

Finding and Accessing Data by Virtual Research Environments

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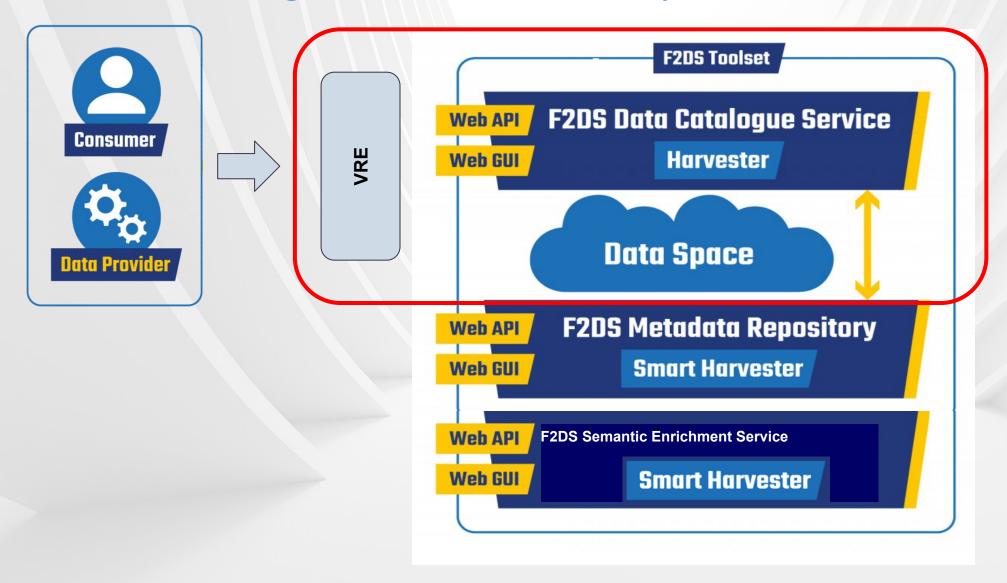


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The Catalogue side of the story



Why do we need a catalogue?

To make data spread across many sources seamlessly FAIR

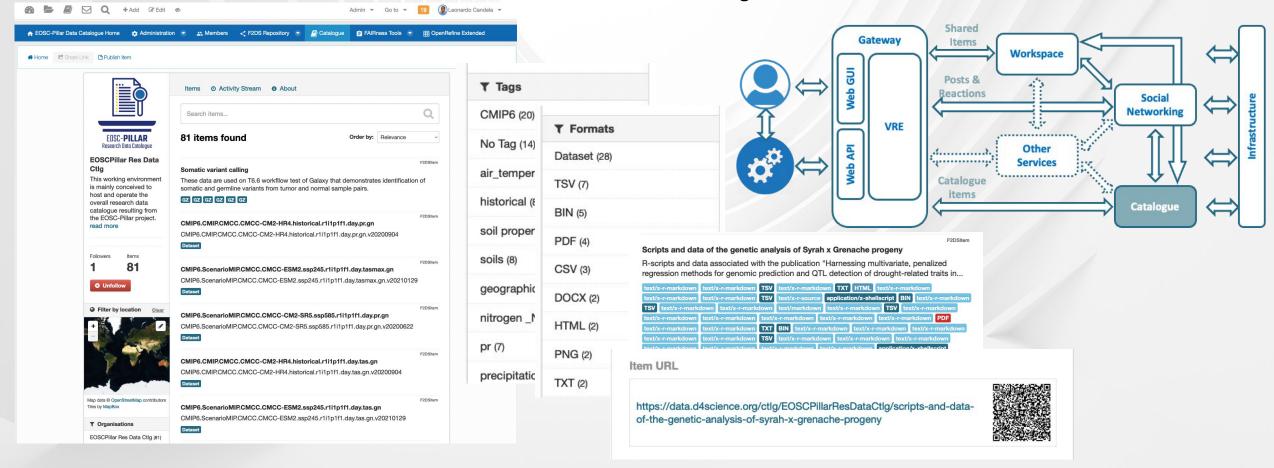
F4. (Meta)data are registered or indexed in a searchable resource

Findable The first step in (re)using data is to find them. Metadata and data should be easy to find for both humans and computers. Machine-readable metadata are essential for automatic discovery of datasets and services, so this is an essential component of the FAIRification process. F1. (Meta)data are assigned a globally unique and persistent identifier F2. Data are described with rich metadata (defined by R1 below) F3. Metadata clearly and explicitly include the identifier of the data they describe

- * To easily develop focused views / collections for communities of practices
 - * by existing contents & by facilitating the publishing of new contents

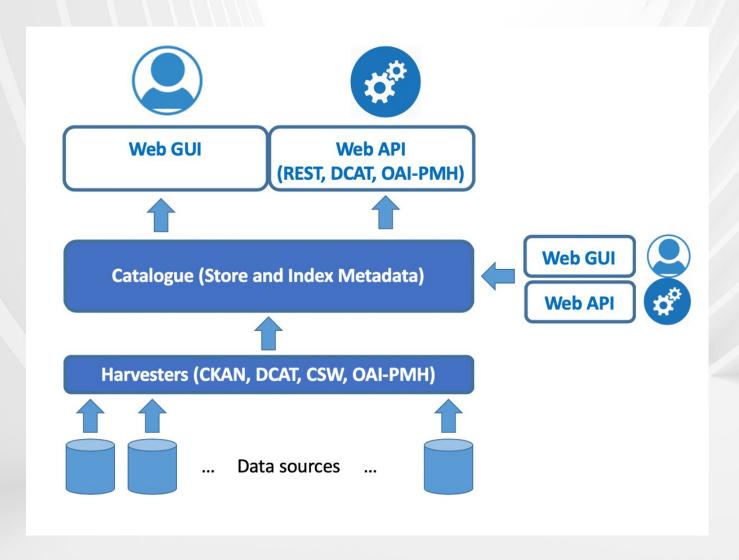
Not just a catalogue: A VRE with a Catalogue

