

November, 2022

# Open Science challenges in Serbia

Welcome!



WBC-RRI.NET

Prof. Dr Snežana Smederevac

Responsible Research and Innovation

Artificial Intelligence

Industry 4.0

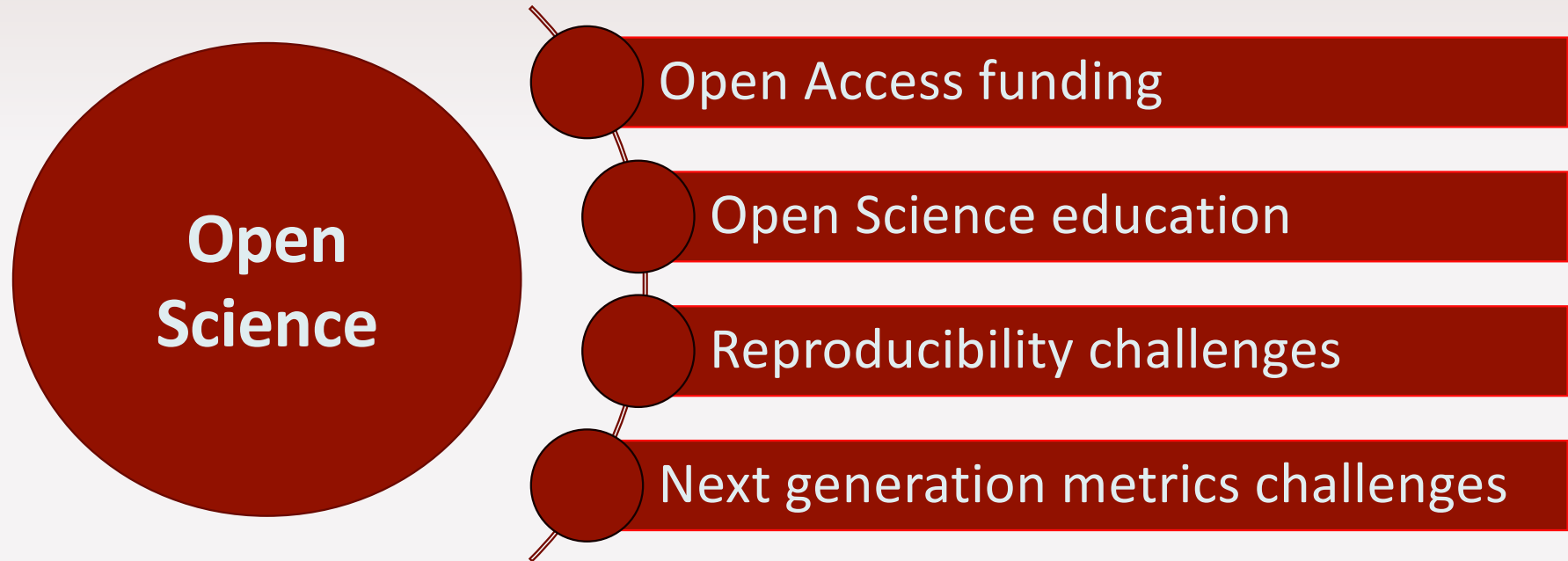
