

BiboLink



Sponsor

ISEP

Project Brief

The BiboLink Smart Hydration System aims to provide a sustainable, tech-driven public water dispenser that offers customizable hydration options with electrolytes and vitamins. It promotes eco-friendly water consumption, reduces single-use plastics, and integrates smart technology for user engagement and data-driven city planning.

The project requirements are:

- Sustainability - Use eco-friendly materials and promote reusable hydration solutions.
- Smart Technology - Enable user customization, data tracking, and app integration.
 - * Modular & Scalable Design - Ensure easy maintenance, adaptability, and expansion.
 - * Energy Efficiency - Utilize renewable energy sources (e.g., solar power) where possible.
 - * User Accessibility - Design for intuitive use, including for people with disabilities.
 - * Health & Safety Compliance - Meet European regulations for public water dispensing.
 - * Durability & Weather Resistance - Ensure functionality in outdoor environments.
 - * Business Feasibility - Consider cost-effective production and operational viability.

1. Comply with the following EU Directives:

1. Electromagnetic Compatibility Directive ([EMCD](#));
2. Low Voltage Directive ([LVD](#));
3. Machinery Directive ([MD](#));
4. Radio Equipment Directive ([RED](#));

5. Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (ROHS);
2. Mandatory adoption and use of the International System of Units ([The NIST International Guide for the use of the International System of Units](#))
3. Use open source software and technologies.

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N.5

Students:

- Till Hanfeld
- Mikolaj Wojciechowski
- Rafael Ferreira
- Kim Linthorst
- Olivia Van Staeyen
- Panna Tarnai

Project Coaches:

- Abel Duarte ajd@isep.ipp.pt
- Jorge Justo jfj@isep.ipp.pt
- Maria Benedita Malheiro mbm@isep.ipp.pt
- Maria Cristina Ribeiro mcr@isep.ipp.pt
- Manuel Silva mss@isep.ipp.pt
- Paulo Ferreira pdf@isep.ipp.pt
- Pedro Guedes pbg@isep.ipp.pt

Client:

- ISEP

Contents

- Milestones: [Milestones](#)
- Logbook: [Weekly report](#), [Meetings](#), [Activities](#)
- Report: [Report](#)
- Deliverables: [Links to all deliverables](#)

Contacts

- Till Hanfeld ——— (1242367@isep.ipp.pt)
- Mikolaj Wojciechowski— (1242347@isep.ipp.pt)
- Rafael Ferreira ——— (1200950@isep.ipp.pt)
- Kim Linthorst ——— (1242323@isep.ipp.pt)
- Olivia Van Staeyen — (1242353@isep.ipp.pt)
- Panna Tarnai ——— (1242393@isep.ipp.pt)

Utilities

- [DokuWiki Syntax](#)
- [Videos on how to use DokuWiki](#)

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