European Open Science Cloud

sharing and re-using research data in agriculture, food and nutrition

Wim HAENTJENS

Unit 'Agri-food chain'

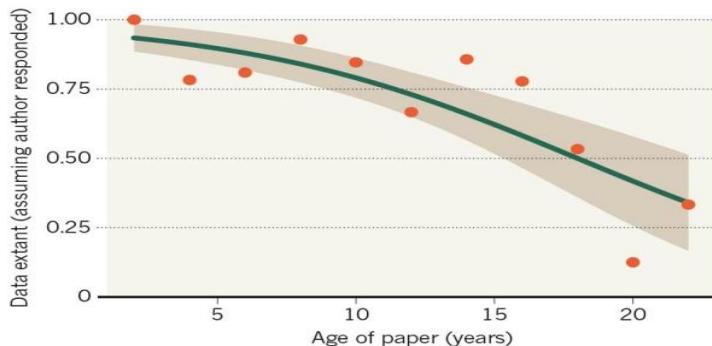DG Research & Innovation

A transition to data-rich research

Data loss is real & significant

MISSING DATA
As research articles age, the odds of their raw data being extant drop dramatically.

Nature news, 19 December 2013

... while data growth is staggering
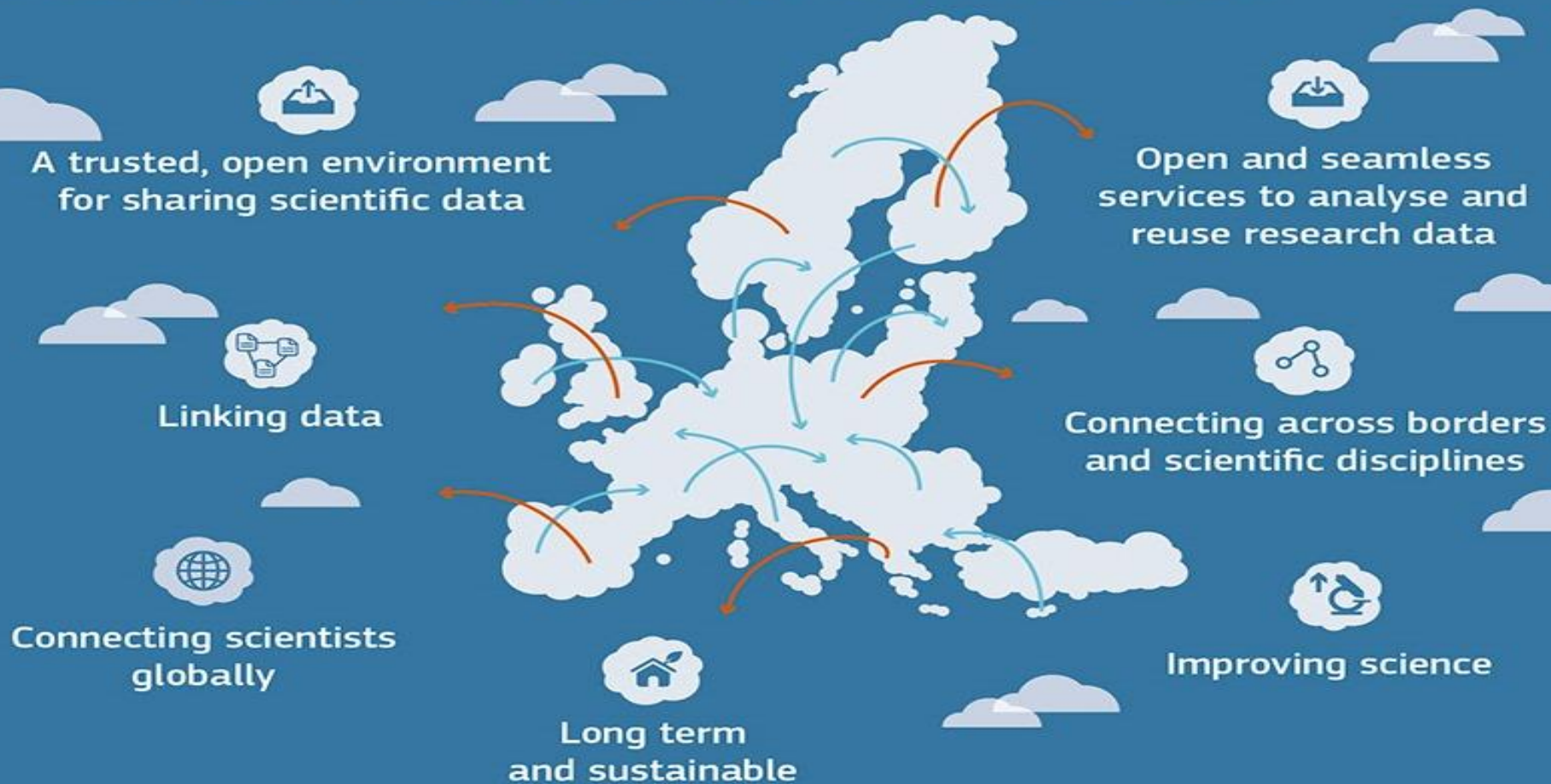
- DNA sequence data *doubled every 6 months (last 3 years)*

