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# Milestones

| Date       | Milestone                    | Expected Outputs                                                                                                                                                                                                                                                                                            |
|------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026-09-18 | Challenge Selection          | Top-3 preferred challenges submitted to <a href="mailto:mads4engineering@isep.ipp.pt">mads4engineering@isep.ipp.pt</a>                                                                                                                                                                                      |
| 2026-09-25 | Business Understanding       | Challenge description, stakeholder map, problem statement, objectives, success criteria                                                                                                                                                                                                                     |
| 2026-10-02 | User Understanding           | Personas, user journeys, value proposition, initial requirements                                                                                                                                                                                                                                            |
| 2026-10-09 | Data Understanding           | Data inventory, data source assessment, data quality assessment, exploratory analysis                                                                                                                                                                                                                       |
| 2026-10-16 | Data Preparation             | Conceptual data model, information architecture, data preparation strategy, solution concept                                                                                                                                                                                                                |
| 2026-10-23 | User-Centred Solution Design | User stories, wireframes, navigation flows, low-fidelity prototype                                                                                                                                                                                                                                          |
| 2026-10-30 | Development Planning         | System architecture, product backlog, release roadmap, sprint plan, Jira link                                                                                                                                                                                                                               |
| 2026-11-04 | Interim Deliverables         | Interim report and presentation uploaded                                                                                                                                                                                                                                                                    |
| 2026-11-05 | Interim Presentation         | Presentation, discussion and feedback                                                                                                                                                                                                                                                                       |
| 2026-11-13 | Interim Report Revision      | Refined interim report uploaded                                                                                                                                                                                                                                                                             |
| 2026-11-20 | Modelling                    | Backend data model, data pipeline, analytics components, API specification                                                                                                                                                                                                                                  |
| 2026-11-27 | Integrated Prototype         | Functional prototype and demonstration video                                                                                                                                                                                                                                                                |
| 2026-12-04 | Evaluation                   | User testing, validation results, performance assessment, improvement plan                                                                                                                                                                                                                                  |
| 2026-12-11 | Final Deliverables           | Final report, presentation, poster, video, technical-scientific paper and GitHub repository containing source code, datasets, models, APIs, documentation and deployment instructions                                                                                                                       |
| 2026-12-17 | Final Presentation           | Presentation, demonstration and assessment                                                                                                                                                                                                                                                                  |
| 2026-12-18 | Closing Session              | Demonstration of the prototype operation; hand-in of the prototype and user manual to the client; updated wiki; GitHub repository containing source code, datasets, models, APIs, documentation and deployment instructions; receive the MADS4Engineering certificate; bring typical food from your country |

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