Software and services towards interoperable data management

----- A Service portfolio from the ENVRIPLUS Data for Science theme

Zhiming Zhao, Paul Martin, Malcolm Atkinson, Abraham Nieva De La Hidalga, Alex Hardisty, Keith Jeffery, Alex Vermeulen, Margareta Hellström, Leonardo Candela, Erwann Quimbert, Barbara Magagna, Chris Ariyo, Christian Pichot, Thierry Carval, Yin

The ENVRIPLUS Data for Science Theme technical team

Chen, Baptiste Grenier

Introduction and background

Operational and FAIR compliant services in the European Open Science Cloud (EOSC) ecosystem, open science enabled, etc.

1. ENVRI Reference model guided RI design

A1. RM Training: Practical Introduction to the ENVRI RM

A2. Open Information Linking for Environmental science research infrastructures (OIL-E)

A3. ENVRI Knowledge Base

A4. Architecture Design

A. Service portfolio from the ENVRI PLUS Data for Science theme development topic

1. ENVRI Reference model guided RI design

B1. Linked open data ingestion and metadata service

B2.4Science Data Analytics

B3. Dynamic real-time infrastructure planner (DRP)

B4. Data Curation

B6. Provenance

C1. Data Subscription Service (DSS)

C2. Pipeline for semantic annotation of relational DB and triples generation

C3. Data / metadata generation from semantic annotations

C4. Dynamic ecological information management system (DEIMS)

D1. ENVRIplus Service Testing based on EGI Cloud Compute

2. Interoperable solutions to common data management problems

3. Reusable solutions from RI/e-I/VRE communities

Contact: Dr. Zhiming Zhao (z.zhao@uva.nl).

ENVRI RM: www.envri.eu.rm

Portfolio:
https://services.d4science.org/group/envriplusdata4science/portfolio

Environmental Research Infrastructures Providing Shared Solutions for Science and Society

EU Horizon 2020 research and innovation programme under grant agreement No 654182.