EOSC FESTIVAL 2023 National Tripartite Event Poland





SOLARIS National Synchrotron Radiation Centre: open-access infrastructure for research

Jakub Szlachetko on behalf of the team SOLARIS National Synchrotron Radiation Centre







Introduction to SOLARIS

SOLARIS is a third-generation light source and since 2018 provides **open access to research infrastructure**



Building of the SOLARIS Centre located at Campus of Jagellonian University in Krakow



TSA

Location of the League of European Accelerator-based Photon Sources (LEAPS) facilities







SOLARIS accelerators & synchrotron radiation





SOLARIS research infrastructure

Beamlines & Cryo-electron microscopes - package of unique experimental methods for extraordinary research projects



06 | 11 | 2023 by Jakub Szlachetko

COCOSC National Science Centre



Access to SOLARIS and users' community

Scientific access:

- free of charge and with open call for projects 2x per year
- applications accessed on scientific merit by the international committee
- typical projects execution takes 2-5 days with 24h operation
- development of dedicated platform for open-access infrastructure (SUN - Solaris Users Network)



NATIONAL SCIENCE CENTRE



Access to SOLARIS and users' community



Number of projects per year:



≈ 370 applications ≈ 200 experiments



≈ 700 scientists



 \approx 70 research units



SOLARIS: interaction with non-scientific community





Key performance indicators: 2022 2023 Data from 1st Nov. 2023 Number of visitors 1760 2040 3035 4170 Number of social media followers 15 13 1 Number of outreach events PRESS 45 45 / Number of press apperances in the media

Starting in 2024: visitors hub and knowledge path dedicated to primary and secondary schools

06 | 11 | 2023 by Jakub Szlachetko

COCOSC NATIONAL SCIENCE CENTRE Education and Science

SOLARIS data procedures

SOLARIS users generates about 180TB of data monthly, but SOLARIS is not the owner of the data.

Support for storage and access to experimental data:

- the guaranteed data storage period is 6 months for synchrotron research lines and 3 months for CryoEm/Glacios
- data placed on a disk array, so the risk of data loss is minimized
- remote access to experimental data is possible for authorized persons (for a week from the request for remote access)
- Solaris has ISO-27001 certificate that significantly increases the level of data security.

We are open to be a partner in discussions on EOSC and in area of <u>needs reported by the scientific</u> <u>community for IT infrastructure, computing and data storage.</u>





SOLARIS data procedures

SOLARIS users generates about 180TB of data monthly, but SOLARIS is not the owner of the data.

Support for storage and access to experimental data:

- the guaranteed data storage period is 6 months for synchrotron research lines and 3 months for CryoEm/Glacios
- data placed on a disk array, so the risk of data loss is minimized
- remote access to experimental data is possible for authorized persons (for a week from the request for remote access)
- Solaris has ISO-27001 certificate that significantly increases the level of data security.

We are open to be a partner in discussions on EOSC and in area of **needs reported by the scientific** community for IT infrastructure, computing and data storage.

Thank you for your attention!



Project is supported under the Polish Ministry and Higher Education project: "Support for research and development with the use of research infrastructure of the National Synchrotron Radiation Centre SOLARIS" under contract nr 1/SOL/2021/2

NATIONAL SCIENCE CENTRE



