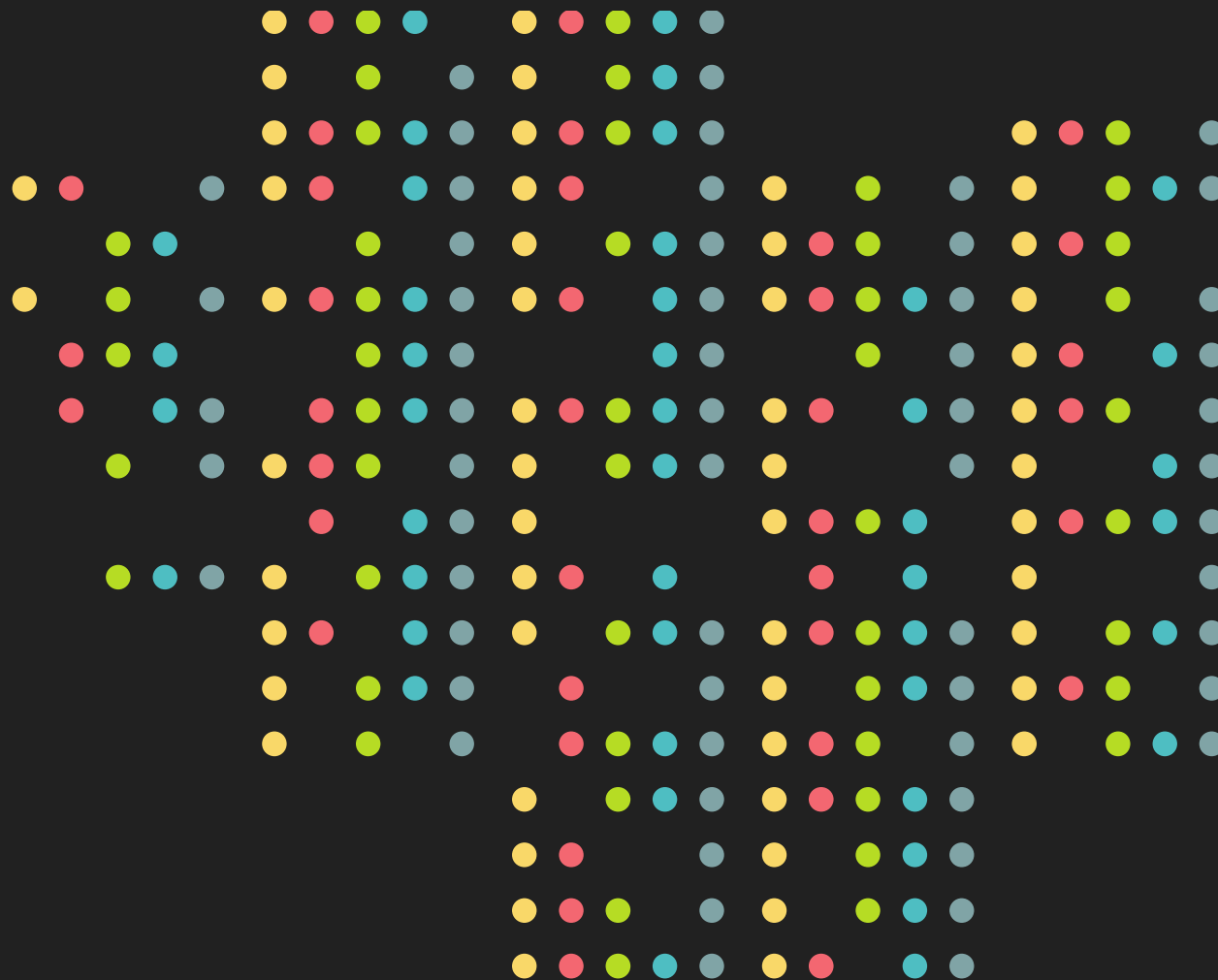


POCITYF

*Leading the smart evolution of
historical cities*

Smart Cities Tour 2020, November 11th

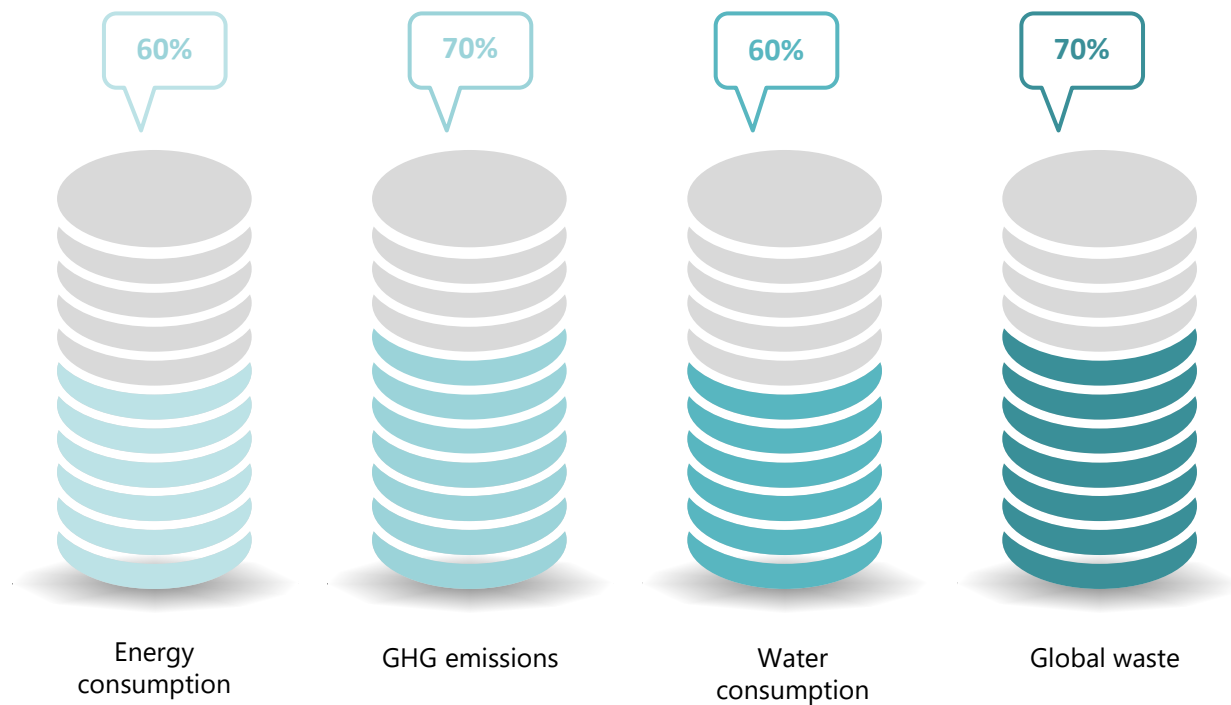


Around 100 persons have gathered in Évora in October 2019, to reply to one question...

How to make cities more sustainable?



Cities are pivotal to a successful energy transition

