Realising the European Open Science Cloud

EOSC-Hub – FREYA – SSHOC joint event
16 Nov 2020

Liina Munari
Deputy Head of Unit
eInfrastructure and Science Cloud
DG CONNECT - European Commission

Where do we stand end 2020?

- **H2020 projects** coming to an end (incl. FREYA and EOSC-HUB), last H2020 projects to start (INFRAEOSC 03 and 07)

- HE WP preparations

  - Drafting of the **Strategic Research and Innovation Agenda** (SRIA) and accompanying **Multi-annual Roadmap** (MAR)

- Launch of the **EOSC Association**

  - **Closing the interim governance** following the first phase 2018-2020

- Finalising the work at the six EOSC <u>Executive Board Working Groups</u> and corresponding Task Forces:

  - **FAIR, Training and Skills, Rules of Participation, Sustainability, Architecture, and Landscape** Working Groups

European Commission

FAIR Working Group - progress

- Chaired by Sarah Jones & Françoise Genova

- The WG addresses the mainstreaming of FAIR+R data and services through 4 Task Forces

  - TF1: **FAIR practice**. New report ready with practical recommendations addressing how to incentivise communities

  - TF2: **PID policy** (shared with ArchWG) on context, principles, roles & responsibilities, etc. finalised, over 2300 downloads.

  - TF3: **Metrics & Certification**. Work mostly on metrics, builds on work from RDA (e.g. FAIR Data Maturity Model) & FAIRsFAIR); contributes to development of adequate evaluation frameworks for FAIR

  - TF4: **Interoperability** (shared with ArchWG, particularly on technical interoperability), report with recommendations on legal, semantic, organisational interoperability.

European Commission

H2020 EOSC legacy projects

Last H2020 projects to start
- H2020-INFRAEOSC-2020-2

- INFRAEOSC-07: Increasing the service offer of the EOSC Portal (24 mio):

  - **EGI-ACE** (a1: Distributed and cloud computing resources)

  - **DICE** (a2: Data services)

  - **OpenAIRE Nexus** (a3: Services supporting scholarly communication and open access)

  - **C-SCALE & RELIANCE** (a6: Additional research enabling services)

- INFRAEOSC-03: Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal (40 mio)

  - **EOSC FUTURE**

European Commission

Horizon Europe – Pillar 1 WP 2021-2022

- **Destination #1:** Developing, consolidating and optimising European Research Infrastructures to maintain global leadership

- **Destination #2:** Enabling an operational, open and FAIR EOSC ecosystem

- **Destination #3:** RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge

- **Destination #4:** Next generation of scientific instruments, tools and methods and advanced digital solutions

- **Destination #5:** Network connectivity – Enabling collaboration without boundaries

European Commission

HE WP 2021-2022 – Topics overview

SRIA objectives	Destination #2 Enabling an operational, open and FAIR EOSC ecosystem	Type of action
Open science practices and skills are rewarded and taught, becoming the 'new normal'	**Supporting an EOSC-ready digitally skilled workforce**	CSA
	Supporting the development and coordination of activities of the EOSC Partnership	CSA
	Services and tools to underpin a research assessment system that incentivises open science practices	RIA
	Improving & coordinating technical infrastructure for institutional OA publishing across Europe	RIA
Sustainable and federated infrastructures enable open sharing of scientific results	**Deploying EOSC-Core components for FAIR**	RIA
	Other actions not subject to calls for proposals: Delivering the EOSC-core infrastructure and services	Procur.
	Innovative and customisable services for EOSC	RIA
Standards, tools and services allow researchers to find, access reuse and combine results	**Enabling discovery and interoperability of federated research objects across scientific communities**	CSA
	FAIR & open data in support of European preparedness for infectious diseases	RIA
	FAIR & open data in support of "Mission Conquering Cancer: Mission Possible"	RIA
	FAIR & open data in support of "Mission Starfish 2030: Restore our Ocean and Waters"	RIA
	Support for initiatives helping to generate global standards, specifications and recommendations for open sharing of FAIR data, publications & software	CSA

