



2021PORTUGAL.EU

Summit

European Regions

for Smart Communities



SESSION: STRATEGY

POSITIVE ENERGY DISTRICTS & H2020 POCITYF

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EDP NEW

POSITIVE ENERGY COMMUNITIES' AREA LEADER



EDP NEW stands for R&D in energy, through international collaboration and competitive EU funding



Focus on R&D in Energy

- Core focus in the Energy Sector
- Create possibilities for the EDP Group
... towards the energy transition



Sustainable growing operation

- Financial sustainability
- Sustainable growth
- 30 Researchers as of today



The H2020 Company

- Key player in Portugal for Energy in H2020
- Activity in EU R&D scene
- “Place to go” for H2020, Green Deal, Horizon EU, etc.



Foster strategic partnerships

- R&D cooperation with EDP/CTG Business Units
- External Innovation Ecosystem including Universities, R&D, Industry, Technology, etc.



Knowledge consolidation & transfer

- Knowledge teams
- Catalyst for technical experts for EDP
- Knowledge exchange initiatives with EDP/community



Pursuing several opportunities on energy communities, smart cities, smart buildings

POCITYF

Lead the smart evolution of historical cities

Create a set of Positive Energy Blocks, transforming cities' mixed-urban environments, with a strong emphasis on cultural and historical protected areas, into more inclusive and sustainable spaces. Demos in Évora (PT) and Alkmaar (NL)

