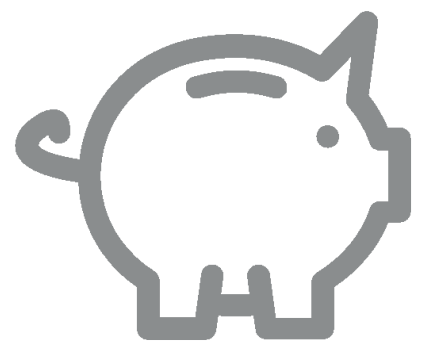




## Interoperable solutions for implementing holistic FLEXibility services in the distribution GRID



[www.flexigrid-h2020.eu](http://www.flexigrid-h2020.eu)



**budget**  
**8.541.073 €**



**duration**  
**48 MONTHS**



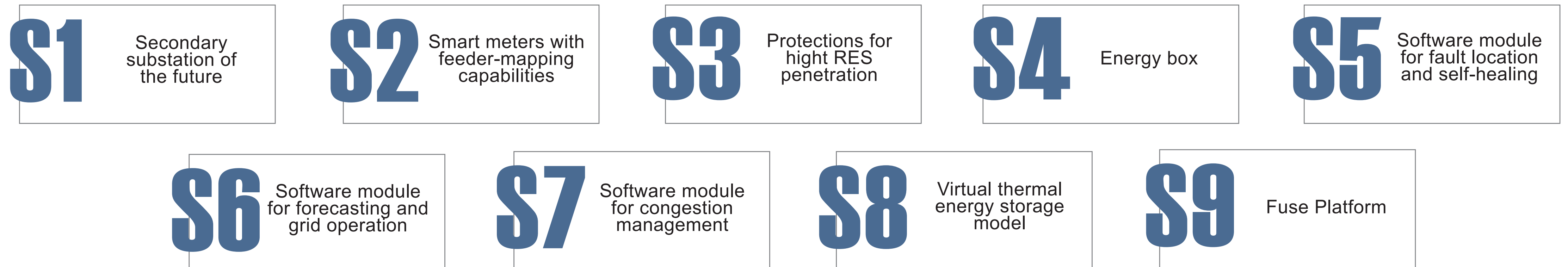
**n° of partners**  
**15**

The **main goal** of FLEXIGRID is to allow the distribution grid to operate in a secure and stable manner when a **large share of variable generation electricity sources** is connected to low and medium voltage grids.

To do so, FLEXIGRID proposes a three-level approach aiming at **(1) Flexibility, (2) Reliability, and (3) Economic Efficiency** through the development of innovative hardware and software solutions.

These solutions will be demonstrated in **four Demo-Sites** across Europe ensuring their interoperability through its integration into an open source platform able to harmonize the data flow between FLEXIGRID solutions and the real grid.

