

Open Science as a new opportunity for Czech academic libraries

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8. Bibliothekskongress Leipzig 2022: #FreiräumeSchaffen 2.6.2022



CHARLES UNIVERSITY Open Science Support Centre

Charles University / Karls-Universität

- 1348 founded in Prague by Charles IV.
- 1409 Leipzig University founded in 1409 by teachers and students leaving CU
- 1882 University split into two (Czech and German)
 - Czech closed in 1939, re-established 1945
 - German closed in 1945
- => both Czech and German heritage



Charles University today

- nearly 50 000 students
- cca 9 000 staff (incl. cca 3 900 academics)
- over 1 000 study programmes
- 17 faculties
 - 3 cities Prague, Pilsen, Hradec Králové
 - art, science, law, 5 medical faculties, 3 theological faculties, pharmacy, education, humanities, social sciences, mathematics and physics, physical education and sports



Libraries at CU

- decentralized system with faculty libraries (more than 17..)
- Central Library
 - part of CU's Recorate
 - agenda:
 - ILS, discovery system
 - electronic resources
 - repositories digitization, theses
 - e-learning support



EVERYONE ON THE ROAD TO OPEN SCIENCE

meanwhile: Open Science is coming...

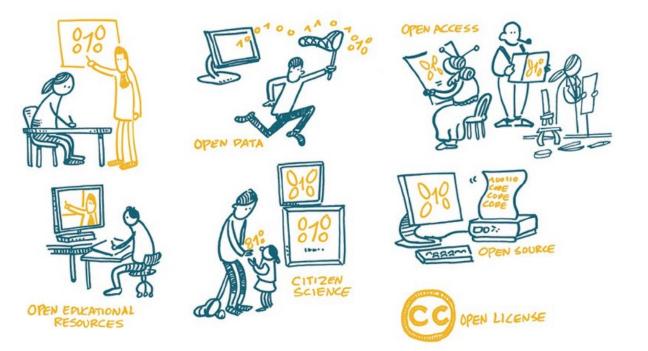


Image by Patrick Hochstenbach CC-BY 4.0

Open Science

 "Open Science is the practice of science in such a way that others can collaborate and contribute, where research data, lab notes and other research processes are freely available, under terms that enable reuse, redistribution and reproduction of the research and its underlying data and methods." [project FOSTER]

 open access, open data, reproducible research, open science policies, evaluation and rewards...

Open Science in Czechia

- adaptation of OS policies on national level is very slow in CZE
- Open Access
 - can be funded, but no mandates

- gold as preferred route, transformative agreements
- Research Data
 - no current policy, DMPs not mandatory (yet), making data FAIR not mandatory (yet)

Situation on CU

- no explicit policies
- limited infrastructure (O365 & other, heavily decentralized)
- unknown best practices
- no real national pressure (changing slowly)
- most incentives coming from international cooperation (Horizon 2020, Horizon Europe, etc.) and EU policies
- => our goal: Be ready before new policies are mandatory.

Relevant experience?

- Central Library's agenda:
 - electronic resources
 - ILS
 - discovery system
 - repositories digitization
 - repositories theses
 - e-learning support

- Open Access
- digital objects
- PIDs
- metadata, protocols, formats
 - => FAIR data
- open educational resources

What to do?

- Open Science Support Centre (since 2020)
 - Open Access & Open Data + Institutional Repository
 => OA + RDM + FAIR + repo
 - support OA (incl. APC monitoring),
 - prepare analyses, strategic materials for repository, provide support

Analyze

policies requirements existing solutions tools current practices

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CHARLES UNIVERSITY Open Science Support Centre

openscience@cuni.cz

Provide

infrastructure policies tools best practices

Communicate 📭

university

- central level
- faculties

outside world

- national
- international
- + EOSC

Analyze



- policies
- requirements
- existing solutions
- tools
- current practices



Analyze – CU specific



- data survey (Jun-Jul 2021)
 - what happens to your data during the research cycle?
 - sentiments regarding RDM topics (data security, sharing, reuse..)
 - survey was (to some extent) coordinated accross 3 universities
 - Charles University, Masaryk University, VSB-TU Ostrava
- sharing (in repository) not main issue
- more people would use others data, not much incentive to share theirs
- support would be appreciated

Analyze – CU specific

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- results published in Zenodo
 - https://doi.org/10.5281/zenodo.5841573
- including data
 - https://doi.org/10.5281/zenodo.5841574
- in Czech only (project output)
 - feel free to contact us for more info if interested

UNIVERZITA KARLOVA
Studie užití výzkumných dat v rámci vybraných vědních oborů
Univerzita Karlova
Centrum pro podporu open science
Mgr. Dagmar Hanzlíková 🍥 Ing. Milan Janíček 💿
Tento výstup vznikl v rámci projektu Rozvoj kapacit VaV UK, reg.č. CZ.02.2.69/0.0/0.0/18_054/0015222
Praha, 2021
C
EVROPSKA LINIE Evropska stukturální a investión fondy Openaňní program Výscium, vývcj a vzděláknaní

Communicate



- university
 - central level
 - faculties
- outside world
 - national
 - international
 - + EOSC



Communicate – Inside University



- researchers
 - mostly interviews, in person, 60-90 mins
 - \leftarrow how do you work with data, domain specifics, what are the obstacles, what do you wish to improve, what support do you need
 - \rightarrow FAIR principles, Open Science goals, new requirements in projects, DMP
- people like to talk about their work even with "librarians"
 - experience with metadata, discovery, digitization helps

Communicate – Inside University



- building support
 - working group on DMP/RDM
 - IT, GDPR, technology transfer, science dept.
- centralizing support makes sense
 - domain specific support would be nice
- existing Research Infrastructures help a lot
 - (LINDAT/CLARIAH-CZ, ELIXIR.CZ..)

