

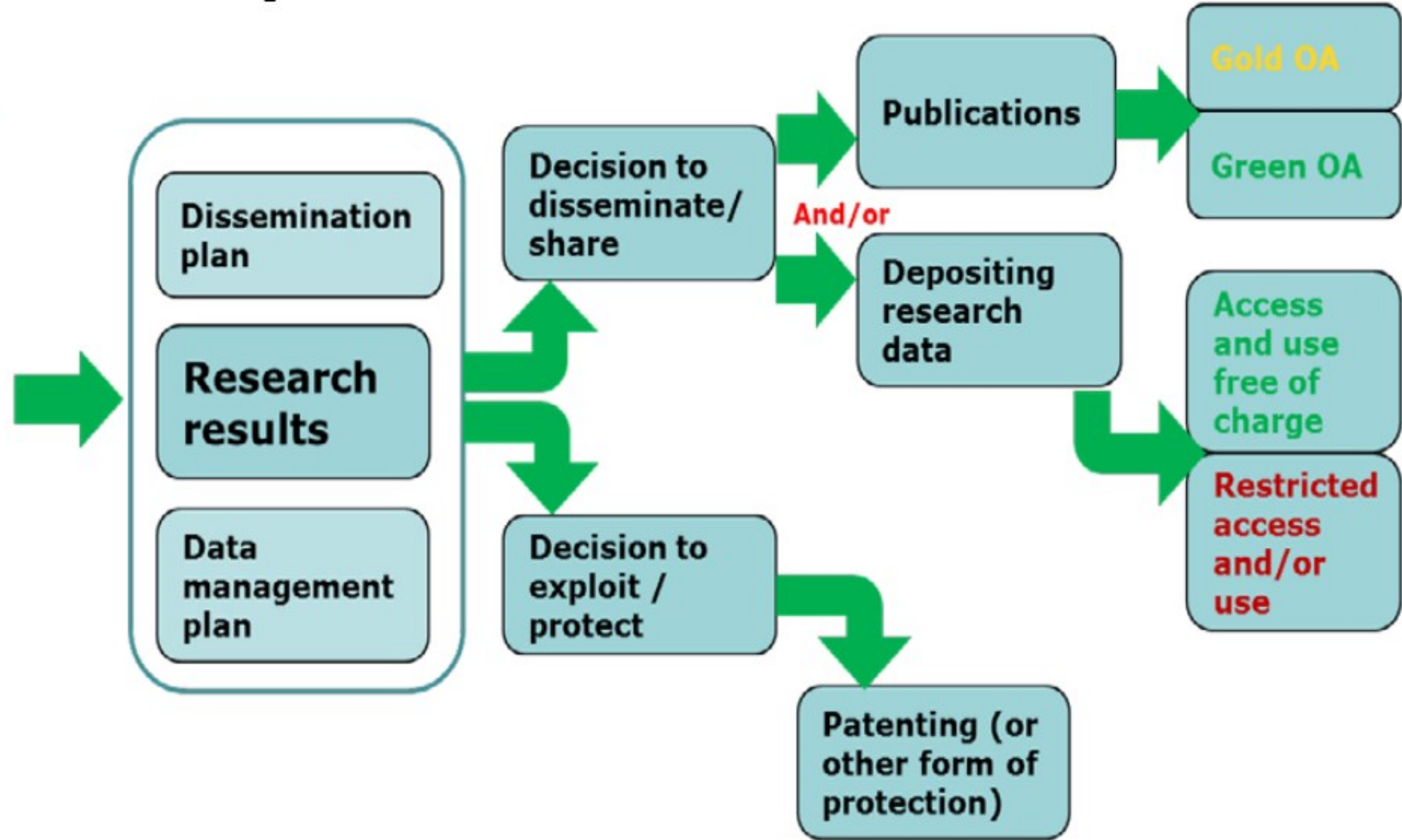
Bojan Macan, Knjižnica Instituta Ruđer Bošković, [bmacan@irb.hr](mailto:bmacan@irb.hr)

Alen Vodopijevec, Knjižnica Instituta Ruđer Bošković, [alen@irb.hr](mailto:alen@irb.hr)

# Upravljanje istraživačkim podacima



# Research



# Što su istraživački podaci?

Istraživački podaci su podaci koji su prikupljeni, zabilježeni ili generirani s namjerom da ih se analizira i tako dođe do originalnih znanstvenih rezultata

# Razine obradenosti istraživačkih podataka

- Sirovi, inicijalno prikupljeni istraživački podaci (engl. *raw/initially processed data*)
- Istraživački podaci pripremljeni za analizu (engl. *research ready processed data*)
- Objavljeni izlazni podaci koji su rezultat provedene analize istraživačkih podataka (engl. *published output dataset*)
- Verzija podataka prilagođena prezentaciji (engl. *published catalogue type representation of published output dataset*)

# Zašto dijeliti istraživačke podatke?

- validacija rezultata
- sekundarne analize
- suradnja
- obrazovanje
- povećana citiranost
- budući kriterij za vrednovanje?!