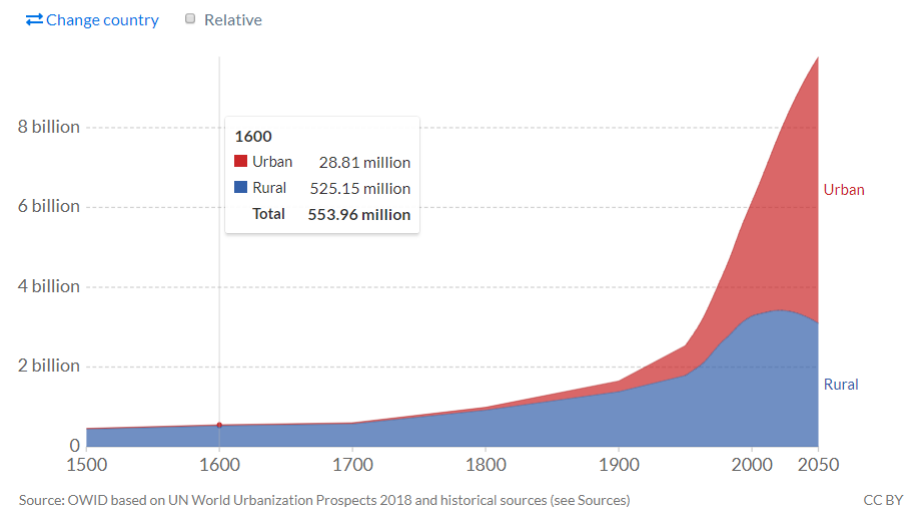


Source: UN – The New Urban Agenda III

Urban and rural population projected to 2050, World, 1500 to 2050

Total urban and rural population, given as estimates to 2016, and UN projections to 2050. Projections are based on the UN World Urbanization Prospects and its median fertility scenario.