Machine Learning

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101006279

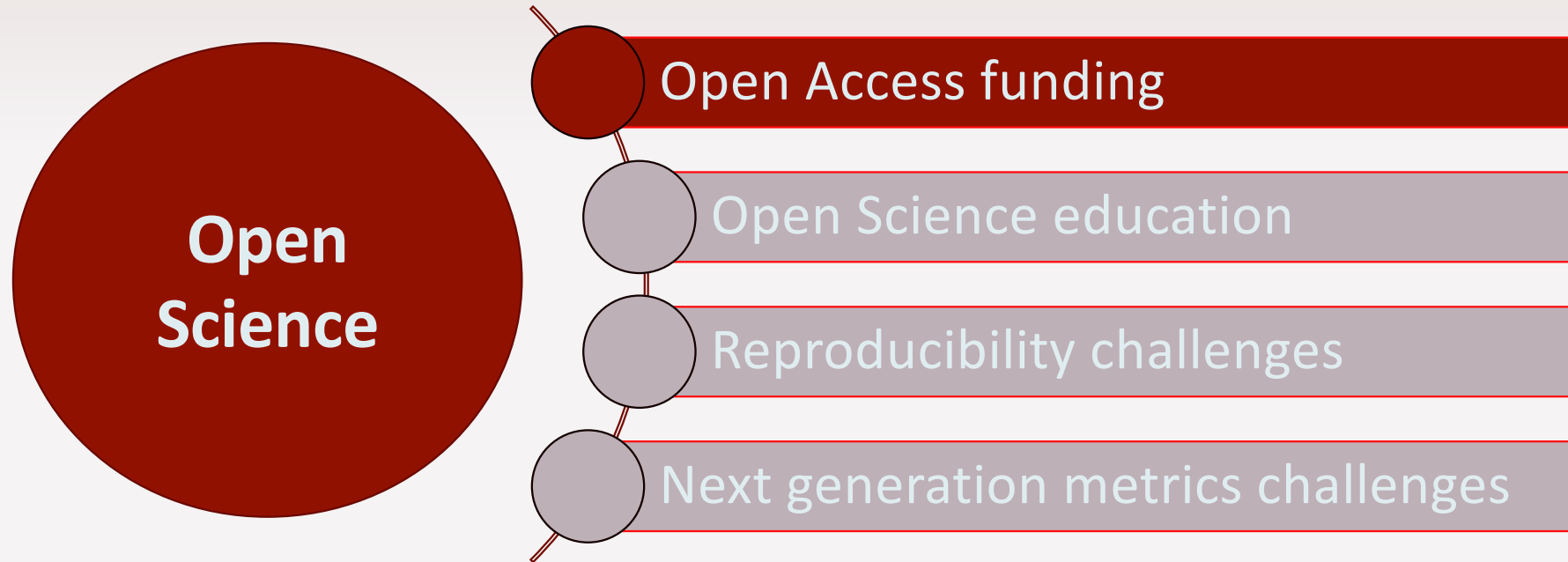


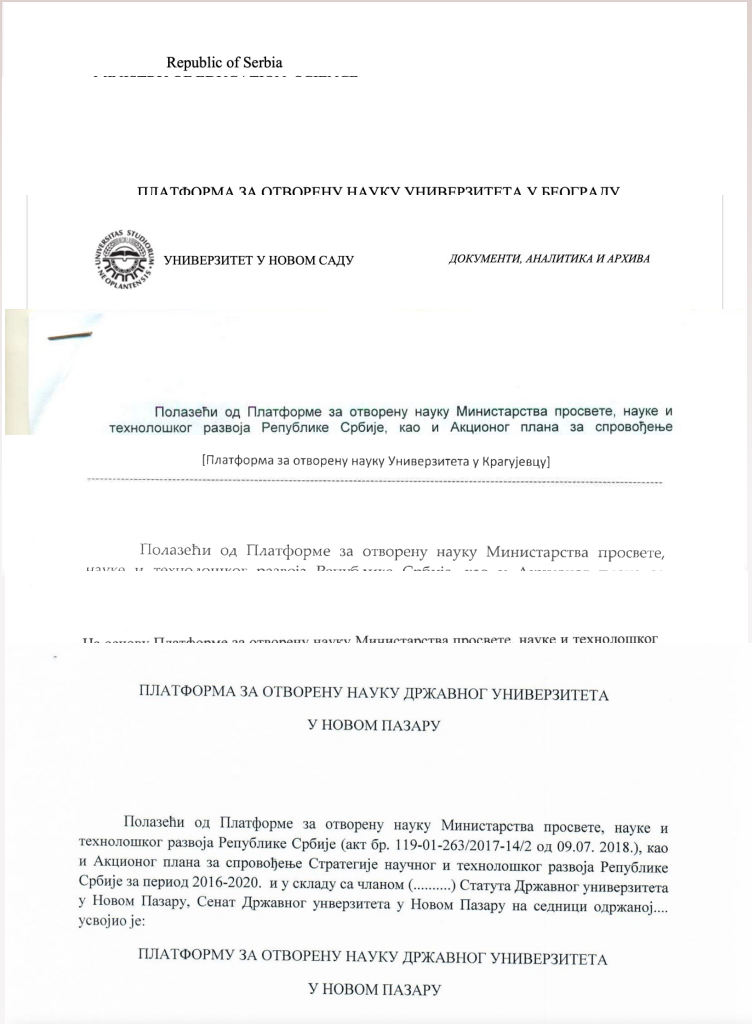
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# Serbia - challenges