# Istraživački podaci i Europska unija



- *"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."*

[http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-pilot-guide\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf)

# OpenAIRE projekti



- OpenAIRE (1.12.2009. – 30.11.2012.)
- OpenAIREplus (1.12.2011. – 31.12.2014.) – IRB partner
- OpenAIRE2020 (1.1.2015. – 30.6.2018.) – IRB partner
  
- cilj: izgraditi pan-europsku infrastrukturu (interoperabilni digitalni repozitoriji i nacionalne službe za podršku) koja će biti podrška ostvarivanju otvorenog pristupa u Europi

# Open Data Pilot

- obveza pohrane i objave istraživačkih podataka nastalih u okviru projekata financiranih od strane EK u sklopu okvirnog programa Obzor 2020
- obuhvaća 7 velikih područja:
  - Future and Emerging Technologies
  - Research infrastructures – part e-Infrastructures
  - Leadership in enabling and industrial technologies – Information and Communication Technologies
  - Societal Challenge: 'Secure, Clean and Efficient Energy' – part Smart cities and communities
  - Societal Challenge: 'Climate Action, Environment, Resource Efficiency and Raw materials' – except raw materials
  - Societal Challenge: 'Europe in a changing world – inclusive, innovative and reflective Societies'
  - Science with and for Society



# Open Data Pilot - zahtjevi

1. izrada plana upravljanja istraživačkim podacima tijekom prvih 6 mjeseci trajanja projekta (i naknadno ažuriranje)
2. pohrana u digitalne repozitorije istraživačkih podataka (institucijski/područni/nacionalni digitalni repozitoriji ili ZENODO)
3. omogućavanje pristupa podacima, njihovog rudarenja (engl. *data mining*), iskorištavanja, reprodukcije i diseminacije u otvorenom pristupu (CC-BY ili CC0 licenca)
4. pružanje informacija o alatima i instrumentima potrebnim za validaciju rezultata

