

OSCARS

Open Science Clusters' Action
for Research & Society

Funded Project

AMIS : Advanced Metadata intelligent System

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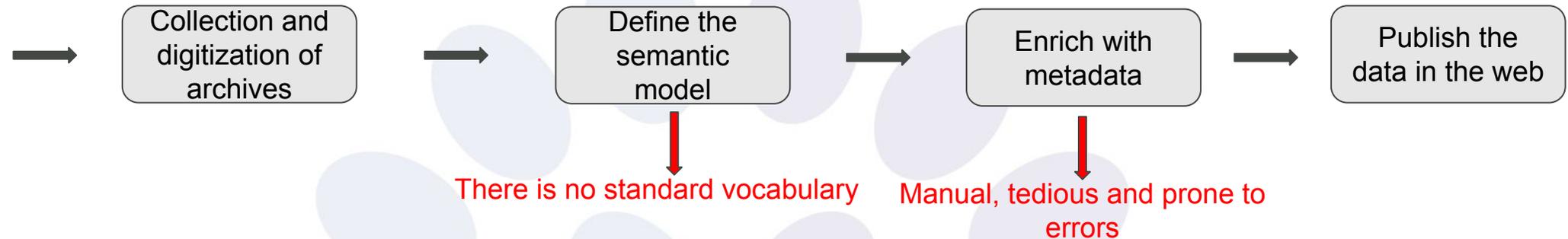
Implemented by



Funded by
the European Union

What problem(s) did you plan to solve?

The **AMIS project** addresses three main challenges: (1) Metadata creation is time-consuming and discouraging, (2) Metadata practices are inconsistent across platforms, (3) Poor metadata limits data discovery and reuse.



We develop a web application that (1) simplifies and guides metadata creation, (2) provides personalized recommendations to ensure consistency, and (3) improves data discoverability through well-structured, search-optimized metadata.

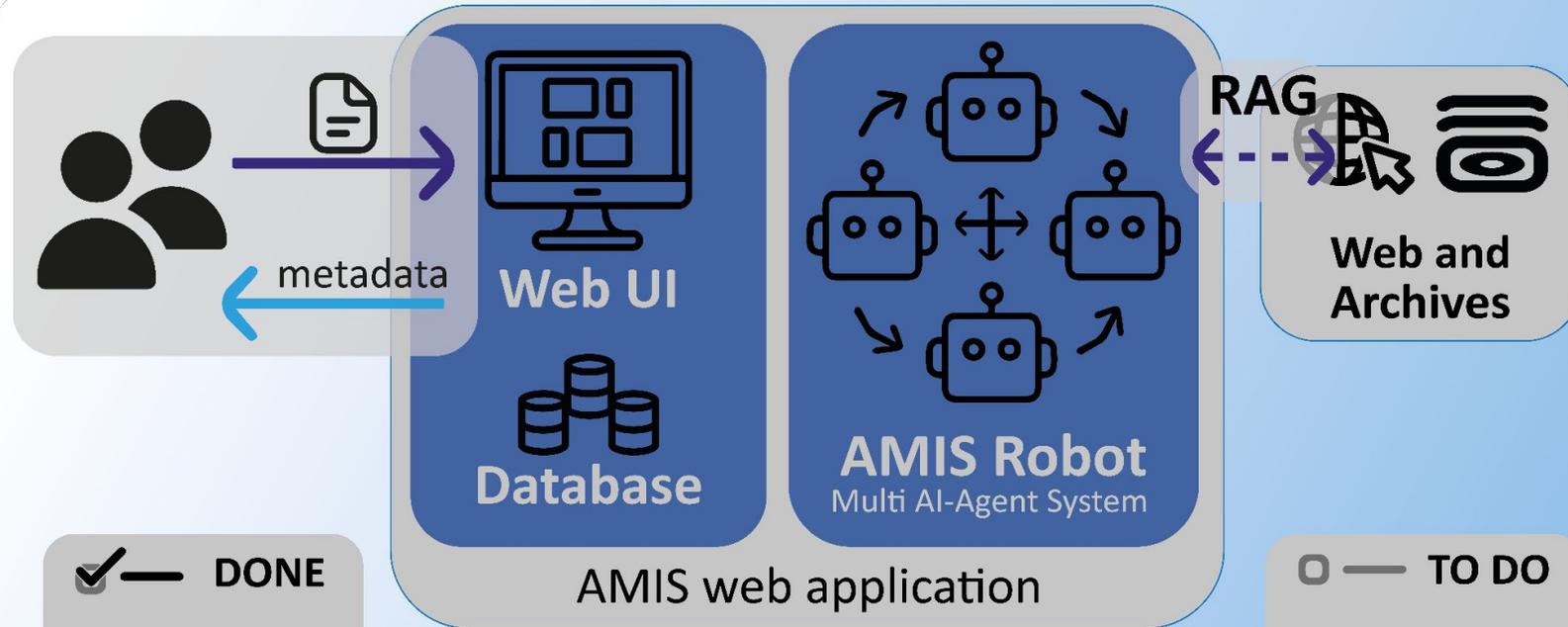
AMIS objectives:

- Promote and standardize the use of rich and expressive semantic models.
- Automate metadata extraction and annotation.
- Provide a publicly available, common tool for the entire research community.



AMIS - Advanced Metadata Intelligent System

What have you done to solve the problem?



- DONE
- ✓ UI and database for managing users profiles and FAIR projects.
 - ✓ File processing and Image OCR.
 - ✓ Web browsing for RAG.
 - ✓ Metadata extraction DC Terms.

- TO DO
- Merging the AMIS Robot and application together.
 - Integration of the CAO_CRM.
 - Include the partners Archive as knowledge base.

What are the key results achieved to date and how have you made them available to the broader community?

Results:

- We tested our tool on different archives with different languages: French, Romanian, Spanish,
- Satisfactory results based on the researchers feedback.

Availability:

- The test version of the tool is available online currently and it is constantly updated for bug fix, new functionalities and performances improvements.
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How will make your results sustainable over time - How will the scientific community/-ies further exploit them?

What's next:

- Complete the inclusion of the ontology CAO_CRM.
- Call for broad test, as soon as possible, to all the community to have rich and further improve any aspect of the tool as soon as possible.
- A paper on “AMIS: a multi-agent approach to semantic metadata generation and standardization”

Sustainability:

- The tool will be permanently deployed on Huma-Num servers and available.
 - Both the source code and the proper documentation will be provided to the community.
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Who is doing it?

- Coordinator : Prof. Fatiha Idmhand, University of Poitiers, Consortium-HN ARIANE de l'infrastructure Huma-Num (**FRANCE**)
 - Prof. Ioana Galleron (University of Sorbonne Nouvelle, **FRANCE**)
 - Prof. Sabine Loudcher (University of Lyon, **FRANCE**)
 - Prof. Amelia SANZ (Universidad Complutense de Madrid, **SPAIN**)
 - Prof. Simone REBORA (University of Verona, **ITALY**)
 - Dr. Roxana Patras (University AL. I. Cuza, Iasi, **ROMANIA**)
 - University of Lisboa, **PORTUGAL**
 - Ameni GUIZANI, Full stack developer and Machine learning (Since September 2025)
 - Ala Eddine LAOUIR, Post-Doc in AI and LLM (Since September 2025)
 - Andres ECHAVARRIA, Post Doc in Digital Humanities (Since September 2025)
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