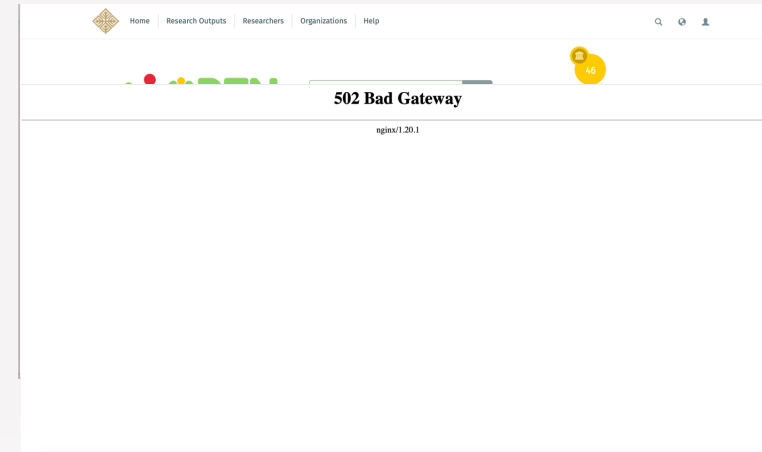
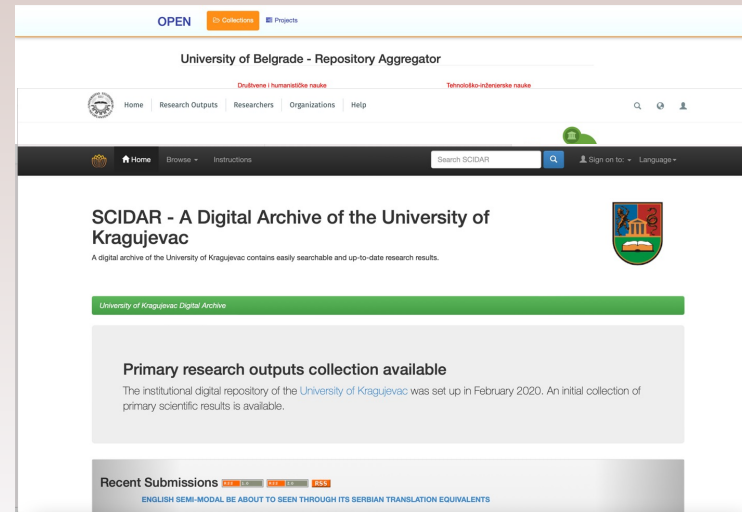
# Serbia - challenges





# OA Funding

## Repositories



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101006279



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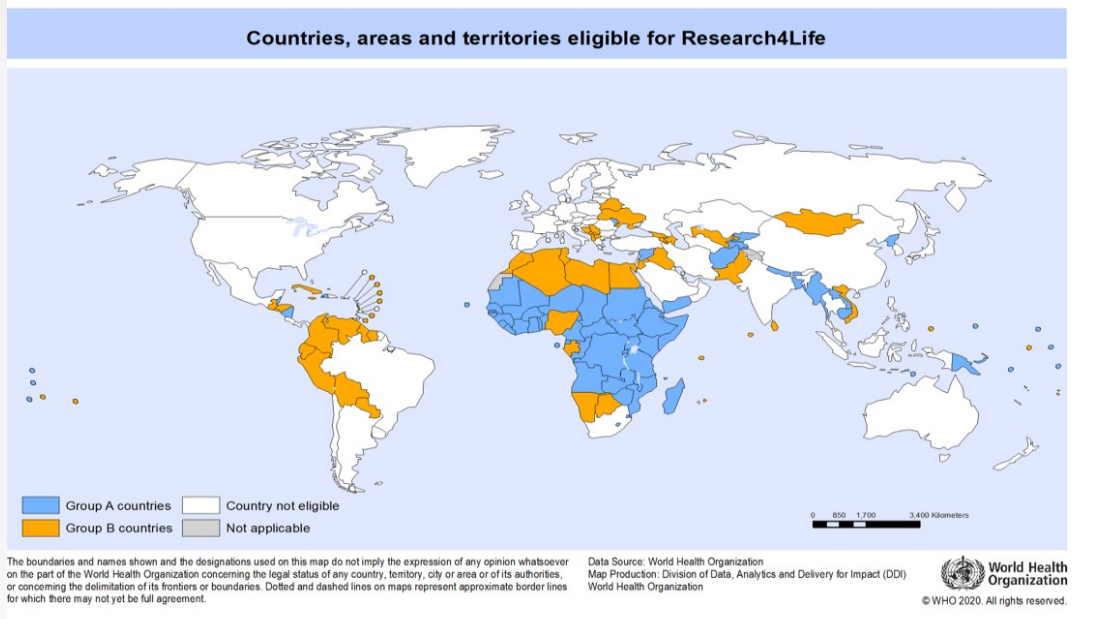


Article Publishing Charge (APC)

