



Montenegro  
Ministry of Science

# The Programme of Implementation of Open Science Principles in Montenegro with the Action Plan (2020-2022)

*Equity and inclusion: Open Science policies webinar*

*23 October 2020*



## *Development process*

- WG composed of MoS representatives, a representative of University of Montenegro and an external expert;
- Consultations with main research institutions and stakeholders;
- Adopted by the Government in June 2020.

**1<sup>st</sup> stage of fully aligning the Montenegrin research ecosystem with OS principles in ERA.**



## *Vision*

***Research activities should be based on Open Science principles, which implies that they should benefit society as a whole, and that public funding directed at research activities ought to be spent efficiently and transparently.***



## **OS objective**

To make every step of the scientific process visible and accessible and to make it available to both the scientific and the wider community.

## **Reality**

The process is much more closed, fragmented and isolated from social problems than expected.

Reasons:

- pursuit of personal/individual success;
- trying to boost the citation rates;
- scientific policies oriented to the commercialisation;
- etc.



# **Situation with OS in Montenegro**

**No national or institutional policies.**

## **Initiatives of Ministry of Science:**

- Co-financing the publication of papers by Montenegrin researchers in Open Access journals;
- Supporting the publication of Open Access scientific journals indexed in the DOAJ.

## **Initiatives of University of Montenegro:**

- Signed Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities in October 2018;
- Digital archive of the University, with open electronic database of doctoral dissertations.



## **Primary OS aspects in Montenegro** **to be further developed**

1. Open Access to Scientific Publications
2. Open Access to Research Data
3. Open Access to Research Infrastructures

**Phased approach** - gradual development of the necessary framework



# **Open Access to Scientific Publications**

- Establishing the **national repository** for publications;
- Establishing adequate **rules and policies** that will apply to research process stakeholders;
- **Mandatory green open access.**
- **Interim recommendation** – using well-known international repositories (Green OA).



## ***Open Research Data***

- Establishing a **national repository** for data storage;
- Adopting the accompanying **rules and procedures**;
- **Mandatory data storing** at national repository immediately after the publication is published.
- ***Interim recommendation*** – storing data in existing repositories.





## **Open Research Infrastructures**

- Creating national **digital registry** for research infrastructures **OR** joining one of the existing, international, stable platforms;
- Clearly defined rules of access and use of research infrastructures.
- National Roadmap for Research Infrastructure (2015-2019);
- New round of mapping to be carried out in 2021.



## **Research assessment criteria**

Introduce **criteria for assessment and rewarding of researchers** following the OS principles, including:

- Additional acknowledgment of OA publications, in the assessment of one's research work;
- Integrating research data management, openness and FAIR principles into the process of assessment and evaluation of research at different levels;
- Promotion of researchers who practice the Open Science principles;
- Acknowledging the practice of the Open Science principles during:
  - Researcher recruitment procedures;
  - Evaluation of project proposals;
  - Evaluation of the institutions;
  - Awarding research rewards.



## **Promotion of Open Science**

- Raising awareness of **all stakeholders** through:
  - Promotional events;
  - Education and training of PhD students, including the **modification of their curricula**;
  - Training of researchers;
  - Training of support staff;
  - Discipline-specific guidance and training;
  - Stakeholder-specific guidance and training.



## *To sum up*

### OPERATIONAL GOALS

1. Improving legislative framework that enables the application of Open Science principles;
2. Establishing national infrastructure for Open Science to improve research and innovation activities;
3. Enhancing the implementation of Open Science principles to improve excellence and relevance of scientific research activities;
4. Developing human capital through education and promotion of Open Science principles to strengthen competitiveness in the field of research.



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# THANK YOU!

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