

The image shows a modern, multi-story white building with large windows. A blue logo, consisting of a stylized 'E' and 'S' intertwined, is visible on the upper right corner of the building. The building is surrounded by green trees and a parking lot with several cars. A semi-transparent blue box with white text is overlaid on the center of the image.

Technology Centre of the Czech Academy of Sciences (CAS)

Ve Struhach 27, Prague 6, Dejvice

Participation of Czech organizations in EOSC H2020 projects overview

Workshop on EOSC – implementation steps

Prague, 3 December 2019

N. Witzanyová
TC CAS

Implementation Roadmap for the European Open Science Cloud (EC, 2018)

Architecture

Architecture of the federated infrastructures as the solution to the current fragmentation in research data infrastructures which are insufficiently interoperable.

Data

FAIR data management and tools. A common data language to ensure data stewardship across borders/disciplines based on FAIR principles.

Services

Available services from a user perspective. A rich environment offering a wide range of services covering the needs of the users.

Access & Interface

Mechanisms/interfaces for accessing EOSC. A simple way for dealing with open data obligations or accessing research data across different disciplines.

Rules

Rules of participation for different EOSC actors. An opportunity to comply with existing legal and technical frameworks and increase legal certainty & trust.

Governance

Governance of the EOSC, aiming at ensuring EU leadership in data-driven science but requiring new governance frameworks.

Projects Implementing **Architecture**

– *all projects are RIA except CatRIS*

Acronym	Support MEUR ()	Activities	Duration	Czech partner
EOSC -hub project	33,33	Develop the basic federated structure including shared resources	2018 – 2020 Freya 2017-2020	<u>CESNET</u>
OpenAIRE-<u>Advance</u> project	9,99			<u>MU</u>
FREYA project				<i>No</i>
EOSCpilot project	9, 95	Form a catalogue of data RIs, potential members and eligible RIs (according Rules of Participation) for federalisation. Point out federalisation centres.	2017-2018	<i>No</i>
CatRIS	1,5		2019 - 2021	<i>No</i>
SSHOC	14,5		2019 - 2022	<u>ChU</u>
EOSC-Life	23,8	Connecting ESFRI projects and EOSC; RI clusters : social sciences, biomedicine, neutron sources, environment, astronomy and particle physics	2019 - 2023	<u>MU, UPOL</u>
PaNOSC	12		2018 - 2022	<u>ELI, CESNET</u>
ENVRI-FAIR	19		2019 - 2022	<i>No</i>
ESCAPE	16		2019 - 2022	<i>No</i>

Projects Implementing Data – no Czech Partner

Acronym	Support in MEUR	Activities	Duration	Project type
FAIR data Expert Group (E03464), in consultation with stakeholders	NA	Action plan on FAIR data	Until 11/2018	Not.
FAIRisFAIR	10	Data management according to FAIR	2019-2022	CSA
Fair4Fusion	5,9	FAIR data processing	2019-2021	EURATOM/CSA
FAIR4Health	3	FAIR data processing	2018 - 2021	Z_H2020-EU.5.e. - Develop the accessibility and the use of the results of publicly-funded research
FAIRplus	8,2	IMI a EFPIA will be FAIR – development of guidelines and tools	2019-2022	Z H2020-EU.3.1.7. - Innovative Medicines Initiative 2 (IMI2)

Projects Implementing Services

– *all projects are RIA*

Acronym	Support MEUR	Activity	Duration	Czech Partner
EOSC-hub project	See above	Initial catalogue of services provided by EOSC (will be regularly updated). Defining models for providing services.	2017-2019	<u>CESNET, MU</u>
elnfraCentral project	1,5			<i>No</i>
OpenAIRE-Advance project	See above			?
EOSCpilot project EOSC-hub project Částečně FAIRisFAIR	See above	Initial catalogue of services for data sets reachable through EOSC (regularly updated).		<u>CESNET</u>
OCRE		Comercial services for EOSC	2019 - 2021	<i>No</i>
CS3MESH4EOSC	5,9	Development of federated services for data scientific sharing and storage.	36 months	<u>CESNET</u>
INODE	5,7	Intelligent Open Data Exploration	36 months	<i>No</i>
TRIPLE	5,6	Transforming Research through Innovative Practices for Linked interdisciplinary Exploration	42 months	<u>Lexical Computing CZ, I.I.c.</u>
NEANIAS	5,6	Novel EOSC services for Emerging Atmosphere, Underwater and Space Challenges	36 months	<i>No</i>
COS4CLOUD	6	Co-designed Citizen Observatories Services for the EOS-Cloud	40 months	<i>No</i>

Access and Interface and Rules

- **Access and Interface** – access to EOSC will be based on results from the EOSC-hub project. EOSC portal is important – see <https://www.eosc-portal.eu/>.
- **Rules of Participation**– will be formulated in EOSC pilot, EOSC-hub projects and expert platforms in cooperation with the Commission.