Key Commission Strategies

Digital Strategy

Industrial Policy Strategy

European Green Deal

EuroHPC Strategy

Data Strategy

European Commission

Data Strategy
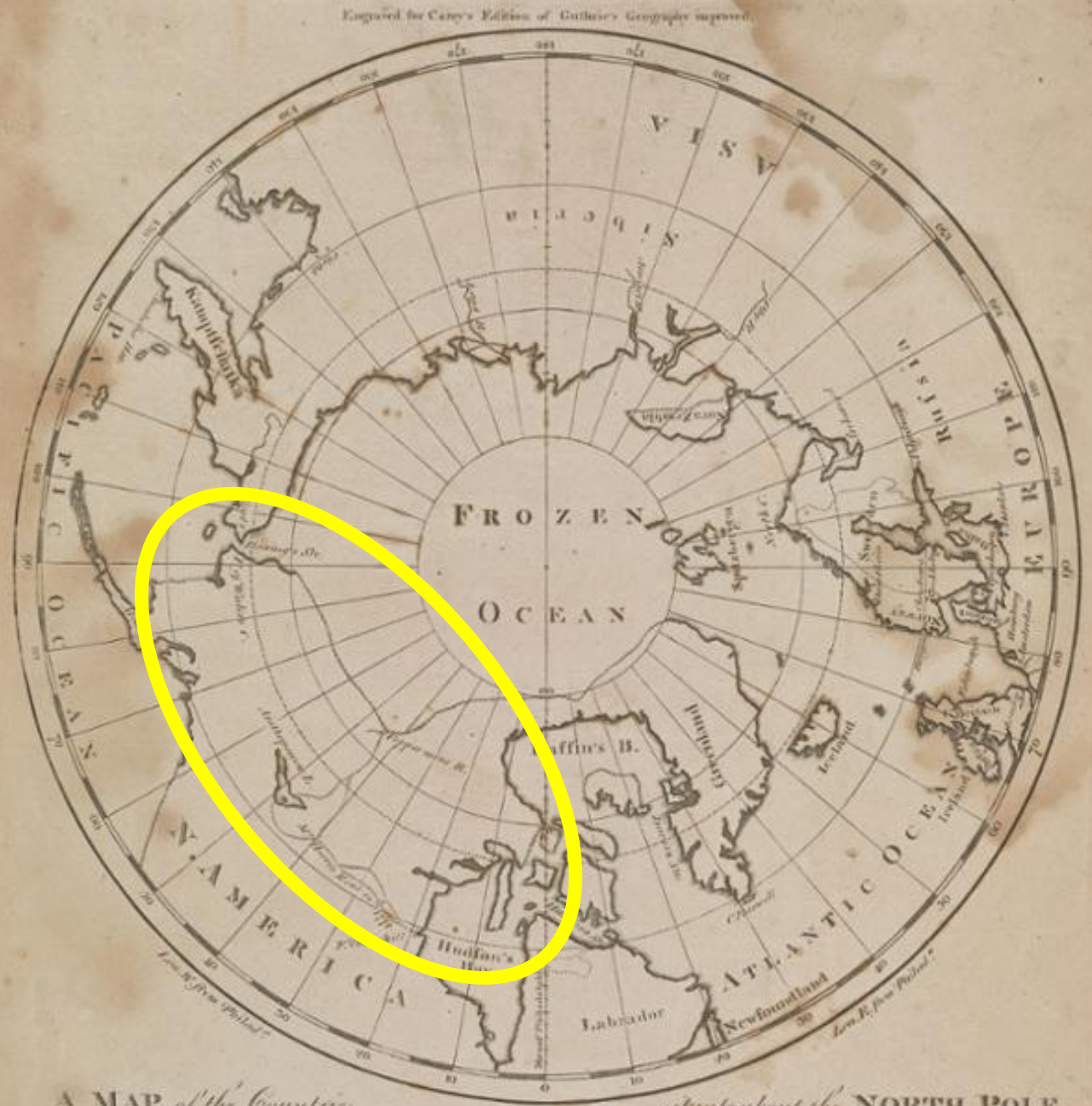
Single market for data where:

- data can flow within the EU and across sectors, for the benefit of all

- European rules, in particular privacy and data protection, as well as competition law, are fully respected

- the rules for access and use of data are fair, practical and clear

Creation of common European data spaces, covering also data processing, computing and interconnection of existing computing capacities at national and European level (incl. HPC)

A cross-sectoral governance framework for data access and use (Incl FAIR principles)

European Commission

Next stop Destination Earth?

- The objective of the Destination Earth initiative is to develop a very high precision digital model of the Earth to monitor and simulate natural and human activity

- Green Deal and Digital Strategy, by opening up access to public datasets across Europe, it will also represent a key component of the European Strategy for Data.

- It will unlock the potential of digital modelling of the Earth's physical resources and related phenomena (core platform, digital twins, services)

- **NB: DestinE Digital Twins are not only replicas of physical systems but fully extend towards socioeconomic ones**

- **Close "all" white spots**
- **Visualize borders of ignorance**

Thank you

European Commission