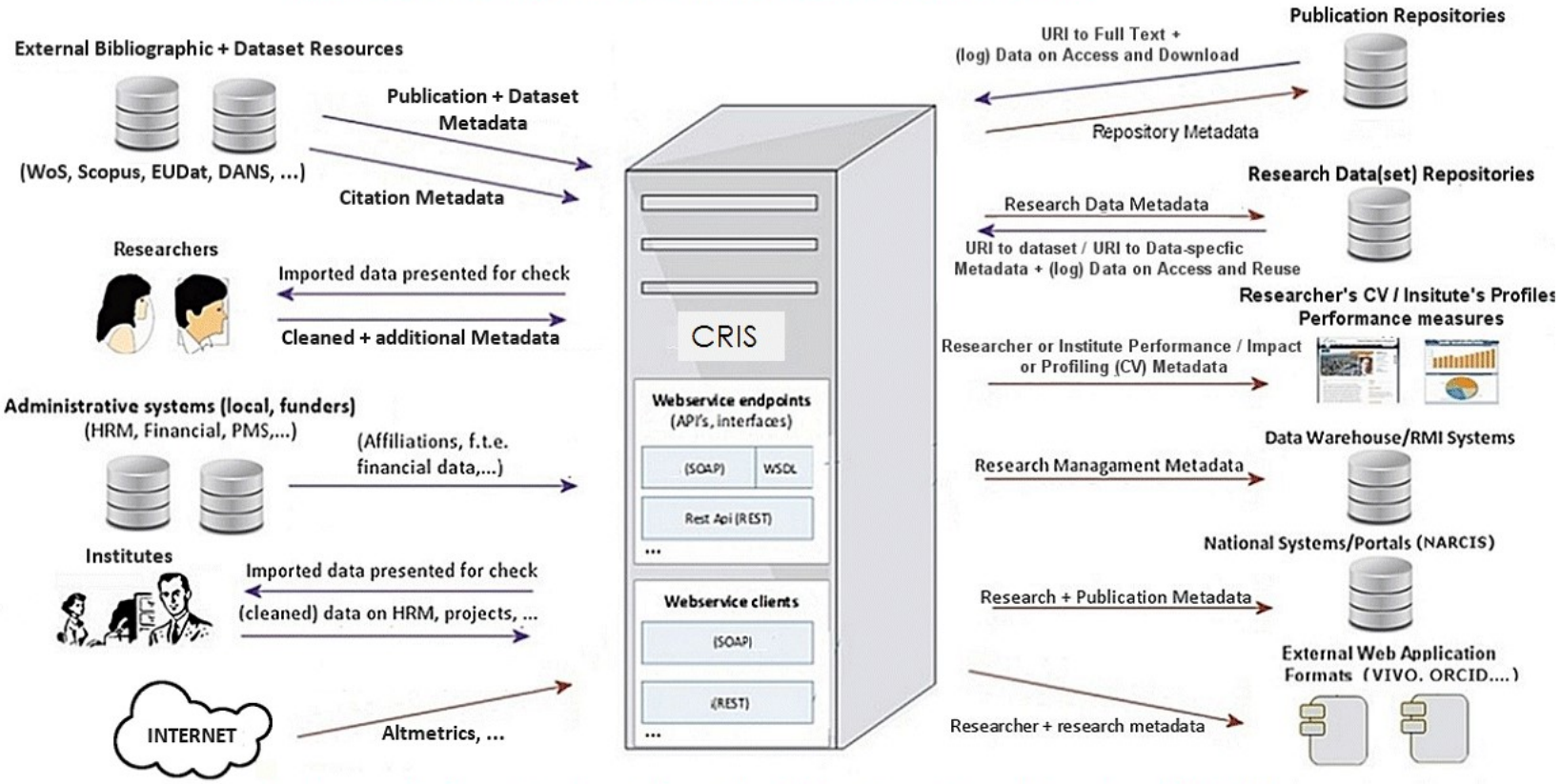
Tasks during BOSC construction

Identifying appropriate BOSC funding mechanisms;