Our World
in Data



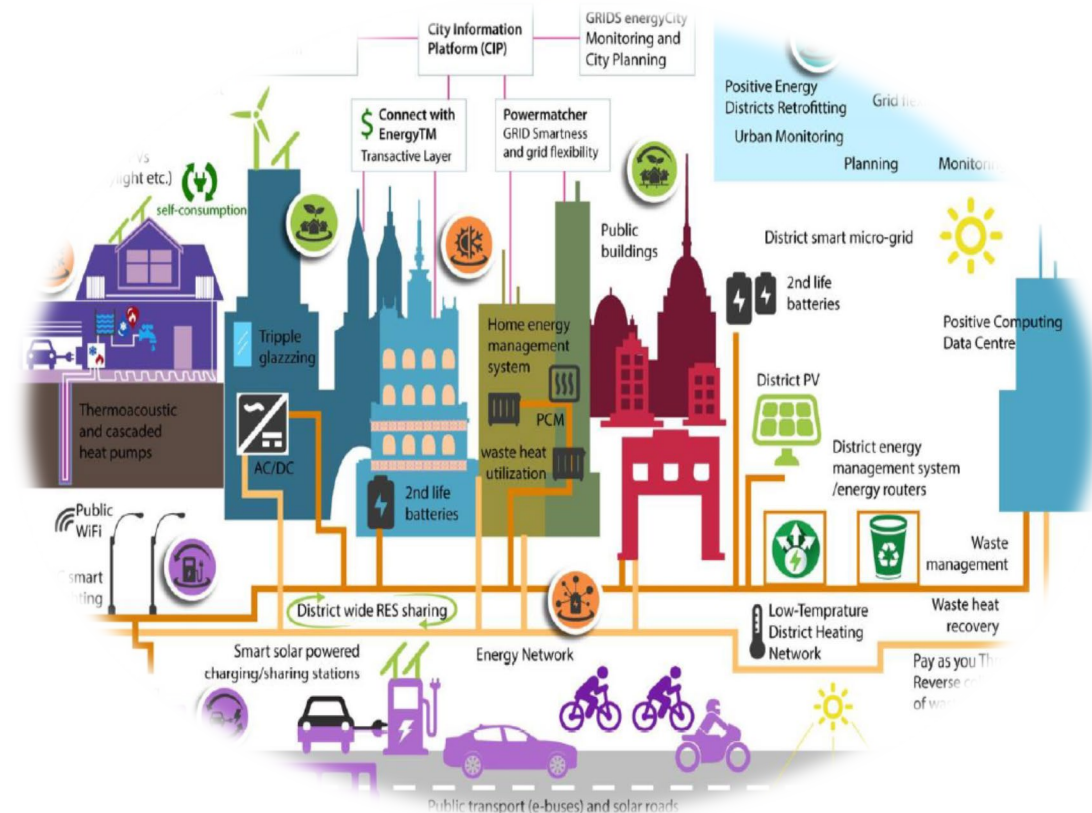
CC BY

POCITYF – *Leading the smart evolution of heritage sites ...*

Deliver a set of **Positive Energy Blocks**

Emphasis on **cultural and historical protected areas**: inclusiveness, sustainability and resilience

Improve, in a **sustainable and citizen-driven manner**, citizens' **wellbeing**.



... in 8 cities across Europe



- ❖ 46 partners
- ❖ 13 European countries
- ❖ Led by EDP NEW

Focus on historical cities

- ❖ Legal barriers
- ❖ Replication potential
- ❖ New life to historic centres:



- ❖ Budget: 22,5M€
- ❖ Grant: 20M€



❖ 5 years' project



Lighthouse cities



Évora



Alkmaar

Fellow cities



Bari



Celje



Granada



Hvidovre

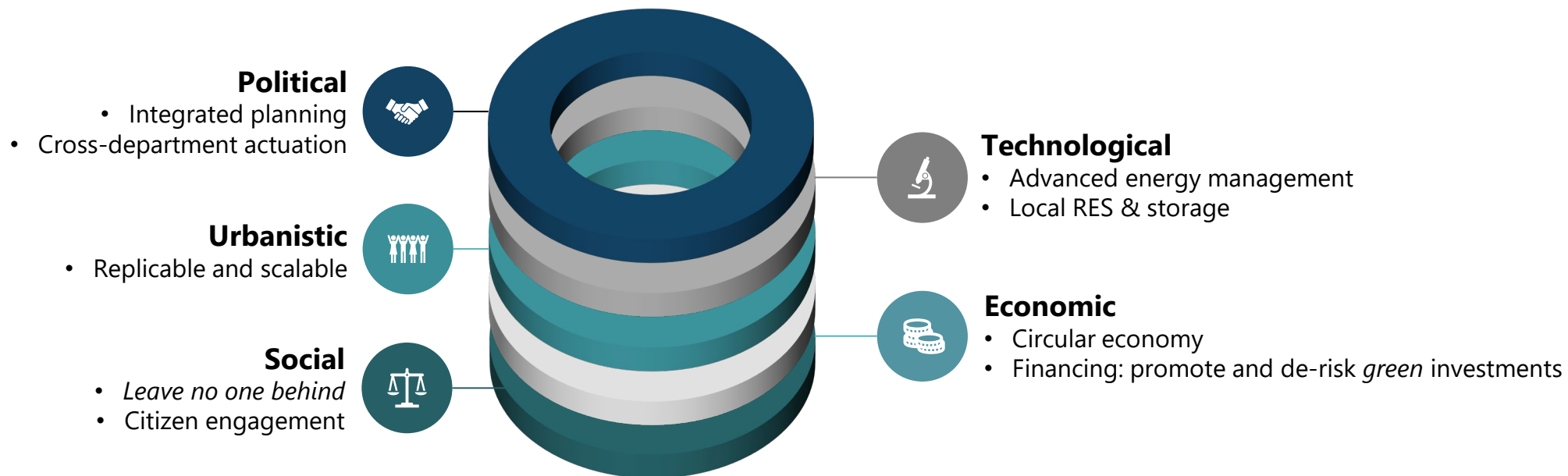


Ioannina



Ujpest

Positive Energy Blocks: *an integrated and multidisciplinary concept...*



Évora Lighthouse City ecosystem

- ❖ PEB1: Évora city centre
- ❖ PEB2: Valverde
- ❖ PEB3: Industrial/commercial area