- Computer speed and storage capacity : *doubling every 18 months*

Based on "First report of the High Level Expert Group on the European Open Science Cloud"(October 2016)

EUROPEAN OPEN SCIENCE CLOUD

BRINGING TOGETHER CURRENT AND FUTURE DATA INFRASTRUCTURES

A trusted, open environment for sharing scientific data

Open and seamless services to analyse and reuse research data

Linking data

Connecting across borders and scientific disciplines

Connecting scientists globally

Improving science

Long term and sustainable

EOSC – Past & ongoing actions

EC Communication 'European Cloud Initiative' (2016/178)

Support from Council, EP, COR, EESC (2016/2017)

Horizon 2020 open data policy (2017)

1st EOSC Summit (June 2017)

EOSC Declaration (Oct 2017) – Action list

EOSC – the way forward

Investment/ Horizon 2020 calls (2018-2020)

EOSC Stakeholders Forum (28-29 Nov 2017, Brussels)

EOSC Roadmap (end 2017/ start 2018)
- **Governance structure** , incl. mandate & selection procedure for Executive Board
- Broad (federated) architecture, incl. EOSC core services
- Financing

WP 2018-2020: Call INFRAEOSC

Topic 1: Access to commercial services through the EOSC hub **(2018)**

Topic 2: Prototyping new services **(2019)**

Topic 3: *Integration & consolidation of pan-European access mechanisms to public e-infrastructures & commercial services through the EOSC hub* *(2020)*

Topic 4: Connecting ESFRI RI through Cluster projects **(2018)**

Topic 5: Support to the EOSC governance **(2018-2019)**

Topic 6: Enhancing the EOSC portal *and connecting thematic clouds* **(2019-*2020*)**

FOOD CLOUD: Thematic cloud for agri, food and nutrition

- Support the implementation of EOSC in the thematic fields of agriculture, food and nutrition

- Take into account specific needs/opportunities in these thematic fields

=> **10 M€ investment under Horizon 2020/Societal Challenge 2 (2019)**

(DT-SFS-26-2019: Food Cloud Demonstrators)

Build **Food Cloud demonstrators** that:
- increase data findability, accessibility, interoperability, and reusability,
- improve the services provided to research communities
- facilitate re-use of data by a wider user community

Focus on **use cases** that address **researchers' needs** and FOOD 2030 priorities;

Ensure **LT sustainability of demonstrators**

SUMMARY

European Open Science Cloud / EOSC

- **Research data commons, inclusive, sustainable**
- **Federating existing and emerging initiatives**
- **Commission convenes, invests, guides process**

Food Cloud

- **Thematic EOSC/ agri, food and nutrition**
- **Respond to researchers' needs**

Thank You

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