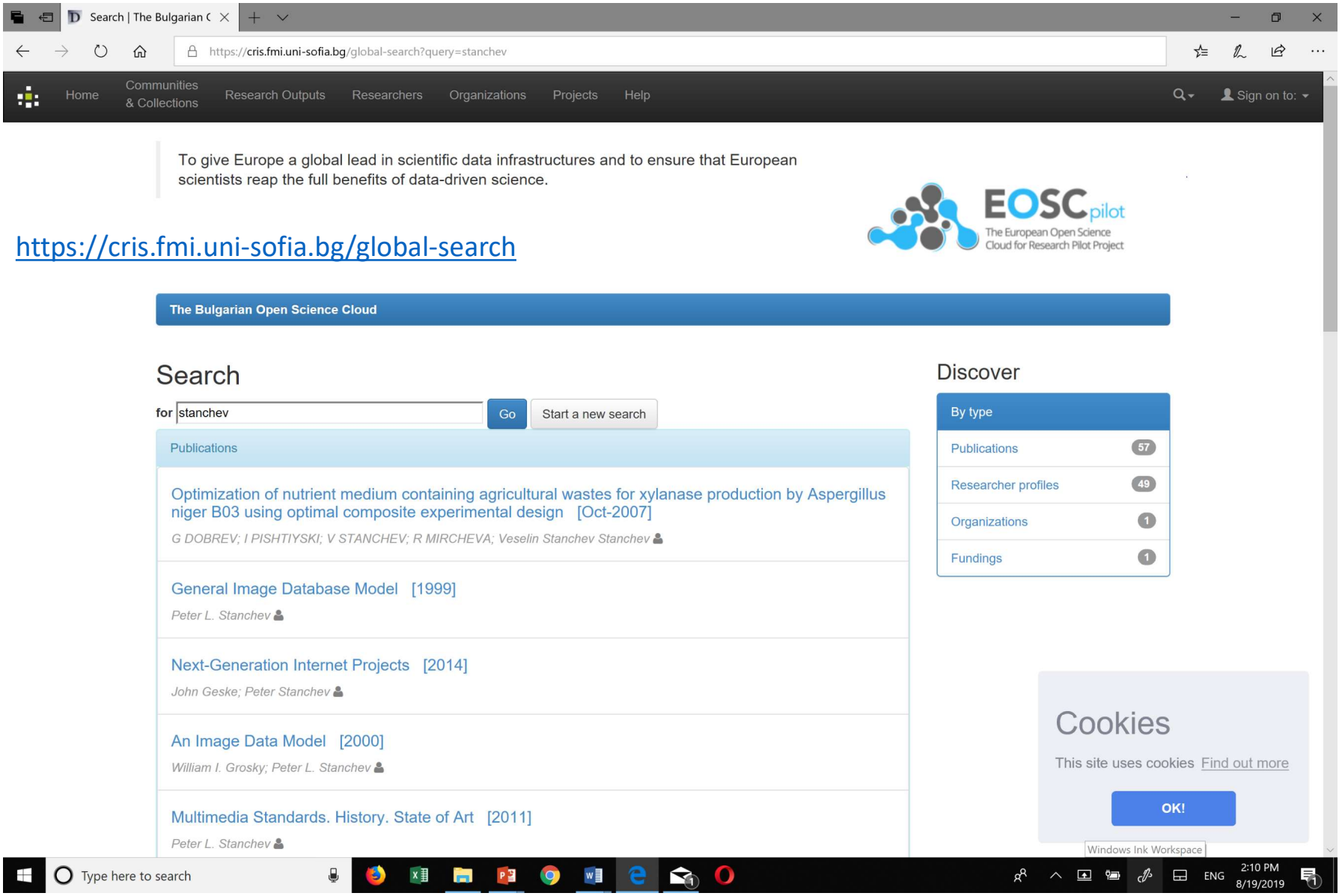
- Tackling the cybersecurity issues;
- Promoting data management and implementing data management plans as an integral part of the research process;
- Increasing the possibilities for optimal re-use of research data only if the data comply with the FAIR (findability, accessibility, interoperability and reusability) principles;
- Ensuring long-term storage and refinement of scientific data, taking into account the capacity of the research group or organizations, as well as ensuring the availability of metadata based on international standards.

First prototype of Bulgarian Open Science Cloud (BOSC)

