

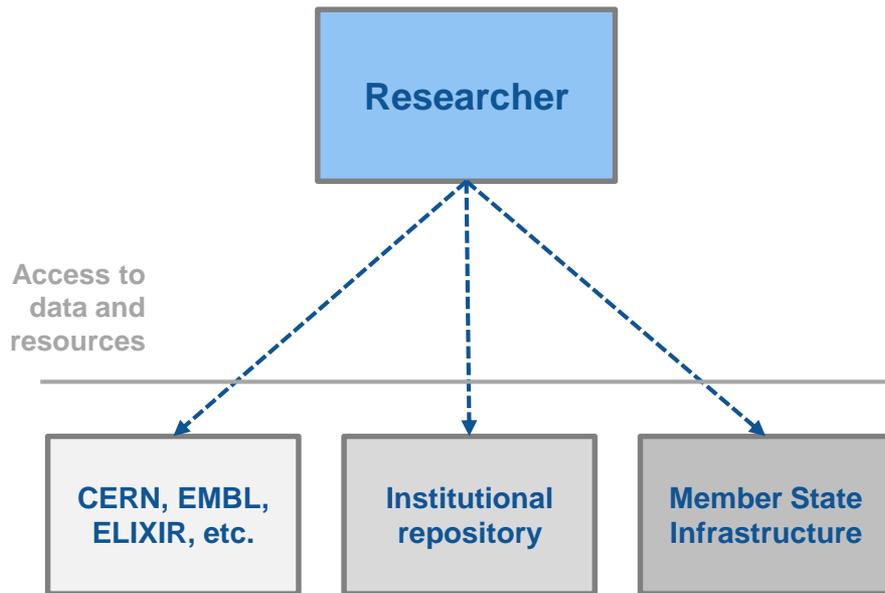


European Open Science Cloud

Horizon 2020 – WP 2018-2020 – Research Infrastructures
Dedicated info session for ESFRI Projects and Landmarks & ERICs
Brussels, 27.11.2017

EC - RTD.A6

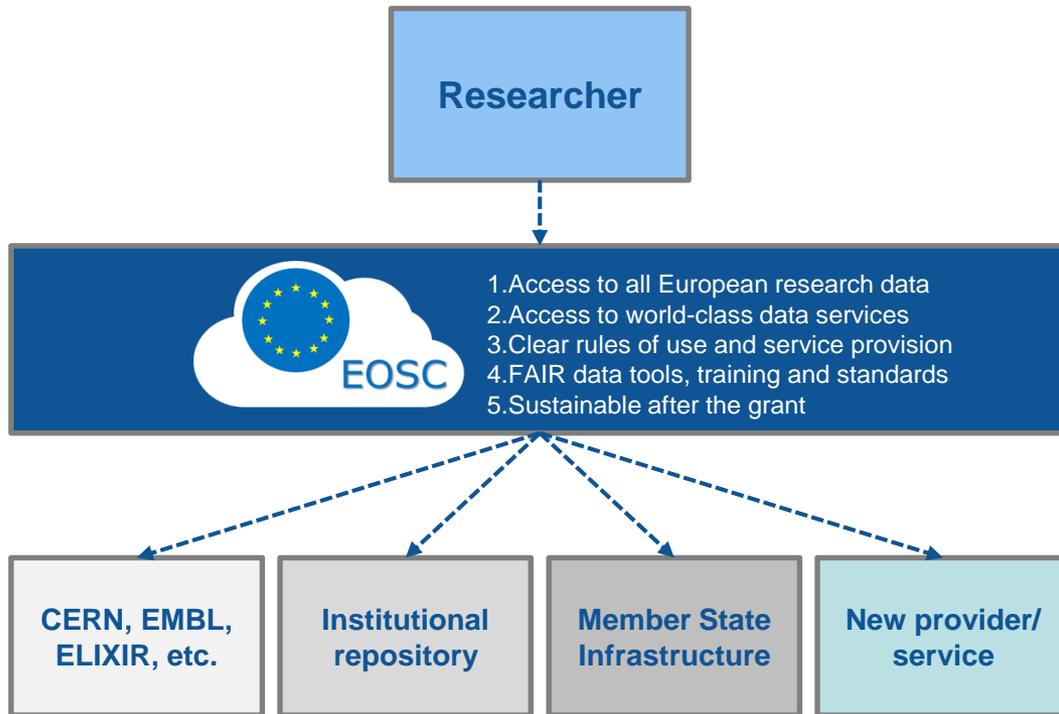
European researchers face data fragmentation and unequal access to quality information sets



