

EOSC

Austria takes initiative

GRAZ

Open Access Days

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Abstract

Im Zuge der österreichischen Ratspräsidentschaft wird es im Wesentlichen zwei themenbezogene Veranstaltungen geben: Eine europäische Fachkonferenz mit dem Titel “The EOSC-Austria takes initiative”, und in Folge eine hochrangige Veranstaltung bei der gemeinsam mit europäischen Ministern und der Europäischen Kommission die Steuerungsstruktur der EOSC präsentiert werden soll und durch einer „Vienna Declaration on EOSC“ dieser europäische Prozess gemeinschaftlich erarbeitet werden.

Diese Präsentation zeigt die wesentlichen Aspekte der EOSC, ihre Governance, sowie die österreichischen Initiativen auf, und stellt in weiterer Folge den Launch der EOSC vor.

Die „European Open Science Cloud“, in kürze EOSC genannt, soll dazu dienen den österreichischen / europäischen Forschenden unter Wahrung der Rechtssicherheit den Zugang zu erstklassigen europäischen Services/Dienstleistungen, Rechen-, Speicher- und Analysekapazitäten zu ermöglichen. Dadurch soll auch der offene und rechtssichere Austausch von Daten und Services erleichtert werden. Demnach soll die EOSC eine zuverlässige und offene Umgebung sein in der die wissenschaftliche Gemeinschaft und ihre Netzwerke wissenschaftliche Daten und Ergebnisse speichern, austauschen und nachnutzen kann.

EOSC bedingt damit den Aufbau von digitalen Archiv-Infrastrukturen/Landschaften und die Weiterentwicklung von forschungsunterstützenden Services für diverse Forschungsdisziplinen in Naturwissenschaft, Technik, Medizin, Sozial- sowie Geistes- und Kulturwissenschaften.

Mit der European Open Science Cloud soll eine offene und sichere virtuelle Umgebung geschaffen werden, in der wissenschaftliche Daten gespeichert, verwaltet und ausgewertet werden können. EOSC wird daher auch als „Internet der wissenschaftlichen Datenservices“ genannt. Zu diesem Zweck sollen bestehende e-Infrastrukturen über Länder- und Disziplinengrenzen hinweg zusammengeführt und auf einen erstklassigen Standard gebracht werden.

Politisches Ziel dieser Initiative ist die weltweite Führung der EU im Bereich der wissenschaftlichen Dateninfrastrukturen damit europäischer Forschender das Potential der datengesteuerten Wissenschaft voll nutzen können und dabei möglichst unabhängig von internationalen (kommerziellen) Anbietern zu bleiben. Das Ziel ist eine virtuelle Umgebung, in der Europas 1,7 Millionen Forscher und 70 Millionen Fachkräfte in Wissenschaft und Technologie ihre Daten über Fachgebiete und Grenzen hinweg speichern, austauschen nachnutzen und wiederverwenden können. Beim Aufbau einer solchen digitalen Europäischen Wissensinfrastruktur sollen bestehende Initiativen im Rahmen eines dezentralen Ansatzes berücksichtigt und integriert werden.

Wichtige und kritische Themen bei der Umsetzung der EOSC sind beispielsweise klare Regelungen zum Zugang zur European Open Science Cloud und die für die Umsetzung notwendige Expertise. Eine klare Steuerungsstruktur der EOSC soll dabei sicherstellen, dass Forschungsdaten die aus öffentlich finanzierter Forschung hervorgehen, nach den sog. FAIR-Grundsätzen, in einer sicheren und vertrauenswürdigen Umgebung auffindbar, zugänglich interoperabel und weiterverwendbar sind und bleiben, es sei denn, dies ist nicht möglich oder mit der weiteren Nutzung der Forschungsergebnisse nicht vereinbar („so offen wie möglich so eingeschränkt wie nötig“). Die Umsetzung des FAIR Data Action Plan wird dabei unterstützend wirken.

The European Open Science Cloud (EOSC)

EOSC Summit, June 2017 (quotation 1):

The EOSC is not a physical space but **a diverse ecosystem of connected services and infrastructures**. Emphasis should shift from project-based development to sustainable collaborative ecosystems.

Member states must initiate national infrastructure strategies.

Systems must be inclusive across disciplines and countries. Focus must be on easy-to-use systems for re-users. Legal issues need to be addressed, common definitions for FAIR data and trusted user environments developed.

The European Open Science Cloud (EOSC)

