

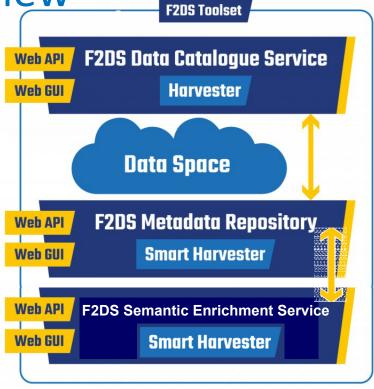
Session S7 Innovative FAIR data spaces





Session S7 overview













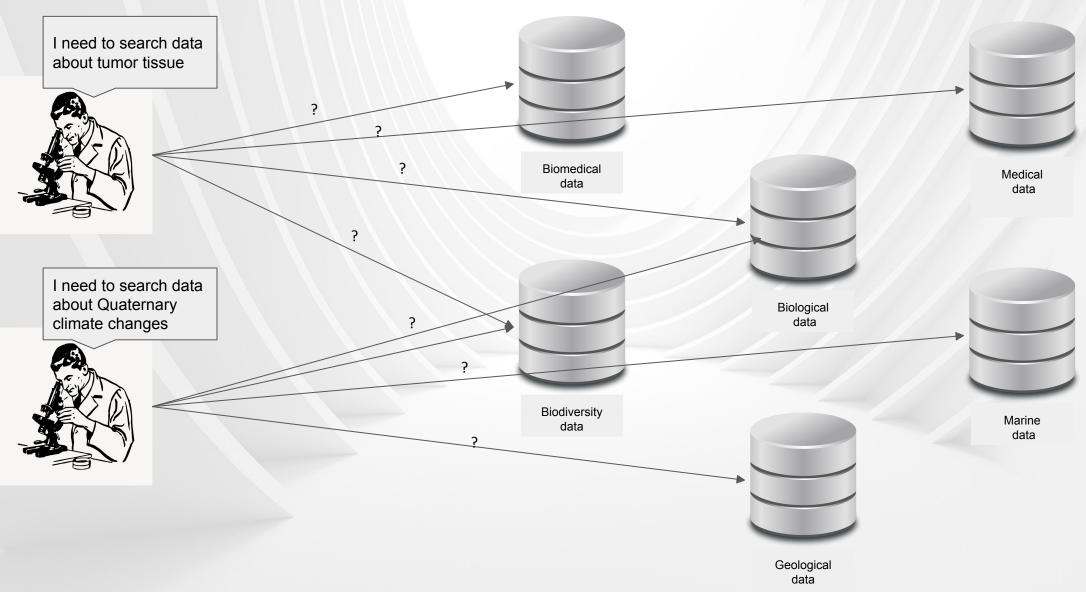
Harvesting and mapping data to an unifying data space