Budget | 20M€

Timeline | Oct 19 – Sep 24

Consortium | 46 partners

EDP NEW is the project coordinator



AmBIENCE

Extend the concept of EPC to active buildings and flexibility use

Demo in Porto EDP building

Budget | 2M€ Timeline | Jun19-Nov21

Consortium | 7 partners



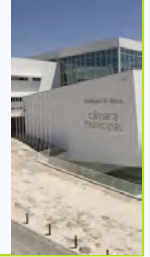
SATO

Self-assessment & optimization of building energy

Integrate Re:dy with SATO Platform

Budget | 7M€ Timeline | Oct20-Sep23

Consortium | 16 partners



Sharing Cities

Make smart cities a reality: a new framework for citizen engagement

Demonstrate SEMS in Lisbon Town Hall

Budget | 25M€ Timeline | Jan16-Dec20

Consortium | 35 partners



SPARCS

Create a network of sustainable communities and cities

Assist Maia in the replication activities

Budget | 20M€ Timeline | Oct19-Sep24

Consortium | 31 partners

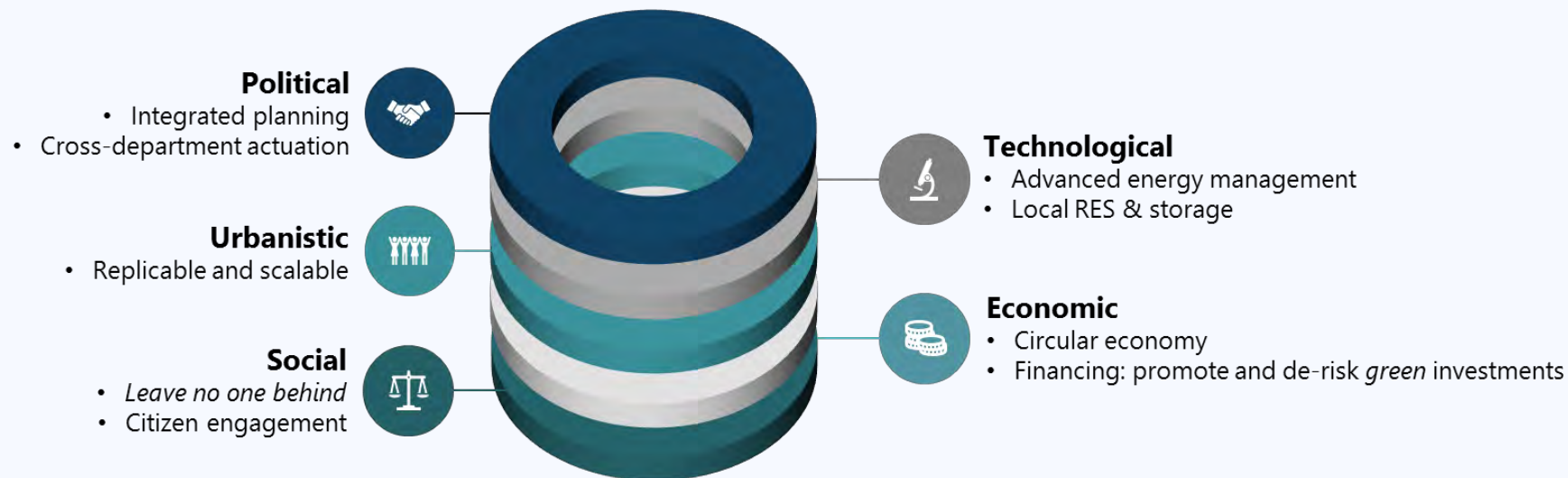


Another coordination starting by September 2021

Working towards Horizon Europe opportunities....




Positive Energy Districts: an integrated and multidisciplinary concept



POCITYF: *Leading the smart evolution of historical cities*



 This project has received funding from the European Union's Horizon 2020 research and Innovation programme under grant agreement N° 864400.