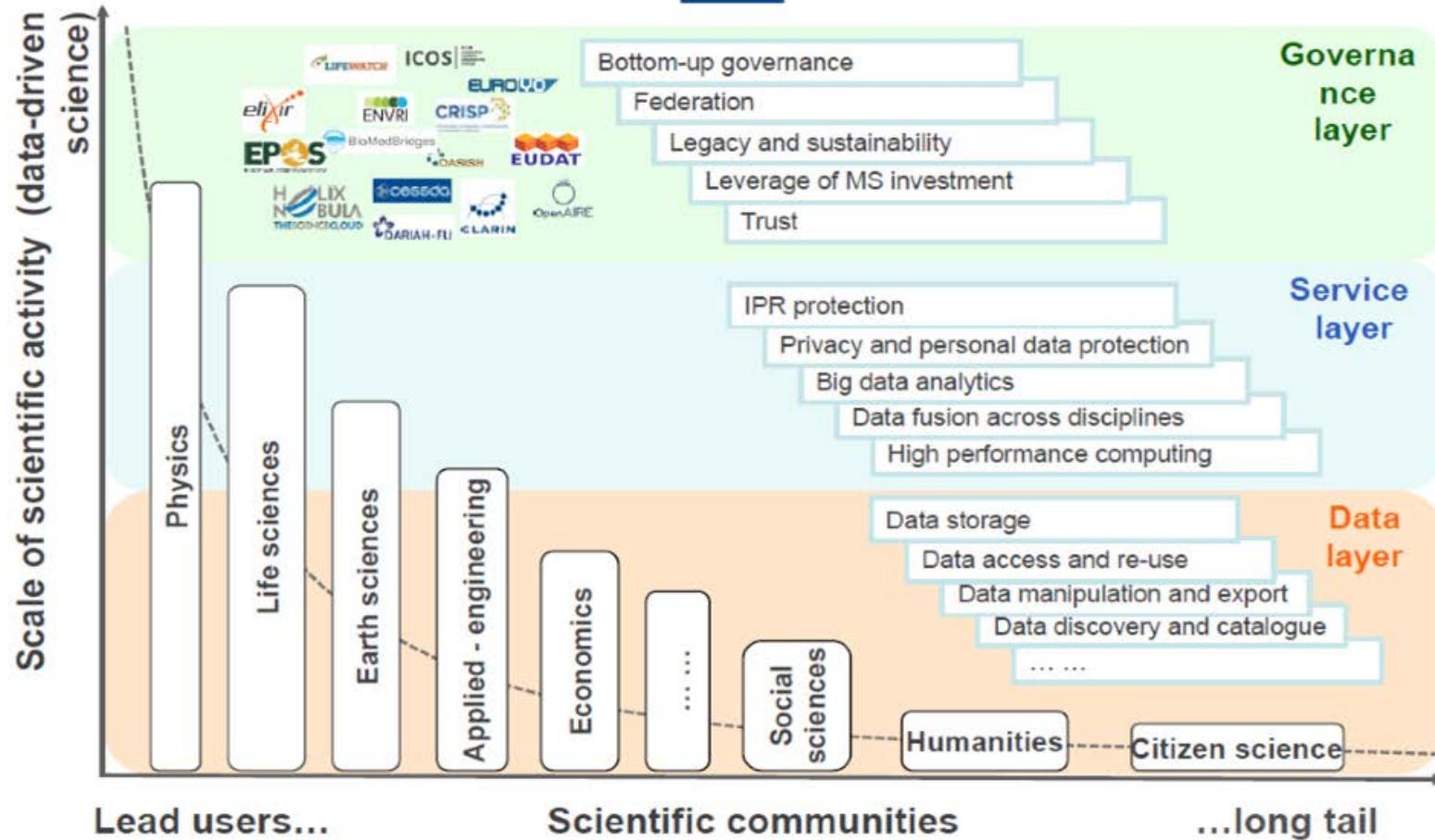
EOSC Summit, June 2017 (quotation 2):

Governance and funding models must consider that effective data stewardship extends beyond storage, and research-intensive institutions must be included.

In order to enable evaluation and monitoring there must be a common strategy for funders and an understanding of the minimum requirements for Data Management Plans (DMPs).

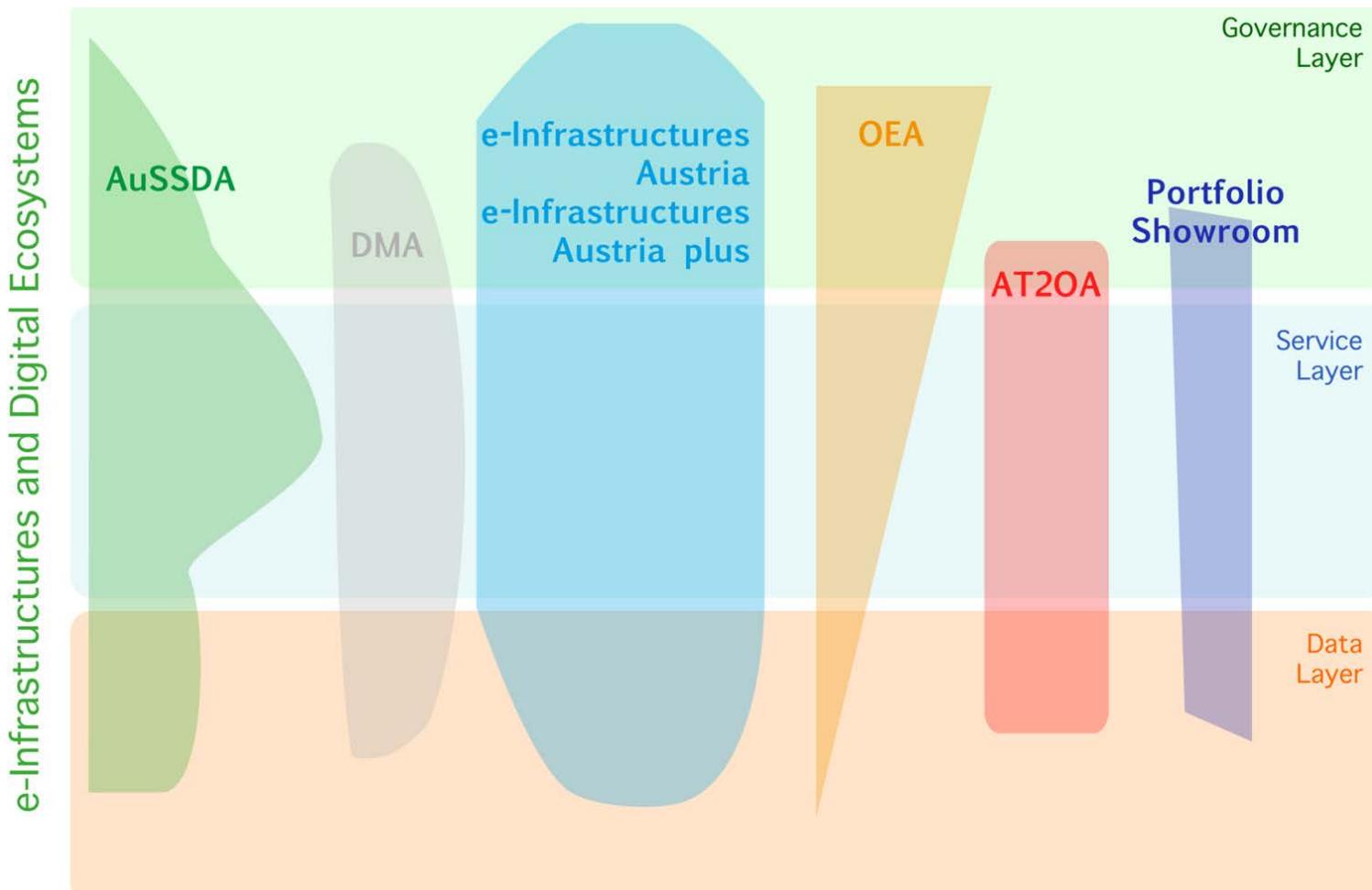
The EOSC is not a project but a process.

