

# Outdoor Intelligent Shader

## Sponsor



## Project Summary

The goal is to create a new market for a parasol. Combining SMART electronics with a traditional parasol to create a totally new wellness and luxury experience. The product is based on a wave shaped design, that is not only an aerodynamic shape but can fit a table of 6 persons easily. The parasol will move over a rails so the whole structure will follow the position off the sun to keep a constant shade underneath the parasol.

The project requirements are:

1. Comply with the following EU Directives:
  1. Machine Directive ([2006/42/CE 2006-05-17](#));
  2. Electromagnetic Compatibility Directive ([2004/108/EC 2004 12 15](#));
  3. Low Voltage Directive ([2014/35/EU 2016-04-20](#));
  4. Radio Equipment Directive ([2014/53/EU 2014-04-16](#));
  5. Restriction of Hazardous Substances (ROHS) in Electrical and Electronic Equipment Directive ([2002/95/EC 2003-01-27](#));
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.4:**

**Students:**

- Marta Majewska
- Melanie Tscholl
- Manuel Baptista
- Christopher Mahon
- Sven Bergervoet

**Panel of Supervisors:**

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### Client:

- Client Name, email, etc.

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## Utilities

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

## Acknowledgements

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