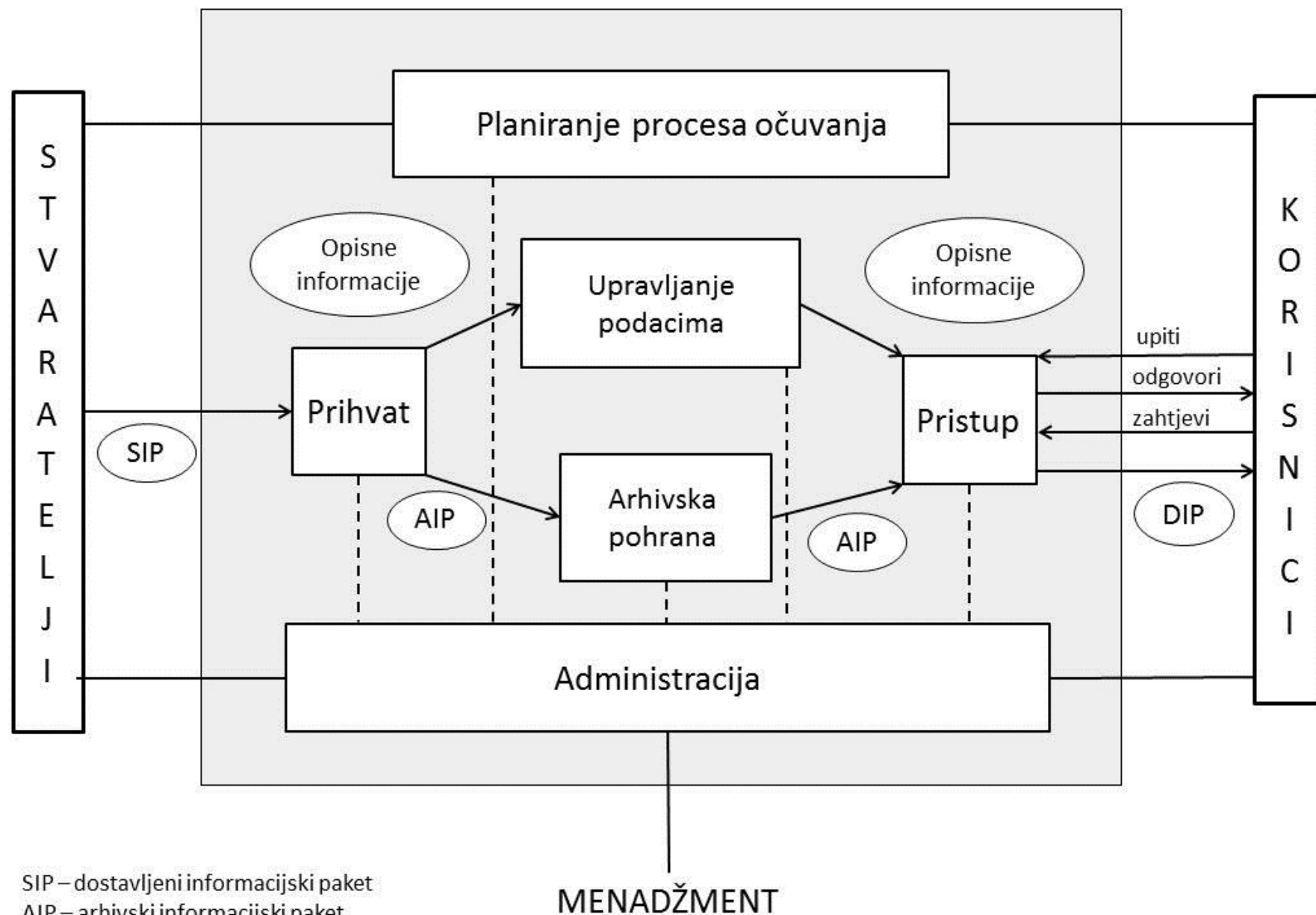
# Open Data Pilot – mogućnost izuzeća

- mogućnost izuzeća od obveze pohranjivanja istraživačkih podataka u digitalne repozitorije u otvorenom pristupu (engl. *opting out*):
  - očekuje se komercijalizacija rezultata istraživanja
  - sigurnosni razlozi
  - potreba zaštite osobnih podataka
  - ugrožavanje postizanja glavnog cilja istraživanja
  - projekt kao rezultat svojih aktivnosti neće imati nikakve istraživačke podatke
  - drugi opravdani razlozi
- izuzeće se može zatražiti u fazi prijave projekta i/ili tijekom same provedbe projekta

# Plan upravljanja istraživačkim podacima

- engl. *Data Management Plan* (DMP)
- svaka agencija koja zahtijeva DMP ima vlastite specifičnosti
- obično se traži:
  - opis istraživačkih podataka koji će se prikupljati ili generirati tijekom istraživanja
  - standardi / metodologija prikupljanja i upravljanja istraživačkih podataka
  - etička pitanja i pitanja intelektualnog vlasništva
  - plan dijeljenja i pristupa istraživačkim podacima
  - strategija dugoročnog očuvanja

# OAIS referentni model



SIP – dostavljeni informacijski paket  
AIP – arhivski informacijski paket  
DIP – diseminacijski informacijski paket

# Digital Curation Center

## DMPonline

<https://dmponline.dcc.ac.uk/>

Izvorni kod:

[https://github.com/DigitalCurationCentre/DMPonline\\_v4](https://github.com/DigitalCurationCentre/DMPonline_v4)

## My plans

The table below lists the plans that you have created, and any that have been shared with you by others. These can be edited, shared, exported or deleted at anytime.

Filter plans <input type="text" value="Filter plans"/>					<input type="button" value="Filter"/>	<input type="button" value="Settings"/>
Name	Owner	Shared?	Last edited	Select an action		
PROBIOPS Plan	Me	No	05-02-2015	<a href="#">Edit</a>	<a href="#">Share</a>	
				<a href="#">Export</a>	<a href="#">Delete</a>	

**If applying for funding, select your research funder.**

European Commission (Horizon 2020)

Otherwise leave blank.

[Not applicable/not listed.](#)

**To see institutional questions and/or guidance, select your organisation.**

Organisation

You may leave blank or select a different organisation to your own.

