



Mojca Kotar
University of Ljubljana

INFORMATION SOURCES

OPEN SCIENCE



Welcome Information Event, University of Ljubljana, 14 February 2019



@openaire_eu



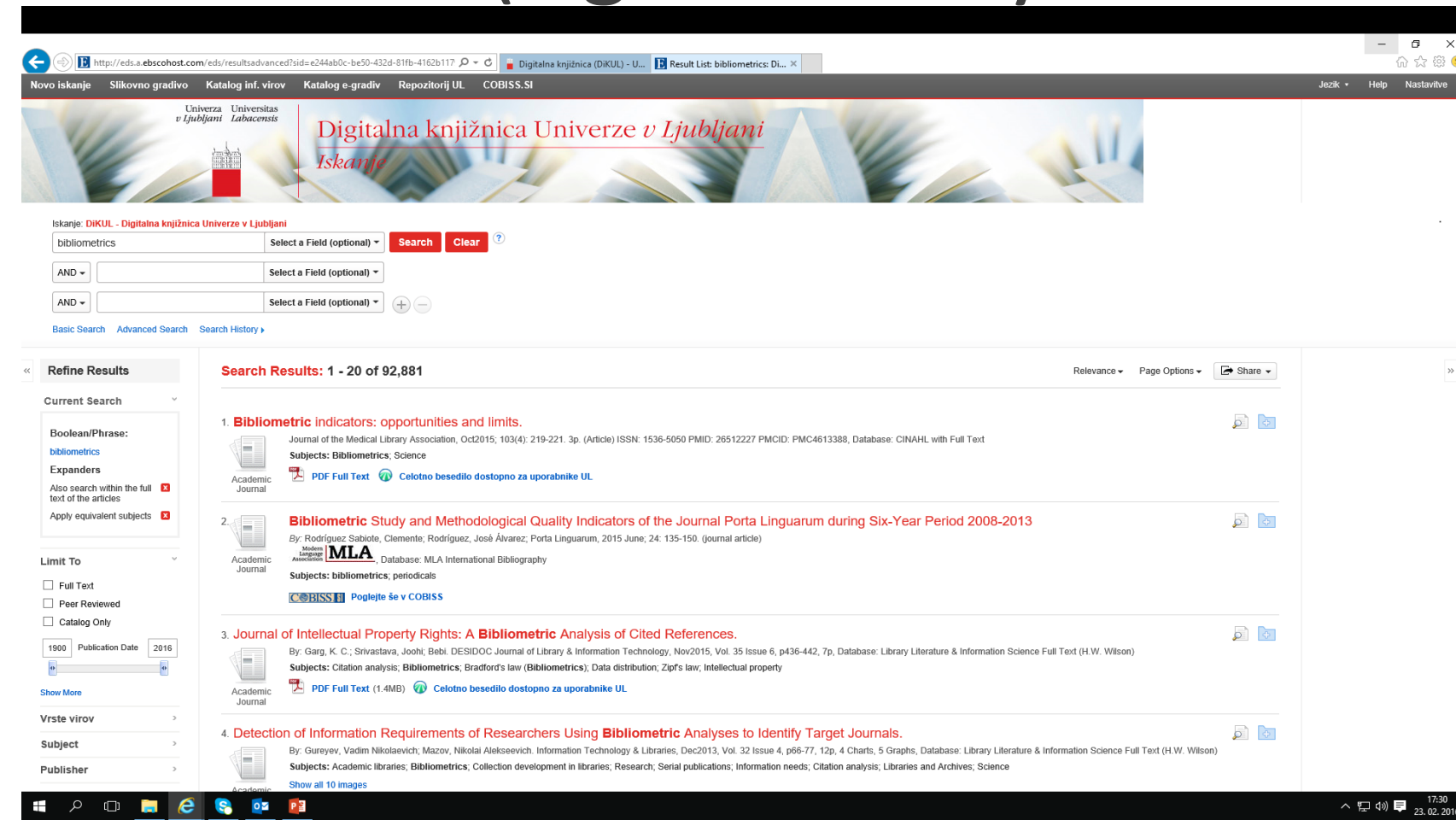
Information sources at the University of Ljubljana