**ELSEVIER** **Article Publishing Charge (APC) price list**

All prices excluding taxes. Prices as of date: 07-Apr-2022

ISSN	Title	Business model	List price *			
			USD	EUR	GBP	JPY
0308-5961	Telecommunications Policy	Hybrid	3,650	3,200	2,860	392,250
0736-5853	Telematics and Informatics	Hybrid	3,390	2,970	2,660	364,310
2772-5030	Telematics and Informatics Reports	Open access	1,500	1,310	1,180	161,200
0040-4020	Tetrahedron	Hybrid	3,710	3,250	2,910	398,700
2666-951X	Tetrahedron Chem	Open access	2,500	2,190	1,960	268,670
0040-4039	Tetrahedron Letters	Hybrid	3,690	3,230	2,900	396,550
0002-9149	The American Journal of Cardiology	Hybrid	3,050	2,670	2,390	327,770
1064-7481	The American Journal of Geriatric Psychiatry	Hybrid	3,840	3,360	3,010	412,670
0002-9297	The American Journal of Human Genetics	Hybrid	5,000	4,300	3,900	537,300



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**OA  
Funding**

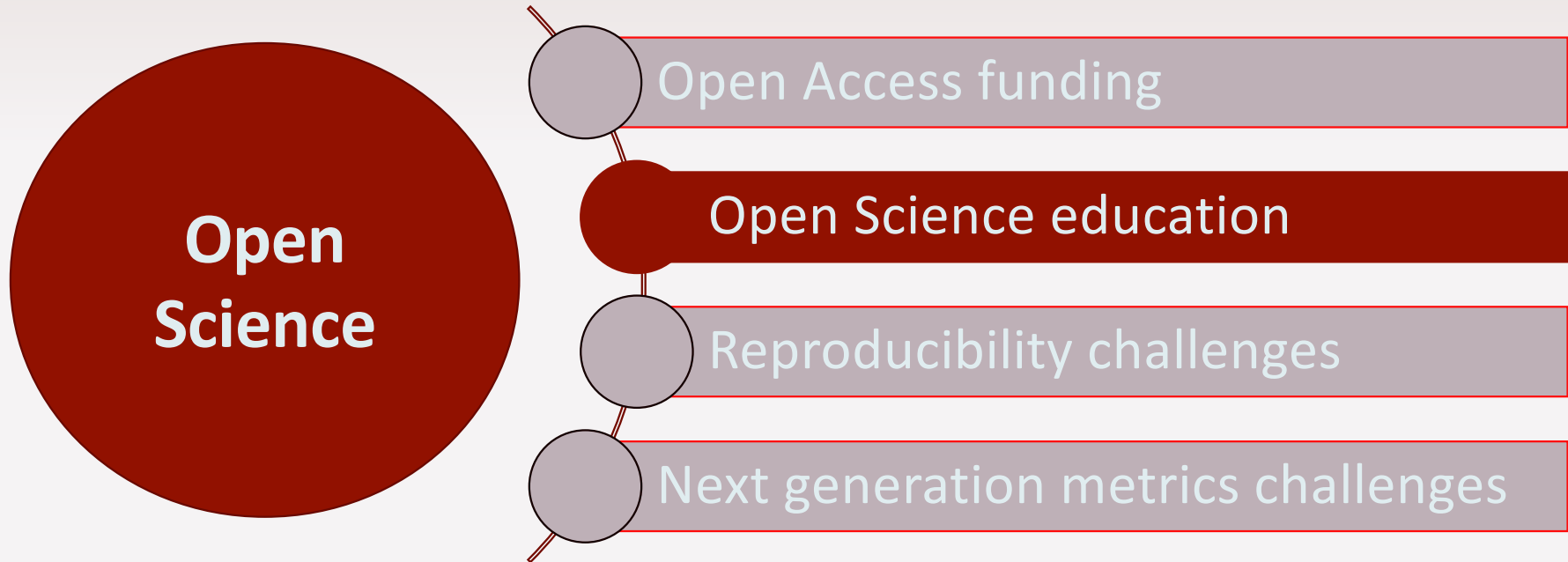
**How to cover the costs of  
publishing in open access?**

