



PERSONALIZED EXPLAINABLE ARTIFICIAL INTELLIGENCE FOR
DECENTRALIZED AGENTS WITH HETEROGENEOUS KNOWLEDGE

D1.4

Data Management Plan (DMP)

[M3]

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EXPECTATION

The EXPECTATION Project Consortium groups Organizations involved:

Partner Name	Short name	Country
University of Applied Sciences and Arts Western Switzerland HES-SO Institute of Information Systems	HES-SO	Switzerland
University of Bologna / Dep. Of Computer Science and Engineering	UNIBO	Italy
University of Luxembourg, Department of Computer Science	UNILU	Luxembourg
Özyeğin University	OZU	Turkey

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EXPECTATION - Personalized Explainable Artificial Intelligence for decentralized agents with heterogeneous knowledge

Data Management Plan (DMP)

1 Collecte des données et documentation

1.1 Quelles données allez-vous collecter, étudier, générer ou réutiliser ?

We will collect data from participants willing to test the agent-based explainability app for food recommendation. The data collected includes basic demographics, as well as food consumption observations and assessment of dietary habits. These data will be obtained during usage of the application. It may also include quantitative and qualitative data from questionnaires used to assess transparency, XAI perception, understanding, and relevance of personalisation contents.

1.2 Comment les données seront-elles recueillies, étudiées ou générées ?

Data will be collected through the application prototype developed in the project, essentially through direct questions and self-reported dietary habits. Time series observation datasets will be produced as a result, as well as questionnaire tabular data. The data collection procedure will be specified and validated beforehand.

Data organization within the project will follow the guidelines set by the HES-SO Valais-Wallis Data Acquisition Unit DAUnit, specialized in health research data management.

1.3 Quelle documentation et quelles métadonnées allez-vous fournir avec les données ?

Each dataset will include metadata associated, including those related to authorship, reuse, license, and data description. We will adhere to standards including DCAT and PROV for this purpose, including semantic representations for it. This will be compliant with FAIR principles and will be generated using the tools provided by DAUnit.

2 Questions éthiques, légales et de sécurité

2.1 Comment les questions éthiques seront-elles abordées et traitées ?

Data collected for the participants in the study will be subject to strict data protection measures, and the protocol will be submitted to the corresponding ethical committee. All participants will be required to give her consent before participating in the study. All sensible data collected will be stored in the SWITCH data repository with the necessary access right restrictions.

In case of any ethic concern, the HES-SO applied ethics service will be consulted for ensuring that all necessary procedures are respected.

2.2 Comment seront gérés l'accès aux données et la sécurité ?

During the research project data will be stored in the shared storage infrastructure of HES-SO Valais-Wallis with very high protection and restricted access only to project members. The project PI will be in charge of managing access rights, and the IT service provider offers guarantees for storage and security.

2.3 Comment allez-vous gérer les questions de droits d'auteur et de propriété intellectuelle ?

An IP agreement will be signed between HES-SO, UniBo, UniLu, and OZU before the start of the project. However, any data related to the results (e.g. statistical information, and sources for the paper plots, etc.) will be made available along with any published paper as supplementary material. CC licenses will be used for this purpose, with the specific type defined in a later incarnation of the DMP. For the food self reported data and other personal sensitive datasets, data IP will be assigned to the institution where the data was collected. Specific licenses for anonymized datasets will be specified if needed.

3 Stockage et préservation des données

3.1 De quelle manière vos données seront-elles stockées et sauvegardées au cours de la recherche ?

During the research project data will be stored in the dedicated storage infrastructure of HES-SO Valais-Wallis, with restricted access only to project members. The project PI will be in charge of managing access rights, and the IT service provider offers certain guarantees for storage.

3.2 Quel est votre plan en matière de conservation des données ?

Data collected for the study participants will be stored after the conclusion of the project according to the Swiss law for data protection and related regulations, for the time stipulated by such laws. Data preservation will be managed through the HES-SO Data acquisition Unit and using their available infrastructures. All results originating from the project (evaluation data results, according to metrics defined during the project) will be published with a corresponding article/paper.

4 Partage et réutilisation des données

4.1 De quelle manière et où seront partagées les données ?

Anonymized food data and EEG data will be made available through Zenodo, which complies with the FAIR principles. These datasets, through the Zenodo interfaces will be made available as well in the EU Open Science Cloud infrastructure.

4.2 Y a-t-il des restrictions nécessaires pour protéger les données sensibles ?

Due to ethical and confidentiality reasons, only anonymized data form food and dietary tracking will be made available.

No time delays will be imposed beyond the end of the project an publication of its results.

4.3 Je confirme que je choisirai exclusivement des bases de données (repositories) numériques conformes aux FAIR Data Principles

Oui

4.4 Les bases de données (repositories) choisies pour le dépôt des données sont gérées par une organisation à but non lucratif.

Oui