Library system and sources

- Sources on all topics of sciences and arts
- 40 libraries
- Elsevier, Wiley, Springer, Nature, Taylor & Francis, ACS, IEEE/IEL, JSTOR, EBSCO, Emerald, Sage, Web of Science, Scopus, many specialised sources
- more than 20,000 licensed e-journals and more than 170,000 licensed e-books
- COBISS.SI – national library catalogue and services
- SICRIS – national CRIS
- national portal Open Science Slovenia (access to fulltexts from Slovenian repositories)

Digital Library of the University of Ljubljana

- No authentication if accessed from the UL computers
- Remote access: membership number and password in the library (this is also used for COBISS/My Library)
- Some sources can be accessed via Shibboleth (digital identity of UL needed)



A decorative pattern of gray dots of varying sizes is located in the corners of the slide, forming a frame around the central text.

Open access

Open access in the European Research Area (ERA)

Horizon 2020, national open access strategy:

- Obligatory open access to peer-reviewed articles from co-funded projects; monographs, proceedings, grey literature „strongly encouraged“
- Pilot – default open research data, opt-out possible

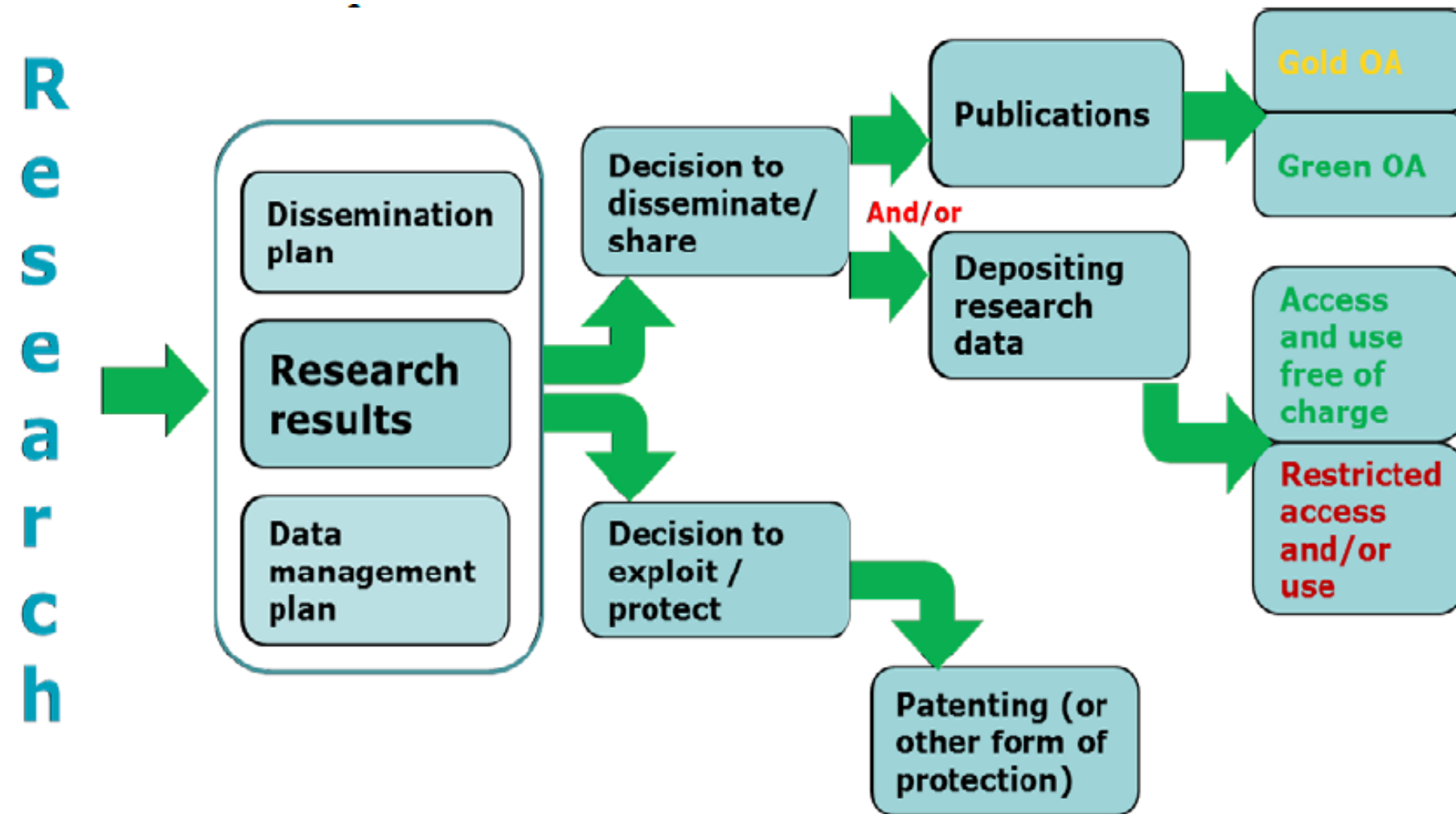
[Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020](#)

