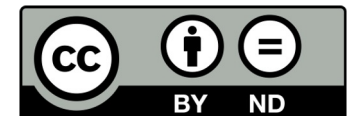


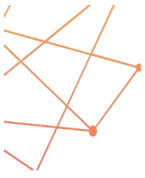
From discovery to execution: the execution framework of the EOSC platform

## Bundles and Workflow support in the EOSC Platform

Roksana Wilk (ACC Cyfronet AGH)

The EOSC Future project is co-funded by the European Union Horizon Programme call INFRAEOSC-03-2020, Grant Agreement 101017536





# Intro about the importance of the interoperability from the user standpoint



Computing



Data

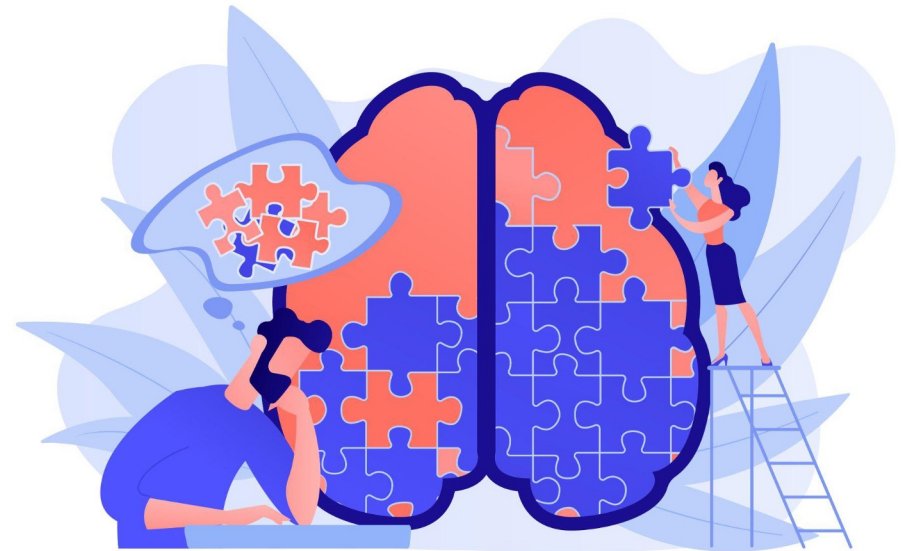


Storage



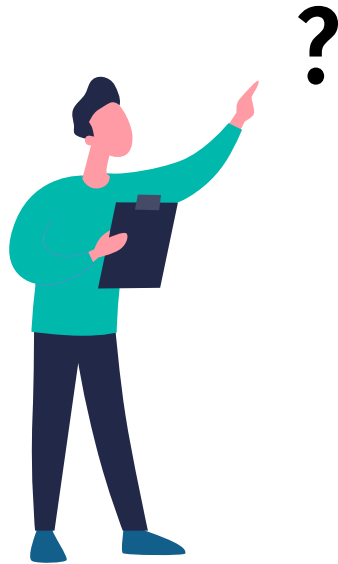
Analytic tool

Researcher needs to have a consistent environment to be effective and efficient





# Intro about the importance of the interoperability from the user standpoint



The researcher has knowledge of the research topic, but **does not have the tools needed to carry out the project effectively and doesn't have expert knowledge about possible options**



EOSC provides various types of research resources, such as data, software, publications, datasets.

**But what should a researcher select?**

**And which tools are compatible with each other?**



# Intro about the importance of the interoperability from the user standpoint



Our experts not only help researchers to find the needed solutions



But we are creating Offer Bundles which are combining two or more complimentary offers what makes actions faster

**Researchers can focus on their work with technical support tailored to their needs with the complementary resources which are BOOSTING the efficiency of each**



# Bundles - "tight" integrations to support you use case

Data Management

Publish Research

Get Bundle

[Open Access](#)

