

Open Science Challenges in N. Macedonia

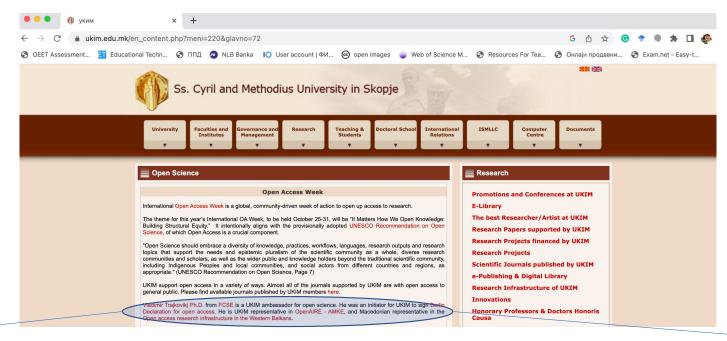
Vladimir Trajkovik



Open Science Days, Belgrade, 3rd November, 2022

Why me?





Vladimir Trajkovikj Ph.D. from FCSE is a UKIM ambassador for open science. He was an initiator for UKIM to sign Berlin Declaration for open access. He is UKIM representative in OpenAIRE - AMKE, and Macedonian representative in the Open access research infrastructure in the Western Balkans.

Additional persona





- Young researcher (PhD or MSc Student)
- Has heard about open science and check wiki page on it
- Considers to use open infrastructure for some experimentation
- Is interested to publish open access paper preprint
 - Can not afford gold access
 - Wants to share data and software but does not know how

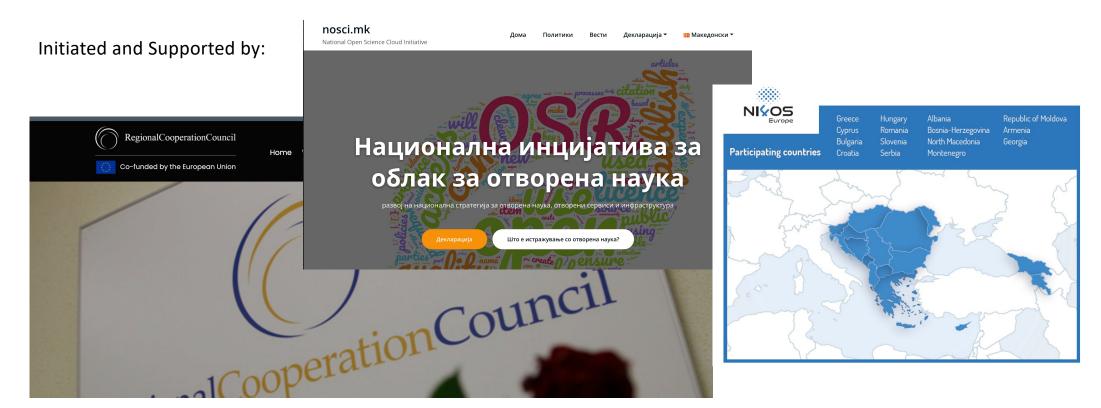
Topics



- Formal Perspective
 - Open access policy at the national level
 - Open access policies at the institutional level
 - Open access infrastructure
 - Open science education, open science awareness, open science at personal level
- I will really talk about: Open science challenges

Open access policy at the national level



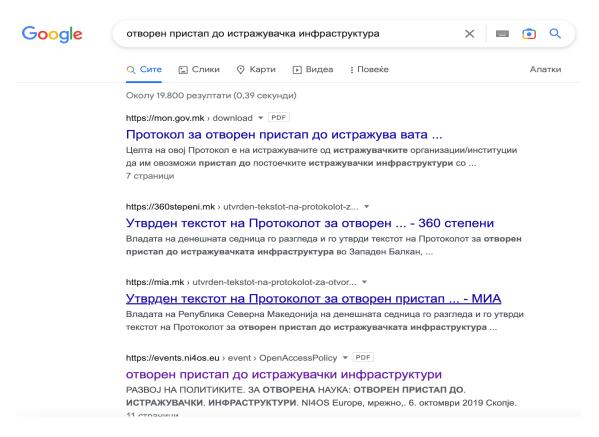


Open access policy at the national level



Current status:

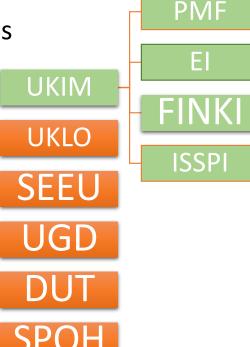
Protocol for open access to research infrastructure is adopted by government of R.N. Macedonia in 2020