European Open Science Cloud



Source: "Open Science policy: Results of the consultation on 'Science 2.0: Science in transition' and possible follow up." Presented by J.C. Burgelman, June 3 2015 at e-IRG workshop

Open Science in Austria – towards the EOSC



Paolo Budroni, Raman Ganguly - University of Vienna 2017

This graph gives an overview of national efforts, increased visibility and interoperability of digital eco-systems like repositories., services, data, governance models, etc. all according the requirements of the EOSC as foreseen in the report of the HLEG.



Some EC activities EOSC 2018

- **April 25th:** Revised recommendation on Access to and Preservation of Scientific Information and the revised PSI Directive is adopted by the Commission
- **May 28th-29th :** Competitiveness Council meeting + Conclusions
- **June 11th:** EOSC 'coalition of doers' Summit 2018
- **September:** Publication of final proposal FAIR Data Action Plan by FAIR data EG
- **October 30th:** EOSC Austria takes initiative conference
- **November 23rd:** Launch of the EOSC, launch of Governance Structure
- **November-December:** Publication of recommendations FAIR data EG.
- **December:** Publication of recommendations EOSC HLEG

Revision of the 2012 Recommendation on Access to and Preservation of Scientific Information and the Revision of the PSI Directive

Revision of the Recommendation:

- In 2012 the Recommendation on Access to and Preservation of Scientific Information called on Member States to define and implement clear policies for open access to, as well as dissemination and preservation of, scientific information.
- Six years later, the European Cloud Initiative has announced a technical revision aimed at updating the Recommendation in occasion of the release of the 2018 Data Package.
- The revision plan was very well received and it could benefit from the strong involvement of Member States and stakeholders.

Revision of the PSI Directive

- In the context of the revision of the Public Sector Information Directive, DG RTD welcomed DG CONNECT's initiative to extend the Directive's scope to publicly-funded research data in line with the Recommendation.
- The Recommendation can be considered as the most suitable instrument to reinforce the impact of the Directive and elaborate on MS/stakeholders implementation.
- Both the revised Recommendation and the revised PSI Directive will be adopted by the Commission on April 25th.

PSI Directive in Austria

- The PSI Directive (Directive 2003/98/EC as amended by Directive 2023/13/EU) has been transposed in Austria by legislative measures at federal and at Länder level.
- **Federal measures:**
- Bundesgesetz über die Weiterverwendung von Informationen öffentlicher Stellen (Informationsweiterverwendungsgesetz - IWG) (Federal Law on the re-use of public sector information), BGBl. I nr. 135/2005, 18.11.2005 [Original language version](#) - [EN translation](#)
- Bundesgesetz mit dem das Informationsweiterverwendungsgesetz geändert wird (Federal Act amending the law on the re-use of public sector information), BGBl I nr. 76/2015, 9.07.2015 [Original language version](#) - [EN translation](#)
- **State measures (Länder):**
- Wien/ Vienna: Wiener Landesgesetz über die Weiterverwendung von Informationen öffentlicher Stellen - Wiener Informationsweiterverwendungsgesetz (Law on the re-use of public sector information of the Land of Vienna), LGBl. N° 52/2005, 20/09/2005 [Original language version](#) - [EN translation](#)
Modified by 'Gesetz, mit dem das Wiener Landesgesetz über die Weiterverwendung von Informationen öffentlicher Stellen - Wiener Informationsweiterverwendungsgesetz (WIWG) geändert wird' (Law amending the Law on re-use of public sector information of the Land of Vienna), LGBl No. 29/2015, 24/07/2015 [Original language version](#) - [EN translation](#)
- Kärnten/ Carinthia: Kärntner Gesetz über Auskunftspflicht, Datenschutz und Statistik des Landes (Act on accountability, privacy and statistics of the Land of Carinthia) of 7/07/2005 LGBl. N° 70/2005, 17/10/2005 [Original language version](#) - [EN translation](#)
Law No 22 of 29 October 2015 amending the Carinthian Information and Statistics Act, the Carinthian Provincial Archives Act and the Carinthian Provincial Museums Act [Original language version](#) - [EN translation](#)
- Vorarlberg: Gesetz über die Weiterverwendung von Dokumenten öffentlicher Stellen (Act on the re-use of documents held by public bodies, Land of Vorarlberg), consolidated version as per 18 August 2015 [Original language version](#) - [EN translation](#)
- Niederösterreich/ Lower Austria: NÖ Auskunftsgesetz, Bundesland Niederösterreich (Information Act, Land of Lower Austria), [Consolidated law in original language version](#) - [EN translation of 2006 amendment](#); [EN translation of the 2015 amendment](#);

PSI Directive in Austria

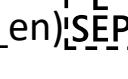
- Tirol/ Tyrol: Gesetz über die Weiterverwendung von Informationen öffentlicher Stellen, Bundesland Tirol (Law on the reuse of public sector information, Land of Tyrol) consolidated version as per 10 November 2015 [Original language version](#) - [EN translation](#)
- Burgenland: Gesetz über die Auskunftspflicht, die Weiterverwendung von Informationen öffentlicher Stellen sowie die Statistik des Landes Burgenland (Law on accountability, the re-use of public sector information and the statistics of the Land of Burgenland), LGBI. N° 14/2007, 12/02/2007 [Original language version](#) - [EN translation](#)