## Automate the writing and publication of DMPs

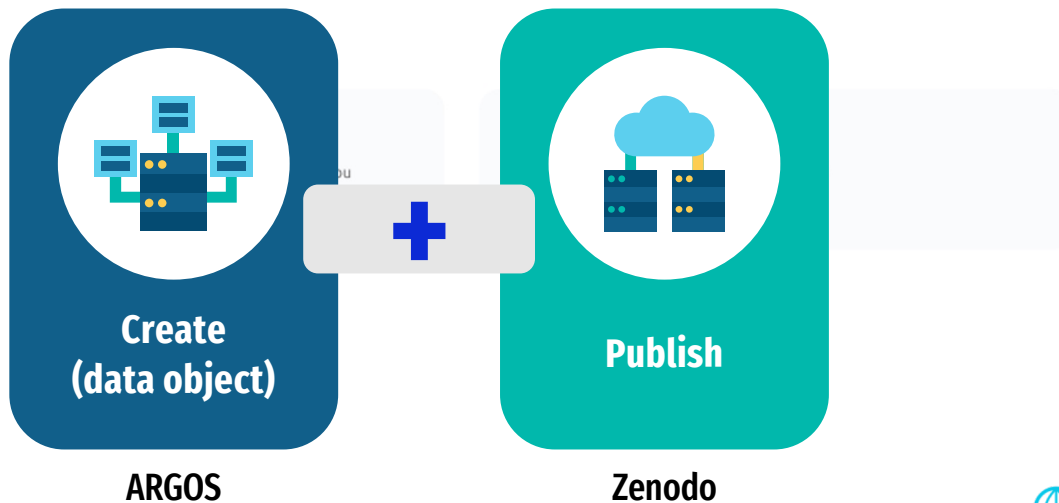
ARGOS + Zenodo

Ease the writing and publishing of DMPs by automations introduced by ARGOS

Document your dataset or software only once, i.e. in the repository when depositing/archiving and in ARGOS, when creating the DMP. Instead, from the ARGOS environment, you can search Zenodo, find the dataset or software you want to re-use or update their DMP about (new data created and shared during the project) and automatically prefill the sections of the DMP where this information is expected, e.g. license, doi, etc.

Deposit your DMPs and make them FAIR automatically once it's completed. The DMPs are sent to Zenodo and a DOI is attached to the DMP. The DMP carries links with publications, data and software.

Additionally it offers  
Amount of RAM 1 - 4 GB  
Number of cores 1 - 4  
Persistent storage



Show more



# Bundles - and wait for its arrival

MY PROJECTS

My scientific project1  
**My scientific project2**

Create new project

## EGI Notebook

[< back to My scientific project2 project resources](#)

BUNDLE **NEW**

DETAILS ORDER HISTORY CONTACT WITH RESOURCE PROVIDER

Resource name: **EGI Notebook**

Resource offer: **EGI Notebook + B2DROP**

Order date: **11.10.2022**

Resource access: **Order Required**

Project name: **My scientific project2**

Resource Organisation: **EGI Foundation**

Resource Providers: **CESNET**

### PARAMETERS

Amount of RAM	1 GB
Number of cores	2
Persistent storage	10 GB

This resource was ordered with resources below (Bundle):

B2DROP **NEW**



# Bundles - "tight" integrations to support you use case

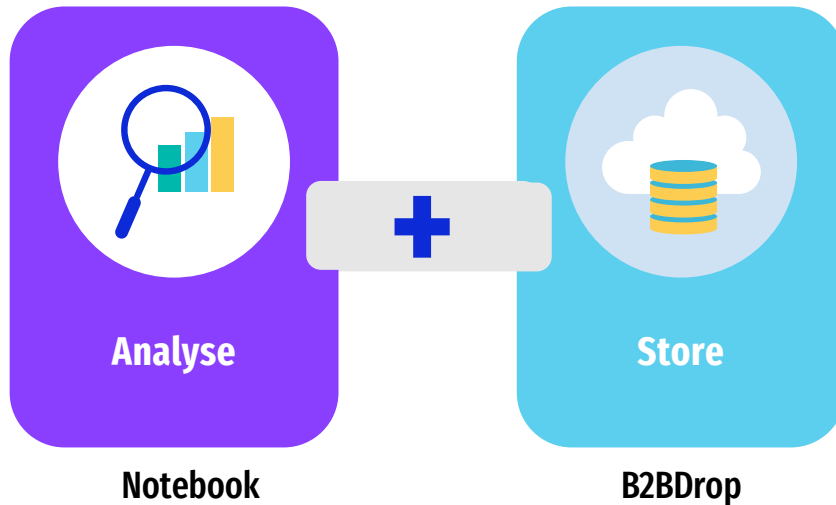
## EGI Notebook + B2DROP

This offer bundle consist of EGI Notebook for researchers and B2DROP for researchers