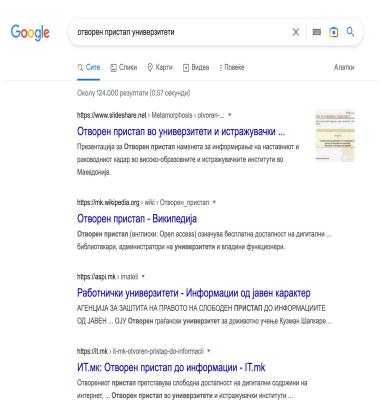


Open access (policies) at the institutional level

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Responsible Research and Innovation in the Western Balkans

- Repositories
 - Educational resources
 - Publications
 - Data
 - Services
 - Software
- Support
 - Declarative
 - Organizational
 - Financial
 - Project based
 - Internal funding
 - Personal Funding



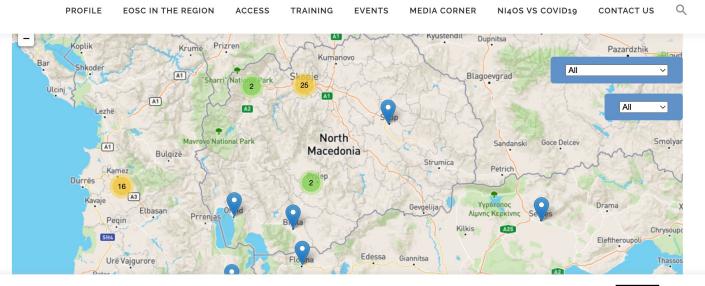


Open Access Infrastructure Resources Stakeholders Map





https://ni4os.eu/survey-results/ https://ni4os.eu/os-stakeholders-map/ 10.5281/zenodo.3722929



- No specific contact info
 - Address available
 - Web page easy to find
- No info about resources
- No info related to policies

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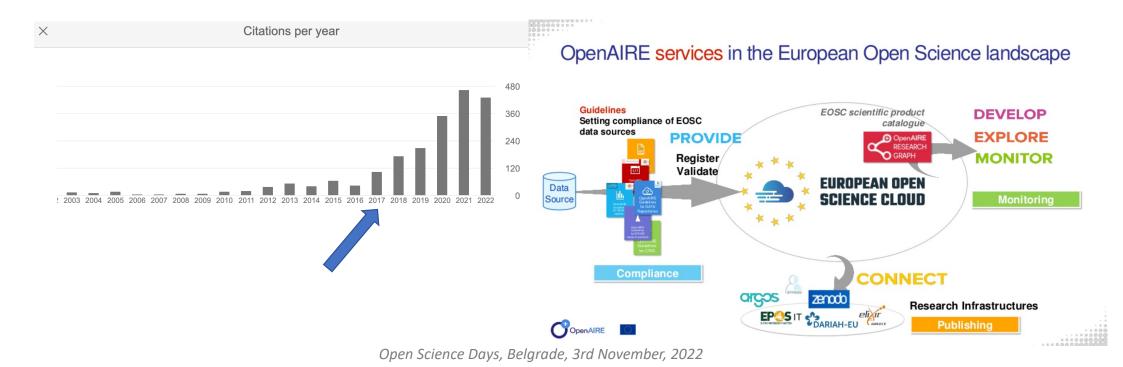
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Why Open Access on Personal level?





Why open access on institutional level?

- Small Countries Universities
 - Visibility
 - Cooperation
 - Attracting Finance





But...



- There are still (senior) professors that think open science is equal to fake publishing
 - The current trends with some publishing companies does not help
- The information shared with PhD and MSc students is not institutionalized
 - Some professors speak about it on courses on Research, but most do not
 - There are efforts to use open university repositoriums but using "forced" approach
 - Most of available tools are limited (e.g. only papers) still not really user friendly (e.g. limited export options)
 - Gate keeper based approach is dominant
 - You have to know specific person
 - You have to be involved in specific project
- There is no "beyond declarative" easy findable useful practical information
 - When searching you will find news info, local tutorials on global tools, but not practical
 information about "first individual step on your path to open science in your local faculty"

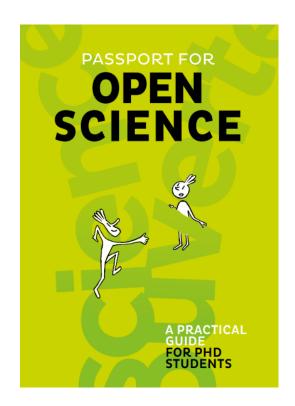
Compared to others...











What can be done? (Personal view)



- Not only top-down approach
- Reduce gate keepers' approach
 - Provide practical and financial, not only declarative support
 - use existing projects to "open" open access
- Include open access principles in PhD and MSc studies
 - Establish open access journals for PhD students
 - Discuss alternative digital publishing that includes open data
 - E.g., Jupiter
- Include open science indicators in the academic advance evaluation process
 - Open access to papers and data
 - Open reviews
- Consider similar conditions for management position in academia

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Summary of current open science challenges (Personal view) **TWBC-RRI.NET**(Responsible Research and Innovation in the Western Balkans

