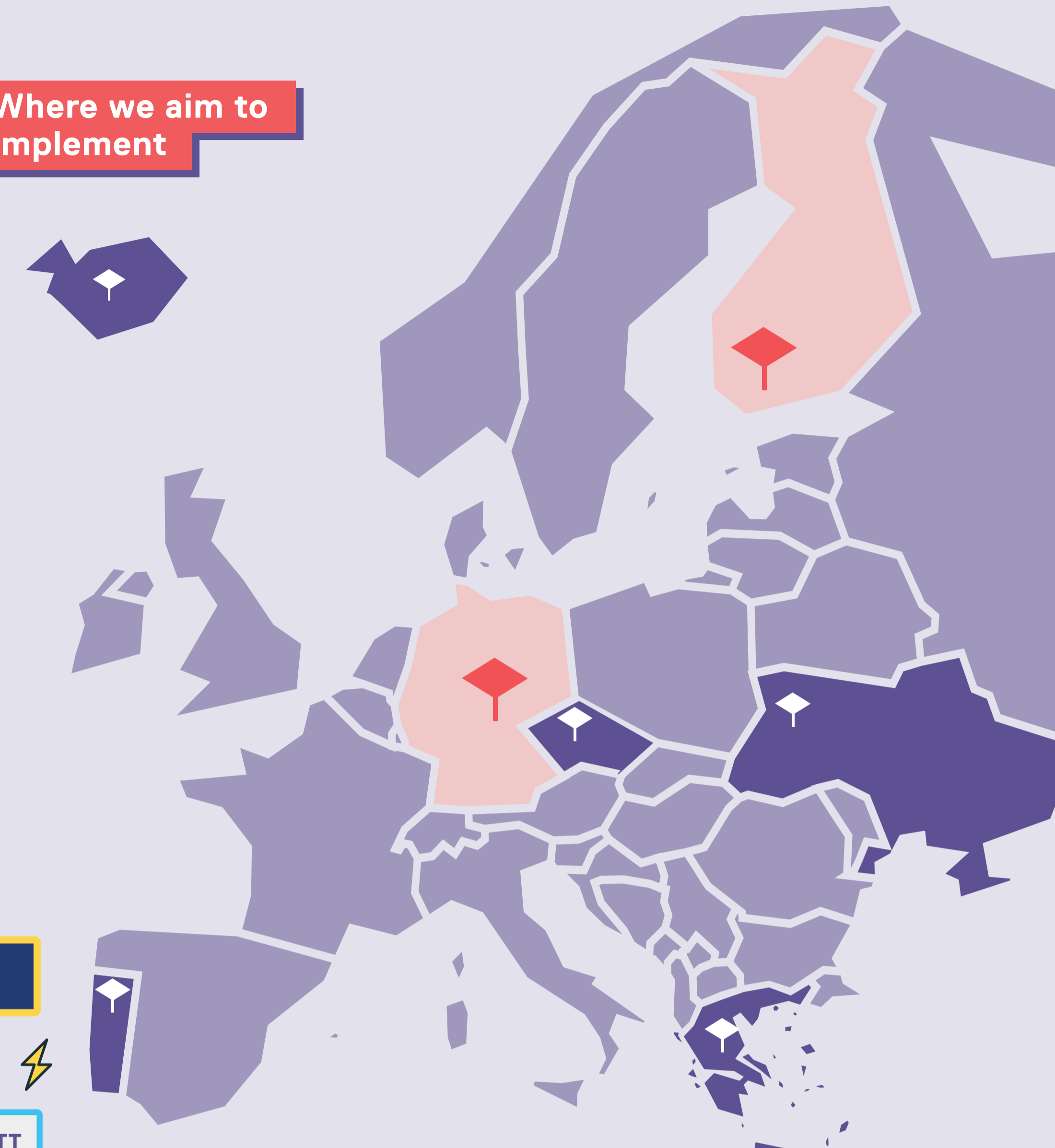


SPARCS



SPARCS targets to tackle the multifaceted challenges that cities are called to solve by creating the ecosystems necessary for the urban energy transformation in cities towards a citizens inclusive Sustainable energy Positive & zero cARbon Communities.