**How to deposit scientific paper in an institutional repository if its maintenance is not financed?**

**How to pay APC if the researcher is not on a funded project?**

**How to pay APC if the project does not have enough funds for those purposes?**

# Serbia - challenges







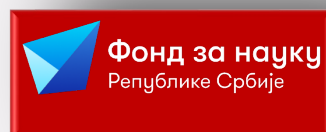
**Open data**

**Open softwer**

**Open code**

**Citizen science...**

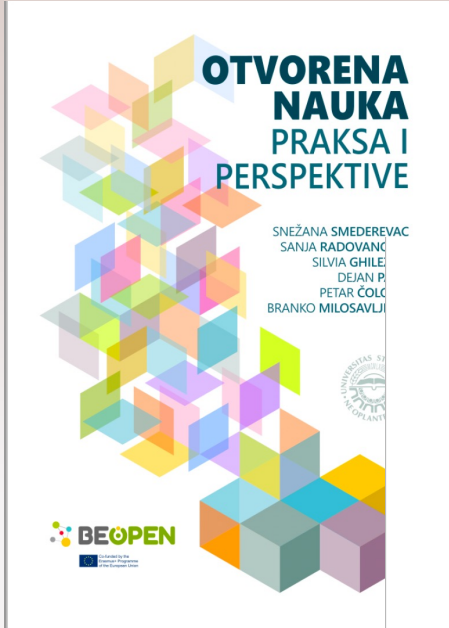
# OS Education



**Data management plan**

**FAIR data**

# OS Education



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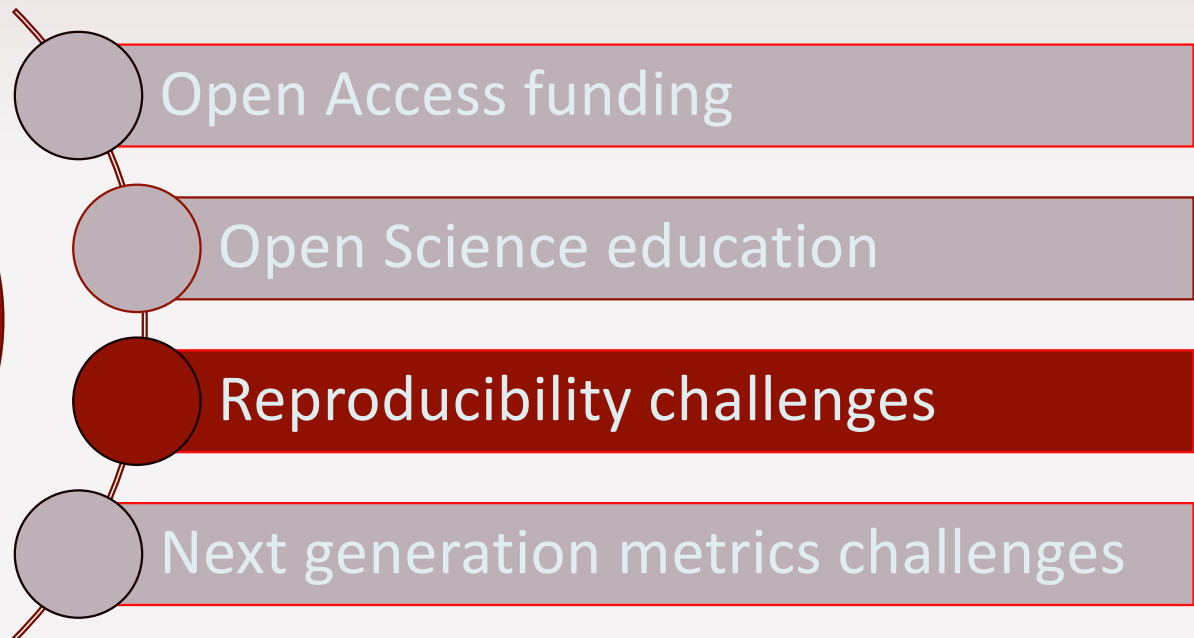
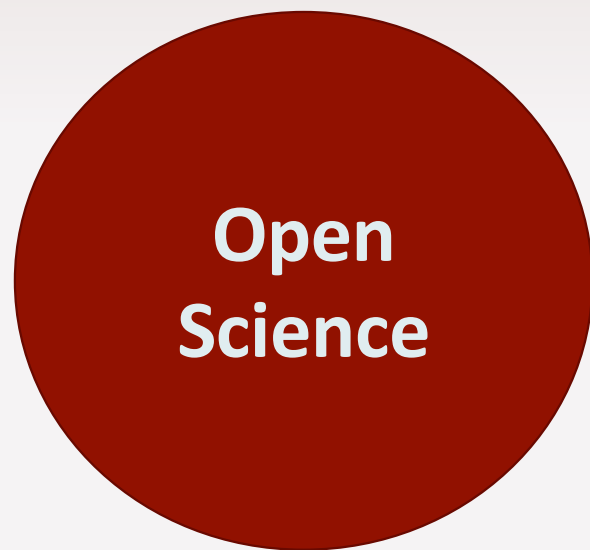


**OS  
Education**

**Should they become part of the criteria for accreditation of  
study programs?**

**New open science academic skills  
require curriculum changes.**

# Serbia - challenges



## Reproducibility challenges

70% of scientific results have never been replicated

50% of researchers fail to repeat the results of their own research

Baker M. (2016). [1,500 scientists lift the lid on reproducibility](#). *Nature*, 533, 452–4.

