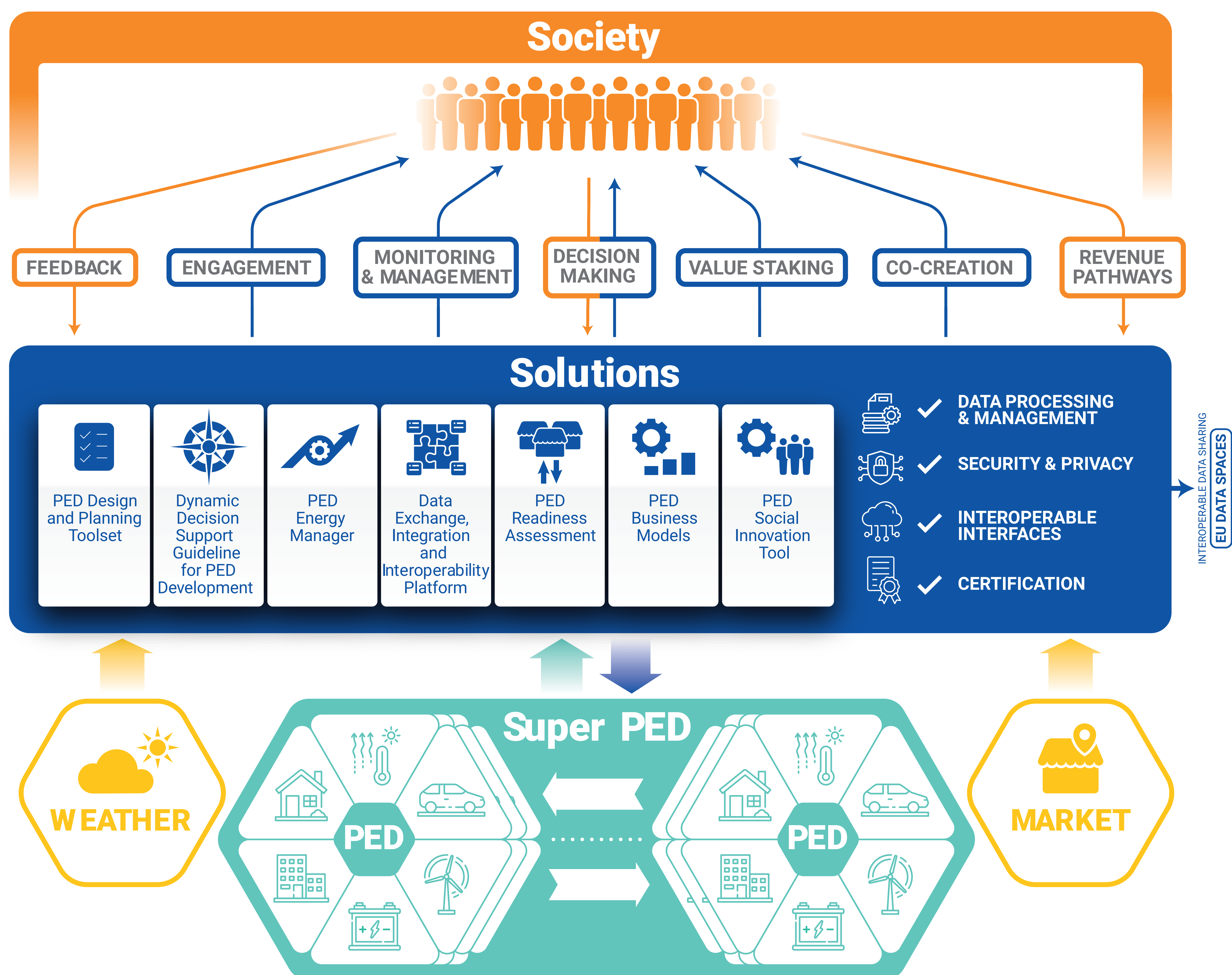




PEDvolution

Interoperable solutions to streamline Positive Energy District evolution and cross-sectoral integration



Accommodating the constant evolution of PEDs through the seamless integration of cross-vector resources

Evaluate and improve the ‘**PED Readiness Level**’ according to the four genes of the **PED genotype** (social, market, technology and interoperability aspects) and the **phenotype** (the set of observable characteristics of the PED resulting from the interaction of its genotype with the environment).

>20% overall PED readiness improvement strategy for reducing **PED design and engineering times (>25%)** and **costs (>20%)**

Improved planning process and modelling for addressing performance gaps in annual energy balance (>40%)

>100 energy data sources integrated, advancing data collection and mapping of existing but also prospective energy assets

Waste heat identification and recovery normalized by PED heat demand, cross-sector optimisation

100% of data exchanges compliant with open standards and protocols, enhanced interoperability achieved for **50% of co-developer PED assets**

Paving the way for cross-sectoral integration of ever-evolving PEDs

 **15 Partners**

 **4 303 393.34€ EU Budget**

 **3 Implementation Phases**

 **7 Countries**

 **36 Months**

 **3 PEDs + 3 PEDs from open call**

 Open call process for additional PEDvolution demonstration partner sites

 Duration: **01/01/2024 – 31/12/2026**

PED co-Developer Demonstrators



Schönbrunn village Wunsiedel, Germany

- PED and Super-PED levels
- In operation
- 400 households & 9 businesses
- 1230 residents
- CHP & distributed PV production provide renewable electricity and heat



Residential neighbourhood Planina, Kranj, Slovenia

- In planning stage
- 4300 apartments & 40 businesses
- 1600 residents
- 2 hydropower plants, rooftop PVs, CHP with 5MW excess heat potential, eV charging stations



Gemeinschaft Hard, Winterthur, Switzerland

- In operation
- 45 apartments & 40 businesses
- 250 residents
- Solar plant & gas boiler generate heat
- Own electrical energy production with attached photovoltaic plant

PARTNERS



ASSOCIATED ENTITIES

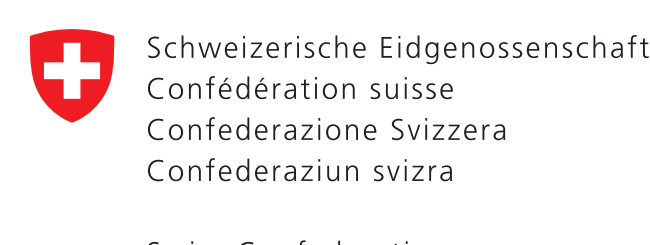


Stadt Winterthur 



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Swiss Confederation

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Education and Research EAFR
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Research and Innovation SERI

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