



## FEDERATED - "SYSTEM OF SYSTEMS" - APPROACH FOR FLEXIBLE AND INTEROPERABLE ENERGY COMMUNITIES

FEDECOM is a 48 months EU Horizon Europe funded project started on October 1st, 2022. FEDECOM is developing the technical and business ecosystem to demonstrate the advantages of energy sector coupling across European energy communities. Integrating the local energy systems across the federation of communities will bring economic benefits, improve grid stability and reliability, as well as reduce the overall carbon footprint.

### OBJECTIVES

- Deploying a cloud-based solution for sector coupling, distributed generation and storage, high flexibility management and improvement of RES hosting up to 40%.
- Validating the solution in three pilots across diverse technical, market and climate contexts to demonstrate grid resilience, optimised local operations and unlocking at least 30% of demand side flexibility.
- Developing plans for the large-scale replication of the solution in three follower communities with a focus on impact assessment.
- Evaluating impacts on OPEX, CAPEX and overall value creation.

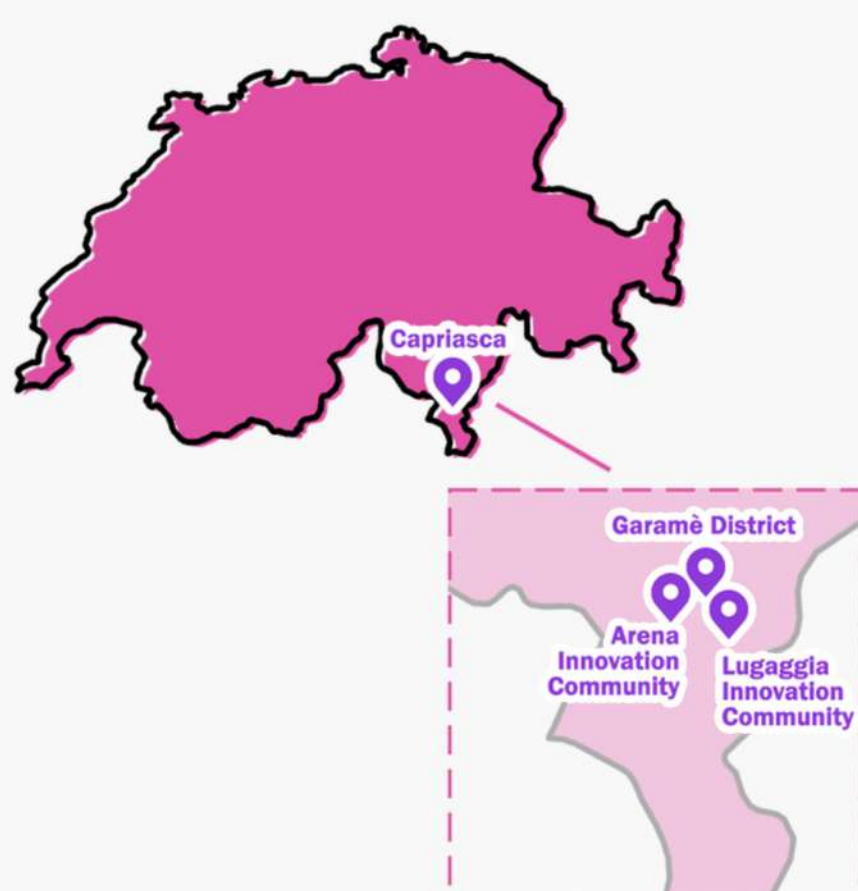


### PILOTS

#### Virtual Green H2 Federation Spain



#### Residential Hydropower Federation Swiss



#### Cross-country e-Mobility Federation Benelux / Netherlands



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