## Reproducibility challenges

Politika časopisa / Politics

ABC časopis urgentne medicine 2017;(1)

### Politika časopisa

ABC časopis urgentne medicine je časopis posvećen radovima iz oblasti prehospitalne medicine ili ~~inicijalno~~ ~~boničkog~~ nivoa, isključivo originalne, ~~prethodno~~ neobjavljene radove:

#### Tipovi radova koji se objavljuju u časopisu

Originalni naučni (stručni) rad ili prikaz slučaja (pod originalnim naučnim radom se podrazumeva rad u kome se prvi put objavljuju rezultati sopstvenih istraživanja).

Pregledni rad koji sadrži originalan, detaljan i kritički prikaz istraživačkog problema ili područja u kome je autor već

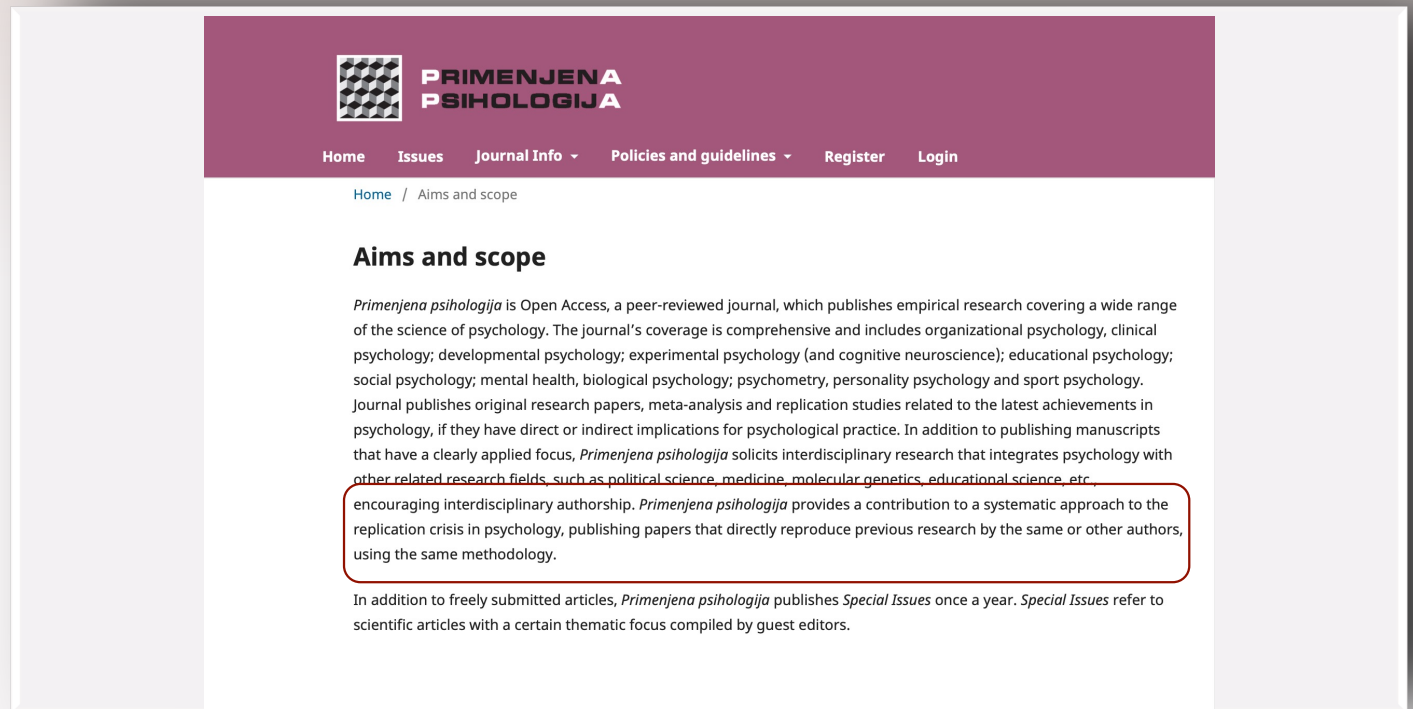
drugih, a njihov identitet je međusobno nepoznat. Recenzenti se biraju isključivo prema tome da li raspolažu odgovarajućim znanjima za ocenu rukopisa. Ne smeju biti iz iste institucije kao autori rukopisa niti njihovi koautori u skorijoj prošlosti. Eventualni predlozi poimeničnih recenzenata od strane autora rukopisa se ne uvažavaju.

Cilj recenzije jeste da Uredništvu pomogne u donošenju odluke o tome da li rad treba prihvatiti ili odbiti. Cilj je, takođe, da se u procesu komunikacije s urednikom, autorima i drugim recenzentima poboljša kvalitet rukopisa.