Modified by 'Gesetz vom 26. März 2015, mit dem das Burgenländische Auskunftspflicht-, Informationsweiterverwendungs- und Statistikgesetz geändert wird' (Law of 26 March 2015 amending the Law on accountability, the re-use of public sector information and the statistics); LGBI. No. 31/2015 of 3/06/2015, [Original language version](#) - [EN translation](#)
- Steiermark/ Styria: Gesetz über die Weiterverwendung von Dokumenten öffentlicher Stellen (Act on the re-use of documents held by public bodies, Land of Styria) of 27/03/2007, LGBI. N° 46, 13/06/2007 [Original language version](#) - [EN translation](#)

Modified by 'Gesetz vom 19. Mai 2015, mit dem das Steiermärkische Dokumenten-Weiterverwendungsgesetz geändert wird' (Law of 19 May 2015 modifying the Land of Styria law on the re-use of documents held by public bodies), LGBI. No. 41/2015, 03/06/2015, [Original language version](#) - [EN translation](#)
- Salzburg: Gesetz über Auskunftspflicht, Dokumentenweiterverwendung, Datenschutz, Landesstatistik und Geodateninfrastruktur, Fassung vom 06.08.2015 (Law on accountability, privacy, statistics and geo-data infrastructures, Land of Salzburg, as per 06/08/2015) [Original language version](#) - [EN translation](#)
- Oberösterreich/ Upper Austria: Landesgesetz, mit dem das Oberösterreichische Auskunftspflicht- und Datenschutzgesetz geändert wird (Law amending the law on access to information and data protection, Land of Upper Austria), LGBI N°86/2006 [Original language version](#) - [EN translation](#)

Modified by 'Landesgesetz, mit dem das Oberösterreichische Auskunftspflicht-, Datenschutz- und Informationsweiterverwendungsgesetz geändert wird' (Law amending the Upper Austrian law on access to information, on data protection and on re-use of public sector information) of 18/07/2015, LGBI. No. 68/2015 [Original language version](#) - [EN translation](#)
- **Please note: The original language versions of national legislation may be subject to a copyright and re-use policy different from the Legal Notice referenced above.**

EOSC -Development

EOSC is the result of various initiatives of the European Commission, started in 2015 with the adoption of the Digital Single Markets strategy ([→ http://ec.europa.eu/priorities/digital-single-market_en](http://ec.europa.eu/priorities/digital-single-market_en))SEP

Research data: EOSC aims to create a trusted environment for hosting and processing research data to support EU science in its global leading role.

The EOSC implementation is supposed to continuously evolve

EOSC - Development

The main reference document is the EC Declaration about the European Open Science Cloud (EOSC)¹ on October 26, 2017, signed by about 60 relevant European Organizations², including EIROs and ESFRIs; it sets the ground for the implementation of the EOSC and is related to:

- Data Culture, Standards and FAIR principles 
- Open Access 
- Research Data Services and Architecture 
- Governance and Funding 

http://ec.europa.eu/research/openscience/pdf/eosc_declaration.pdf#view=fit&pagemode=none

http://ec.europa.eu/research/openscience/pdf/list_of_institutions_endorsing_the_eosc_declaration.pdf#view=fit&pagemode=none

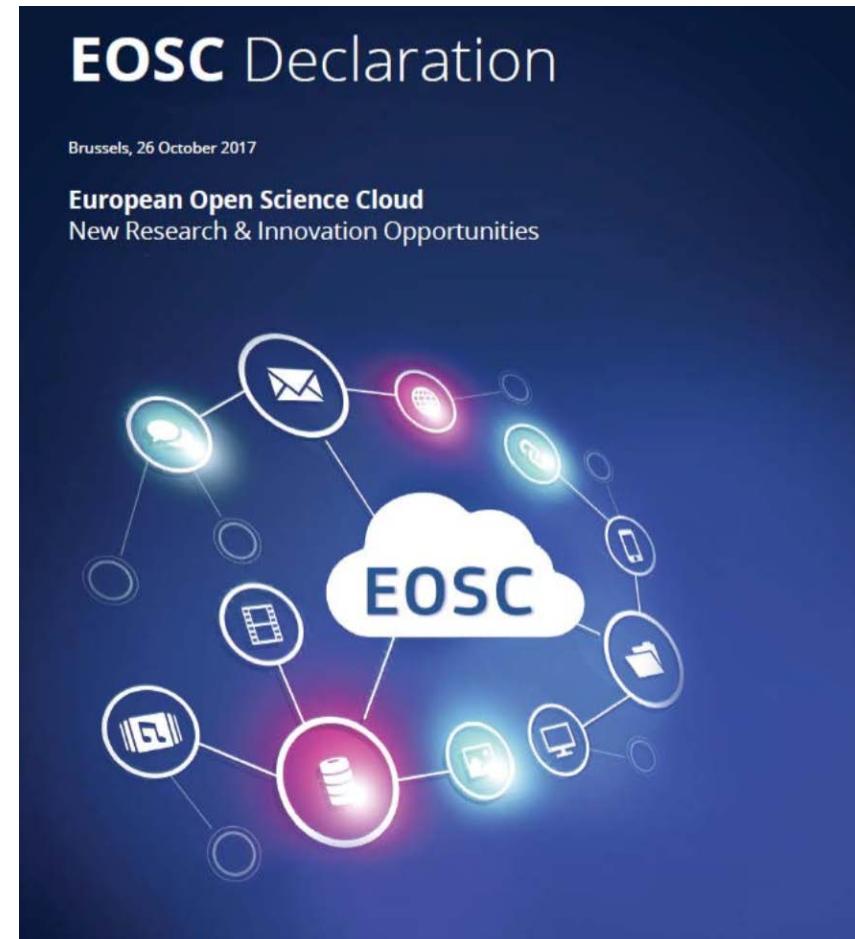
EOSC 'coalition of doers' Summit 2018 (organised by EOSC HLG)

EOSC Summit 2017 (12 June, Brussels) provided:

- A platform to voice the Council Conclusions of an implementation Roadmap for the EOSC
- An opportunity to consult with the 'coalition of doers' on the 'Draft Rules of Participation of EOSC' and Draft 'FAIR Data Action Plan'
- Demonstration to the 'coalition of doers' of a continued and consolidated support in building up EOSC and a reflection on achievements and progress one year later.
- A workshop to discuss the FAIR Data Action Plan.

