



**CS³
MESH⁴
EOSC**

Connecting European Data



Science Mesh core applications

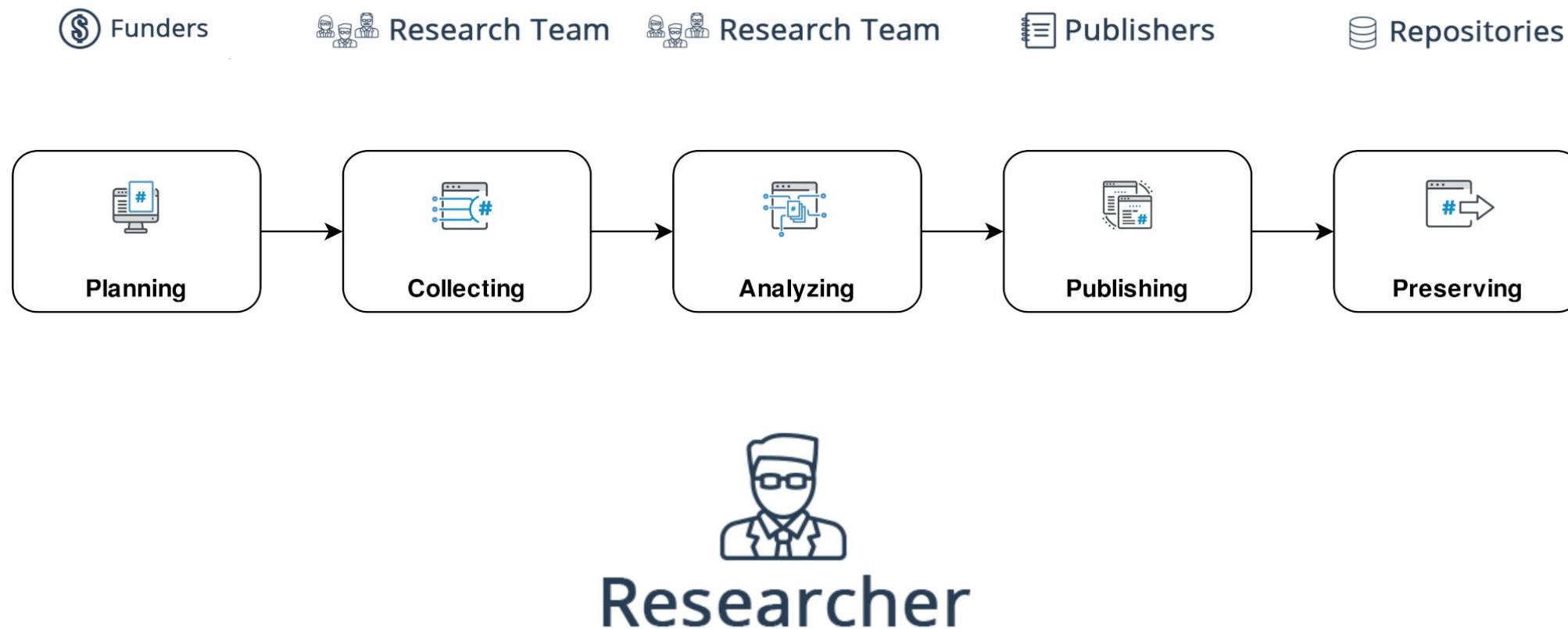
Introduction to applications and use-cases presentations

Maciej Brzeźniak (PSNC)

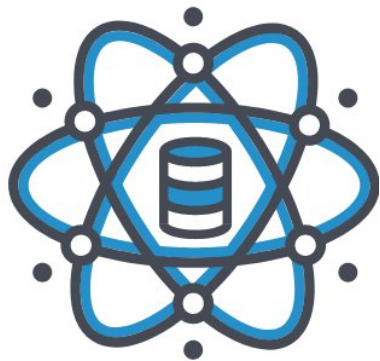


CS3MESH4EOSC has received funding from the European Union's Horizon 2020 Research and Innovation programme under **Grant Agreement No. 863353**.

ADDRESSING THE FULL RESEARCH DATA FLOW (researchers's view):



ADDRESSING THE **FULL RESEARCH DATA FLOW** (project's response):



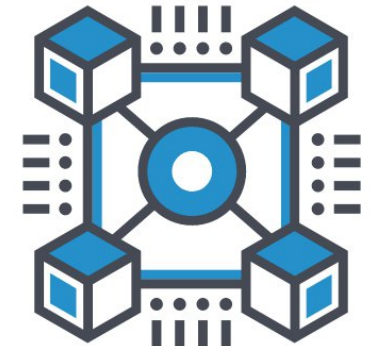
Data Science
Environments



On-demand
data transfers



Collaborative
Documents



Open Data
Systems

More: <https://cs3mesh4eosc.eu/data-services>

ADDRESSING THE FULL RESEARCH DATA FLOW (project's view):

Data Science Environments

Data Science applications enable sharing notebooks, edit them collaboratively, using common federated storage backend (EFSS); notebooks can be run on the datasets in EFSS;

On-demand data transfers

Fast transfer of data from remote to local sites EFSS sites, supporting use-cases not able to extend processing to remote sites (data locality)

Collaborative Documents

Sharing and editing documents in real-time; many types of material: office-like documents, markup-based content, simple text, notes, codes, graphics.

Open Data Systems

Datasets preparation for open access and re-use. Annotation and packaging, deposit to repository from within the EFSS interface and/or research data management system.

More: <https://cs3mesh4eosc.eu/data-services>

 Funders

 Research Team

 Research Team

 Publishers

 Repositories



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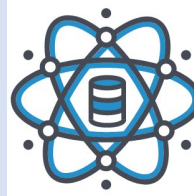
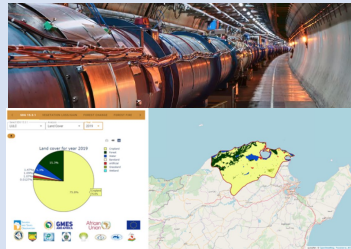
On-demand
data transfers

Data science environments:

High Energy Physics (HEP) – CERN
Earth Observation (EO) - JRC

**Marcin Sieprawski - head of Big Data Lab
@Ailleron/Softwaremind:**

- *High Energy Physics - analysing data streams from particle detector*
- *JRC - supporting decision-making in sustainable management of natural resources*



On-demand data transfer:

LOFAR (RadioAstronomy) – Astron et al.)

**Ron Trompert - leader of the
online data service group @SARA:**

- *LOFAR - Low Frequency Array*

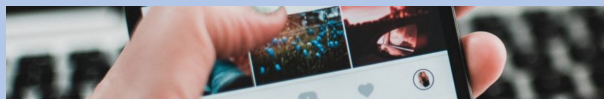


Collaborative environments:

Social Media Research – RISE_SMA

**Holger Angenent -
@WWU - University of Munster:**

- *Social Media Analytics and Crisis communication*

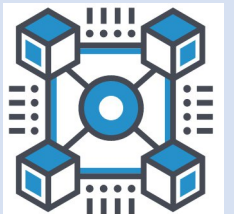


Open Data systems:

Humanities - PARADISEC, endangered languages

**Guido Aben - director of
eInfrastructure partnerships @AARNet:**

- *PARADISEC - guarantee long-term usefulness thanks to metadata*





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Thank you!
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