[Guidelines on FAIR Data Management in Horizon 2020](#)

[Commission Recommendation of 25.4.2018 on access to and preservation of scientific information](#)

[National Strategy of Open Access to Scientific Publications and Research Data in Slovenia 2015-2020](#)

Decision on dissemination of results or protection of intellectual property rights



Scheme from [Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020](#)

H2020 Programme: Annotated Model Grant Agreement, 6 December 2018

ARTICLE 29 — DISSEMINATION OF RESULTS — OPEN ACCESS — VISIBILITY OF EU FUNDING59

| | | |
|------|---|----|
| 29.1 | General obligation to disseminate results | 59 |
| 29.2 | Open access to <u>scientific publications</u> | 60 |
| 29.3 | Open access to <u>research data</u> | 61 |
| 29.4 | Information on EU funding — Obligation and right to use the EU emblem..... | 61 |
| 29.5 | Disclaimer excluding <i>[Commission]</i> <i>[Agency]</i> responsibility | 62 |
| 29.6 | <u>Consequences of non-compliance</u> | 62 |

**If the consortium decides to take part
in the Open Research Data Pilot**

A decorative pattern of gray dots of varying sizes is located in the corners of the slide, forming a frame around the central text.

Peer-reviewed articles

Open peer-reviewed articles

Green OA = articles published in (subscription) journals + final peer-reviewed manuscripts deposited in repositories:

- © 2018 Publisher
- Publisher allows deposit of a final peer-reviewed manuscript in a **repository** (embargo period likely implies)

Gold OA = open journals (some demand Articles Processing Charges, eligible costs in EU and national projects)

- CC-BY license: © 2018 Author1 et al.
- CC-BY license allows deposit of the published article in a **repository**, content available immediately, diverse re-use within the scope of Creative Commons open licenses

Hybrid journals = individual article in a subscription journal is openly accessible (Articles Processing Charges imply, eligible costs in EU and national projects):

- CC-BY license: © 2018 Author1 et al.
- CC-BY license allows deposit of the published article in a **repository**, content available immediately, diverse re-use within the scope of Creative Commons open licenses



Repository of the University of Ljubljana

Open Science Slovenia

OPEN ACCESS

DiKUL

A⁻ A⁺

slv | eng

Search

Browse

New in RUL

About RUL

In numbers

Help

Sign in

Deposit of scientific publications

Intro

The European Commission has determined that open access to all peer-reviewed publications from projects, co-financed by the next framework programme for financing of research and innovation Horizon 2020, will be a general principle. A pilot for open access to research data will be developed and will take into consideration the specificities of scientific areas and sensitive aspects of research data like privacy, trade secrets, national security, legitimate commercial interests and intellectual property rights (details here).

The European Commission recommends that EU Member States adopt the same policies for open access to the research results, co-financed from national public budgets, as will apply to Horizon 2020. Regarding national open access environments the Member States are recommended to ensure that guidance is provided to researchers. E-infrastructures should be built for deposit, access to and preservation of open access publications and data.

In Slovenia the national information portal openaccess.si has been established in 2011. In 2013 the Slovenian universities have built institutional repositories for open access to diploma, master and doctoral theses and research publications and the national open science portal. The project was part financed by the European Regional Development Fund and the Ministry of Education, Science and Sport.