### SOLUTIONS, USE CASES AND DEMO SITES



#### DEMO 1. SPAIN



**UC 1** Secondary Substation upgrading for higher grid automation and control

**S1**  
**S2**  
**S4**  
**S5**  
**S6**

**UC 2** Protections functions operating with large RES share penetration in the distribution grid

**S3**

#### DEMO 3. CROATIA



**UC 5** Coordinating distribution network flexibility assets & protections schemes in urban districts

**S3**  
**S5**  
**S7**

**UC 6** Virtual Energy Storage for urban building

**S6**  
**S8**

#### DEMO 2. GREECE



**UC 3** Holistic energy system optimization & emulation for commercial and residential customers

**S4**  
**S6**

**UC 4** Microgrid congestion management and peak shaving

**S7**

#### DEMO 4. ITALY



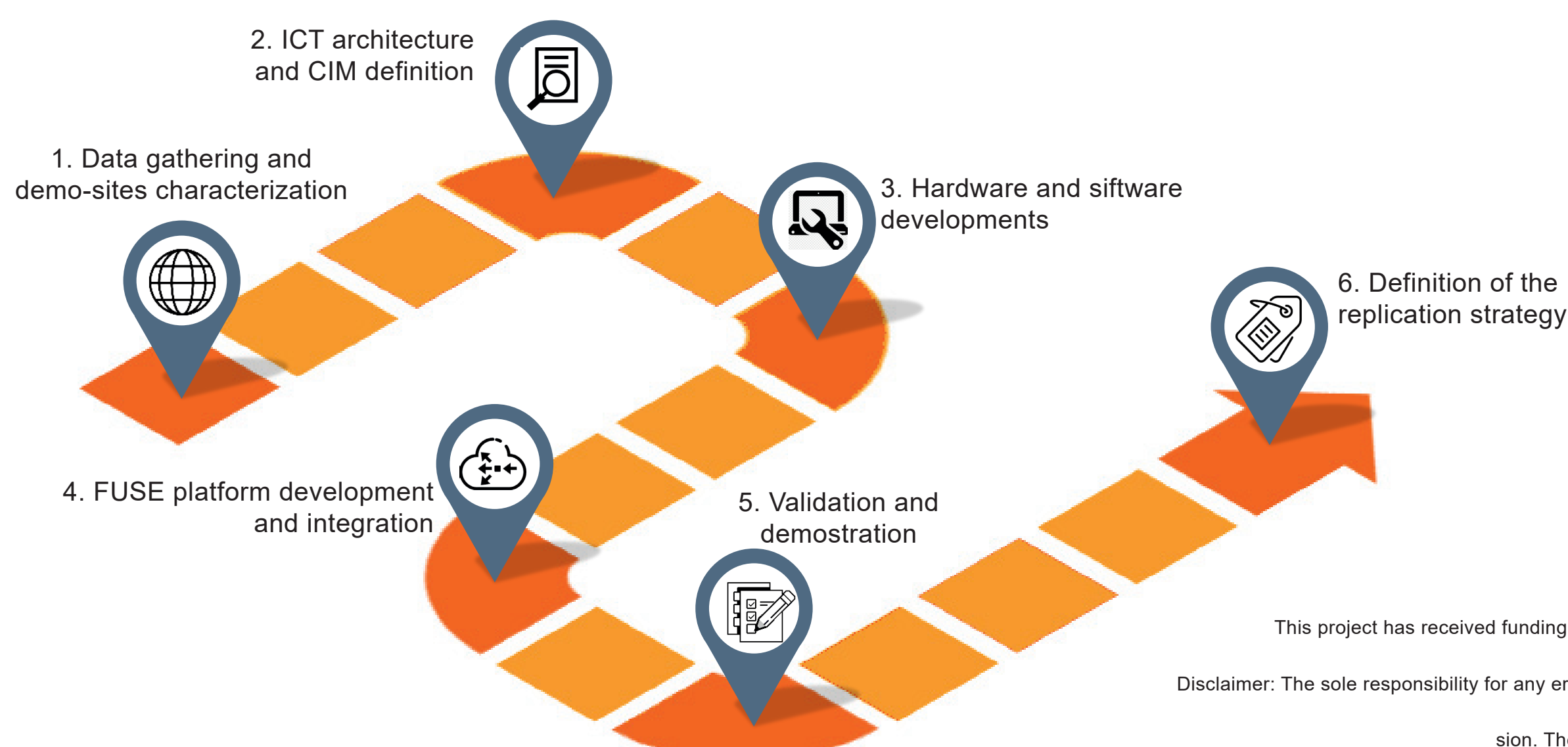
**UC 7** Dispatching platform for MV generation

**S1**  
**S2**  
**S4**  
**S6**

**UC 8** Mountainous valley grid operating in island mode

**S5**

### OVERALL METHODOLOGY

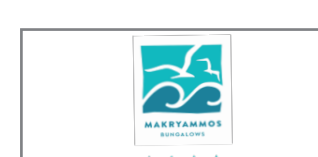


### PARTNERS

#### Technology developers



#### Demo-sites



#### Transversal



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 864579.

Disclaimer: The sole responsibility for any error or omissions lies with the editor. The content does not necessarily reflect the opinion of the European Commission. The European Commission is also not responsible for any use that may be made of the information contained herein.