- Fragmented access (across scientific domains, countries and governance models; varying access policies)
- Limited cross-disciplinary access to data sets (i.e. interdisciplinary research)
- Non-interoperable services and data
- Closed data

Limited and limiting access for an ordinary European researcher₂

The EOSC will allow for universal access to data and a new level playing field for EU researchers



- Easy access through a universal access point for ALL European researchers
- Cross-disciplinary access to data unleashes potential of interdisciplinary research
- Data funded with public money is in principle open (as open as possible, as closed as necessary)
- Services and data are interoperable (FAIR data)
- EOSC helps foster the spreading and uptake of open science practices

Seamless environment and enabling interdisciplinary research

Commitments on EOSC in April 2016 COM

Actions	Timeline	
The Commission will work with global policy and research partners to foster cooperation and to create a level playing field in scientific data sharing and data-driven science.	As of 2016	OECD, RDA, G7
The Commission will use the Horizon 2020 Work Programmes to provide funding to integrate and consolidate e-infrastructure platforms, to federate existing research infrastructures and scientific clouds and to support the development of cloud-based services for Open Science .	As of 2016	WP2018-20
The Commission will make open research data the default option, while ensuring opt-outs, for all new projects of the Horizon 2020 programme.	As of 2017	 01.01.2017
The Commission will review the 2012 Commission Recommendation on access to and preservation of scientific information ⁴¹ to encourage scientific data sharing and the creation of incentive schemes, rewards systems and education and training programmes for researchers and businesses to share data, in close relation with the DSM 'Free flow of data' initiative.	As of 2017	DSM data package April 2018
The Commission will work with Member States to connect the priority European research infrastructures ⁴² to the European Open Science Cloud.	As of 2017	WP2018-20
Together with stakeholders and relevant global initiatives, the Commission will work towards an Action Plan for scientific data interoperability , including 'meta-data', specifications and certification.	By end 2017	FAIR Action Plan

EOSC development timeline

April 2016

October 2016

January 2017

June 2017

July 2017

November 2017

December 2017

1st half 2018

[October] 2018

- **COM European Cloud Initiative**
- HLEG report Realising the European Open Science Cloud
- Start of EOSC Pilot
- **EOSC Summit**
- EOSC Declaration
- EOSC stakeholder engagement event (EOSC Pilot)
- **EOSC Implementation Roadmap**
- **INFRAEOSC call opened**
- Member States consultation
- **Set-up of EOSC governance framework**
- Start of EOSC Supporting Structure (INFRAEOSC-05)

Commitments on EOSC in April 2016 COM

In cooperation with Member States and stakeholders, the Commission will explore appropriate governance and financing mechanisms for the Open Science Cloud and the European Data Infrastructure and define an implementation Roadmap.

The 6 pillars of the EOSC model (based on the Summit)

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.
Data	FAIR data management and tools. A common data language to ensure data stewardship across borders/disciplines based on FAIR principles.
Rules	Rules of participation for different EOSC actors. An opportunity to comply with existing legal and technical frameworks and increase legal certainty & trust.
Architecture	Architecture of the federated infrastructures as the solution to the current fragmentation in research data infrastructures which are insufficiently interoperable.
Governance	Governance of the EOSC, a highly-visible political initiative aiming at ensuring EU leadership in data-driven science but requiring new governance frameworks.

State of play

- **Vision for the EOSC** (April 2016)
- **Exploratory phase** with Member States and Stakeholders (2016-17)
- Present the **EOSC federated model** and consult MS (Q1 2018)
- Notably, agree on the **governance framework** (Q1 2018)
- **Support the development** of EOSC components: INFRAEOSC (2018 onwards)
- Notably, support the agreed governance framework: INFRAEOSC-05