

# SMART GATEWAY

## a RESOLVD key exploitable result



### DESCRIPTION

Gateway to measure power quality in the buildings or charging areas and communicates to 3rd party.

### DEVELOPER



### TARGET CUSTOMERS

DSO, Smart meter manufacturers, Charging stations.

### PROBLEM ADDRESSED

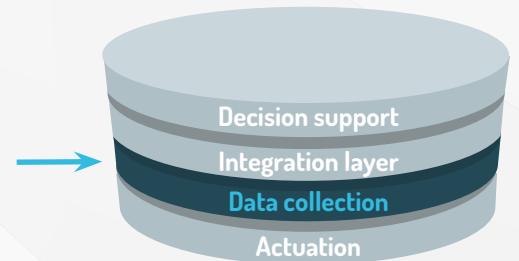
Complex integration of data-driven assets that need communication with 3rd parties to trigger services.

### VALUE PROPOSITION

The power quality monitor allows to measure meter information and translate it to services. It allows for communication with 3rd party services and trigger actions.

### EXPLOITATION AMBITION

COMSENSUS seeks a partnership with metering manufacturer of EV charger provider.



Where the Smart Gateway fits in the RESOLVD solution, see model on page 2





# RESOLVD

## Next generation LV grid management

### WHY IS THIS RELEVANT TO YOU?

The RESOLVD H2020 project is a 42 month Research & Innovation project that proposes hardware and software technologies that address European DSOs challenges in accommodating an increased presence of renewables in LV grids.

With the project now coming to a close, a consortium of leading institutions and technology developers have developed the next generation solutions to meet tomorrow's challenges and these are being tested in a real-life pilot in Catalonia, Spain.

### DSO CHALLENGES

Fault detection and self-healing

Low resolution grid observability

Congestion and voltage compliance

Uncontrolled islanding

Continuity of supply after fault

Power quality issues

Technical power losses

Cyber Security

Technical power losses

### THE RESOLVD SOLUTION

#### INTEGRATION LAYER

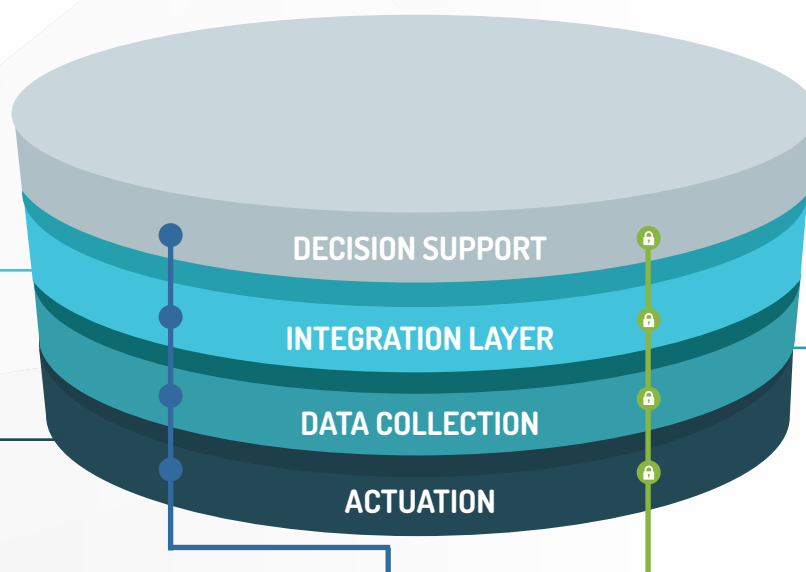
**Enterprise Service Bus (ESB) and Data Management Platform** - Integration middleware software that facilitates interaction among various software applications and manages data exchange, analytics and visualisation.

#### ACTUATION

**Power electronic device (PED)** Integrates multiple battery types and manages their dynamic energy and power flows.

#### CONTACT

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**RESOLVD BRINGS INNOVATION AND CYBER SECURITY IN THESE LAYERS**

#### DECISION SUPPORT

**Low-Voltage Distribution Decision support toolkit (LVD-DST)** - A suite of web services that provides enhanced energy monitoring and scheduling capabilities.

#### DATA COLLECTION

**Phasor measurement unit (PMU) & edge computing** - A wide area monitoring solution that provides increased observability of the LV grid & has edge computing capabilities  
**Smart Gateway** to measure power quality in the buildings or charging areas and communicates to 3rd party.