Compliance of university repositories with OpenAIRE Guidelines will enable the researchers to fulfill the requirements of Horizon 2020 Framework Programme regarding open access to publications from co-financed research.

Metadata of master and doctoral theses from Slovenian universities will be included into the DART-Europe portal.

Data for COBISS bibliography and repository record

Typology

Keywords in Slovenian

Key words in English

OpenAIRE compatibility

DATA ON PROJECT

Funder

Program of funding

Project title

Project acronym

Project number

DATA ON ARTICLE

Version of article is:

- Peer-reviewed manuscript, accepted for publication
- Published article

Date of publication

Embargo length (if applicable)

Permanent identifier (e.g., DOI)

URL to the published article



FAIR and open research data

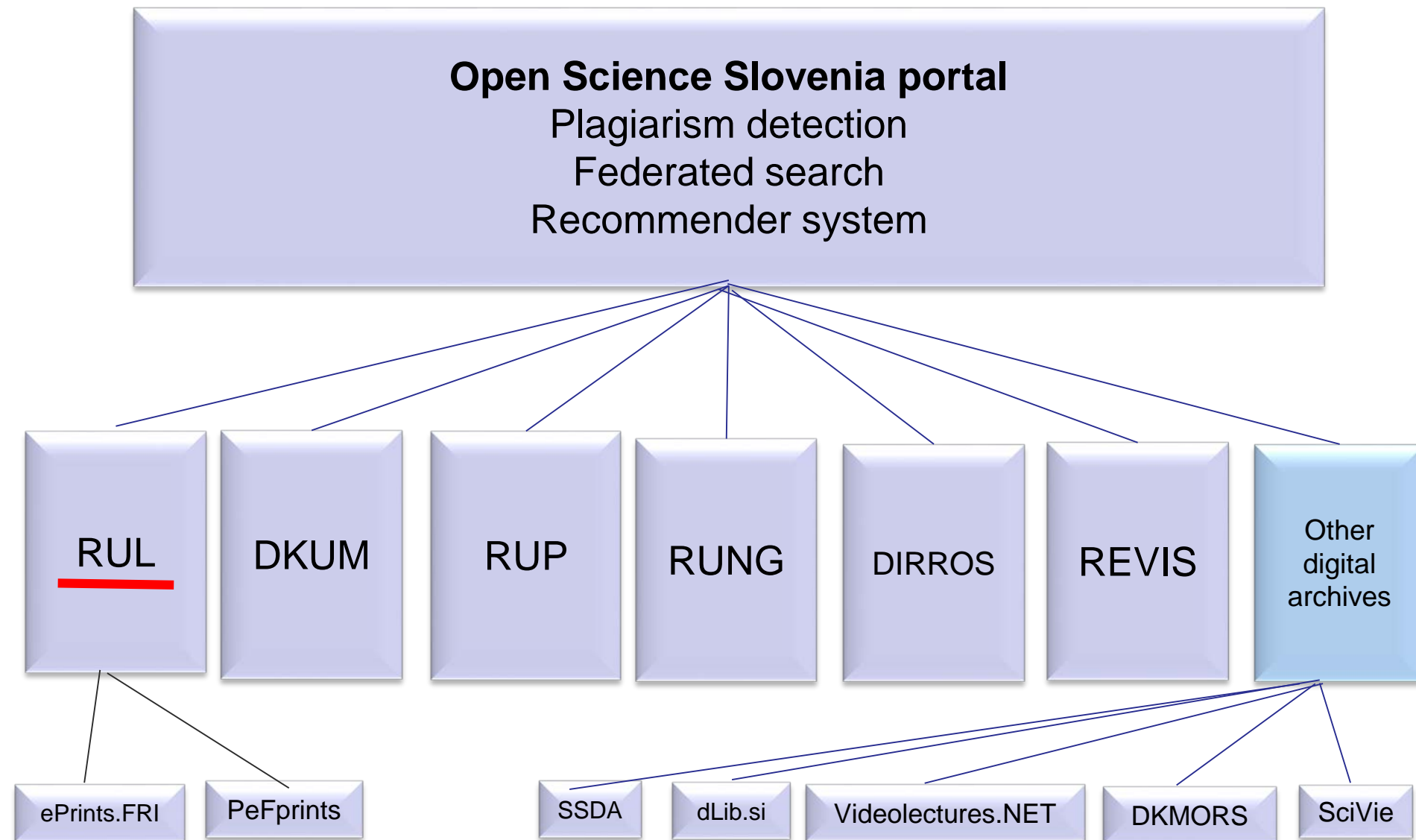
H2020: „As open as possible, as closed as necessary“

