

INTRODUCTION TO FAIR

EUREF - 27.05.2021

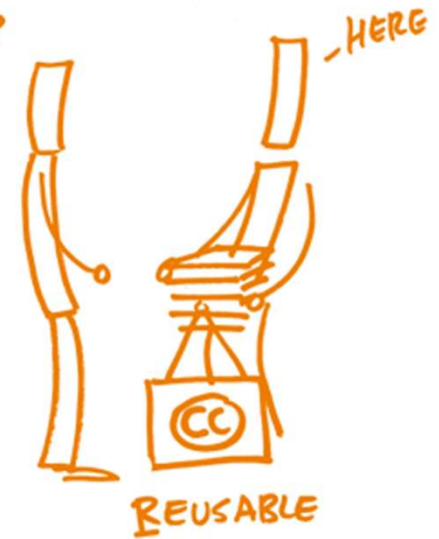
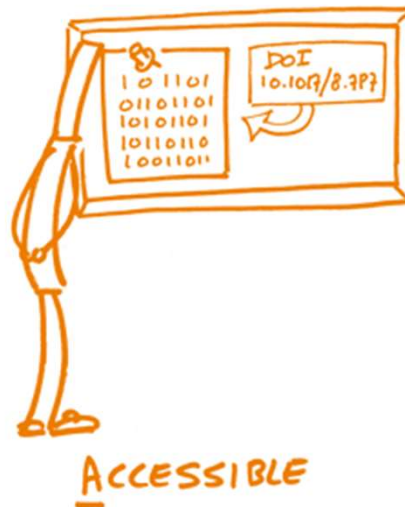
UGent Data Stewards - Stefanie De Bodt