Where we aim to implement



How we aim to do it

BUILDING BLOCK LEVEL INTERVENTIONS - LIGHTHOUSE CITIES

- RES integration
- Energy storage
- Buildings as prosumers
- 2G EV charging stations for advanced control and services
- Predictive building control strategies, load shifting, user-centric apps
- Shared RES ownership, participation in alternative markets

DISTRICT LEVEL INTERVENTIONS

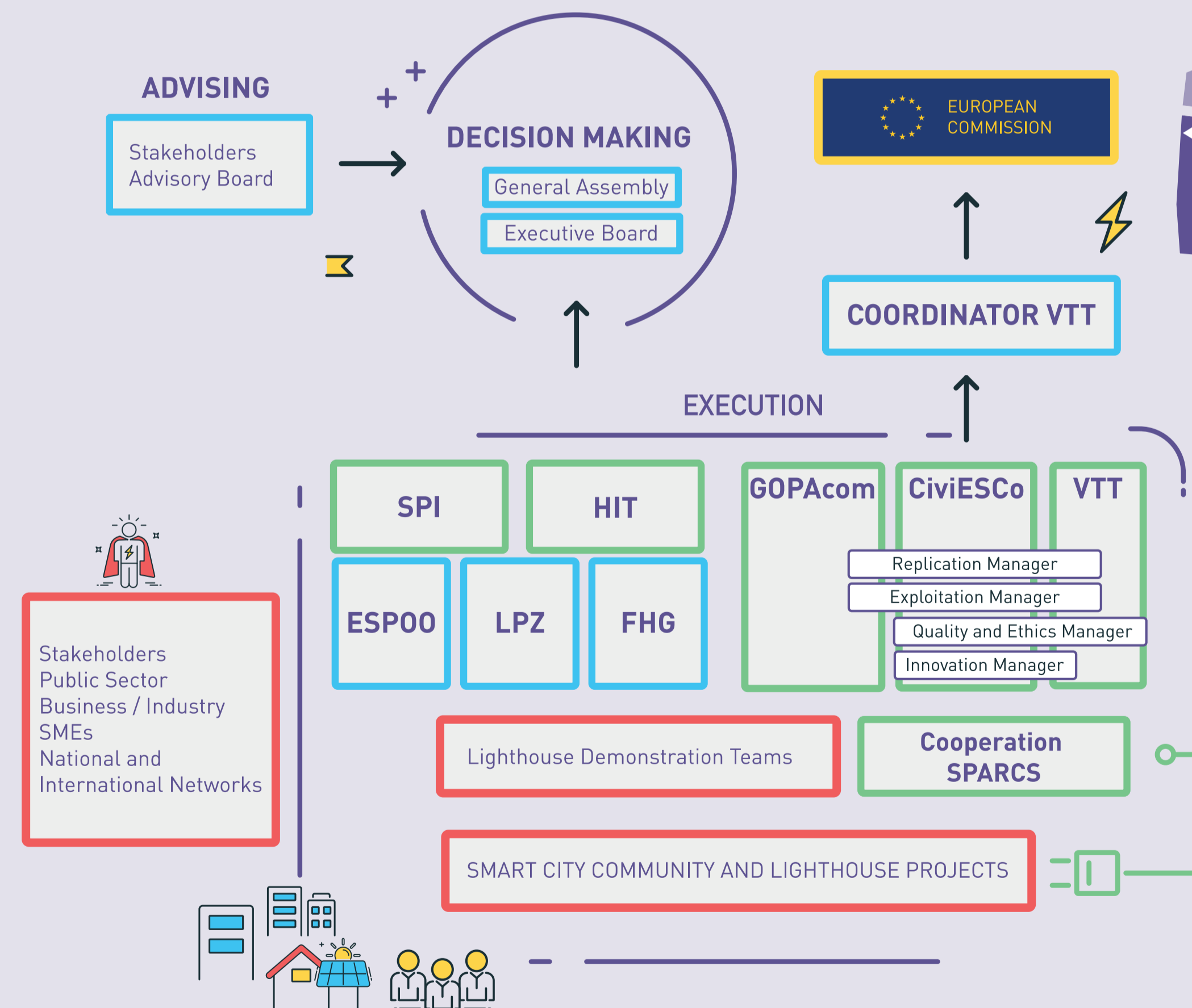
- Bidirectional district energy infrastructure, virtual power plant
- District energy storage
- EV sharing, last E-mile strategy
- User-centric platform, virtual energy community
- AI prediction of energy demand, people flow prediction, EV peak load control
- Peer-to-peer energy marketplace

MACRO LEVEL INTERVENTIONS

- Positive Energy District strategy in urban planning
- Fostering EV uptake through urban planning
- Innovation ecosystem hub
- Regulations
- Energy community platforms, integrated GIS service for urban planning
- Urban transformation financing & governance models

Who aims to implement it

SPARCS brings together a wide expertise group that deploy together integrated solutions for Energy Positive Building Blocks and Districts in the lighthouse cities.



- Lighthouse cities**
 - ESPOO
 - LEIPZIG
- Fellow cities**
 - MAIA
 - KIFISSIA
 - REYKJAVÍK
 - KLADNO
 - LVIV

