

Smart, Ergonomic, Multipurpose Public Equipment



We Make It Better

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The sponsor of this project is Instituto Superior de Engenharia do Porto. [ISEP](#)

Project Brief

The goal of the “Co-venient” project is to create a sustainable and adaptable outdoor workspace that meets the needs of students and remote workers. By integrating renewable energy sources, eco-friendly materials, and modern infrastructure, it aims to provide a functional and collaborative environment while minimizing environmental impact. Additionally, the project seeks to enhance well-being and social interaction by offering a flexible, accessible, and comfortable workspace.

The project requirements are:

- **Sustainability:** Use of renewable energy (solar panels), recycled and recyclable materials (recycled concrete, aluminum, sustainably sourced wood).
- **Functionality:** Adjustable tables and benches, modern electrical infrastructure (outlets, lighting), and weather-resistant design.
- **Technology Integration:** An application for reserving access to movable parts, Wi-Fi, and electricity.
- **User Accessibility:** Designed for students and remote workers, ensuring comfort and ease of use.
- **Maintenance & Longevity:** Durable materials, regular upkeep, and modular design for adaptability and future upgrades.
- **Impact:** Encouraging collaboration, reducing work-related isolation, and promoting a productive outdoor workspace.

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;
4. 100€ budget for the prototype.

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N.: 1

Students:

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- Aaro Lukkari
- Marion Lasarroques
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Client:

- Client Name, email, etc.

Contents

Milestones: [Milestones](#)

Logbook: [Weekly Report, Meetings, Activities](#)

Report: [Report](#)

Deliverables: [Links to all deliverables](#)

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Utilities

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

Acknowledgements

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