Alkmaar Lighthouse City ecosystem

- ❖ PEB1: typical urban periphery

... implemented via 4 groups of solutions

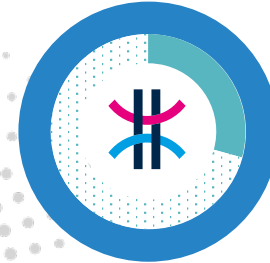
Positive Energy Buildings & Districts

- ❖ Renewables and energy management
- ❖ Retrofitting



Flexible infrastructure

- ❖ Flexible grids & buildings
- ❖ Sustainable district heating and cooling



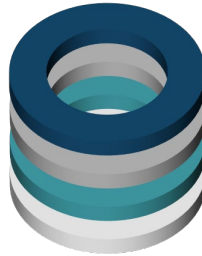
Citizen-driven social innovation

- ❖ Interoperable and interconnected city
- ❖ Citizen engagement & co-creation

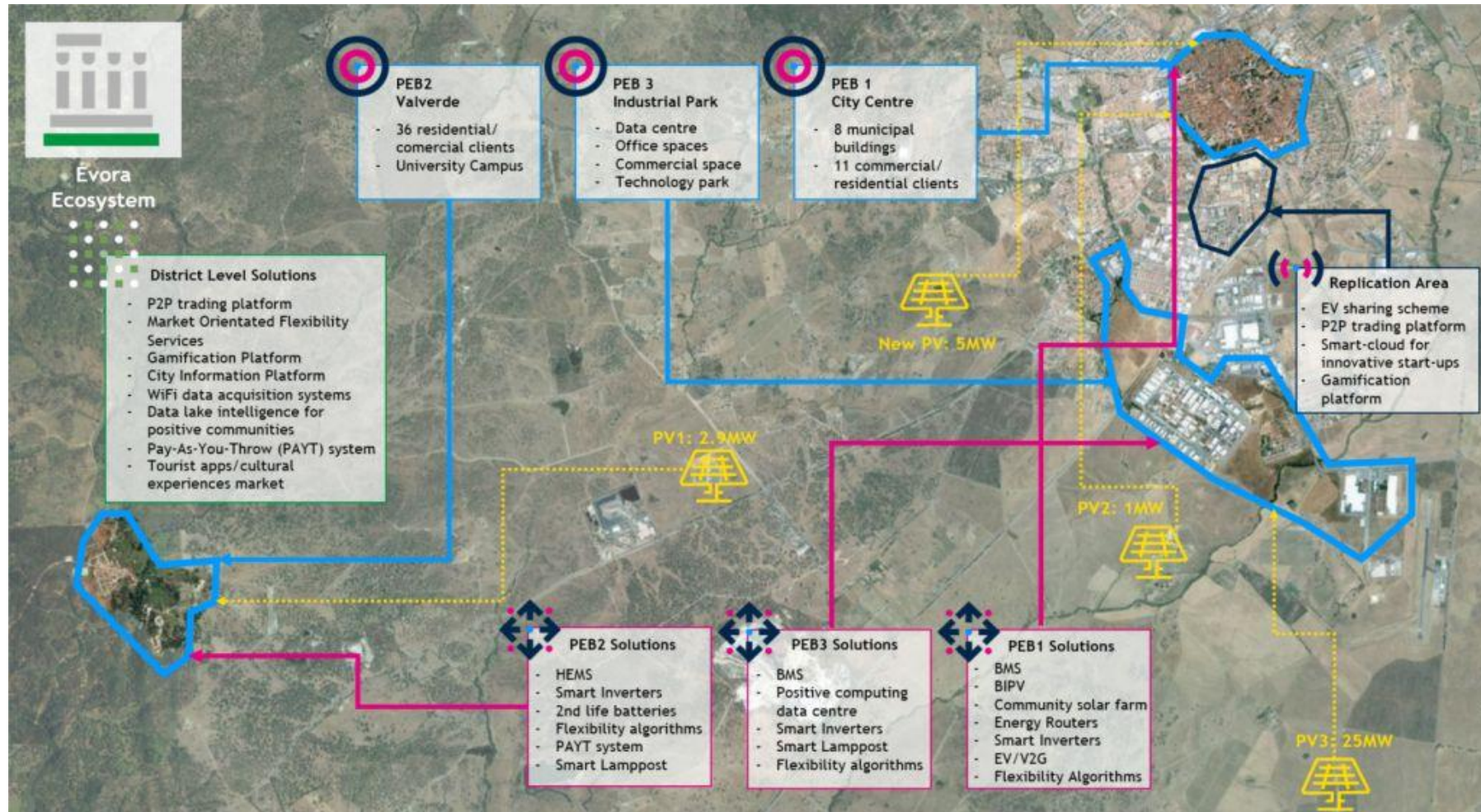


eMobility

- ❖ Smart charging & V2G
- ❖ Mobility-as-a-Service



Évora demonstration ecosystem



P2P platform: *sharing economy in the energy domain*

01

P2P Transactive Layer and Rewarding Mechanisms

- ❖ Direct energy trading between participants
- ❖ Participants will earn project-specific tokens acquired via sustainable behaviours

02

Social Innovation – Save and Donate

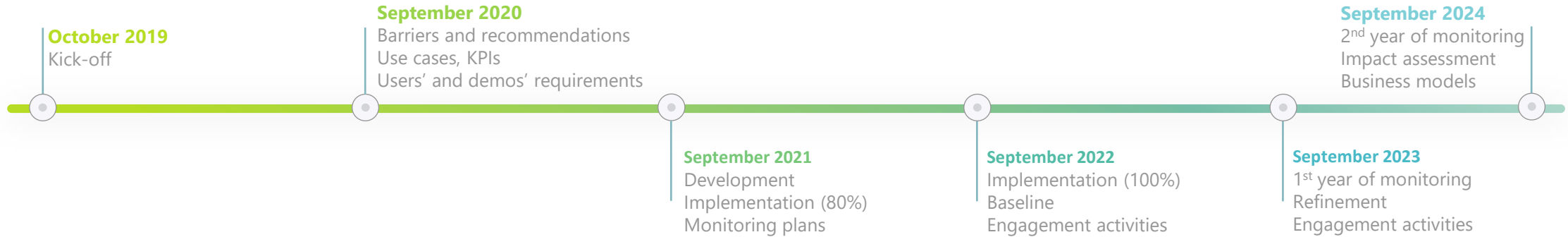
- ❖ Citizens' empowerment by allowing them to publish campaigns and donate euros/tokens to alleviate energy poverty

03

Green Economy

- ❖ Creation of virtual energy wallets, endowing users with the ability to invest in a renewable energy project

Where are we?



PEBs are new for all and require adaptation from Municipalities, public and private entities ...

Tomorrow is too late: involve all stakeholders (public, private, citizens) since day 1...

People follow who they trust: Municipalities, local parishes, social institutions, NGOs have a key role to play

Solutions co-designed with end users / clients as a way to shorten the distance between what technologies and business models can achieve and what clients really want

Regulatory Sand Boxes with the involvement of law makers and regulators to effectively adopt special regimes with smaller administrative burden

edp new ...

