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Connect & Share



Sponsor

Instituto Superior de Engenharia do Porto (ISEP)

Project Brief

Connect is an interactive digital art installation designed for metro carriages, addressing the problem of social isolation in public transport. The installation makes ordinary handrails touch-sensitive: when a passenger grabs a handrail, a unique color lights up at the point of contact and travels visibly up the pole to the ceiling, where it is displayed through LED strips. When multiple passengers touch different handrails at the same time, their colors blend together on the ceiling, creating a shared, collective visual experience. Rather than asking passengers to change their behavior, Connect works through an action they already perform, to create a moment of connection between strangers.

The project requirements are:

1. Create an experience inside a metro that connects people and increases social interactions through digital art installations
2. Installation should not be harmful to anybody under any circumstances
3. Experience should be accessible for everybody
4. 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](#));
5. Mandatory adoption and use of the International System of Units ([The NIST International Guide for the use of the International System of Units](#))
6. Use open source software and technologies.
7. Maximum budget for the prototype is 100 €.

Participants

Institution: Instituto Superior de Engenharia do Porto

Team N.5:

Students:

- Leon Gunsilius
- Paula Macias
- Giulia Vaneeckhout
- Rui Mendes
- Anna Bentzen
- Julian Bednarek

Project Coaches:

- Abel Duarte (ajd 'at' isep 'dot' ipp 'dot' pt)
- Jorge Justo (jgj 'at' isep 'dot' ipp 'dot' pt)
- Luís Lima (lul 'at' isep 'dot' ipp 'dot' pt)
- Maria Benedita Malheiro (mbm 'at' isep 'dot' ipp 'dot' pt)
- Maria Cristina Ribeiro (mcr 'at' isep 'dot' ipp 'dot' pt)
- Manuel Silva (mss 'at' isep 'dot' ipp 'dot' pt)
- Pedro Guedes (pbj 'at' isep 'dot' ipp 'dot' pt)

Client:

- ISEP, mail@isep.ipp.pt, [+351 22 834 0500](tel:+351228340500)

Contents

Milestones [Milestones](#)

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

Report: [Report](#)

Deliverables: [Links to all deliverables](#)

Contacts

- Leon Gunsilius, [mail](#), [linkedin](#)
- Paula Macías, [mail](#), [linkedin](#)
- Giulia Vaneeckhout, [mail](#)
- Rui Mendes, [mail](#), [linkedin](#)
- Anna Bentzen, [mail](#), [linkedin](#), [github](#)
- Julian Bednarek, [mail](#), [linkedin](#), [github](#)

Utilities

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

Acknowledgements

- ISEP, mail@isep.ipp.pt, +351 22 834 0500
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- Prof. João Correia Lopes, DEI, FEUP (wiki template)

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