- ❖ 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



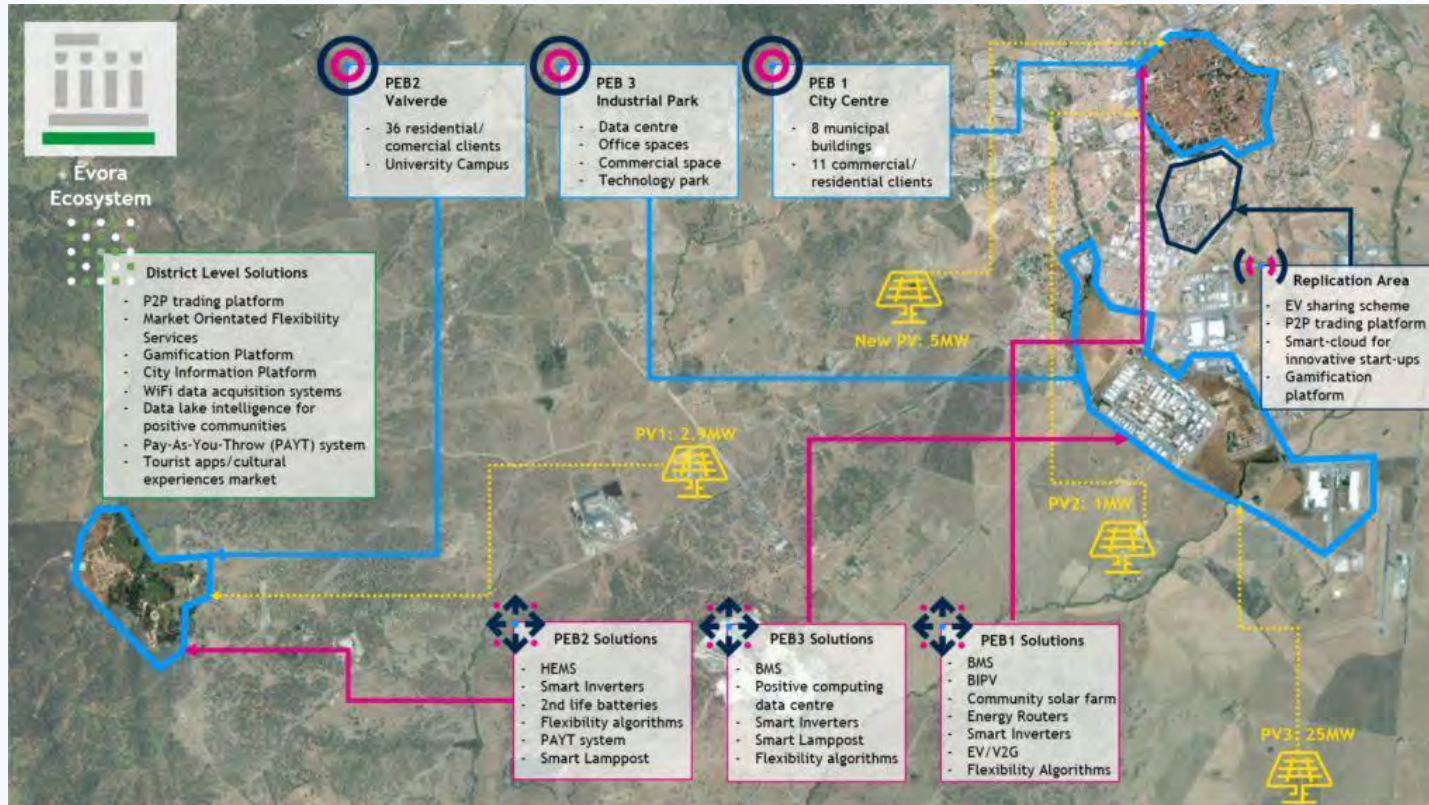
Ioannina



Ujpest



POCITYF: Évora demonstration map



Main Highlights

- 3 demonstration blocks
- 4 groups of solutions: positive energy buildings; eMobility; storage and flexibility; and social innovation
- Several district-level solutions, oriented to provide the Municipality and citizens with a holistic vision of the city

Challenges

- PEB1 (City Centre) poses significant challenges due to stringent regulatory framework
- COVID-19 implications on field work and citizen engagement



POCITYF: Community Solar Farm

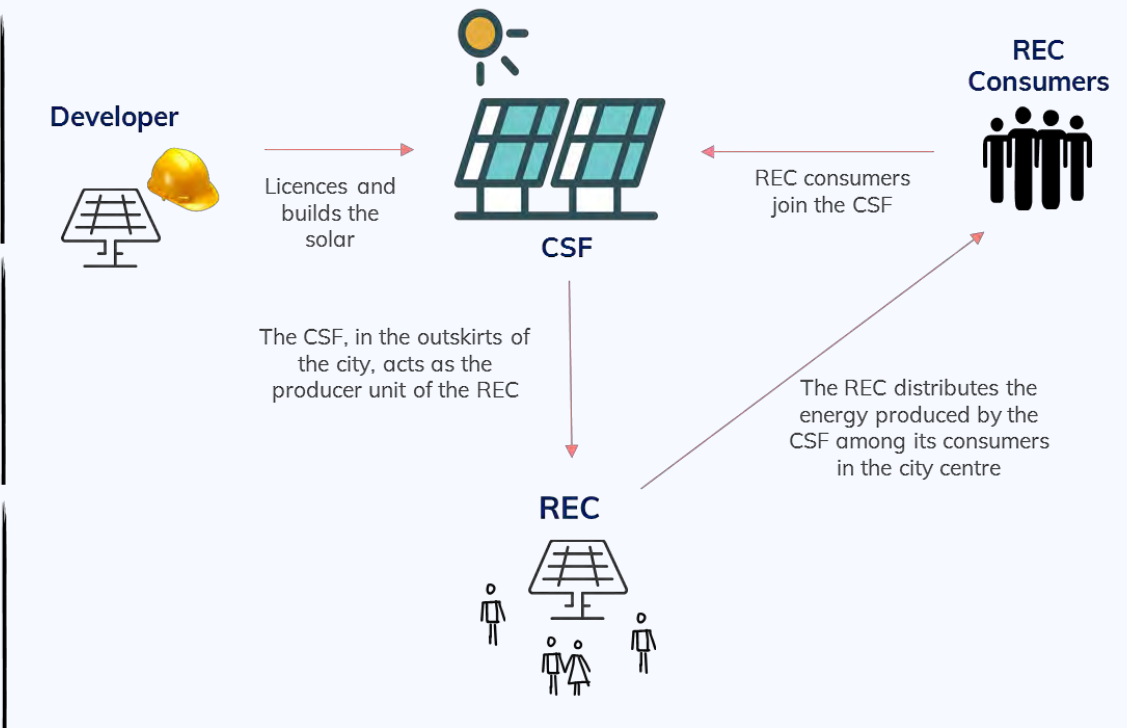
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Community Solar Farm (up to 5 MW)