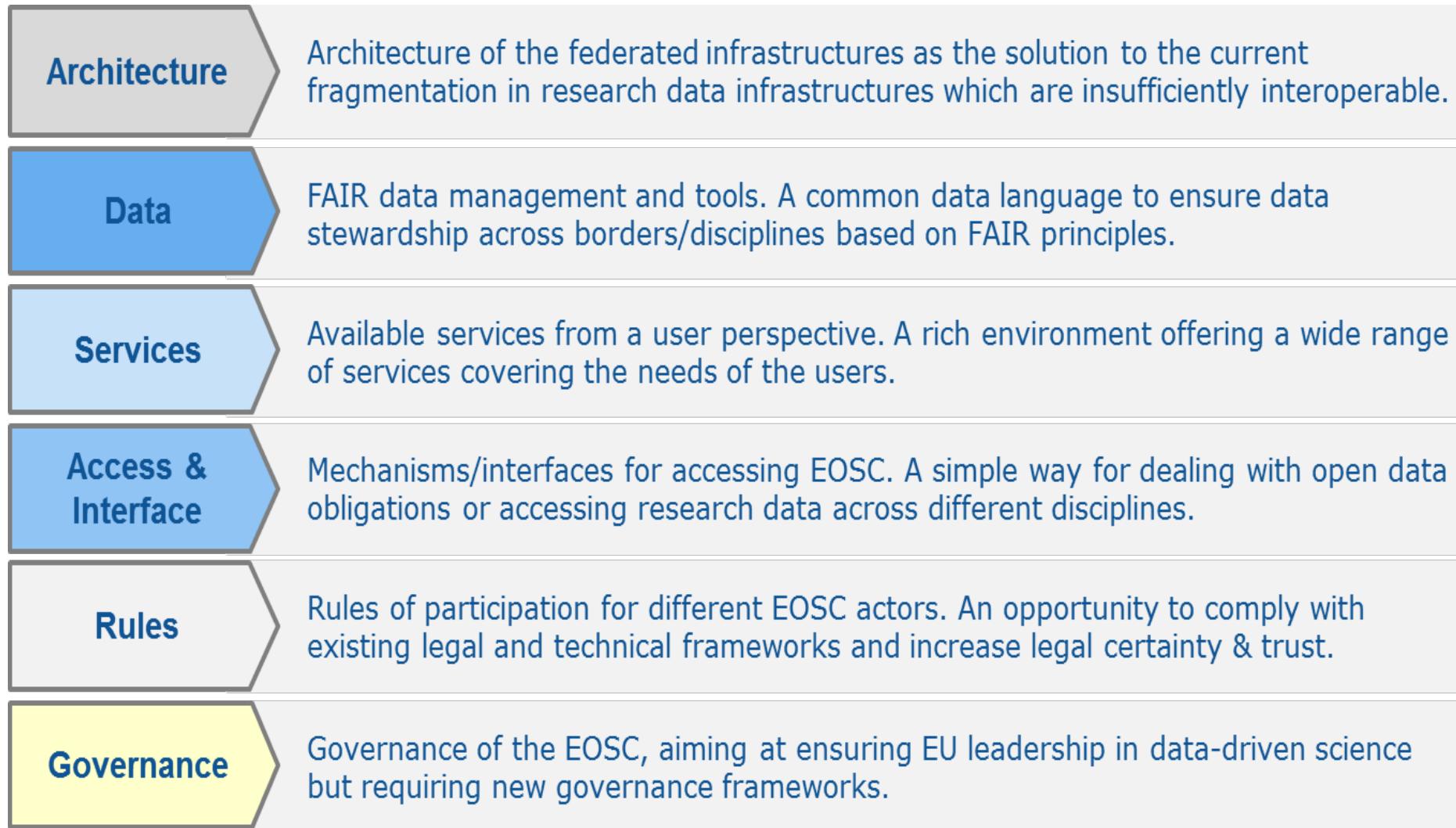
Endorsement of EOSC

- EOSC Declaration: Outcome of EOSC Summit 2017 (12 June, Brussels)
- First signatories could be viewed at:
[https://ec.europa.eu/research/openscience/pdf/list of institutions endorsing the eosc declaration.pdf](https://ec.europa.eu/research/openscience/pdf/list_of_institutions_endorsing_the_eosc_declaration.pdf)
- Signees from Austria: FWF, RDA Austria,
...