#### Recenzentski proces



## Reproducibility challenges



PRIMENJENA PSIHLOGIJA


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Home / Aims and scope


### Aims and scope

*Primenjena psihologija* is Open Access, a peer-reviewed journal, which publishes empirical research covering a wide range of the science of psychology. The journal's coverage is comprehensive and includes organizational psychology, clinical psychology; developmental psychology; experimental psychology (and cognitive neuroscience); educational psychology; social psychology; mental health, biological psychology; psychometry, personality psychology and sport psychology. Journal publishes original research papers, meta-analysis and replication studies related to the latest achievements in psychology, if they have direct or indirect implications for psychological practice. In addition to publishing manuscripts that have a clearly applied focus, *Primenjena psihologija* solicits interdisciplinary research that integrates psychology with other related research fields, such as political science, medicine, molecular genetics, educational science, etc., encouraging interdisciplinary authorship. *Primenjena psihologija* provides a contribution to a systematic approach to the replication crisis in psychology, publishing papers that directly reproduce previous research by the same or other authors, using the same methodology.

In addition to freely submitted articles, *Primenjena psihologija* publishes *Special Issues* once a year. *Special Issues* refer to scientific articles with a certain thematic focus compiled by guest editors.



Reproducibility  
challenges

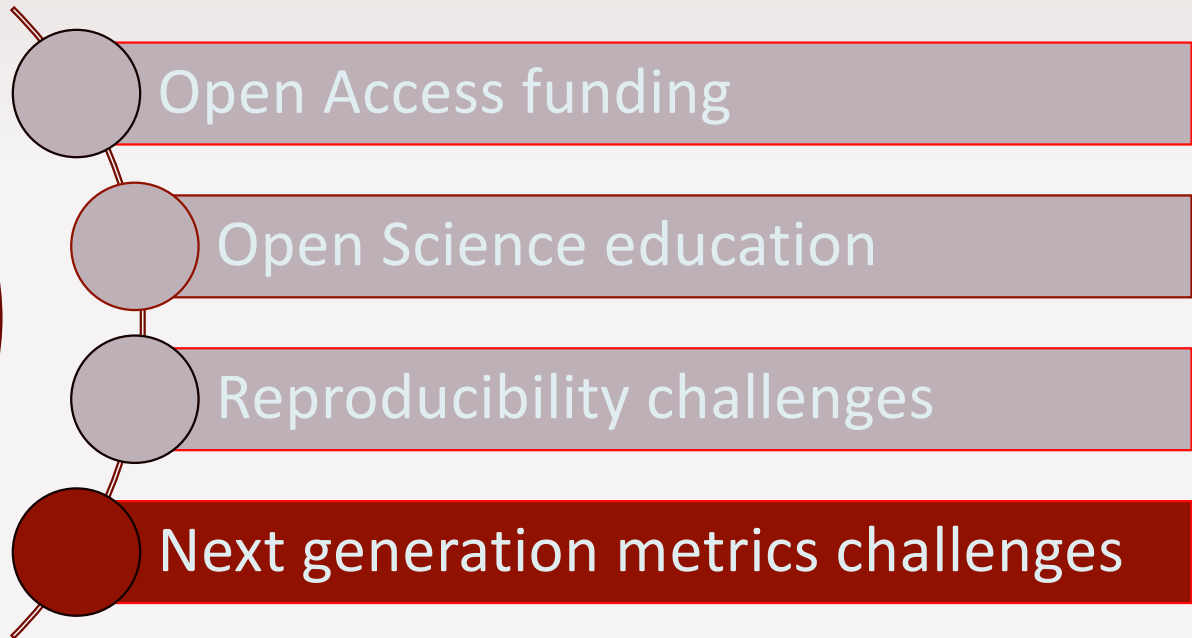
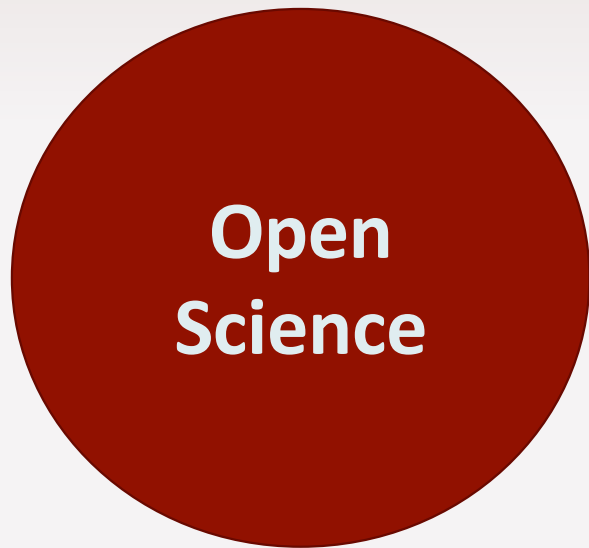


