



Institut za nuklearne
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Plan upravljanja istraživačkim podacima kao primer dobre prakse

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Prezentacija je nastala u okviru projekta „Boosting EOSC readiness: Creating a scalable model for capacity building in RDM“, koji finansira Evropska unija u okviru projekta H2020-EU.1.4.1.1. [EOSC Secretariat br. 831644](#)

The background of the entire image is a dense, overlapping pile of numerous jigsaw puzzle pieces. The pieces are of various colors, including shades of blue, yellow, orange, red, green, and grey. They are all interlocked, creating a complex and textured surface.

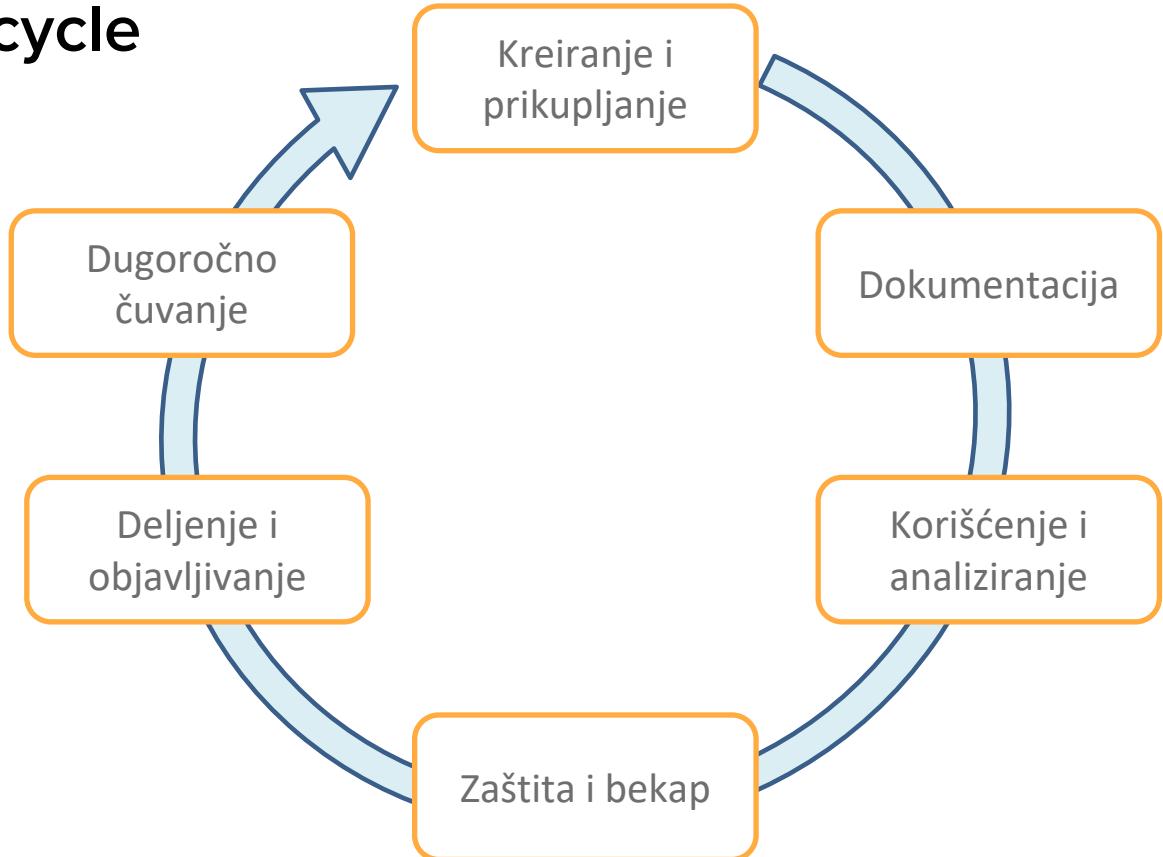
UPRAVLJANJE ISTRAŽIVAČKIM PODACIMA

Photo by [Hans-Peter Gauster](#) on Unsplash

Upravljanje istraživačkim podacima

Upravljanje istraživačkim podacima (engl. *research data management*, skr. *RDM*) se odnosi na niz aktivnosti sa namerom da se na najefikasniji način prikupe i organizuju podaci i pripreme za buduću upotrebu i deljenje sa drugima.