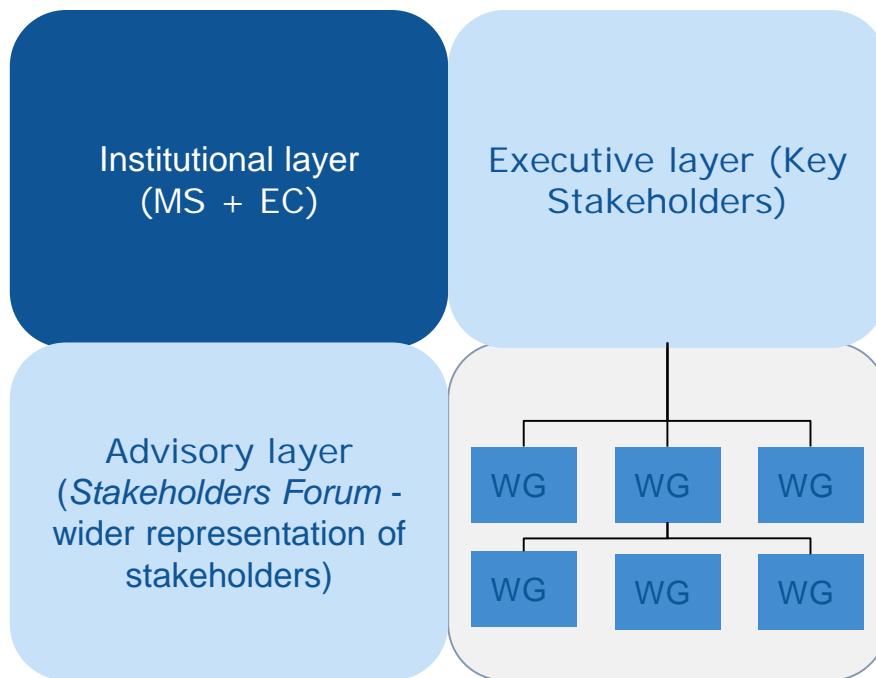


EOSC Declaration:
https://ec.europa.eu/research/openscience/pdf/eosc_declaration.pdf

EOSC - Action lines in the implementation Roadmap



EOSC - Governance design based on the stakeholders input and gathered evidence



Institutional layer - MS & EC representatives

- Sets and oversees the implementation strategy of the EOSC
- Approves Executive 'Board' and its work plan
- Assesses achievements
- Coordinates with relevant MS/EC initiatives

Advisory layer: Stakeholders Forum - signatories to EOSC declaration

- Provides advice to the operational and institutional layer
- Contributes on a voluntary and need basis to the WGs

Executive layer (representatives of stakeholders) approved by the institutional layer

- Operationalises the strategy sets by the institutional level and propose a work plan
- Oversees (and coordinates) EOSC implementation through WGs on e.g. FAIR data, rules
- Reports back to the institutional layer on progress
- Channels input and advice from stakeholders
- Coordinates with relevant stakeholder initiatives

Working Groups under the executive layer

- Support the operational layer in the implementation of the work plan
- Work for and report back to the executive body

All these activities have been carried out with the support of three initiatives

A) EOSC High Level Expert Group (HLEG)

The EOSC HLEG advises the Commission on actions needed to finalise the implementation Roadmap for the EOSC.

The HLEG focuses in particular on two crucial aspects of the EOSC:

- governance of the EOSC (including rules of participation and management as such)
- financing of the EOSC

HLEG Phase 1 (Chair: Barend Mons): provide strategic advice to the Commission on the **strategy** for the European Open Science Cloud initiative as part of the Digital Single Market, and deliver high-level recommendations

HLEG Phase 2 (Chair Silvana Muscella): advise the Commission on the measures needed to **implement** the European Open Science Cloud; Run open consultations on EOSC Rules of Participation and FAIR Data Action plan; Final report: „Prompting an EOSC in Practice“, final version due by December 2018



... and two related projects: B) EOSCPilot & C) EOSC-hub

B) EOSCPilot (Call: INFRADEV-04-2016 - European Open Science Cloud for Research)

Main goals: Define a model for the **governance** of the future EOSC; Develop a number of **demonstrators** as high profile pilots that integrate services and infrastructures to show interoperability and its benefits in a number of scientific domains [SEP] – Budget: about 10M€ [SEP] – Duration: 1.1.2017–31.12.2018

C) EOSC-hub (Call: EINFRA-12-2017 - Data and Distributed Computing e- infrastructures for Open Science)

Main goals: **Deliver the first implementation of the European Open Science Cloud** by leveraging and integrating the outcomes of the two main existing e-infrastructures (EGI and EUDAT) and the main technology provider (INDIGO-DataCloud) funded by previous EC projects [SEP]

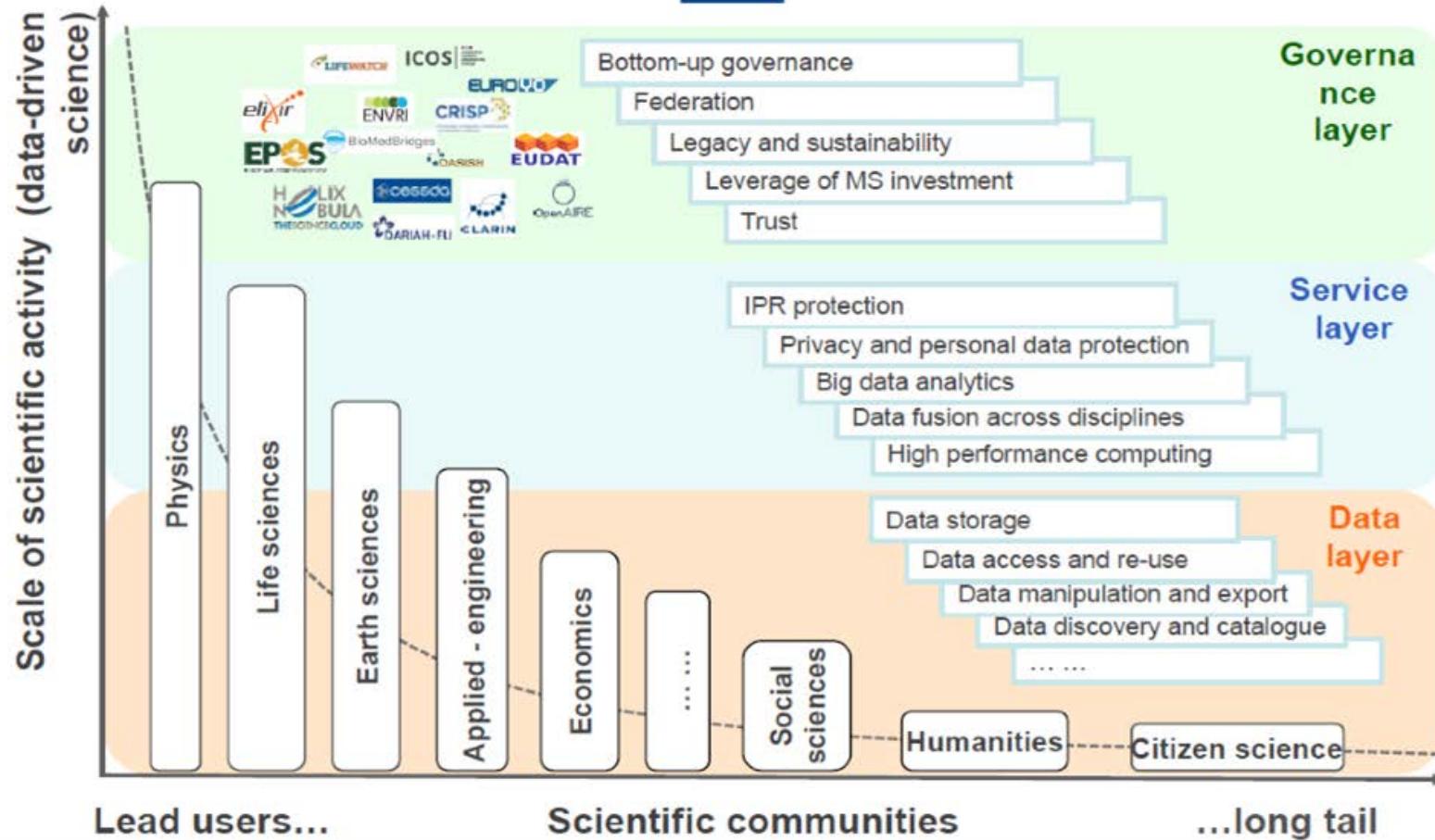
Create **the “HUB”, the contact point for researchers and innovators** to discover, access, use and reuse a broad spectrum of resources for advanced data-driven research [SEP]