- Pilot for all topics and calls of H2020
- Open access to research data, needed to validate the results, presented in peer-reviewed publications
- Reasons for opting out: commercial exploitation, security, intellectual property rights, personal data, might jeopardise project's main objective, other eligible reasons
- **FAIR** = **F**indable, **A**ccessible, **I**nteroperable, **R**eusable
- Data management plan (DMP) in first six months, updating till end of project:
 - What data will be generated, ethical issues
 - How it will be curated and preserved, secured, costs
 - Which part will be open (and how)
- [DMPonline](#)
- [re3data.org - Registry of Research Data Repositories](#)
- [Data Management in H2020 Manual](#)



Aggregation of metadata at the national and European portals

Slovenian infrastructure for open access (publications, ETDs, social sciences data)



**All Slovenian literature
repositories are
OpenAIRE compatible**



Open Science Slovenia

ACCESS TO KNOWLEDGE FROM SLOVENIAN RESEARCH ORGANIZATIONS

SLOVENSKO | **ENGLISH** A+ | A-

Home **Advanced search** Browse Statistics Mobile Open data About the project Contact

OPEN ACCESS TO CONTENT

Digital Library of the University of Maribor
Repository of the University of Ljubljana
Repository of the University of Primorska
Repository of the University of Nova Gorica
Social Science Data Archives
VideoLectures.NET
Digital Library of Slovenia
NUK Web Archive
Digital library of Ministry of defence
Repository Sci Vie

ACCESS TO PAID CONTENT

Digital Library of the University of Ljubljana
Metasearch IZUM
MEgasearch NUK

ABOUT OPEN ACCESS

openaccess.si
OpenAIRE
SHERPA/RoMEO

RESEARCH IN SLOVENIA

Ministry of Education, Science and Sport
Slovenian Research Agency
Slovenian Current Research Information System

Insert search term

Search

175,572 full text documents

Recently added documents:

Digital Library of the University of Maribor:

TEMATSKI ZEMLJEVID EVROPE ZA SLEPE IN SLABOVIDNE UČENCE
UČNI PRIPOMOČKI ZA POUČEVANJE NEMŠČINE ZA SLEPE IN SLABOVIDNE UČENCE
ŠOLSKE IN OBŠOLSKE NARAVOSLOVNE IN TEHNIČNE INTERESNE DEJAVNOSTI V PREKMURJU
ŽELENE KOMPETENCE ŠTUDENTOV PREDŠOLSKE VZGOJE NA PODROČJU ŠPORTNIH DEJAVNOSTI V VRTCU
IGRAJMO SE GLEDALIŠČE: ŠTUDIJA PRIMERA
POZNAVANJE SLOVENSkih LJUDSKIH PLESOV
OSNOVNOŠOLCEV NA RAZREDNI STOPNJI IZOBRAŽEVANJA

Repository of the University of Ljubljana:

UPORABA TEORETIČNIH MODELOV ELEKTROPORACIJE LIPIDNE MEMBRANE
ANALIZA NELEGALNEGA TRGA Z MARIHUANO V SLOVENIJI IN OCENA DAVČNIH POSLEDIC
IZ OCENE PREDLOGA UMETNIŠKEGA PROJEKTA "NESOJENI KAVBOJI" MARTINA RAMOVEŠA ZA FAKULTETNO PREŠERNOVO NAGRADO 2015 : OB RAZSTAVI NESOJENI KAVBOJI: GLASBENI ALBUM V STRIPU
NESOJENI KAVBOJI : GLASBENI ALBUM V STRIPU
USMERNIŠKA DIODA ZA VISOKE NAPETOSTI
PRIMERJAVA RAZLIČNIH METOD MERITEV OZEMLJITVENE UPORNOSTI DALJNOVODNIH STEBROV