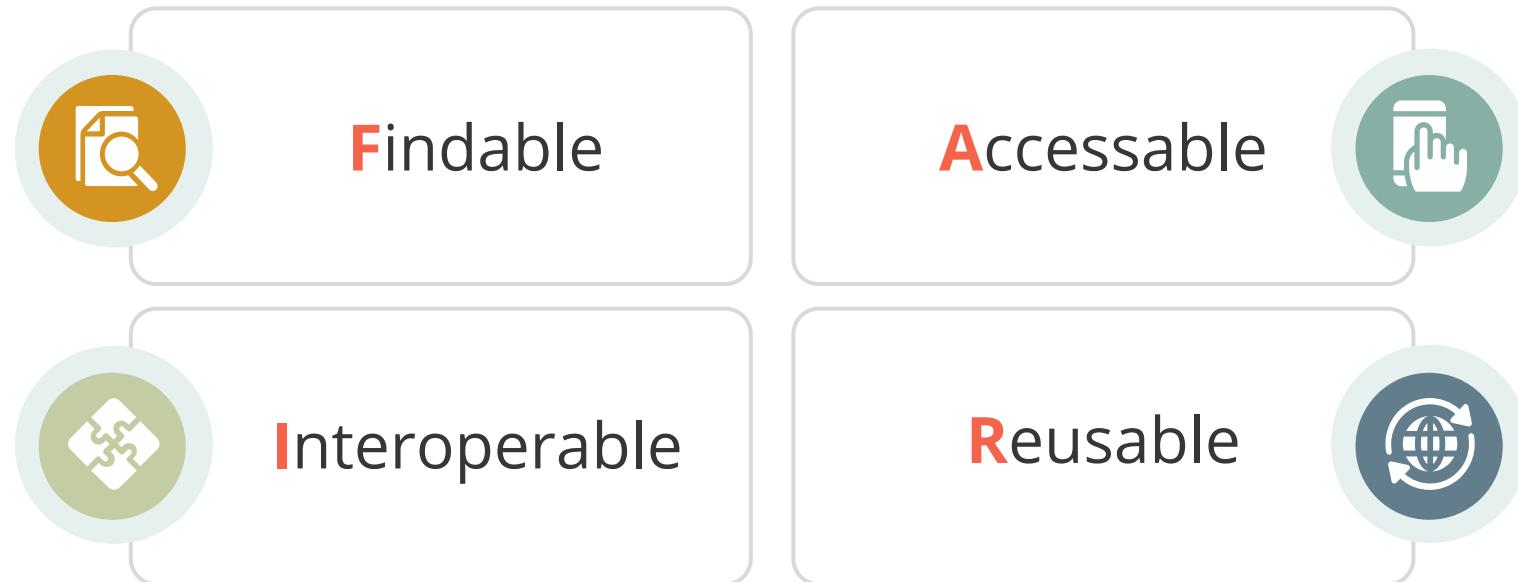
Research Data Lifecycle



A photograph of a large Ferris wheel against a clear blue sky. The Ferris wheel is primarily yellow and green, with several gondolas visible. The perspective is from below, looking up at the wheel.

FAIR principi

FAIR principi



FAIR principi

Findable

(pristupačnost, pretraživost)

- jedinstveni i perzistentni identifikatori;
- opisani detaljnim metapodacima;
- (meta)podaci se indeksiraju u pretraživom repozitorijumu.

Accessable

(dostupnost)

- (meta)podaci se preuzimaju putem standardizovanih komunikacionih protokola;
- metapodaci su uvek dostupni.

Interoperable

(interoperabilnost)

- metapodaci koriste rečnik koji prati FAIR principe;
- metapodaci obuhvataju kvalifikovane reference na druge metapodatke.

Reusable

(ponovna upotrebljivost)

- metapodaci imaju jasnu i pristupačnu licencu za korišćenje;
- detaljne informacije o poreklu podataka (eng. *provenance*).

Plan upravljanja podacima

Image by David Schwarzenberg from [Pixabay](#)

Plan upravljanja podacima

Dokument koji služi kao okvir svim učesnicima na projektu kako da upravljaju podacima i na koji način da ih čuvaju.

Donosi se na početku projekta i svi učesnici bi trebali da su upoznati sa njim.

Izrada Plana je postala obavezna kod većine sponzora istraživanja u svetu.

Plan upravljanja podacima



Data usage - u programima PROMIS i IDEJE Fonda za nauku Republike Srbije

Uputstvo za pisanje Plana upravljanja podacima za program IDEJE Fonda za nauku Republike Srbije (DOI: 10.5281/zenodo.4496935)

Alati za DMP

3.1.15 Will you use standardised formats for your data?

Different Types Of Data Are Acquired, Processed And Stored (Preserved And/or Archived) In Different Ways And Can Be Discipline Specific. Many Proprietary File Formats Are "Containers" For Standard File Formats. By Packaging Them Into These Containers, A Software And/or Hardware Developer Can Provide Additional Functionality, Usually By Streamlining A Process, To Analyse Data Acquired On Their Platform. However, This Has The Negative Consequence Of Making These Data Less Interoperable.