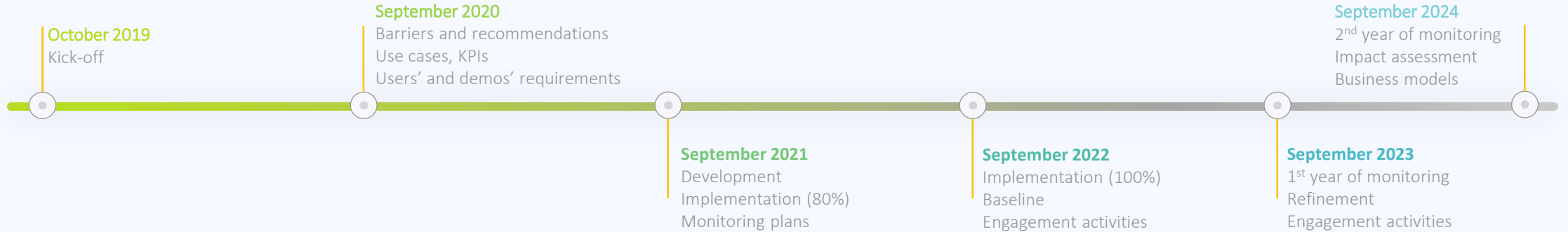
Allow citizens living in the protected areas to generate and consume renewable energy



- ❖ Conceive a strategy capable of deploying the CSF following the new PT legislation on Energy Renewables Communities (REC)
- ❖ Guarantee the attractiveness of the CSF business model capable of engaging the different stakeholders from Évora ecosystem



POCITYF: timeline and some lessons learnt



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

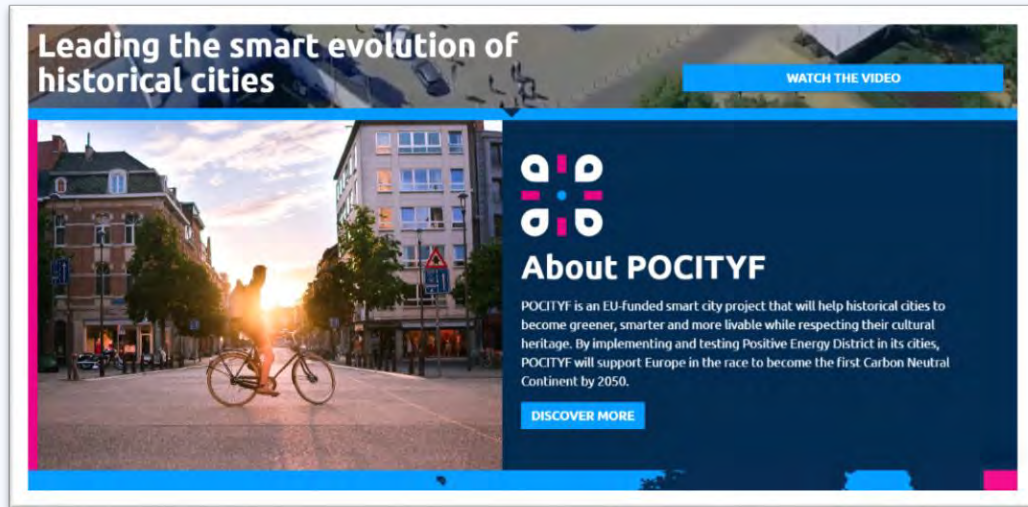
Solutions co-designed with end users / clients as a way to shorten the distance between what technologies and business models can achieve and what clients really want

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




Thank you!

www.pocityf.eu



Leading the smart evolution of historical cities

WATCH THE VIDEO



About POCITYF

POCITYF is an EU-funded smart city project that will help historical cities to become greener, smarter and more livable while respecting their cultural heritage. By implementing and testing Positive Energy District in its cities, POCITYF will support Europe in the race to become the first Carbon Neutral Continent by 2050.

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#H2020 #smartcity project delivering Positive Energy Districts in mixed urban areas. Évora • Alkmaar • Granada • Bari • Celje • Ujpest • Ioannina • Hvidovre

Joined September 2019





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