Baptiste Toulemonde

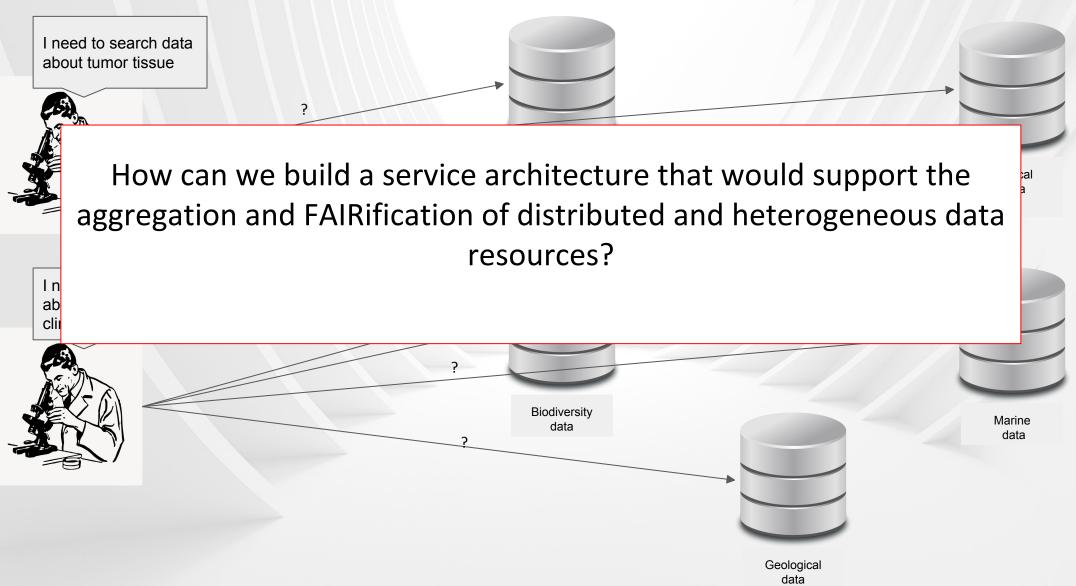




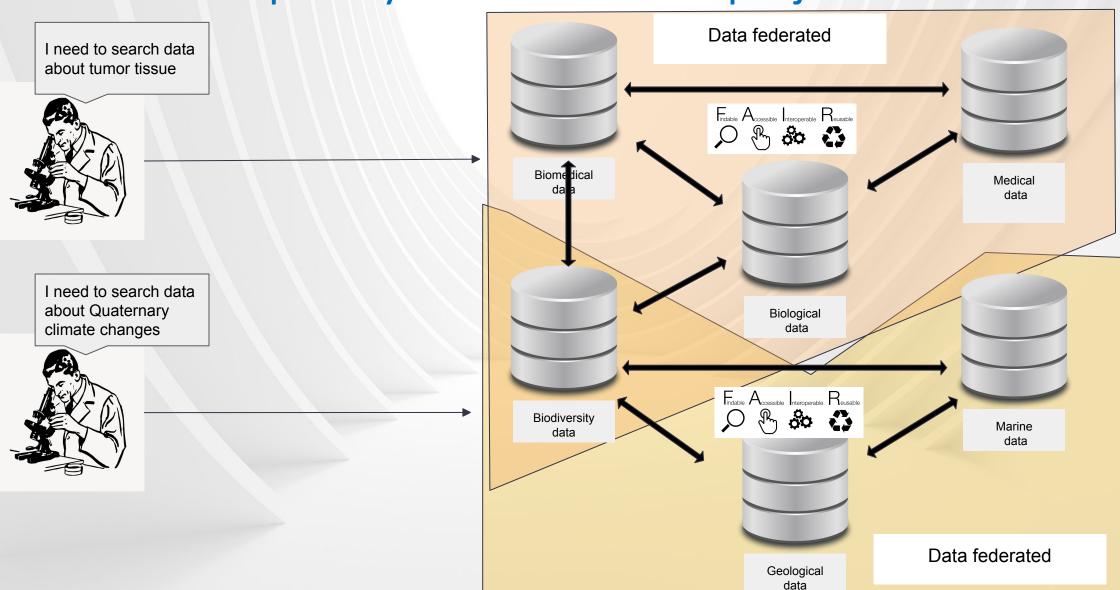
A cross disciplinary use-case driven project



A cross disciplinary use-case driven project



A cross disciplinary use-case driven project



FAIR Principles: guidelines toward machine actionable information

Technical considerations

- Globally Unique Persistent and Resolvable Identifiers
- Metadata
 - Provenance
 - Common format
 - FAIR Vocabularies/Ontologies
 - · Leverage domain specific metadata standards
 - Persistent
- Free, Open and Universal Access protocol
- Licences (human and machine readable)

