2

HIGH-LEVEL USE CASES

DRIMPAC will develop the ICT infrastructure to enable services and devices interoperability among energy market stakeholders and small to medium size prosumers for:

- **Implicit Demand Response** services based on day-ahead dynamic tariffs (load shifting)
- **Explicit Demand Response** services (load shedding or generation curtailment)

3

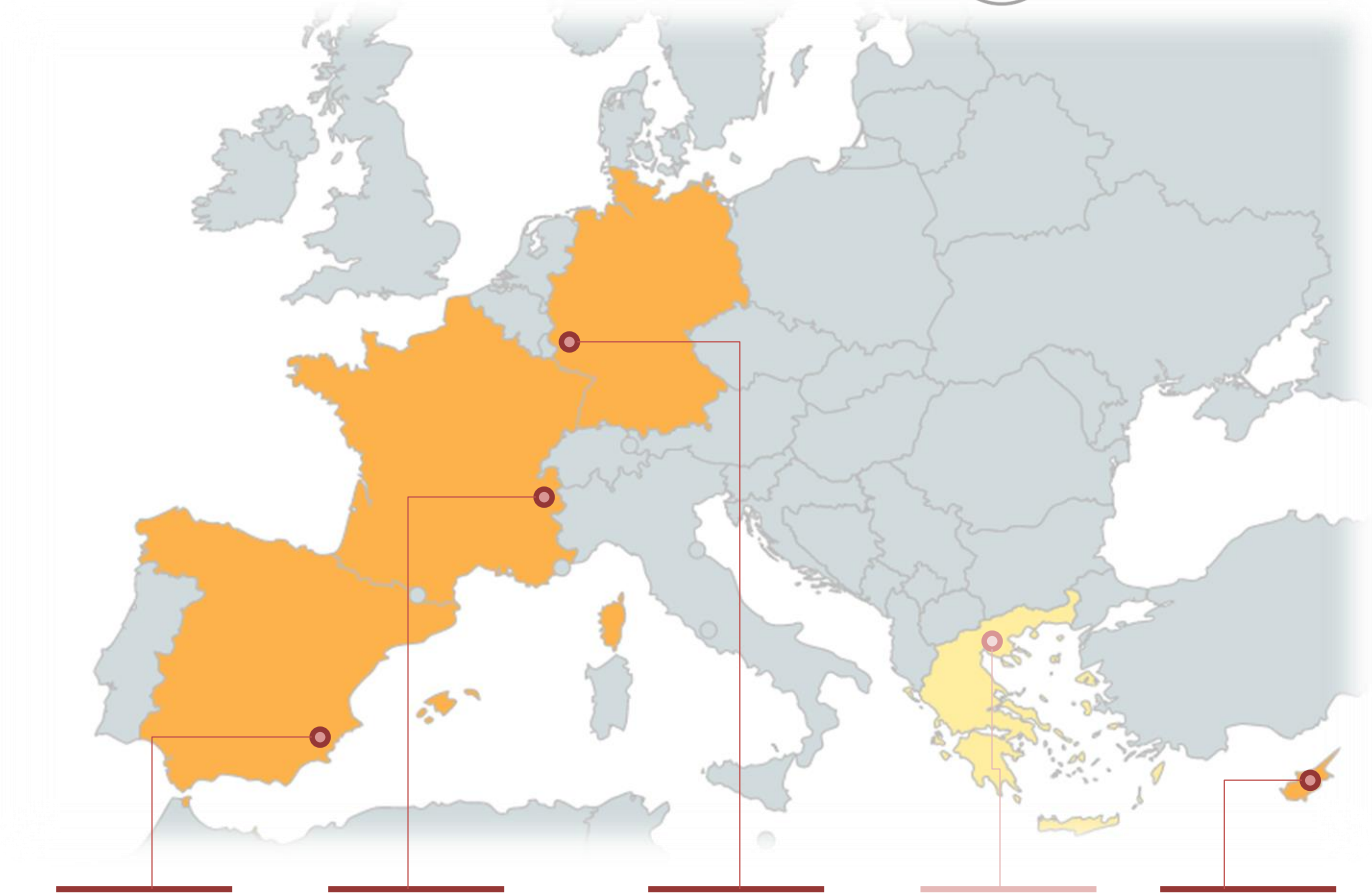
FLEXIBILITY RESOURCES

RESIDENTIAL BUILDINGS - introducing demand response functionality to the "smart-home" environment.

TERTIARY BUILDINGS - achieving interoperability with all main building control & automation standards & protocols in the domain.

DISTRICT LEVEL ENERGY RESOURCES - facilitating proper and standards-compliant DER integration for district-level DR services.

PROJECT PILOTS



MURCIA, ES
2 Tertiary buildings
55 Residential apartments

St-JEAN de MAURIENNE, FR
SOREA office building
PV, Battery
2 residential buildings

TRIER, DE
24 Residential buildings (detached houses and apartment buildings)
2 Tertiary buildings

THESSALONIKI, GR
Pre-pilot testing
CERTH Smart House,
PV, Battery

NICOSIA, CY
Tertiary buildings
PV, Battery

DRIMPAC solution

OBJECTIVES

- Develop and deliver the DRIMPAC solution as an **interoperability TECHNOLOGICAL ENABLER for small prosumer Demand Response**
- Define innovative service offerings and **BUSINESS MODELS** for energy retailers
- **DEMONSTRATE AND VALIDATE** via piloting and market testing on real users

TARGET GROUPS

2

"**USER GROUP**" potential participants in the project pilot demonstration and validation activities aiming for 1000 active participants

"**STAKEHOLDER ECOSYSTEM**" market and industry stakeholders to enhance the exploitation potential of project outputs

11 Partners

8 Countries

Consortium

Information Technologies Institute

HYPERTECH INFORMATION TECHNOLOGY

FOSS Research Centre for Sustainable Energy

soreq

SWT energie. wasser. service.

MIW ENERGÍA

SIEMENS

STAM MASTERING EXCELLENCE

JRC EUROPEAN COMMISSION

KIT Karlsruher Institut für Technologie

e7 ENERGY INNOVATION ENGINEERING

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DRIMPAC

Unified Demand Response interoperability framework enabling market participation of active energy consumers

EU H2020 Energy Efficiency Innovation Action

September 2018 – August 2021

OUR CHALLENGE

CREATE GRID-TO-MARKET **COMMUNICATION SYSTEMS**

DEVELOP **INTEROPERABLE SMART Building EMS**

INCREASE THE OVERALL **ENERGY DEMAND FLEXIBILITY** OF BUILDINGS