FAIR DATA

FAIR DATA PRINCIPLES

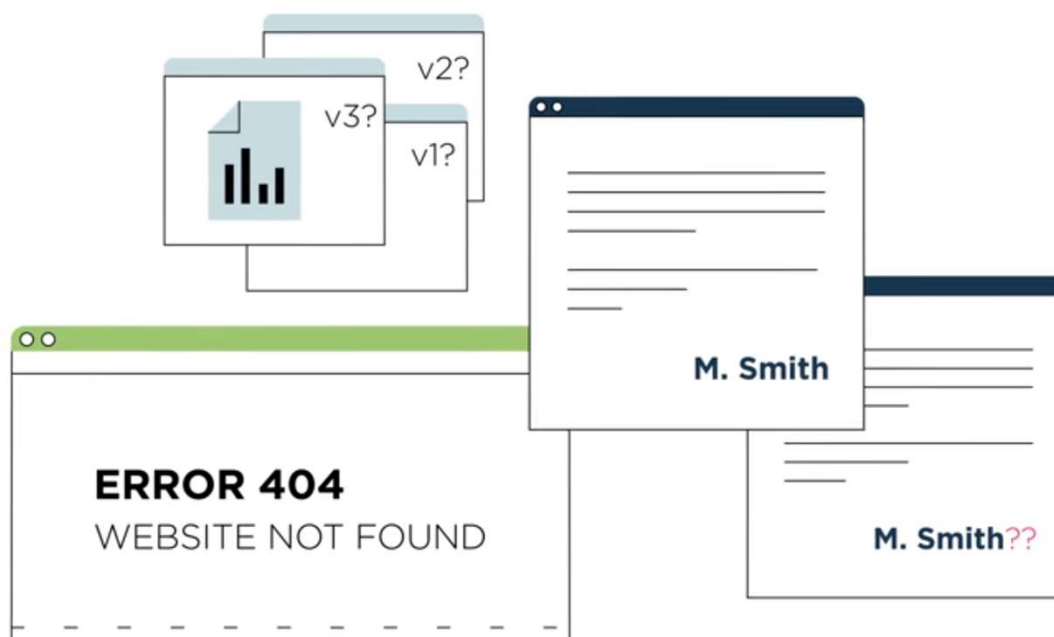


<https://book.fosteropenscience.eu/>



COMMON FINDABILITY ISSUES

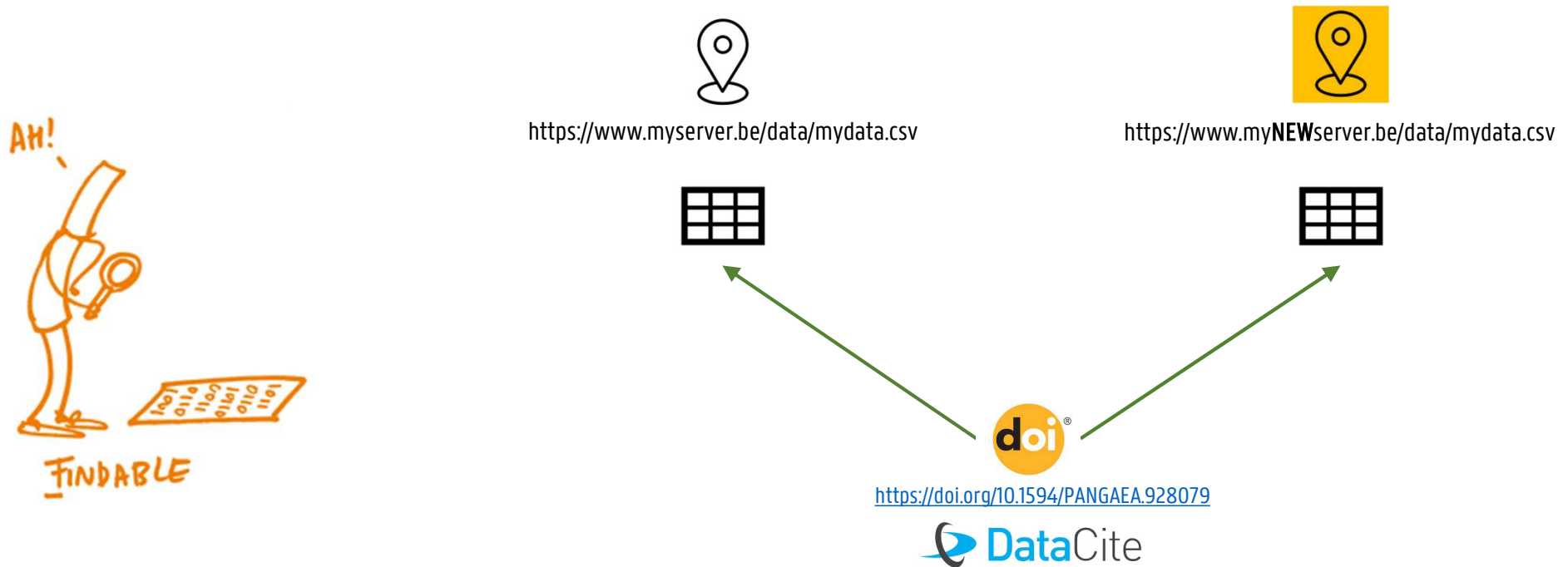
BROKEN LINKS, CONFUSING ABOUT VERSIONS AND TERMS



SOLUTION: ASSIGN A GLOBALLY UNIQUE AND PERSISTENT IDENTIFIER (PID)

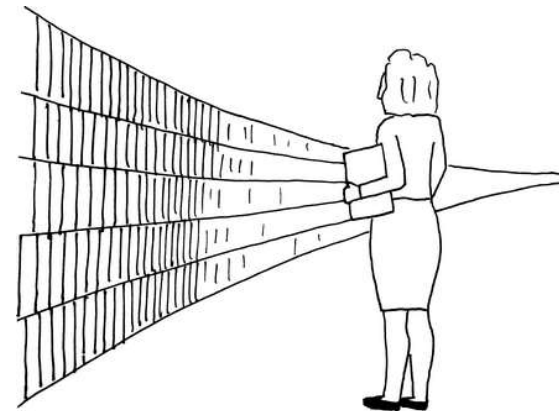
Globally unique: an unambiguous reference for humans or machines, an identifier associated with only one resource at any time