Projects Implementing Governance

Acronym	Support MEUR	Activity	Duration	Type, Czech Partner
EOSCpilot project	See above			
EOSCsecretariat.eu	10	Operation of EOSC coordination structure	2019-2021	CSA, <i>No</i>
EOSC-Nordic	6	Coordinating EOSC activities in Nordic countries	2019-2022	RIA, <i>No</i>
EOSC-Pillar	6,9	Italy, France, Germany, Austria, Belgium establish a federated model for EOSC	2019-2022	RIA, <i>No</i>
ExPaNDS EOSC -Photon and Neutron Data services	6	Consolidation of neutron and photon communities	2019-2022	RIA, <i>No</i>
EOSC-synergy	5,6	Coordination and consolidation of policies, federalisation of national RIs into EOSC	1/ 9/ 2019, 30 months	RIA, CESNET
NI4OS-Europe		Including national clouds for Open Science into EOSC	1/ 9/ 2019; 36 months	RIA, <i>No</i>



Coming Calls Overview

Topic	Description	Action	Opening	Closure	Budget MEUR
INFRAEDI-05-2020	Centers of Excellence for exascale computing	RIA	9/7/2019	13/11/2019 <u>closed</u>	20
INFRADEV-01-2019-2020	Design studies	RIA	25/7/2019	13/11/2019 <u>closed</u>	30
INFRAEOSC-03-2020	Integration and consolidation of the existing pan- European access mechanism to public Research infrastructures and commercial services through the EOSC Portal.	RIA	19/11/2019	21/4/2020	40,9
INFRAEOSC-07-2020	Increasing the service offer of the EOSC Portal.	RIA	19/11/2019	21/4/2020	24
INFRAIA-02-2020	Integrating Activities for Starting Communities.	RIA	28/11/2019	17/3/2020	115
INFRAIA-03-2020	Pilot for a new model of Integrating Activity.	RIA	28/11/2019	17/3/2020	45
INFRAINNOV-03-2020	Co-Innovation platform for research infrastructure technologies.	RIA	28/11/2019	17/3/2020	35
INFRAINNOV-04-2020	Innovation pilots.	RIA	28/11/2019	17/3/2020	30
INFRA supp-02-2020	Strengthening the human capital of research Infrastructures.	CSA	28/11/2019	17/3/2020	2

Call – Implementing the European Open Science Cloud; H2020-INFRAEOSC-2018-2020

Topic: INFRAEOSC-03-2020: Integration and consolidation of the existing pan- European access mechanism to public research infrastructures and commercial services through the EOSC Portal.

The EOSC-hub project and other projects established the EOSC portal. – website. See: <https://www.eosc-portal.eu/> . This is a continuation of this effort.

- Operation and upgrade of the EOSC portal. Safety of services on the EOSC portal. Enabling better use of AI by EOSC portal users.
- Operation, maintenance and enhancement of the EOSC portal (engaging with the supply side and users); Fostering and enabling secure service composability; User enhance experience using AI; Widening the user base; Widening the service offer with commercial services; outreach, skills and support to RDA; Building on the work already developed

Activity type	Allocation	„estimation “ project number	Approx. Project Duration	Opening	Closure
RIA	40,9 MEUR	1 and more	30 months	19 November 2019	21 April 2020

Call – Implementing the European Open Science Cloud; H2020-INFRAEOSC-2018-2020

Topic: INFRAEOSC-07-2020: Increasing the service offer of the EOSC Portal.

One project per area will be funded.

- a) Distributed and cloud computing resources
- b) Data services
- c) Services supporting scholarly communication and open access
- d) Above the net services
- e) Services and resources from non-research public sector data providers
- f) Additional research enabling services

Type	Allocation	Estimation- Number of Projects	Approx. Project Duration	Opening	Closure
RIA	24 MEUR	1 per area	30 months	19 November 2019	21 April 2020

Thank you
for
your attention