Existing tooling

Publish FAIR data



Enrich (meta)data with semantics



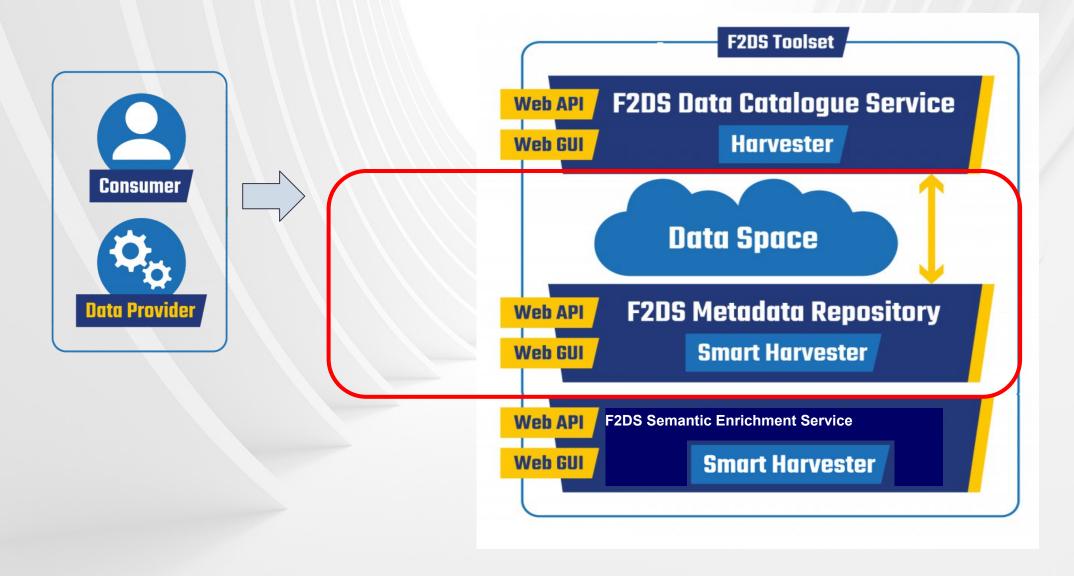


Evaluate FAIRness

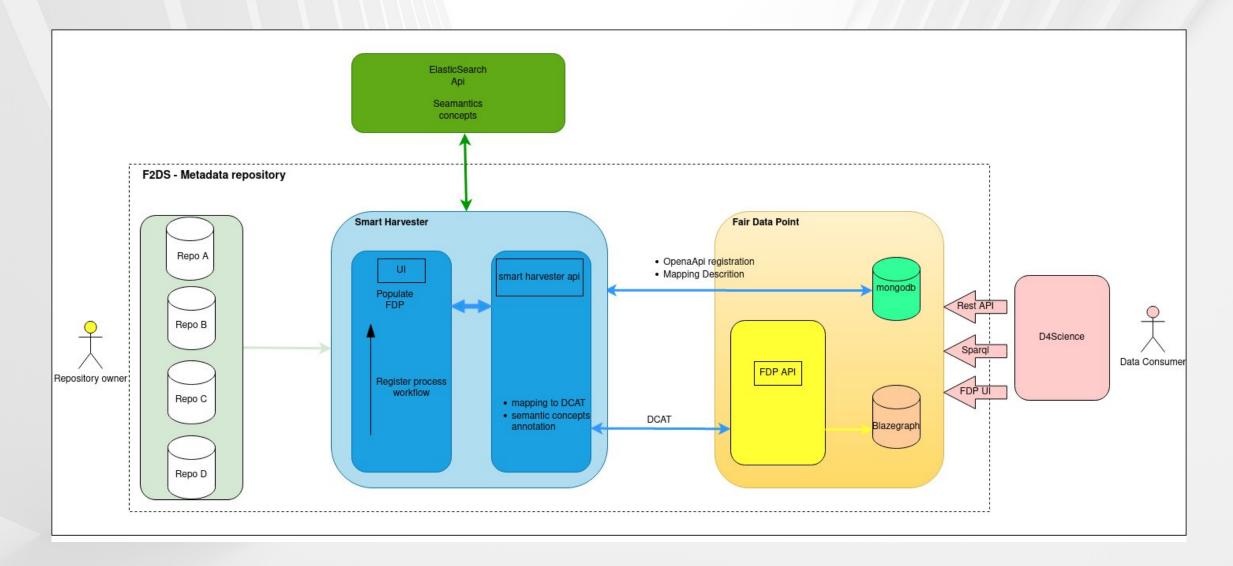


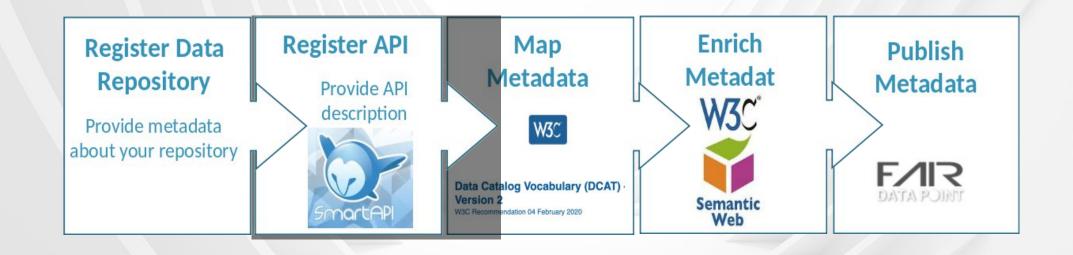


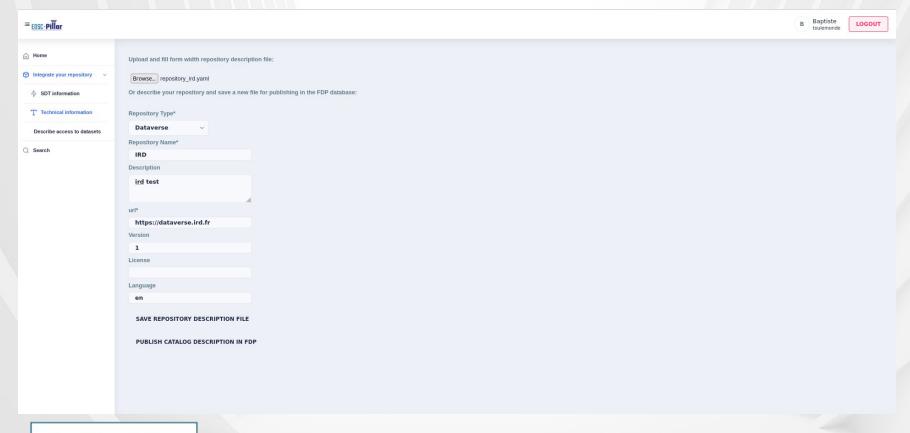
A simple service architecture



A simple service architecture

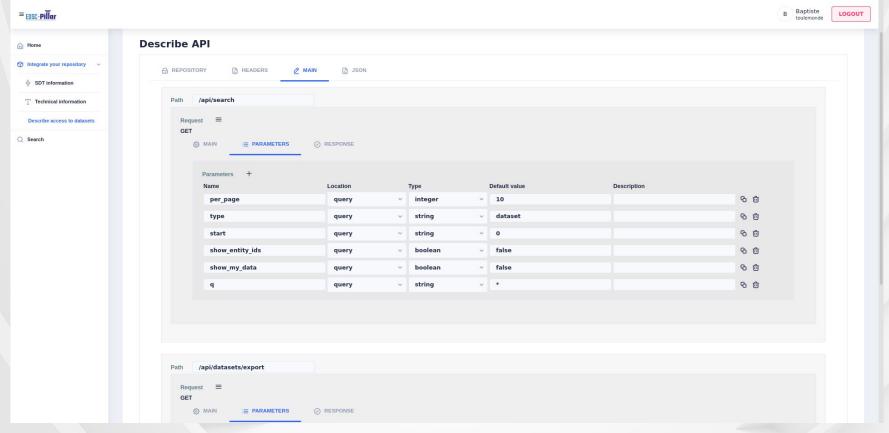






Register Data Repository

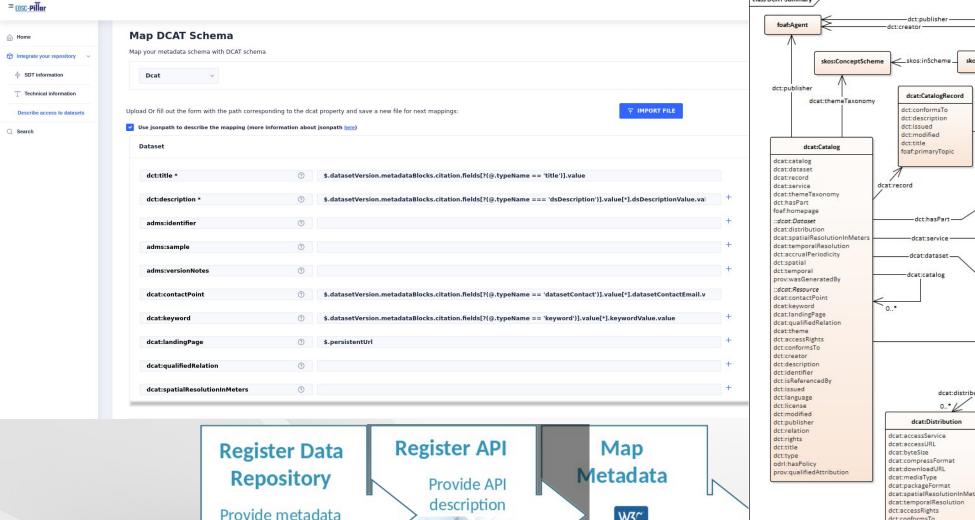
Provide metadata about your repository



Register Data Repository

Provide metadata about your repository



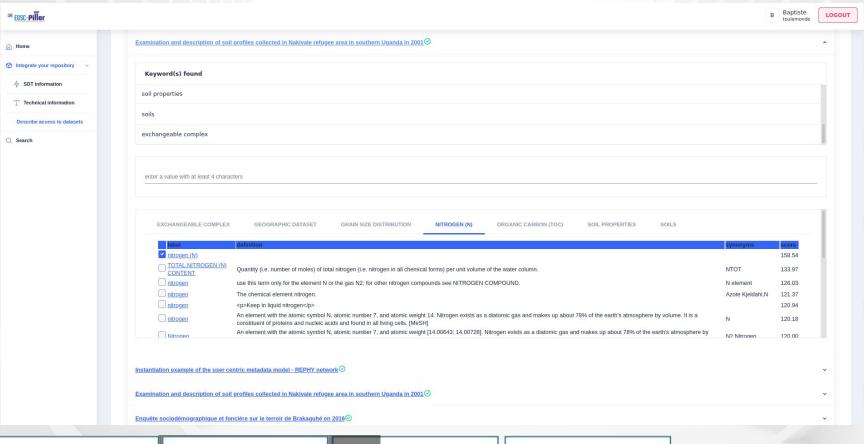


Data Catalog Vocabulary (DCAT)

endation 04 February 2020

about your repository

dcat:Resource dcat:contactPoint dcat:kevword dcat:landingPage skos:Concept dcat:qualifiedRelation .dcat:qualifiedRelation dcat:theme dcat:theme dct:accessRights dct:conformsTo dct:creator dcat:Relationship dct:description dct:identifier dcat:hadRole dct:isReferencedBy dct:relation _foaf:primaryTopic ______ dct:language dct:license dct:relation dct:modified dct:publisher