**Trust in science depends on the  
attitude towards replication  
studies.**

**The policies of scientific journals need to face new  
challenges related to the replication crisis.**

**Replication studies should become allowed in MA and PhD  
theses**

# Serbia - challenges



Next  
generation  
metrics

## LEIDEN MANIFESTO FOR RESEARCH METRICS

[Home](#) [Video version](#) [Translations](#) [Blog](#)

### 10 principles to guide research evaluation with 23 translations, a video and a blog

Research evaluation has become routine and often relies on metrics. But it is increasingly driven by data and not by expert judgement. As a result, the procedures that were designed to increase the quality of research are now threatening to damage the scientific system. To support researchers and managers, five experts led by Diana Hicks, professor in the School of Public Policy at Georgia Institute of Technology, and Paul Wouters, director of CWTS at Leiden University, have proposed 10 principles for the measurement of research performance: the Leiden Manifesto for Research Metrics published as a comment in Nature.

Hicks, Wouters, Waltman, de Rijcke, Rafols, Nature, April 23, 2015

Next  
generation  
metrics

## LEIDEN MANIFESTO FOR RESEARCH METRICS

[Home](#) [Video version](#) [Translations](#) [Blog](#)

**Quantitative criteria as a complement to qualitative**  
**10 principles to guide research evaluation**  
**with 23 translations, a video and a blog**

**Taking into account the differences between scientific fields in**  
**publishing and citation**

CWTS at Leiden University, have proposed 10 principles for the measurement of research performance: the Leiden Manifesto for Research Metrics published as a comment in Nature.

Hicks, Wouters, Waltman, de Rijcke, Rafols, Nature, April 23, 2015

**Next  
generation  
metrics**

# **Next-generation metrics: Responsible metrics and evaluation for open science**

Report of the European Commission Expert Group on Altmetrics

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101006279



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Next  
generation  
metrics

The screenshot shows a news article on the Clarivate website. At the top left is the Clarivate logo, and at the top right is a dropdown menu labeled 'Who we serve'. Below the header, the article is categorized as 'NEWS' on the left, with the date 'JULY 26, 2022' and '4 MINUTE READ' on the right. The main headline reads 'Clarivate announces changes to the 2023 Journal Citation Reports'. Below the headline are social media sharing icons for LinkedIn, Facebook, and Twitter, with the text 'Share this article' above them. At the bottom of the article preview, there is a sub-headline: 'All Web of Science Core Collection journals, including arts and humanities will have Journal Impact Factors'. The article preview ends with a decorative green and blue abstract graphic.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101006279



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## Next generation metrics

ПРАВНО ИНФОРМАЦИОНИ СИСТЕМ  
Републике Србије

ПОЧЕТНА НОВОСТИ ▾ ЕЛЕКТРОНСКЕ БАЗЕ ▾ ВОДИЧ ▾ СЕМИНАРИ И ОБУКЕ COVID 19

Правилник о стицању истраживачких и научних звања: 159/2020-82

Претрага по приказаном тексту

На основу члана 30. став 1. тачка 5) Закона о науци и истраживањима („Службени гласник РС”, број 49/19),  
Министар просвете, науке и технолошког развоја доноси

**ПРАВИЛНИК**  
**о стицању истраживачких и научних звања**

“Службени гласник РС”, број 159 од 30. децембра 2020.

I. УВОДНЕ ОДРЕДБЕ

Члан 1.

Овим правилником ближе се уређује поступак стицања истраживачких и научних звања, поступак реизбора у звање, као и начин вредновања квалитета научних резултата, и квантитативног исказивања научноистраживачких резултата истраживача.

Члан 2.

Право на стицање истраживачких и научних звања као и на реизбор у звање имају сва лица која испуњавају услове прописане законом којим се уређује научноистраживачка делатност (у даљем тексту: Закон) и овим правилником, као и наставници и сарадници високошколских установа.

Члан 3.

Одлуку о стицању научног звања научни сарадник, односно одлуку о реизбору у ово научно звање, доносе одговарајући матични научни одбори, у складу са Законом и овим правилником.

Одлуку о стицању научних звања виши научни сарадник и научни саветник, односно одлуку о реизбору у звање виши научни сарадник, доноси Комисија за стицање научних звања, у складу са Законом и овим правилником.

Саставни део овог правилника чине:

**Next  
generation  
metrics**

**The evaluation of scientific work  
must consider next generation  
metrics.**

**Evaluation should take into account differences between  
disciplines.**

**Reliance on the impact factor is not in accordance with the  
DORA declaration**



Prof. dr Snežana Smederevac

*Department of Psychology, Faculty of Philosophy, University of Novi Sad*

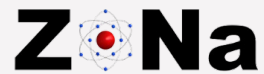
**Thank you for your attention!**

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Responsible Research and Innovation in the Western Balkans

 **Funded by  
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