



#### Students' Mobility Capacity Building in Higher Education in Ukraine and Serbia / MILETUS



### DIMENSIONS OF OPEN SCIENCE : FROM OPEN DATA TO SOCIAL SCIENCE











- What practices are related to Open Science concept and Open Science policy?
- Make a full list...



### DO WE KNOW WHAT IS "OPEN SCIENCE"?





Providing researchers with the skills and competencies they need to practise Open Science

Open Science Skills Working Group Report



Co-funded by the Erasmus+ Programme of the European Union Majority of researchers are unaware of the concept of Open Science. Most known: Open Publishing, growing awareness of Open Access Data Management.

3 out of 4 indicate they did not participate in open access or open course.

Coverage – 1277, 50% - PhD students

Working Group on Education and Skills under Open Science EC 2017 "Providing researchers with the skills and competencies they need to practice Open Science" - p.4

https://ec.europa.eu/research/openscience/pdf/os\_skil ls\_wgreport\_final.pdf



- Open Science represents a new approach to the scientific process based on cooperative work and new ways of diffusing knowledge by using digital technologies and new collaborative tools (European Commission, 2016b:33).
- The OECD defines Open Science as: "to make the primary outputs of publicly funded research results – publications and the research data – publicly accessible in digital format with no or minimal restriction" (OECD, 2015:7)















#### DO WE HAVE ENOUGH SKILLS TO IMPLEMENT OPEN SCIENCE? CATEGORIES



| Open Access<br>publishing |                                | Research Data,<br>Data Production,<br>Management,<br>dissemination |                 | Legal and Ethical<br>Concerns |                            | Open Notebooks |  |
|---------------------------|--------------------------------|--|-----------------|-------------------------------|----------------------------|----------------|--|
|                           | Communication outside academia |  | Citizen Science |                               | Open educational resources |                |  |

EU Open Science Monitor Steering Group on Human Resources and Mobility (SGHRM) Working Group EC 2017 "Providing researchers with the skills and competencies they need to practice Open Science" - p.4 https://ec.europa.eu/research/openscience/pdf/os\_skills\_wgreport\_final.pdf



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#### European skills and qualification matrix for Open Science.











<u>https://www.fosteropenscience.eu/</u>











# **Open Culture**

Social (co-creation)

# **Digital Infrastructure**

Innovative research







### http://www.socientize.eu/sites/default/files/white-paper\_0.pdf











### VOICES PROJECT



| Archive Page: The Voi         | ces Project has ended. This page is being retained as a historical record of the research conducted by this project. It is no longer b | eing updated since 2014. |
|-------------------------------|--|--------------------------|
| VOICES                        |  | VOICES FOR INNOVATION    |
| HOME   THE PROJECT   ABOUT US | EOCUS GROUPS   OUTCOMES   PUBLIC EVENTS  | (¢ Line 10)              |
|                               | You're making your VOICES heard  | VC Cit grc op            |

http://www.voicesforinnovation.eu/

- VOICES (Views, Opinions and Ideas of Citizens in Europe on Science) is a groundbreaking consultation, using the opinions of 1000 people from across 27 EU countries to shape the future of European research.
- To this end, VOICES devised a specialised yet flexible methodology, using 100 three-hour focus groups in order to engage citizens and gather their opinions and ideas about research and innovation in 2013. The consultations were run by science centres and museums, as the natural interface between science and society, and coordinated by Ecsite, the European Network of Science Centres and Museums.





#### **Citizen Science Resources**

| PyBossa                        | PyBossa       |
|--------------------------------|---------------|
| <b>github</b><br>Social coding | Furnivall     |
| OurGrid                        | Ourgrid       |
| <pre>&amp;EpiCollect</pre>     | EpiCollect    |
| X                              | BOINC         |
| project<br>NOAN                | Project Noah  |
|                                | All our ideas |
| spiw <mark>e</mark> rk         | Epiwork       |
|                                | CartoDB       |

Bring the voices of citizens and stakeholders into research.





- it contributes to building a more scientifically literate society able to actively participate in and support democratic processes, and science and technology developments,
- it injects differing perspectives and creativity in research design and results, and
- it contributes to fostering more societally relevant and desirable research and innovation outcomes to help us tackle <u>societal challenges</u>.

#### IMPLEMENTATION

- the establishment of iterative and inclusive participatory multi-actor dialogues between researchers, policy makers, industry and civil society organisations, NGOs, and citizens;
- to foster mutual understanding and co-create research and innovation outcomes and policy agendas effective in tackling societal challenges, and
- fostering wider acceptability of results.



# ARE WE READY?













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## Thank you for your attention!





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