CONTENT TYPES KEYWORDS

Undergraduate Thesis (62877)
Original Scientific Article (33085)
Videolectures and teaching material (19361)
Not set (13852)
Master's Thesis (9741)
Professional Article (5678)
Review, Book Review, Critique (4303)
Review Article (3923)
Final Research Report (2974)
Published Scientific Conference Contribution (2913)
Other Component Parts (2688)
Doctoral Dissertation (2292)
Published Scientific Conference Contribution Abstract (1353)
Short Scientific Article (861)
Independent Scientific Component Part or a Chapter in a Monograph (810)
Popular Article (734)
Published Professional Conference Contribution (669)
Specialist Thesis (643)

Show all

Uses
COBISS
Typology



Publications

Research Data

Projects

Organizations

Data Providers

Search

- Publications, data, projects, ...
- all
- publications
- research data
- projects
- organizations
- data providers
- Data Providers
- General information





Open science is
the future

Plan S

- [cOAlition S](#), 4. 9. 2018 (European Commission, ERC, ARRS ...)
- After 1. 1. 2020, articles with results from public grants must be published:

| | | |
|---|---|--|
| In open access journals or on open access platforms | Deposited in repository without embargo | As open articles in subscription journals in case of transformative agreements |
| Authors retain copyright (now transferred to publisher) | | |

- cOAlition S members intend to sign DORA and implement its requirements in their policies

European Open Science Cloud (EOSC)

- <https://www.eosc-portal.eu/>

The EOSC is a federation:

- European computing (e.g., EuroHPC)
- e-infrastructures (e.g., [EGI](#), [GÉANT](#), [OpenAIRE](#), [PRACE](#)) and research infrastructures (e.g., [DODAS](#), [ECAS](#), [OPENCoasts](#), [WeNMR](#))
- FAIR research data repositories

Repository of UL is OpenAIRE compatible → RUL metadata will be available in the EOSC

EOSC Launch Event, 23 November 2018





Jean-Claude Burgelman,
European Commission, at
Nordic Open Science
Conference (15. 11. 2018)

Policy focus now



Open access to publications

- Implement Plan S
- Increasing uptake to 100% (incentives, 'sanctions')
- Launch ORE

Open access and research data

- Launch EOSC in 2018, 1st phase
- The DMPs
- Mainstreaming FAIR data across the FPs
- Stimulating a change in scientific culture

Citizen Science

- Pan European agreement on uptake

Metrics and Incentives

- Next generation metrics
- 'Bucarest' Declaration

By 2030 one can assume that the science system to be:

- Completely data driven (AI!)
- • With open research data as a renewable resource for research and innovation (via EOSC)
- • Full & immediate open access to the whole life cycle of a research process
- “liquid” science (like in SW development)
- • Multiple ways to measure and reward scientific productivity and impact

Jean-Claude Burgelman,
European Commission, at
Nordic Open Science
Conference (15. 11. 2018)

**Allowing reproducible research, full cross
disciplinary set up and faster take up**



Thank you!