RI Infrastructure on an institutional level: Central position of CRIS



Exchange of information to and from the CRIS automated and based on CERIF-XML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General Image Database Model [1999]
Peter L. Stanchev
Next-Generation Internet Projects [2014]
John Geske; Peter Stanchev
An Image Data Model [2000]
William I. Grosky; Peter L. Stanchev
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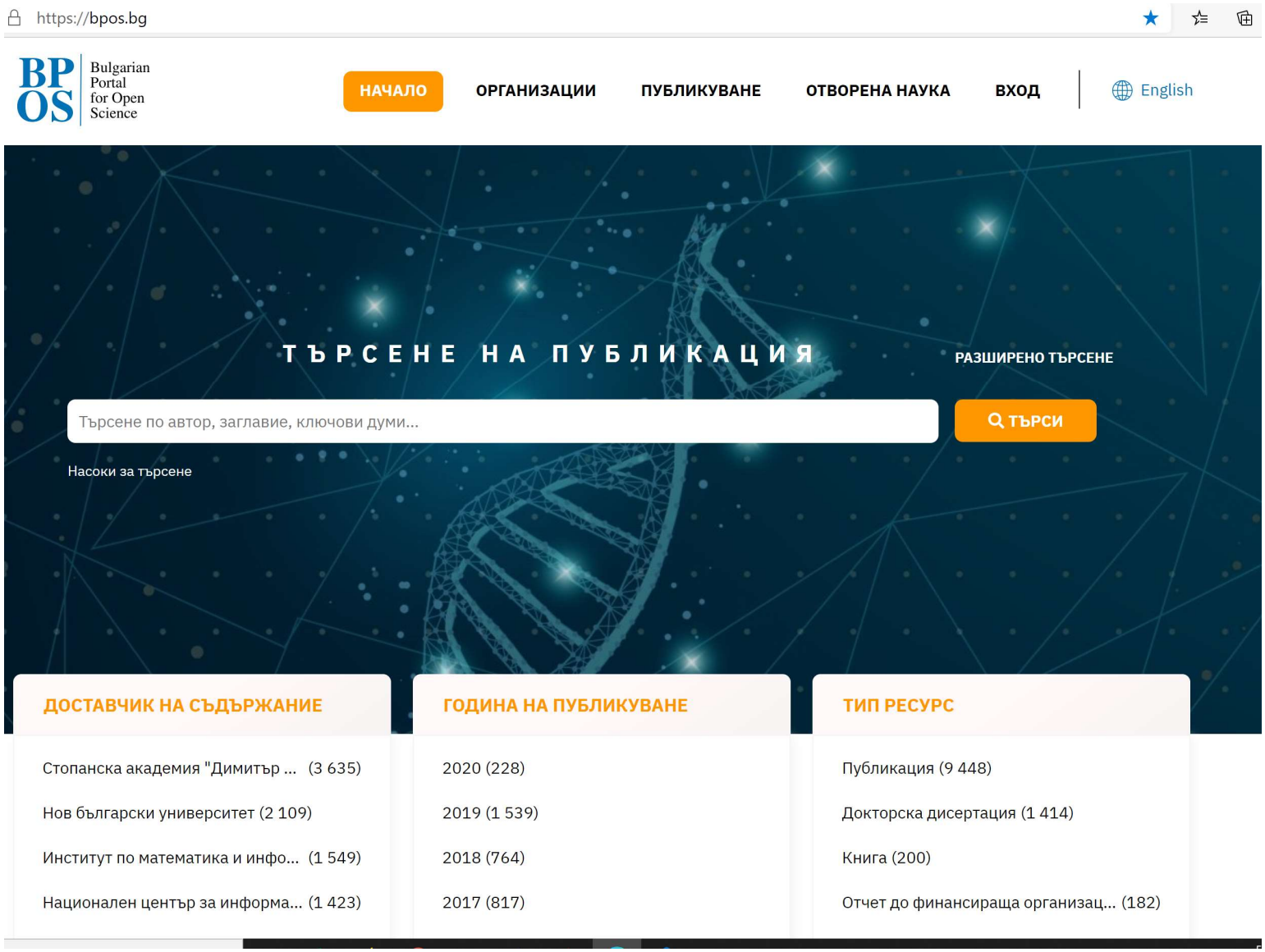
https://bpos.bg
BPOS
Bulgarian Portal for Open Science
НАЧАЛО
ОРГАНИЗАЦИИ
ПУБЛИКУВАНЕ
ОТВОРЕНА НАУКА
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Търсене по автор, заглавие, ключови думи...
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Насоки за търсене
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Стопанска академия "Димитър ... (3 635)
Нов български университет (2 109)
Институт по математика и инфо... (1 549)
Национален център за информа... (1 423)
ГОДИНА НА ПУБЛИКУВАНЕ
2020 (228)
2019 (1 539)
2018 (764)
2017 (817)
ТИП РЕСУРС
Публикация (9 448)
Докторска дисертация (1 414)
Книга (200)
Отчет до финансираща организац... (182)

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.

URI: http://hdl.handle.net/10525/1601

ISSN: 1312-6555