Implement and maintain a **catalogue of resources (including data) and services** [SEP]

Provide a corpus of **policies, processes and federation services** to support the [SEP] inclusion of community-defined services – Budget: 30M€ [SEP] – Duration: 1.1.2018–31.12.2020

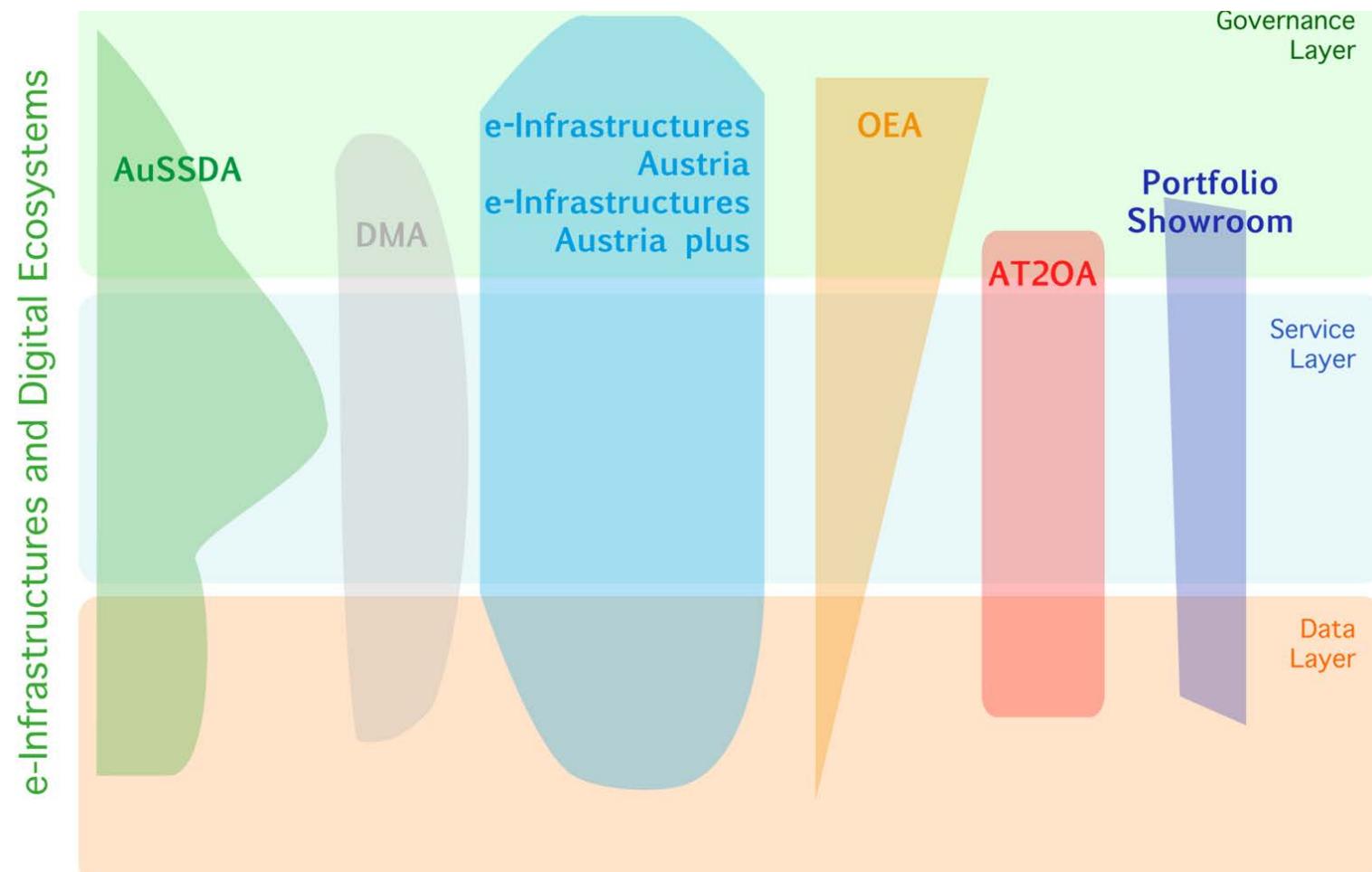
A portal for the EOSC services and data is being developed within EOSC-hub and will be presented at the EOSC Governance Launch Event in November 2018 (University of Vienna)

European Open Science Cloud



Source: "Open Science policy: Results of the consultation on 'Science 2.0: Science in transition' and possible follow up." Presented by J.C. Burgelman, June 3 2015 at e-IRG workshop

Open Science in Austria – towards the EOSC



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This graph gives an overview of national efforts, increased visibility and interoperability of digital eco-systems like repositories., services, data, governance models, etc. all according the requirements of the EOSC as foreseen in the report of the HLEG.