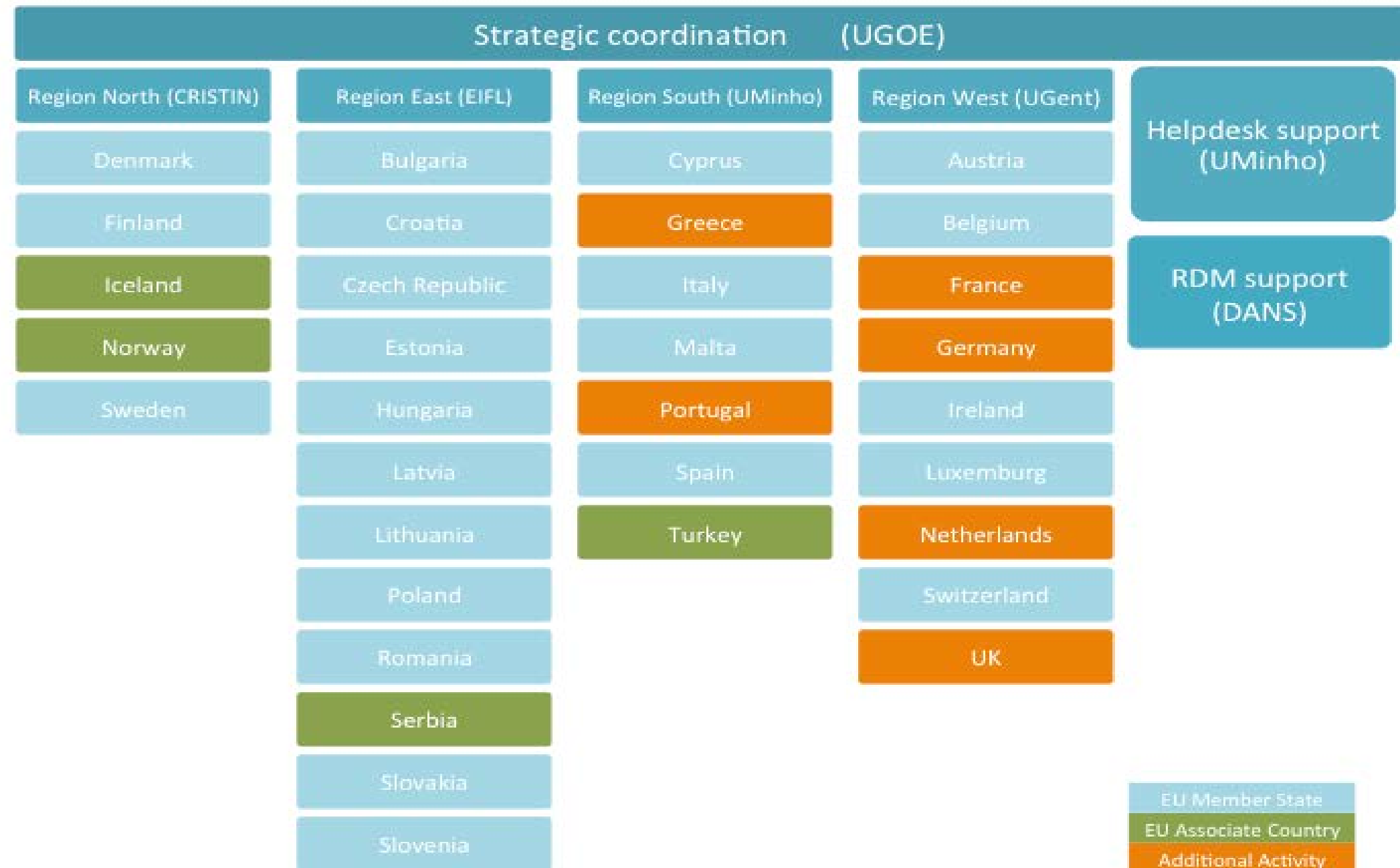
Mojca Kotar

mojca.kotar@uni-lj.si

OpenAIRE – Open Access Infrastructure for Research in Europe

People support network

- ✓ Europe's diverse landscape requires local support
- ✓ 33 National Open Access Desks all over Europe (NOADs)
 - (Open Access) policy aligning
 - Technical assistance
 - Open Science training and support



OpenAIRE's e-infrastructure Commons



KEY STAKEHOLDERS SERVICES

Funders, research admins,
research communities

- Research impact
- Project reporting and monitoring
- Open Access trends



Content providers

- Repository validation
- Repository notification broker
- Repository analytics and usage stats



Researchers

- Claim publications, datasets, software
- Deposit publications, datasets, software
- Search & browse: interlinked publications, datasets, projects
- Open Access & DMP Helpdesk
- End-User feedback



INFO SPACE SERVICES

Cleaning

De-duplication

Validation

Enrichment
By inference



GUIDE
LINES

CONTENT PROVIDERS



Publications
repositories

Research Data
repositories

CRIS
systems

Registries
(e.g. projects)

OA
Journals

Software
Repositories