Persistent: stable and resolvable identifier for the long term



COMMON FINDABILITY ISSUES

FIND THE NEEDLE IN THE HAYSTACK



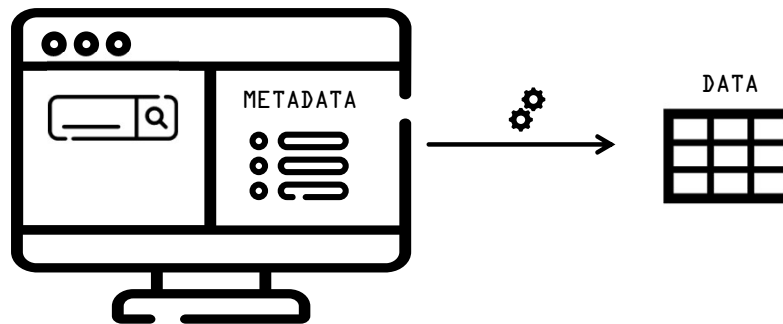
WE SHOULD HAVE LABELED THEM

 Dataædo /cartoon

Prof. © Dataædo

SOLUTION: DESCRIBE DATA WITH RICH METADATA

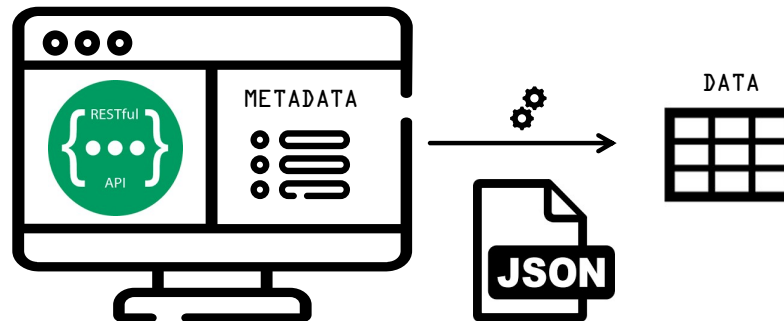
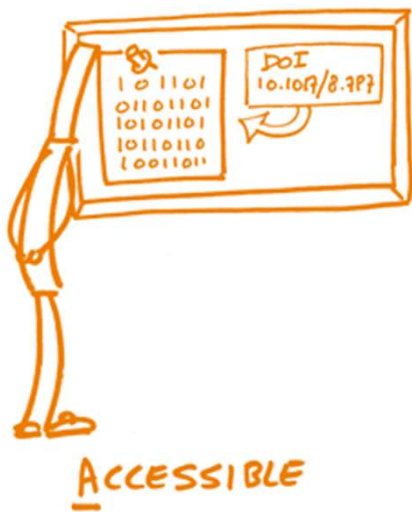
Metadata: data about data, a machine-readable and structured form of documentation



STANDARD COMMUNICATIONS PROTOCOL TO RETRIEVE (META)DATA

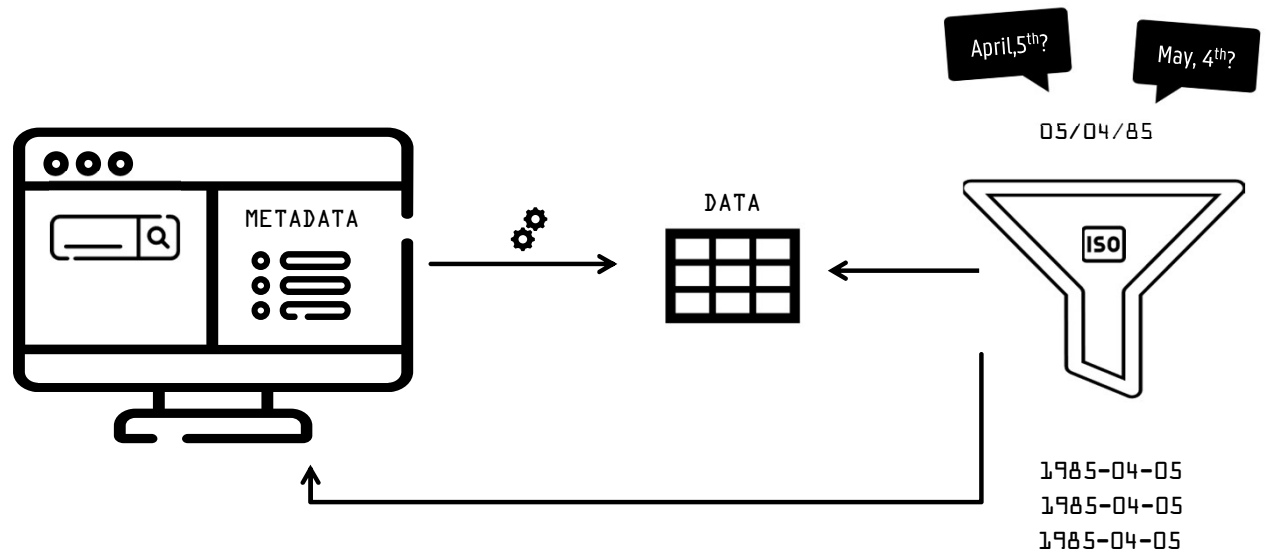
Communications protocol: describing how (which rules, syntax, etc) to transmit the data. e.g. HTTPS, FTP

APIs (Application Programming Interface): a set of functions and procedures to allow applications to access repository data



