

Funded Project

CodeMetaSoft

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Principal Co-Investigator: Thomas Vuillaume, Laboratoire d'Annecy de Physique des Particules, CNRS

Project team members: Tom Francois, Anas el Hounsri, Esteban González Guardia

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CodeMetaSoft



Improving Research Software metadata good practices across OSCARS science clusters

OSCARS Funding:

€ 250000

Project Start:

01-Nov-2024

Project End:

01-Nov-2026

Field:

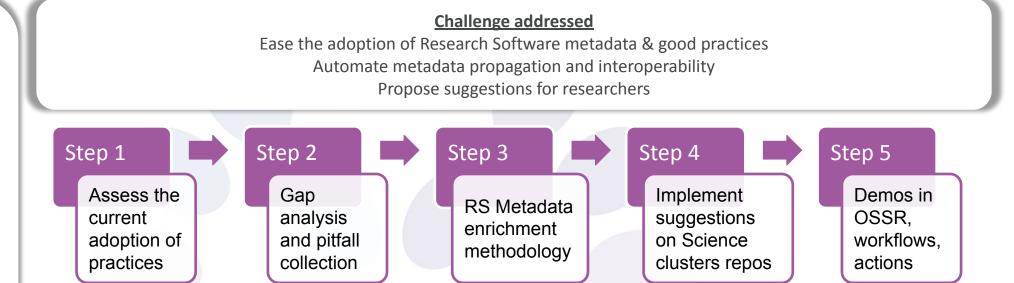
All clusters Research Software Metadata

Principal Investigators:

Daniel Garijo, UPM Thomas Vuillaume, LAPP

Other Researchers involved:

Tom Francois, LAPP Anas el Hounsri, UPM Esteban González, UPM



IMPACT

Improving metadata adoption and FAIR4RS principles in European Science clusters, increase the adoption of CodeMeta as a Research Software metadata standard

Organisations involved:



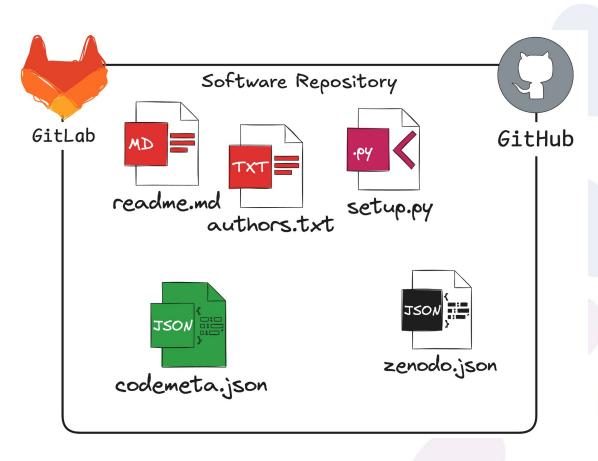








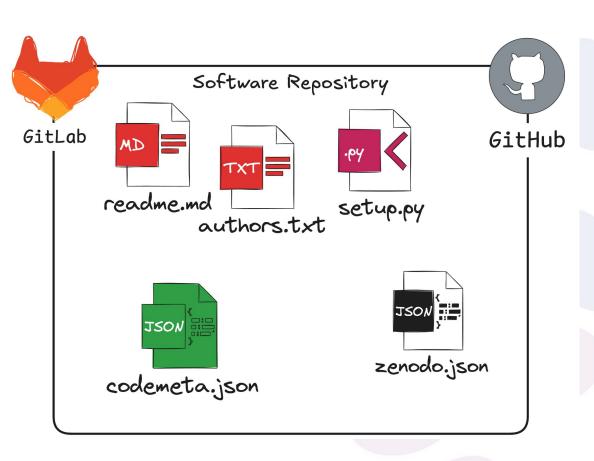
Research Software metadata are a core element of FAIRness.



- Sources of software metadata are often project or platform specific.
 - setup.py, setup.cfg in python
 - pom.xml in Java
 - README.md
 - •
- CodeMeta is becoming the metadata standard for software metadata.

Challenge Addressed

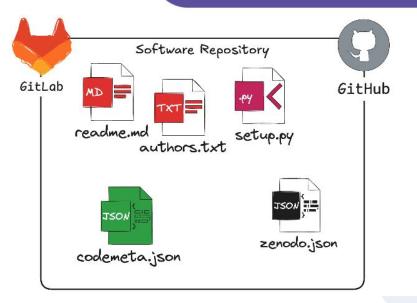


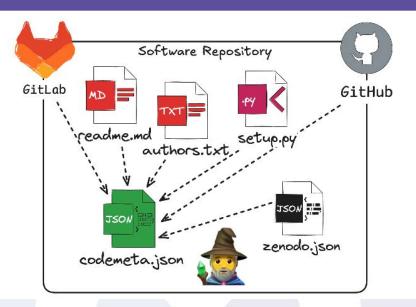


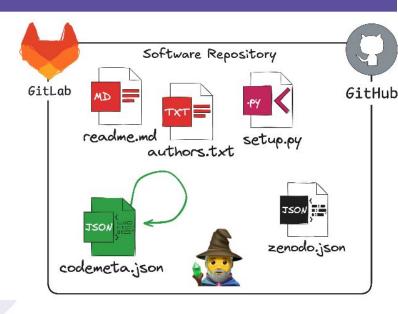
- Software metadata is currently disseminated in heterogeneous files and documentation
- Lack of automated suggestions and enrichment for improving software metadata

Proposed Solution









- Integrate and enrich Research Software (RS) metadata records
- Tools to ease metadata compliance, propagation and automated suggestions and enrichment
- Automate RS metadata maintenance workflows
- Means to measure metadata gaps and the adoption of best practices
- Methodology for RS enrichment
- Demonstrators through clusters and OSSR

Next Steps & Expected Scientific Impact



- What is going to change thanks to your project?
 - CodeMeta maintenance in software repositories is simplified. As a result its adoption in the Science Clusters increases, making software more FAIR globally.
 - Gaps in metadata are identified in software catalogues, helping Science Clusters focusing their efforts where they are most needed
- Resources that will be made available:
 - Open service(s) and actions usable by others from any community
- Sustainability:
 - Rely on existing tooling (e.g., CodeMeta generator) and standards (CodeMeta)
 - The developed solution and results will be open-source and published in Zenodo to be (re)usable by anyone.
- A first landscape analysis of good practices has been accepted at MSR'25 [1]

