

# Sealed GRID

## Scalable, trustEd, and interoperAble pLatform for sEcureD smart GRID

**Project number: 777996**

**Project website: [www.sgrid.eu](http://www.sgrid.eu)**

**Duration: 48 months**

**Total cost: EUR 1,080,000**

**EU Contribution: EUR 1,080,000**



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## Mission

The SealedGRID project aims at developing and implementing a scalable, highly trusted, and interoperable Smart Grid security platform.

## Motivation

The power grid, which is a vital economic and social infrastructure, will be exposed to security threats inherited from the Information and Communications Technology sector, while privacy issues and new vulnerabilities, related to the specific characteristics of the Smart Grid infrastructure, will emerge. The problem is assessed as crucial, if we consider that a potential attack to the Smart Grid may lead to cascading failures, ranging from destruction of other interconnected critical infrastructures (e.g. gas, water, and transportation) to loss of human lives.

## Approach

SealedGRID will design and implement an innovative platform of high and state-of-the-art security methodologies, such as:

- Key Management
- Encryption
- Signature
- Blockchain
- Attribute-Based Authorization Policy
- Remote Attestation Mechanism



## Main Goals

[1] Provide advanced security features in legacy equipment.



[2] Limit the security risks for the expansion of remote energy distribution network management.



[3] Provide an integrated solution that will be applicable to existing system (like SCADA).



[4] Provide a platform that will be utilized directly by the shareholders to provide new tools.



## Standardization

SealedGRID will provide a platform that will abide by the existing standardization work.

## Contact Information

### Project Coordinator

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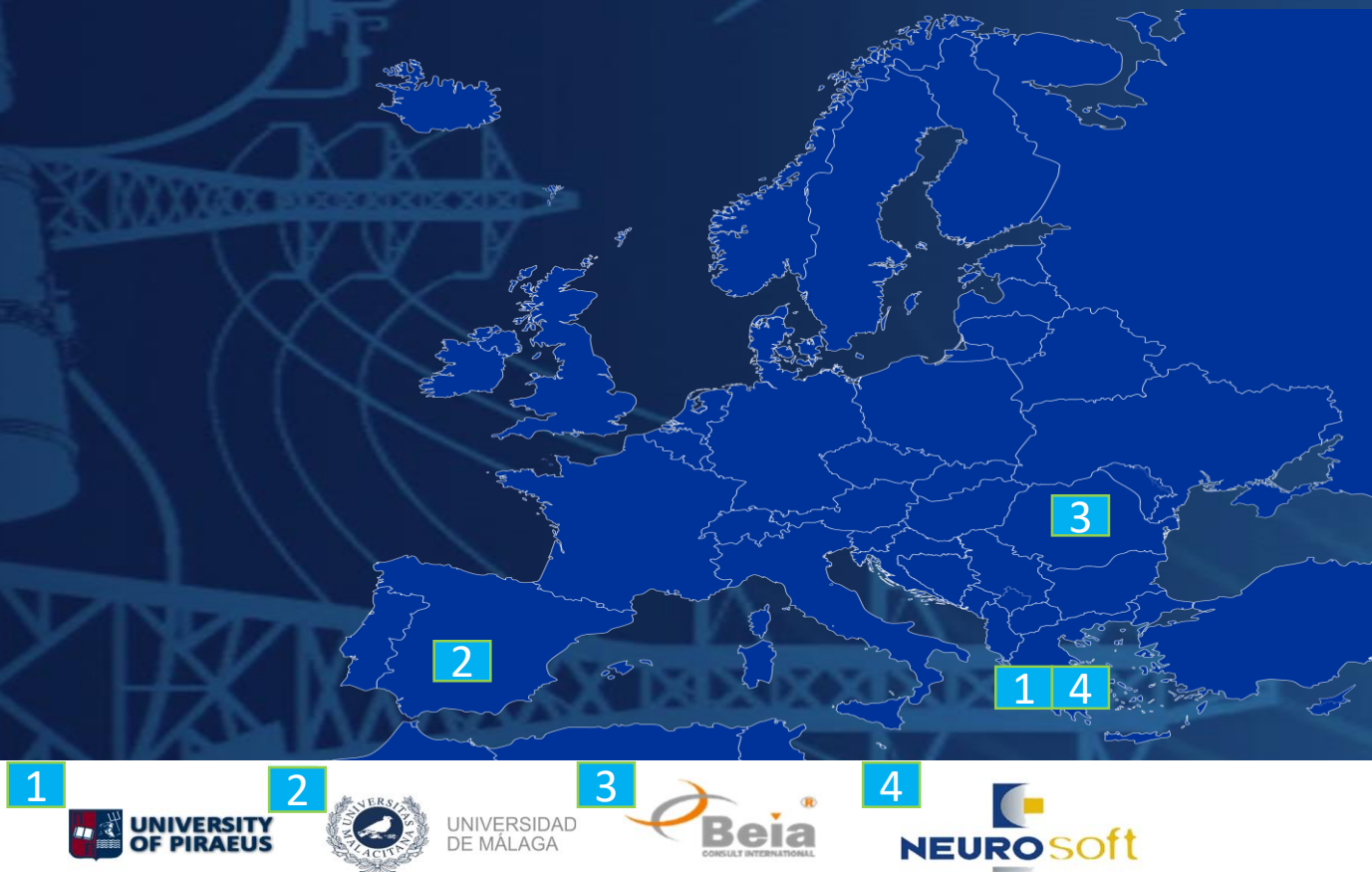
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## Consortium

The SealedGRID consortium consists of 4 highly qualified academic and industrial partners from a wide variety of backgrounds and from 3 different countries (Greece, Spain, Romania):



For more information, please visit <https://www.sgrid.eu>



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