You May Find Some Best Practices For File Formats: [Https://library.stanford.edu/research/data-management-services/data-best-practices/best-practices-file-formats](https://library.stanford.edu/research/data-management-services/data-best-practices/best-practices-file-formats)

Da

Ne

3.1.18 Are the file formats you will use open?

Open File Formats Provide The Software Specifications To Anyone For Free And Enable Re-use. Examples: .Png, .Xml, .Rtf, .Wav

Da

Ne

Obavezno

Navedite

Navedite dodatne informacije ili obrazložite izbor

Alati za DMP

DMPOnline - DCC & Univ. of Edinburgh DMP Tool - California Digital Library	human readable (PDF, DOCX)
Argos (OpenAIRE) Data Stewardship Wizard (Elixir CZ/ND)	human readable (PDF, DOCX) machine readable (JSON, RDF/XML)

Alati za DMP



- machine-actionable (prema *RDA Common Standards for maDMP*)
- free and open-source
- dozvoljen prevod na druge jezike pored engleskog
- omogućena izrada obrazaca finansijera

DMP alati: Argos

Datasets

[Title: NewSiest_DMP](#)

[Template: Horizon 2020](#)

[External References](#)

[Data Repositories](#)

[External Datasets](#)

[Registries](#)

[Services](#)

[Dataset Description](#)

1 Data Summary

1.1 What is the purpose of the data collection/generation and its relation to the objectives of the project?

Purpose of data collection/generation: To study the optimal nanoparticle (NP) concentration and thermal modification conditions to improve the UV stability of wood surfaces. Data will be useful for academic and scientific readers and also has construction, industrial importance. Relation to objectives of project: The main research objectives of the action are: i) to introduce and optimize envelope treatment of wood with UV protecting nanoparticles ii) to set up the process of heat treatment of wood with nanoparticles in the envelope iii) to evaluate UV and fungal resistance of the novel wood-based material for industrial/commercial application. The collected data will therefore include: i) Experimental procedures and reaction conditions to achieve wood envelope treatment. Data on basic liquid properties of NP dispersion, retention and depth of penetration of the nanomaterial onto wood. ii) the generated data includes standard methodology of thermal modification of wood and data on percent mass loss, mechanical properties, contact angle variations, colour and chemical changes. iii) Data from evaluation of wood against light (UV) and fungal stability where change in wood properties will be assessed by weight loss, colour change, Scanning Electron Microscopy (SEM), and changes in chemical constituents using FTIR spectroscopy.

1.2 What types and formats of data will the project generate/collect?

Types and formats of data generated: 1. Envelope treatment of wood using

Datasets

Title: NewSiest_DMP

Template: Horizon 2020

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        "type" : "other"  
      },  
      "mbox" : "obrad.vuckovac@gmail.com",  
      "name" : "Obrad Vuckovac"  
    },  
    "contributor" : [ {  
      "contributor_id" : {  
        "identifier" : "http://orcid.org/0000-0001-5616-2680",  
        "type" : "orcid"  
      },  
      "name" : "Obrad Vučkovac"  
    } ],  
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    "created" : "2020-08-06T18:19:38Z",  
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        "type" : "other"  
      },  
      "description" : "The dataset contains information about the experimental setup, materials used, and the results of the study. It includes data on the properties of wood treated with nanoparticles, such as UV resistance, fungal stability, and changes in surface morphology.",  
      "files" : [ {  
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      } ]  
    } ]  
  }},  
  "description" : "The dataset contains information about the experimental setup, materials used, and the results of the study. It includes data on the properties of wood treated with nanoparticles, such as UV resistance, fungal stability, and changes in surface morphology.",  
  "files" : [ {  
    "file_id" : {  
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      "type" : "other"  
    },  
    "name" : "NewSiest_DMP",  
    "size" : 1234567890  
  } ]  
}
```

DMP alati: Argos



Dataverse repozitorijum

Photo by [David Clode](#) on [Unsplash](#)

Dataverse Data repository

Repozitorijum podataka se može opisati kao lokacija na koju istraživači mogu pohraniti svoje podatke, učiniti ih dostupnim za upotrebu i organizovati ih na logičan način.

Naš repozitorijum: SERDAR - Serbian Research Data Repository

- Skupovi podataka dobijaju DOI broj
- Open-source softver - Dataverse

Hvala na pažnji

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