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# Gestión energética en las ciudades del futuro

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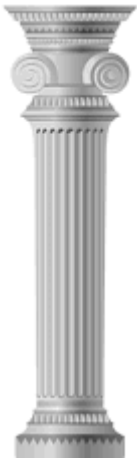
# Pillars of the proposal

Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse project

H2020-SCC-2015 (107kE)

DL = 05-05-2015 17:00:00

DER



ICT



Energy efficiency services



Sinergies with infraestructure & transport



Sinergies between thermal & electric



# Proposed approach

DSS: Decision Support System

EB: Energy Box

WSN: Wireless Sensor Network

S: Sensor

A: Actuator

RN: Remote Node

TC: Thermal Collector

ECU: Electronic Control Unit

VSC: Back to Back Voltage Source

Inv/Charger: Inverter & Charger

PV: Photovoltaic panels

SMCS: Smart City Communication System

HVAC: Heat Ventilating Air Conditioning

HP: Heat Pump

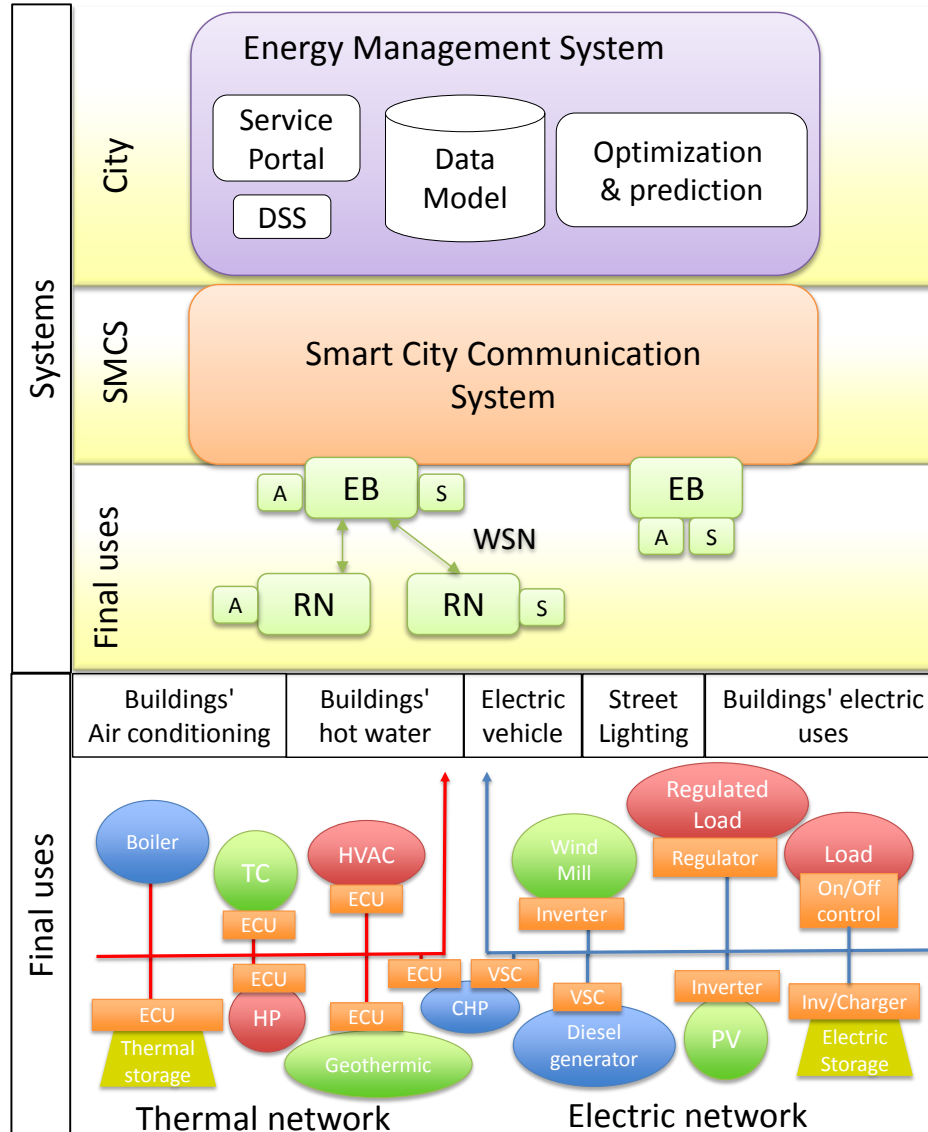
CHP: Combined Heat & Power

Electronic device

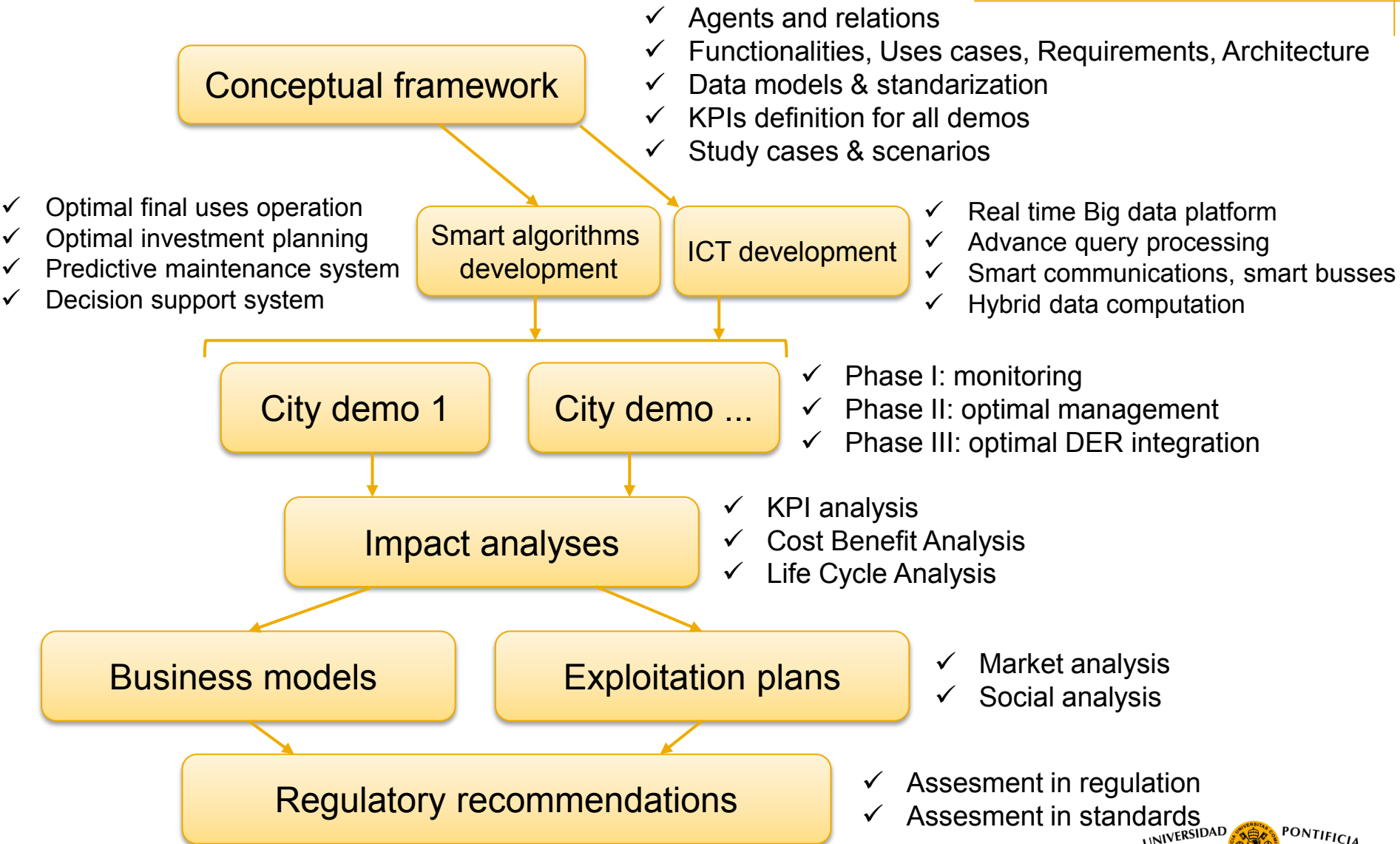
Generator

Renewable generator

Electric Load



# Suggested project structure



# Expected impacts

- 15% of energy consumption reduction
- 25% of energy bill reduction
- 20% of CO2 emissions reduction
- Reduce city pollution