[Not applicable/not listed.](#)

**Tick to select any other sources of guidance you wish to see.**

DCC guidance

# PROBIOPS Plan

13/13 questions answered

approx. 60% of available space used (max 3 pages)

Plan details

**Generic DMP**

Share

Export

**Data Collection** (2 questions, 2 answered)



**Documentation and Metadata** (1 question, 1 answered)



**Ethics and Legal Compliance** (2 questions, 2 answered)



**Storage and Backup** (2 questions, 2 answered)



**Selection and Preservation** (2 questions, 2 answered)



**Data Sharing** (2 questions, 2 answered)



**Responsibilities and Resources** (2 questions, 2 answered)





# Collaborators

Email address	Permissions	
Alen Vodopijevac	Owner	







## Add collaborator

Permissions:

Add collaborator

## My plans

The table below lists the plans that you have created, and any that have been shared with you by others. These can be edited, shared, exported or deleted at anytime.

					Filter plans <input type="text" value="Filter plans"/> <input type="button" value="Filter"/> 
Name 	Owner 	Shared? 	Last edited 	Select an action 	
PROBIOPS Plan	Me	No	05-02-2015	<a href="#">Edit</a> <a href="#">Share</a> <a href="#">Export</a> <a href="#">Delete</a>	

## Title

[Save](#)[Reset](#)

Title

## Included Elements

Admin details Sections Project Name Project Identifier Grant Title Principal Investigator / Researcher Project Data Contact Description Funder Institution **Data Collection** How will the data be collected or cre... What data will you collect or create? **Documentation and Metadata** What documentation and metadata ... **Ethics and Legal Compliance** How will you manage any ethical iss...



For dissemination purposes basic metadata fields will be converted to DDI metadata standard.

## Ethics and Legal Compliance

### How will you manage any ethical issues?

The study will collect some sensitive data but we won't record any personal identifiers along with data that could possibly directly or indirectly enable identification of study participants. This will apply to both inetrnally and publicly shared data.

Participants as well as their parents, will get acquainted with the study goals, results and data publication/sharing plans and they will have to give their consent.

Study draft is approved by Ethical Review Board of the Department of Sociology, Faculty of Humanities and Social Sciences, University of Zagreb, by Ministry of Science Education and Sports and by Ombudsperson for Children Republic of Croatia.

### How will you manage copyright and Intellectual Property Rights (IPR) issues?

There are no requirements stipulated or mandated by the funding body or any other organization regarding this data. We, as data producers, are free to decide about the ways in which data will be published and to define rules for getting access to data.

We plan to publicly share raw data with accompanying documentation after 3 years embargo period upon project completion. Dataset will be available under CC BY-NC (<http://creativecommons.org/licenses/by-nc/4.0/>)

## Selection and Preservation

### Which data are of long-term value and should be retained, shared, and/or preserved?

All relevant versions of raw data will be preserved and archived. Disemination information package will contain only final versions of dataset. We will consider a possible removal of certain variables in publicly available version.

Dataset will be archived for long-term preservation in a repository that provides the best and the most reliable service.

### What is the long-term preservation plan for the dataset?

Our preservation plan is based on OAIS model. As we already mentioned data will be ingested from online survey platform and after that we will have two versions:

AIP - archival information package will contain all versions and original documentation - it will be archived offline and online but in a closed access secure environment;

DIP - dissemination information package will be available online after embargo period and it will contain final versions of raw data and documentation.

For DIP publication we will use SERSCIDA Croatian (<http://www.hr.serscida.eu>) data portal and/or ZENODO (<http://www.zenodo.org>) service.

## Data Sharing

### How will you share the data?



# Sign in

[Forgot your password?](#)

Remember me

Sign in

[Or, sign in with your institutional credentials](#)

(UK users only)

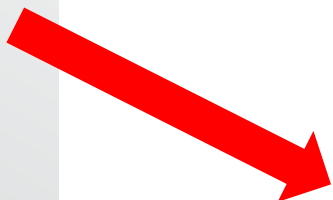




DMP Online is a data management planning tool provided by the Digital Curation Centre.

## Which organisation would you like to sign in with?

Start typing the name of your organisation [i](#) (e.g. Anywhere College) in the search box, and options will appear below:



- AAI@EduHr - **Croatian** Research and Education Federation [Sign In](#)
- Coulsdon Sixth Form College in **Croydon**
- CROUS** Aix Marseille
- CROUS** Amiens Picardie
- CROUS** Antilles-Guyane

# Hrvatska - izazovi

- promjena svijesti znanstvenika o potrebi dijeljenja istraživačkih podataka
- izgraditi kvalitetnu infrastrukturu za pohranjivanje i dugoročno očuvanje istraživačkih podataka
- edukacija stručnjaka
- suradnja

# Kontakt

Knjižnica Instituta Ruđer Bošković  
OpenAIRE helpdesk za Hrvatsku:

[openaire@lib.irb.hr](mailto:openaire@lib.irb.hr)