dct:relation dct:rights dct:title dct:type odrl:hasPolicy prov:qualifiedAttributio dcat:Dataset dcat:DataService dcat-distribution dcat:endpointDescription dcat:spatialResolutionInMeter: dcat:endpointURL dcat:temporalResolution dcat:servesDataset dct:accrualPeriodicity dct:spatial ··deat-Resource dct:temporal dcat:contactPoint rov:wasGeneratedBy dcat:keyword dcat:landingPage :dcat:Resource dcat:qualifiedRelation dcat:contactPoint dcat:theme dcat:keyword dct:accessRights dcat:landingPage dct:conformsTo dcat:qualifiedRelation dct:creator dcat:theme dcat:distribution dct:accessRights dct:description dct:identifier dct:conformsTo dct:isReferencedBy dct:creator dct:issued dct:description dct:language dct:identifier dct:license dct:isReferencedBy dct:modified dct:issued dct:publisher dct:language dct:relation dct:license dct:rights dct:modified dct:title dct:publisher dct:type dct:relation dcat:spatialResolutionInMeters odrl:hasPolicy dct:rights prov:qualifiedAttribution dct:title dct:type dct:conformsTo odrl:hasPolicy dct:description prov:qualifiedAttribution dct:format dct:issued dct:license dcat:servesDataset dct:modified dct:rights drattacressService dct:title odrl:hasPolicy



