IO3: Creating two prototype DSS tools

FARM: FOSTERING AGRICULTURE
RURAL DEVELOPMENT AND LAND MANAGEMENT

LEAD: UCY

IO3 Info

Starting Date: 01-05-2021

Ending Date: 31-12-2022

Lead: UCY

Decision Support Systems

- **A decision support system** (**DSS**) is an information system that supports business or organizational decision-making activities

- **A DSS** sifts through and analyzes massive amounts of data, compiling comprehensive information that can be used to solve problems in **decision**-making.

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- **The FARM DSS tools** aim to enable the agriculture and agri-food sector to assess, monitor, and reduce negative impacts of agricultural methods and techniques for the environment.

- **The aim of this Intellectual Output** is to provide the complete design of the tools, including a conceptual specification and prototypically designed package for the two DSS tools.

Complete and sophisticated software tools cannot be expected within the projects framework, but sound foundations for such DSS including software prototypes will be delivered based on the results of O1 and O2.

Methodology

O3.1 Gathering User Requirements: interviews with experts, questionnaire surveys, responses gathered will be analyzed

Deliverable(s): User requirements documentation, including all the material used such as questionnaires, the methodology followed, and the results of the analysis of the responses.

O3.2 Elaborating the Specifications: results from the user requirements analysis will be mainly considered, enhanced with privacy requirements (e.g. GDPR)

Deliverable(s): A conceptual specifications document as foundation for each DSS tool.

O3.3 Designing the tools: A conceptual design for the prototype DSS, including details about user interface, architecture, database and other functionalities. The architecture of the system will be specified as well as related diagrams to showcase the design of the system.

Deliverable(s): Software design documentation including respective diagrams and other design material

Methodology

O3.4 Developing the Prototypes: This task includes the development of low-fidelity and high-fidelity prototypes. The final products will include the most important look and feel characteristics concerning interaction of users with the DSS (interface, navigation).

Deliverable(s): Two high-fidelity interactive prototypes of the tools.

O3.5 Validation:
◦ (a) Low fidelity prototypes will be validated by the consortium experts.
◦ (b) Feedback collected will be analyzed and results will be used in the creation of the high-fidelity prototypes.
◦ (c) The high fidelity prototypes will then be validated by stakeholders.
◦ (d) Feedback will be analyzed, and results will be used for the improvement and creation of the final high-fidelity prototypes.

Deliverable(s): Validation documentation including all the material used for the two phases of the validation, the analysis of the responses and the results.

Methodology

All the above tasks (3.1-3.5) will run in parallel.

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Thank you