

European Universities & the European Open Science Cloud

Augusto BURGUEÑO ARJONA
Head of Unit
CNECT C1 – eInfrastructure and Science Cloud

So far ...

EU-funded eInfrastructures landscape

(The foundation of the European Open Science Cloud)



www.openaire.eu



www.opendreamkit.org



www.openminted.eu



www.phenomenal-h2020.eu



www.aarc-project.eu



www.bluebridge-vres.eu



www.earthserver.eu



www.edison-project.eu



www.prace-ri.eu



www.rd-alliance.org



read.transkribus.eu



www.sesametwork.eu



ges.eu/engage



www.e-irg.eu



www.eudat.eu



www.everest-eu.eu



www.thor-project.eu



www.vi-seem.eu



www.vre4eic.eu



www.west-life.eu



www.geant-project.eu



www.indigo-project.eu



www.learn-project.eu

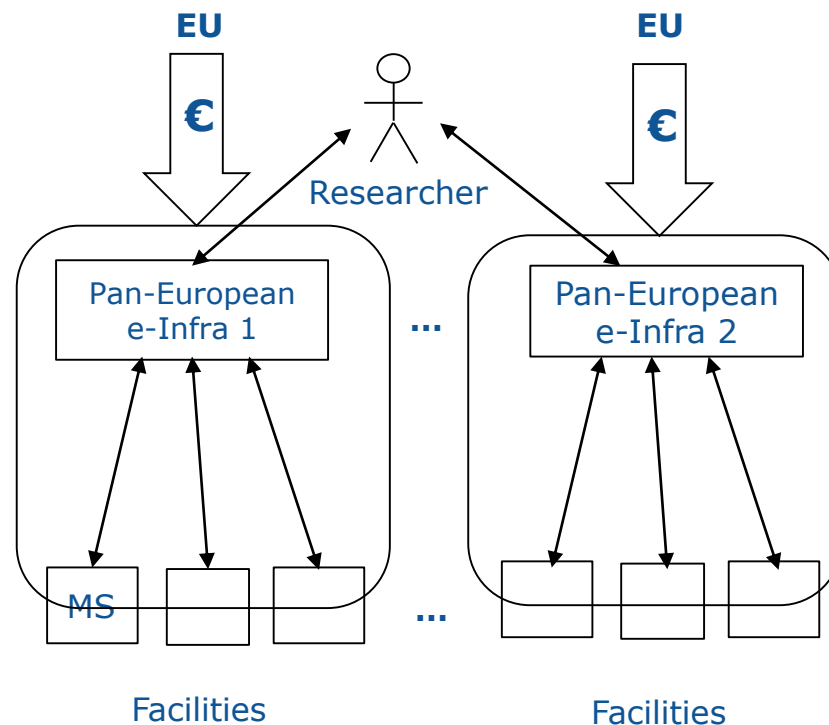


www.mug-project.eu

EU-funded eInfrastructures are just one part of the whole picture

- *Other EU-funded research infrastructures – thematically oriented*
 - **ESFRI projects**
 - **Integrating activities**
 - **Starting and advanced communities**
- *National, regional, local and institutional research infrastructures and eInfrastructures*

Unique value of **EU-funded eInfrastructures**: pan-European access provision to national, regional, local and institutional facilities



But ...

**Research in an increasing
number of disciplines is
becoming data-driven and
computing-intensive**

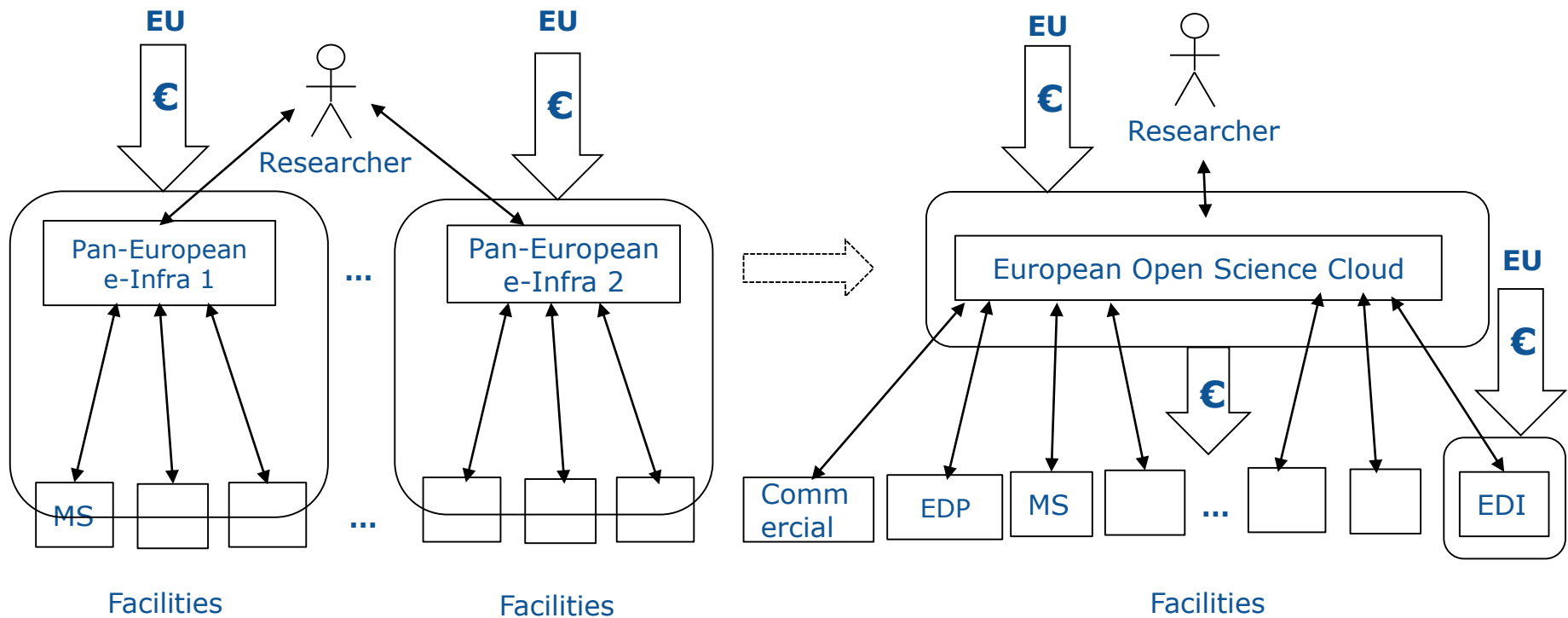
Why Europe is not yet fully tapping into the potential of data?

- *Data coming from publicly funded research is not always **open** due to lack of clear incentives*
- *Lack of general framework for the **reuse** of data*
- *Lack of data **interoperability***
- ***Fragmentation** of data infrastructures (geographic, thematic, technological, governance)*
- *Offer does not match demand in world-class High Performance Computing (**HPC**) infrastructures*

The European Cloud Initiative

- *European Open Science Cloud (EOSC)*
 - **Integration and consolidation of e-infrastructures**
 - **Federation of existing research infrastructures and scientific clouds**
 - **Development of cloud-based services for Open Science**
 - **Connection of ESFRIs to the EOSC**
- *European Data Infrastructure (EDI)*
 - **Development and deployment of large-scale European HPC, data and network infrastructure**
- *Widening access*
 - **SMEs, Industry at large, Government**

Users, suppliers and access channels



TODAY

FUTURE