EOSC: Austria Takes Initiative Conference

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Conference in Vienna, 30th October 2018

The European Open Science Cloud:
Austria takes initiative

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Vorsitz im Rat
der
Europäischen
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The European Open Science Cloud

Austria takes initiative



Presidency event
30th October 2018
Kleiner Festsaal,
University of Vienna

www.univie.ac.at/eosc

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The European Open Science Cloud (EOSC)
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AOSSG

EOSC: Austria Takes Initiative Conference - Programme

Programme

	TITLE	SPEAKER	TIME
9:30 - 10:00	Registration and coffee		30
10:00 - 10:15 Opening	Welcome Opening and Welcome Address	University of Vienna: Vice-Rector Regina Hitzenberger BMBWF: Director General	15
10:15 - 11:30 EOSC Governance & Funding	Opening Keynote: EOSC – The European Open Science Cloud <i>3 reference models for topic "Governance & Funding"</i>	Jean-Claude Burgelman/ EC	15
	[1] BMBWF: EOSC – What does it implicate for Austria?	Stefan Hanslik/Austrian Federal Ministry of Education, Science and Research	15
	[2] Science Europe (tbc)	Stephan Kuster/Secretary General Science Europe	15
	[3] Austrian Science Fund	Klement Tockner , President of Austrian Science Fund	15
	Q&A		15

<https://eosc18-ati.univie.ac.at/home/>

EOSC: Austria Takes Initiative Conference - Programme

	11:30 - 12:00 Coffee Break	30
12:00 - 13:30 Data Culture & FAIR Data	EOSC and Data Culture <i>4 Austrian reference models for topic "Data Culture & FAIR Data"</i>	Barend Mons /GO FAIR 15
	[1] Data Market Austria	Mihai Lupu /Studio Director Research Studio Data Science 15
	[2] BBMRI ERIC	Erik Steinfelder /Director General at BBMRI-ERIC 15
	[3] AUSSDA – The Austrian Social Science Data Archive	Lars Kaczmarek /Head of AUSSDA 15
	[4] Digital Humanities in Austria: Transkribus. A European research infrastructure for the automated recognition and searching of historical documents	Günter Mühlberger /Coordinator READ Project, University of Innsbruck 15
	Q&A	15

EOSC: Austria Takes Initiative Conference - Programme

13:30 - 14:30 Lunch Break			
14:30 - 15:45 Service & Architecture	EOSC and Services & Architecture	EOSC Hub - Tiziana Ferrari /EGI	15
	<i>3 Austrian reference models for topic "Services & Architecture"</i>		
	[1] RDA Austria	Barbara Sánchez /RDA Austria, TU Wien	15
	[2] Earth Observation Centre	Wolfgang Wagner /Head of Department of Geodesy and Geoinformation TU Wien	15
	[3] Vienna Scientific Cluster (high-performance-computing)	Herbert Störi / VSC Research Center, TU Wien	15
	Q&A		15

EOSC: Austria Takes Initiative Conference - Programme

	15:45 - 16:00 Coffee Break	15
16:00 - 16:45	<p>Panel discussion 5 Persons (4 speakers and 1 moderator) – 3 of the 4 panelists represent the above mentioned topics, the 4th panelist represents the issues concerning the EOSC Stakeholder Forum</p>	<p>Chair: Paolo Budroni/University of Vienna Panelists: Donatella Castelli/CNR Pisa, Ingrid Dillo/DANS, Gabriele von Voigt/E-IRG Chair, University of Hannover, Daniel Weselka/BMBWF</p>
16:45 - 17:00	<p>Closing remarks and recommendations incl. preview of EOSC Stakeholder Forum in Vienna</p>	<p>Jean-Claude Burgelman/EC</p>

EOSC – Stakeholder Forum, November 2018

21-22 November 2018: The EOSCpilot Stakeholders' Forum will take place in Austria.

- The event will provide an opportunity to prepare the launch of the EOSC governance structure.
- The whole community will be there....

EOSC – Launch Event – November 23rd



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The European Open Science Cloud
Launch Event

23 November 2018,
10:00 – 13:30 hrs
University of Vienna
Library, main reading room

Contact

Launch of the European Open Science Cloud (EOSC)
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Library, main reading room
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Organizers

Austrian Federal Ministry of Education, Science and Research (BMBWF),
University of Vienna,
TU Wien,
European Commission

Federal Ministry Education, Science and Research

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10 recommendations to get ready for the EOSC

- (1) EOSC will be a tangible reality in 2019: start to **reorganize now**
- (2) Enhance the shift of mentality from vertical based thinking to horizontal based thinking. Create and offer new horizontal cross disciplines services. **Make convergence of knowledge possible** and gather efforts into reference points for research support
- (3) New roles assume appropriate **training and skill development**: offer them
- (4) Policy development and alignment at all levels, especially **RDM Policies**: introduce them
- (5) Generate and **adopt Data Management Plans**, support Data Stewardship
- (6) **Foster** the transition from “catalogue thinking management of data” to a “**web-based**” way of thinking at all levels of the organization
- (7) **Acknowledge the increasing relevance of the roles of research support units** versus the researcher community
- (8) **Activate all stakeholders** in your RI for the realization of the EOSC
- (9) **Get involved into the bottom-up processes** of EOSC
- (10) **Participate to the networks and initiatives** concerning the EOSC

Thank you!

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Credits



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