Register Data Repository

Provide metadata about your repository

Register API

Provide API description



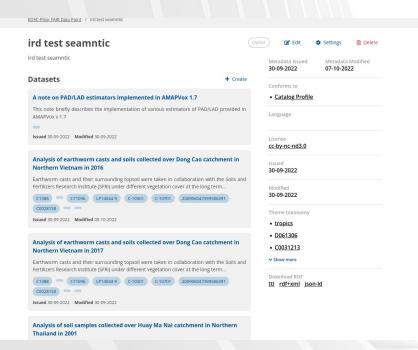
Map Metadata

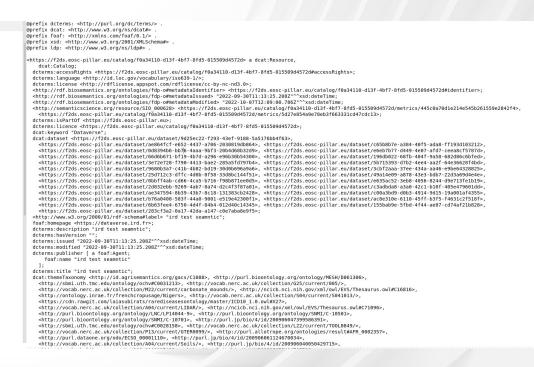


Data Catalog Vocabulary (DCAT) · Version 2
W3C Recommendation 04 February 2020



Web





Register Data Repository

Provide metadata about your repository

Register API

Provide API description



Map Metadata



Data Catalog Vocabulary (DCAT) · Version 2
WSC Recommendation 04 February 2020



Publish Metadata



Benefits

- Create in no-time data spaces across internal resources, institutions, and domains
- No changes required for repositories
- Make repository content more FAIR
- Multiple APIs for accessing and processing F2DS content (SparQL, REST API, and web UI)
- Connect easily any processing services



Thank you!

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