Communicate – Outside World



- national cooperation
 - mostly on Open Access basis (not many Open Science people)
- international cooperation
 - 4EU+ Alliance Open Science part of projects





+ great Open Science community ;-)

Provide

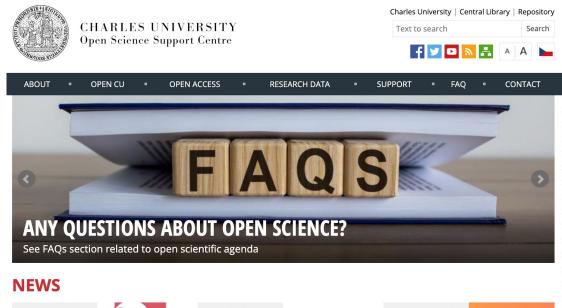


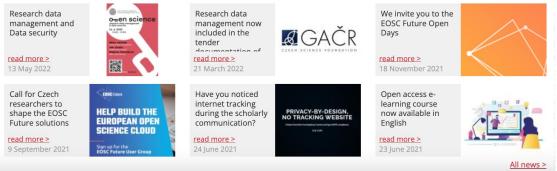
- support
- best practices, workshops and training
- policies
- infrastructure
- tools



Provide - support

- Open Science Web <u>https://openscience.cuni.cz</u>
 - OA (basic info, APC monitoring, tokens)
 - RDM & FAIR (repository guidelines, data security, DMPs)





Provide – workshops and training



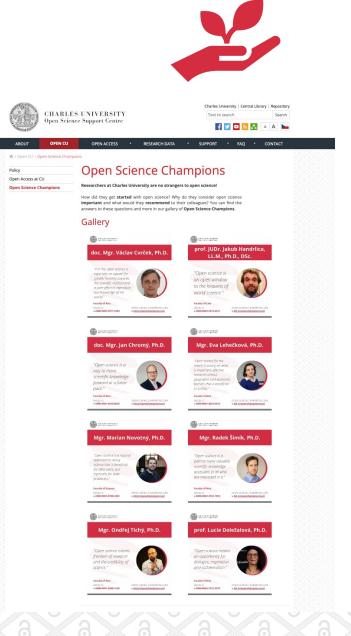
- 2 multiday workshops:
 - for academics
 - for staff
- topics OA, DMP, RDM, FAIR, data sharing, licensing, Research Infrastructures, EOSC



Provide – community building

- Open Science Champions
 - academics supporting Open Science
 - short interviews on our web
 - <u>https://openscience.cuni.cz/OSCIEN-99.html</u>

=> OS still not mainstream, but growing



Provide – community building



- Open Science Podcast
 - (in Czech)
 - initiative by OA coordinators
 - interviews about OS related topics
 - 8 episodes so far



Next steps

- help to create data policy
- infrastructure & tools EOSC CZ implementation
- support new projects (proposals, DMPs)
- be more involved in education (courses for PhD. students)
- help to cultivate scholarly communication (including topics related to Open Access)
- keep an eye on other developing aspects of OS

Conclusions

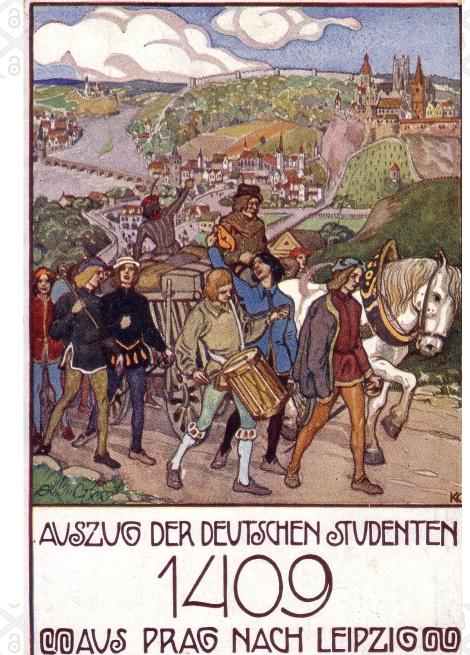
- Library has natural role in Open Science Support → new opportunities.
- Experience libraries have is relevant (metadata, identifiers, protocols, data interchange, openness, digital objects).
- This is true even in decentralized environment that doesn't actively embrace Open Science.

➔ We believe we can help make Charles University better, help to practice science in such a way that others can collaborate and contribute...

Thank you for your attention!

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Links

- "Everyone on the road to Open Science" by Patrick Hochstenbach, CC-BY 4.0: <u>https://fredvbrug.github.io/images/OA.jpg</u>
- Výroční zpráva Univerzity Karlovy- <u>https://cuni.cz/UK-8533-version1-</u> <u>uk_vyrocni_zprava_2020_web.pdf</u>
- tapestry: <u>https://www.lf2.cuni.cz/fakulta/clanky/prohlaseni-nazory-</u> eseje/mezinarodni-den-ptactva-symbol-pelikana
- UK logo: <u>https://cuni.cz/UK-6450.html</u>
- Auszug den Deutschen Studenten..., Public Domain: <u>https://commons.wikimedia.org/wiki/File:Auszug_aus_Prag_1409.jpg</u>