[Read technical parameters](#) ▼



Select a bundle





# Bundles - a “small” integrations to support you use case

Data Management Publish Research [Get Bundle](#)  
[Open Access](#)

## Automate the writing and publication of DMPs

ARGOS + Zenodo

Ease the writing and publishing of DMPs by automations introduced by ARGOS

Document your dataset or software only once, i.e. in the repository when depositing/archiving and in ARGOS, when creating the DMP. Instead, from the ARGOS environment, you can search Zenodo, find the dataset or software you want to re-use or update their DMP about (new data created and shared during the project) and automatically prefill the sections of the DMP where this information is expected, e.g. license, doi, etc.


Deposit your DMPs and make them FAIR automatically once it's completed. The DMPs are sent to Zenodo and a DOI is attached to the DMP. The DMP carries links with publications, data and software.

TECHNICAL PARAMETERS  
Amount of RAM 1 - 4 GB  
Number of cores 1 - 4  
Persistent storage

[Hide details](#) ^

PACKAGE INCLUDES

**Zenodo** The Basic B2DROP Service Has A Per User Quota Limit Of 20GB. Researchers Which Have A Need For Higher Quota's, Higher Storage Capacity, Specific Requirements And/Or (Nextcloud) Applications Enabled Can Request This Via The B2DROP Premium Service.








# Bundles - get them together with one click

**EGI Notebook + B2DROP**

This offer bundle consist of EGI Notebook for researchers and B2DROP for researchers

[Read technical parameters](#) ▾

Select a bundle

 **EGI Notebook + B2DROP**  
Provided by EGI Notebook

**Parameters**

**AMOUNT OF RAM**

1 GB  
 2 GB  
 4 GB

Please choose amount of RAM

**NUMBER OF CORES**

1  
 2  
 4

Choose number of cores


**PERSISTENT STORAGE**

1 GB  
 10 GB  
 20 GB

Choose amount of storage

**Bundle configuration**

Your resource will be configured to work with following resources:

 **For Researchers - Premium**  
Provided by B2DROP

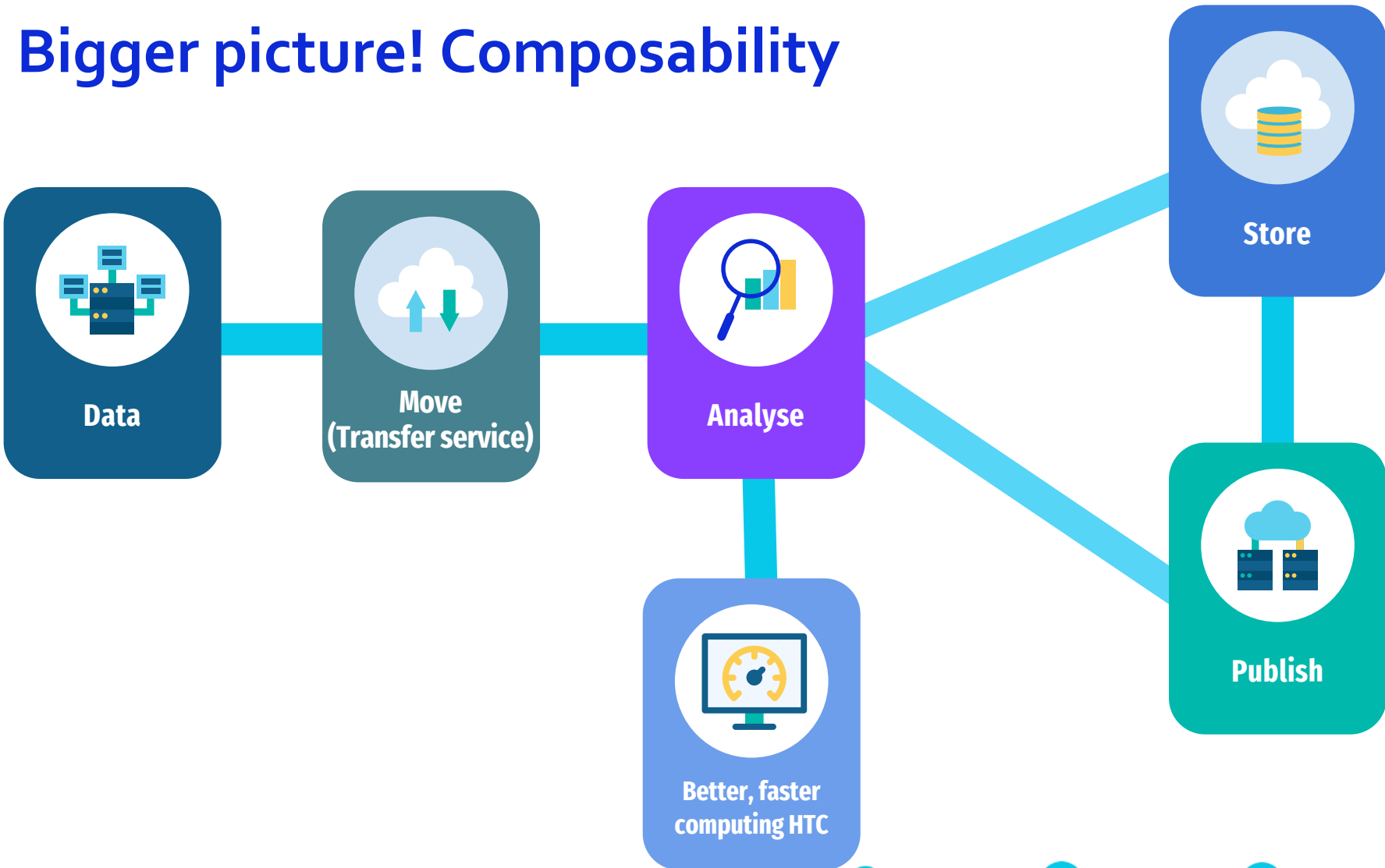
**REQUEST QUOTA CAPACITY**

100 GB  
 200 GB  
 500 GB  
 1000 GB  
 2000 GB

Please choose quota

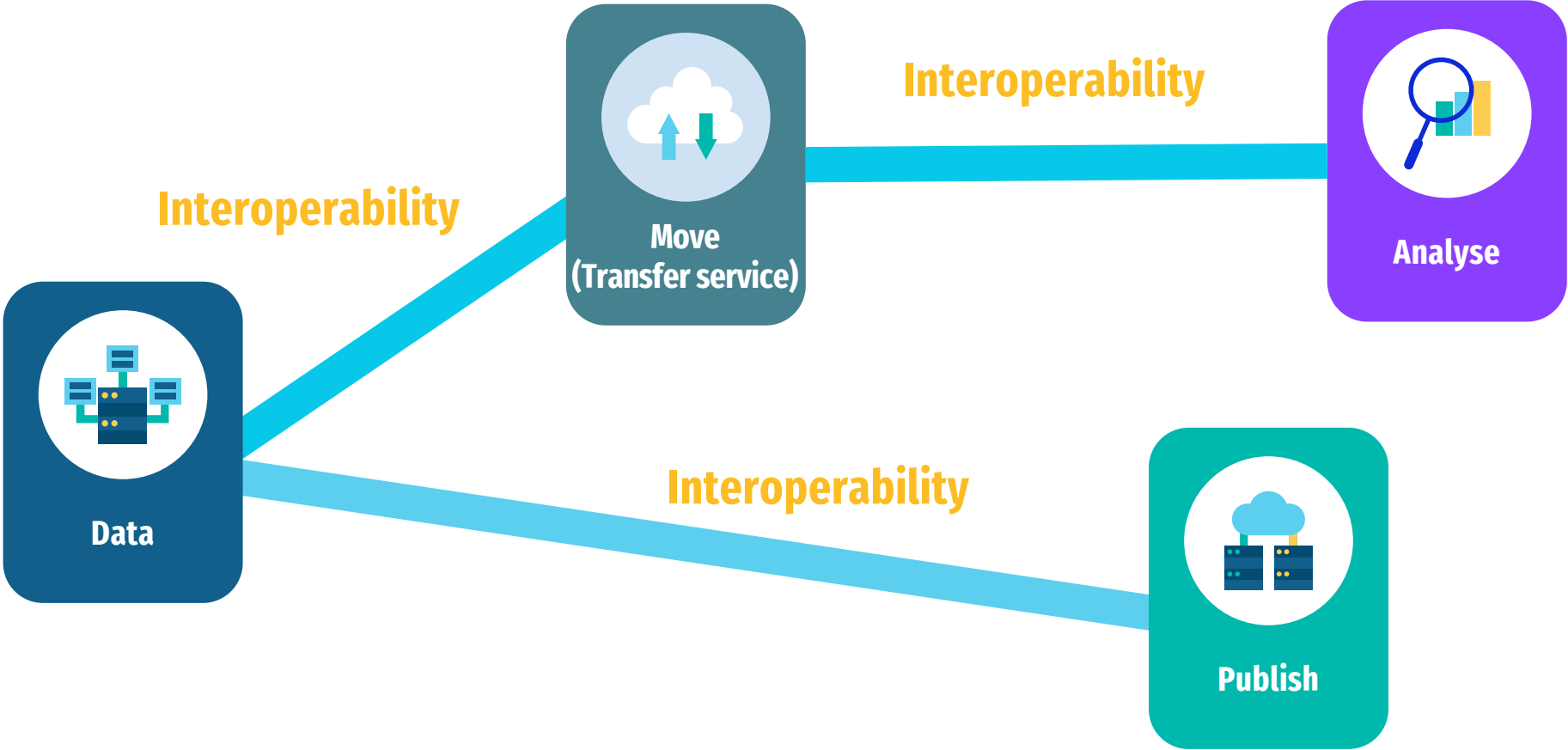


# Bigger picture! Composability





# Less complicated (general) composability





# Different possibilities of connections, refer to researchers research activities from

## → PROCESSING

- a) Capabilities needed: transfer, compute (possibly external)  
**processing tool**, storage (possibly external)
- b) What matters for this goal:  
For storage:
  - i) Size of the dataset
  - ii) Time of retention

## → PUBLISHING YOUR DATASET

- b) Capabilities needed: **publishing service**
- c) What matters for this goal:
  - ii) Size of the dataset
  - iii) DOI
  - iv) free/not free
  - v) Domain
  - vi) Security (anonymise personal data/licence)

## → DATA MANAGEMENT

## → ANONYMISATION

## → MOVE/STORAGE YOUR (BIG) DATA

(place where I can keep my data to use it during my processing)  
Capabilities needed: transfer, **storage**

## → USE EFFICIENT COMPUTING RESOURCES

Capabilities needed: **computing**, storage (possibly external)