STANDARDS FOR (META)DATA

Metadata schema or standard: a community consensus on the relevant metadata for a specific purpose or domain
Controlled vocabularies, taxonomies or ontologies:



LICENSE AS METADATA

License: grants permission for data re-use under certain conditions

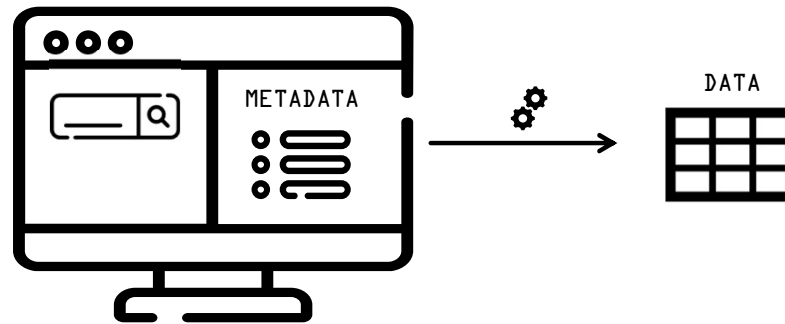
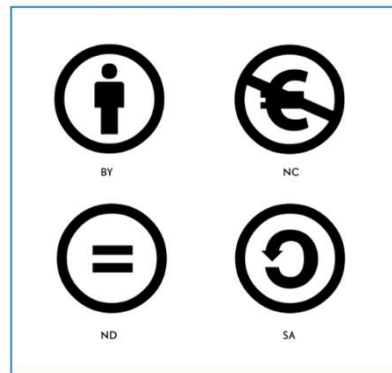


FIGURE 1: PICTOGRAMS OF THE CC LICENSE FEATURE



TOWARDS...

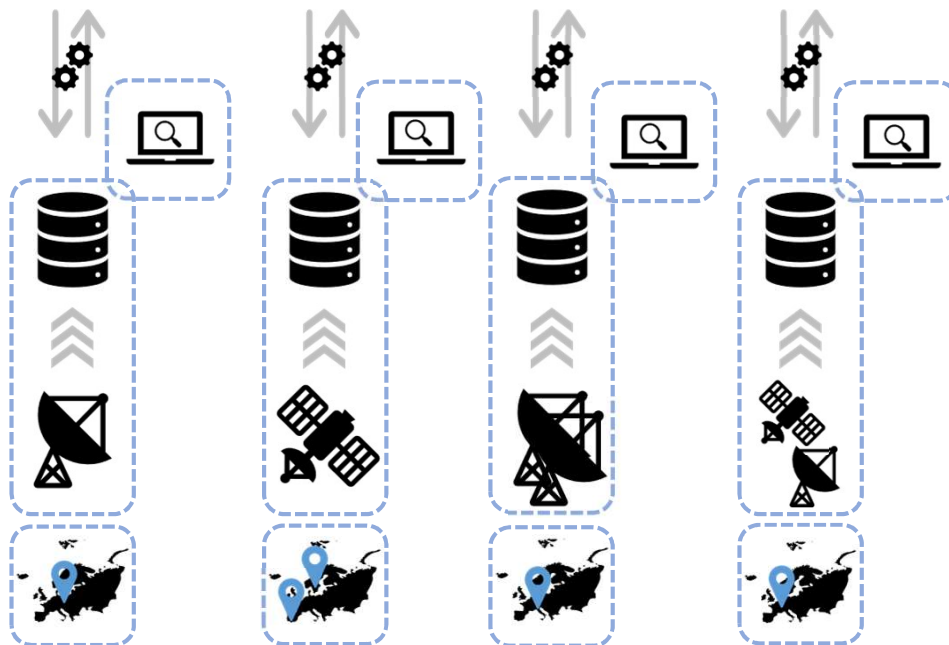
- Trusted repositories
 - FAIR assessment
 - Core Trust Seal certification
- Federated repositories
 - Integration with EOSC



DATA PORTAL FOR ACCESS TO DISTRIBUTED DATA



- One-stop shop to query multiple, diverse data sources increasing visibility and re-use of data
- Uniform and stable data access
- Increased interoperability between datasets



- Distributed efforts for data import and curation
- Local, regional or data type specificities possible, avoiding one-fits-all compromises
- Data standardization and interoperability enabled by domain experts
- Distributed investment and operating cost

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ugent.be/en/research/datamanagement



[Knowledge clip on YouTube: FAIR data principles](https://www.youtube.com/watch?v=2uZxFu9SFi8)

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FAIR DATA PRINCIPLES



ARDC 2018