A VRE is an innovative, web-based, community-oriented, comprehensive, flexible, and secure working environments conceived to serve the needs of "modern" science delivered as-a-Service and catering for co-creation*

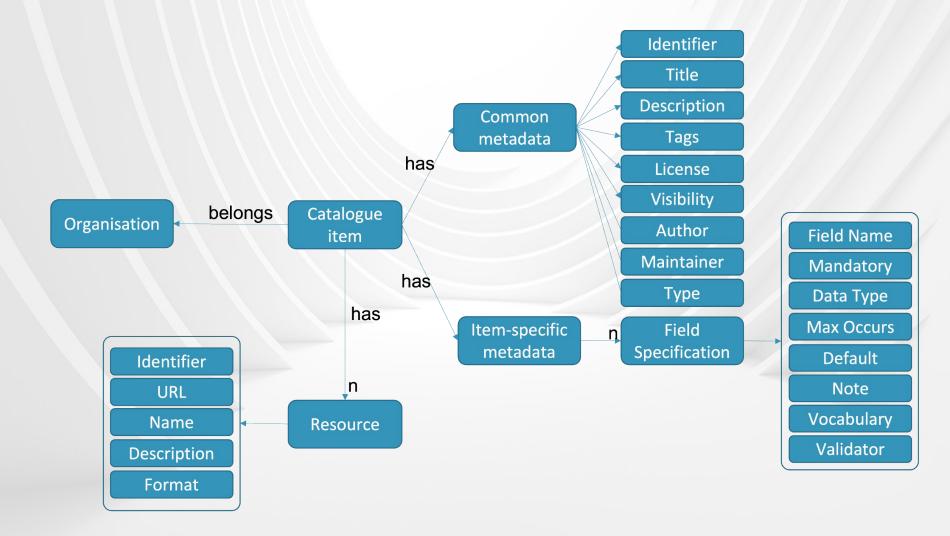


^{*} M. Assante et al (2019) Enacting Open Science by D4Science Future Generation Computer Systems 10.1016/j.future.2019.05.063

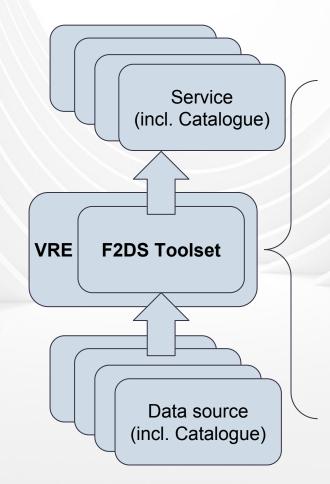
Catalogue Service Architecture



The metadata model of the Catalogue



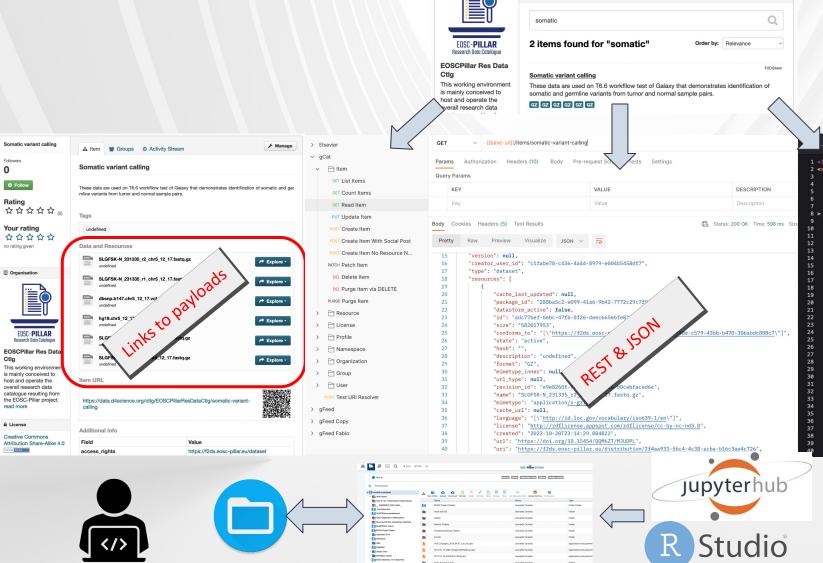
... enacting an ecosystem of catalogues



Every catalogue has a "designated community" and is a "decision point" for:

- content to collect
 - O standard and ad-hoc harvesters
 - O mappings
- "new" content to publish
 - O publishing policy
- metadata characterising items
 - profiles and controlled vocabularies
- protocols and standards to use to expose its contents

Data Access / Exploitation Patterns



Items O Activity Stream O About



en view-source:https://ckan-eoscpillar.d4science.org/dataset/somatic-variant-calling.rdf

Data Discovery and Consumption Offering Wrap-up

- * data discovery and consumption needs are very heterogeneous
- * global solutions have limitations
- * cater for communities of practice



* EOSC-Pillar F2DS toolset fits with this by bringing data close to diverse users and usage needs



Thank you!

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