

First general Assembly Austrian EOSC Mandated Organisation

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Alone you run fast
Together you run longer
(African saying we used to support EOSC)

Are we still running the same race?



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Intro

- Congratulations to all involved Austrian EOOSC Partners, Observers and EOOSC building initiatives.
- Key role of Austria (Stefan Hanslik, Paolo Budroni and their teams) in launch EOOSC (november 2018)
- Important for Europe every MS does this asap (african saying)
- Because the world is changing faster than we anticipated

Are we still in the same race?

- Origine of EOSC (2014) : making sure publicly funded research data in Europe are accessible and reusable to all, irrespective of the platform they are stored on (given we have no European platforms)
- World wide acclaim for this (e.g. US) and “copycatting” (e.g. China, Africa, ...)
- 2020,-: the whole world is launching cloud environments based on EOSC principles (leading to a potential OSCER)
- Today: (since Corona and the FAANG issues) pertinence of open data for science and the rest of life and society is fully acknowledged.
- As everything will become data driven and hence researchable **the stakes are much higher and pressing for Europe to get its (research) data act together**

Europe seems to trust its regulation first and foremost (“the US has the FAANG, we have GDPR”) - Trustworthy AI (data) regulation (21-4-2021)

- The rules of the game (“Europe fit for the digital age”) are defined – in **81 pages** - by intentions (“avoiding bad or risky AI”) & non desired application areas/functions

This is a counterproductive, functional policy approach*:

- It is subjective (what is bad?) & context/time dependent (bad in Finland is not the same as in Bulgaria) & tech specific (what if I label my face recognition algorithm not an AI app?)
- It will create a disadvantage for European companies having to compete globally (different rules, data “heavens” to be expected outside the EU 27)
- It has an enormous enforcement problem: it means ex post action because of “running after the facts”
- More productive road (like the one advocated by EOSC): **Trust by design in the architecture of the data eco system** (and not in the categories of usage)

Trust by design* (in the first place and enforcement only when needed)

Foundational Principle 1: personal data are the ownership of the personal object (mankind) related to it.

Architectural solution 1 (privacy by design) : Embed privacy compliance in the design of the SW services and standards (GDPR compliant) or the architecture of the sharing and access system (see PHT, SOLID, etc ...).

Architectural solution 2 the supporting ecosystem is based on open standards and protocols

Architectural solution 3 all data are FAIR (including meta data) and metadata are separated from actual data to avoid re-identification on metadata)

Foundational Principle 2: The aggregation of data cannot be owned – private nor burocratically

Architectural solution 4 All data need to be retracable to the origin at all time and in every application (open PID) and cannot be premium stored on third party platforms.

Architectural solution 5 All aggregated data are FAIR (incl meta data) (to allow data aggregation on a use basis, but go againsy rent extraction mechanism of data ownership that creates value in data on a perpetual basis)

Architectural solution 6 Public data banks can be created on what are considered key data sets (e.g health)

Architectural solution 7 Trusted Third Parties (EOSC's, data coalitions, M. Prewitt) for data management (like credit cards system);

What is the new race?

Positioning the work of the Austrian chapter (and EOSC for that matter)

- The whole world is moving ahead in setting up clouds
- Data is the key asset of almost every human and non human action
- Everything becomes datified and thus researchable
- The issue of data governance is global and universal
- A “fortress Europe” approach will not work, let alone be possible, in digital.

Lets not be complacent - Will EOSC be ready in time?

- Today: EOSC made substantial progress **de jure**: the creation of the EOSC association, managerial independence, 100ds of people working on EOSC related issues, large budgets set aside, etc ...

But **de facto**?

- Where to go as a researcher to deposit data in EOSC?
- When will it be like Eduroam?
- And how much time can we wait before the race gets closed?

Thank You

“Sapere Aude - possibilismus est”
Be courageous – it is possible

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An authorised account of open science policies at the EC (till 2019)

JC Burgelman et al (2019) Open Science, Open Data, and Open Scholarship: European Policies to Make Science Fit for the Twenty-First Century
<https://www.frontiersin.org/articles/10.3389/fdata.2019.00043/full>

The Outside story of EOSC

JC Burgelman et al (2019) Architectures of Knowledge: The European Open Science Cloud.

<https://www.degruyter.com/downloadpdf/j/abit.2019.39.issue-2/abitech-2019-2006/abitech-2019-2006.pdf>

The inside story of EOSC

J.C., Burgelman (2021) Politics and open science: how the European Open Science Cloud became reality. Data Intelligence, Vol.3 Issue 1. E

On Open research data Policies and Europe’s stance

JC. Burgelman & C. Pascu (forthcoming 2021) Open data: the building block of 21st century (open) science, in the European Physical Society (EPS) Grand Challenges: Physics for Society at the Horizon 2050)