## → DISCOVER/RE-USE DATA

## → MAKE YOUR REPOSITORY FINDABLE IN OPEN SCIENCE

Capabilities needed: **data sources**

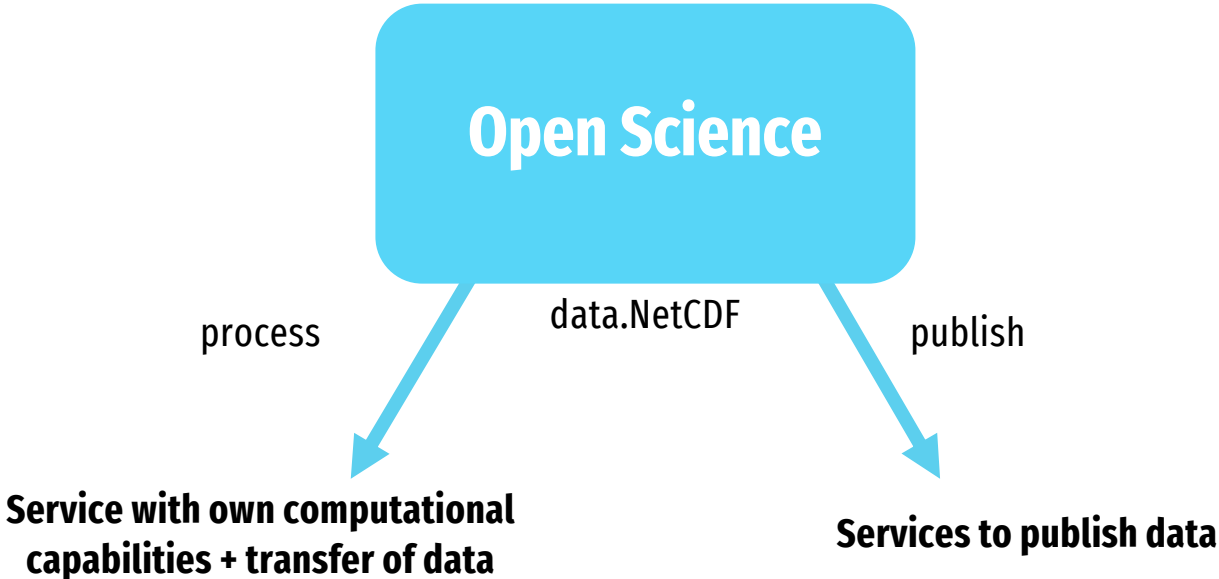
What matters for this goal:

- iii) Connecting of metadata?

## → PRODUCE DATA (physical instruments)



# Less complicated (general) composability

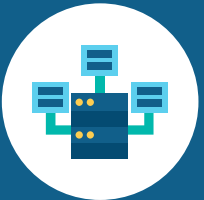


- Service
1. Transfer capabilities
  2. Process
  3. Compute

- Size of accepted dataset
- Existence of DOI
- Free / Not free
- Domain
- Security
- Time span




# Basic bricks in MP projects (types)



**Data**




**Move**  
(Transfer service)




**Analyse**



**Publish**

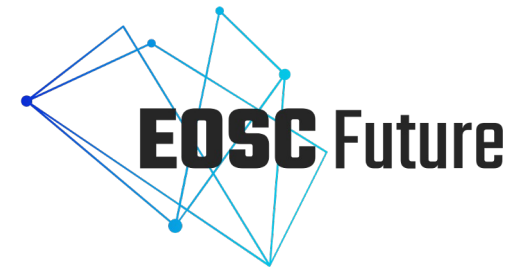
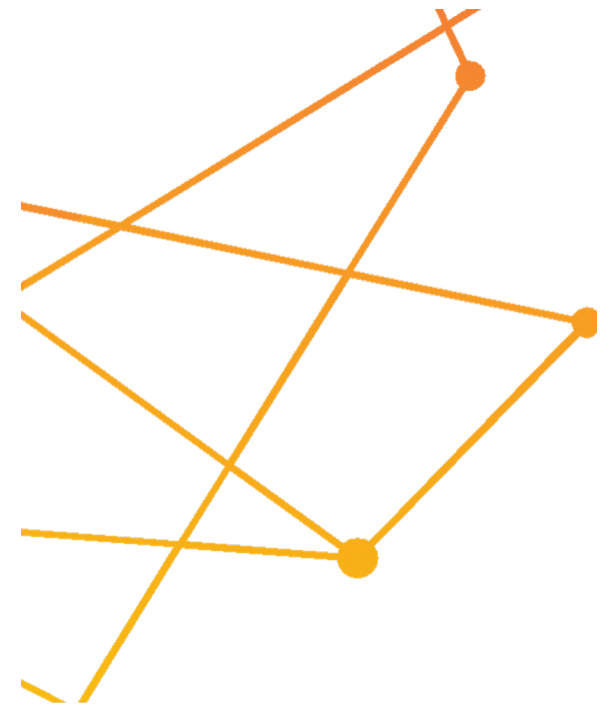


**Store**



**Compute**  
(for extensive analysis)

**+** Add new type (publications, software, anonymisation ...)



**Thank you for your attention!**