

ENERGY DISTRICT RENOVATION IN NAVARRA

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Architect in Innovation and Project financing area



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- Regional context
- From global to local
- EU Projects
- Lessons learned

1 REGIONAL CONTEXT

Concepts to be considered

REGIONAL CONTEXT



Population in Navarra: 654,214
Population in Pamplona: 326,540

Regional área: 10,421 km²

Municipalities: 272



NB-CT79

< 1950
19.5 %
55,237 dwel.

1950-1980
30.5 %
111,031 dwel.

< 1980
50 %
160,272 dwel.

RENOVATION IN NAVARRA



Navarra is a pioneering autonomous community in the area of renovation



Housing competencies since 1985



Since 1985 ORVEs Housing and Building Renovation Offices + Regional Office Network (managed by Nasuvinsa).



Exceptional legal and financial framework for Homeowners associations

GLOBAL INTERVENTION PROJECT (GIP)

Participatory
process

ENERGY REFURBISHMENT AT LARGE SCALE

The definition, through a **participatory process**, of the basic compositional and technical guidelines that favour the **energy refurbishment** of a building complex in an orderly manner, under homogeneous criteria of constructive and architectural quality.

It is required a Homeowners' association agreement.



GRANTS FOR THERMAL ENVELOPE TODAY

Homeowners' association

Navarra
Government

- 40% - 6,000 €/dwel,
no GIP
- 50% - 7,5000
€/dwel, GIP



Next Generation
Fund (PREE5000
2023)

- 13,300-
15,300€/dwel.

Maximun

- 20,800€/dwel.
- 22,800 €/dwel.



2 FROM GLOBAL TO LOCAL

What have we done during these years?



ONE-STOP-SHOP

Meeting point for all the stakeholders, specially citizenship

Management teams: to provide technical, financial and social financial and social to citizens in their area

Its function is to stimulate and encourage neighbourhood communities to promote an energy renovation project for their buildings.

Topics: energy efficiency and building refurbishment, district heating, renewable energy uptake and urban planning



THE PROCESS

Technical-economic model

District scale



- Municipalities
- One-stop-shop
- Preliminary studies
- Technical model
- Economic model

Reference project

Model adapted per building



- Citizen participation
- Agreements
- Reference project
- Works committee
- Monitoring

Projects

Reference project adapted per group of buildings



- Projects
- Private tender procedure
- Signed private contracts
- Applications for grants
- Starting of works

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EU PROJECTS

A long term path

EU PROJECTS



2009-2011	LOURDES reNOVE	
2014-2017	efidistrict	
2017-2021	efidistrict 2	
2017-2021	sustaiNavility	
2018-2020	LIFE NADAPTA	
2019-2023	LC Districts Interreg Europe	  Co-funded by the European Union
2021-2024	 PRIMAVERA	 European Investment Bank
2021-on going	 New European Bauhaus beautiful sustainable together 	
2021-on going	 Navarra Bauhaus beautiful sustainable together	
2023-on going	  Co-funded by the European Union InterRevita	  Co-funded by the European Union



Renewable Energy Sources

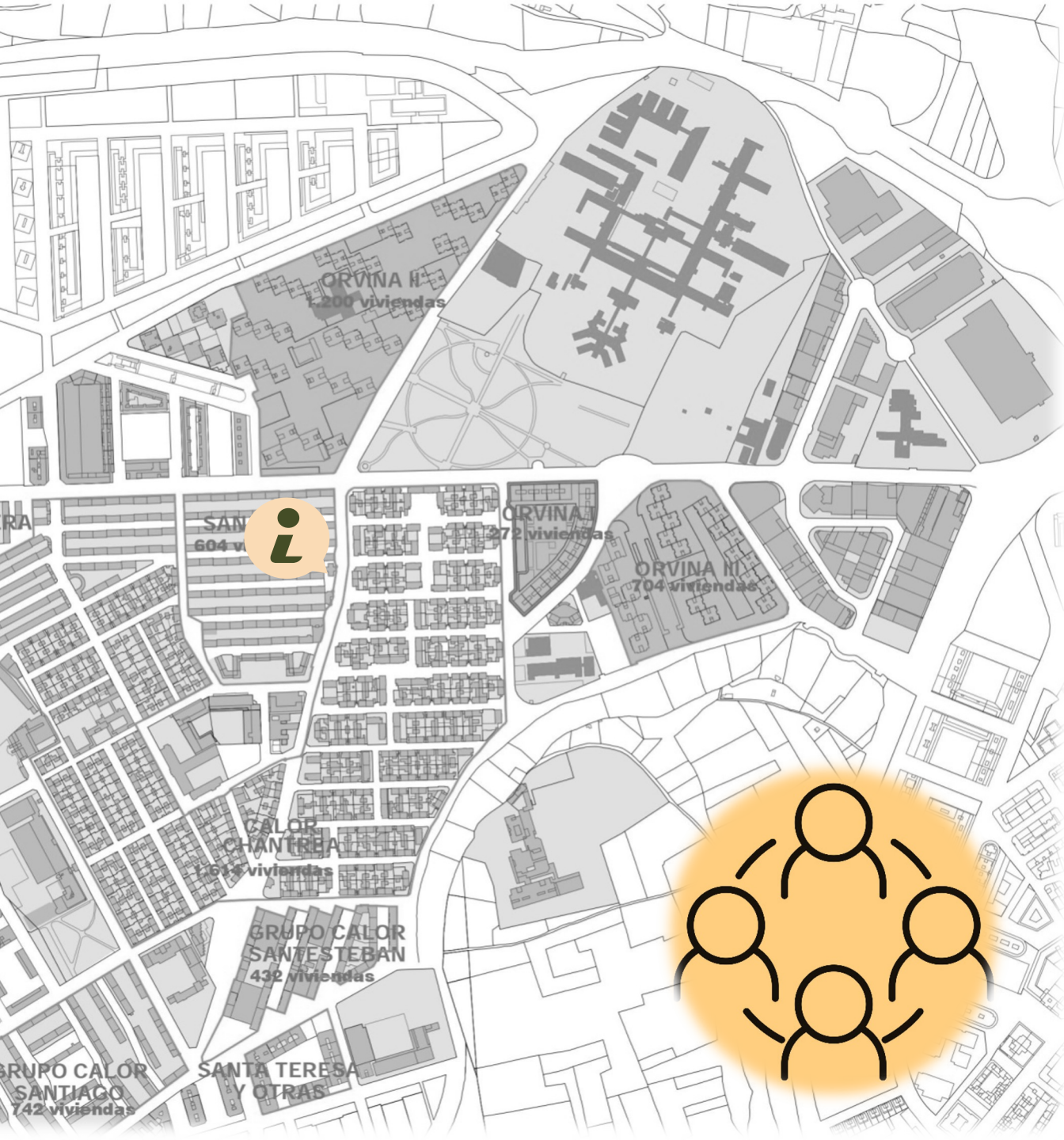
Renovation of existing DH supplied by biomass.

Energy savings measures

Integral energy refurbishment of residential buildings.
Thermal envelopes.

Social measures

Redevelopment and improvements to the public infrastructures.



Renewable Energy Sources

New district heating network. Supplied by biomass.

Energy savings measures

Integral energy refurbishment of residential buildings.
Thermal envelopes.

Energy savings measures

Renewal of existing
District Heatings systems.



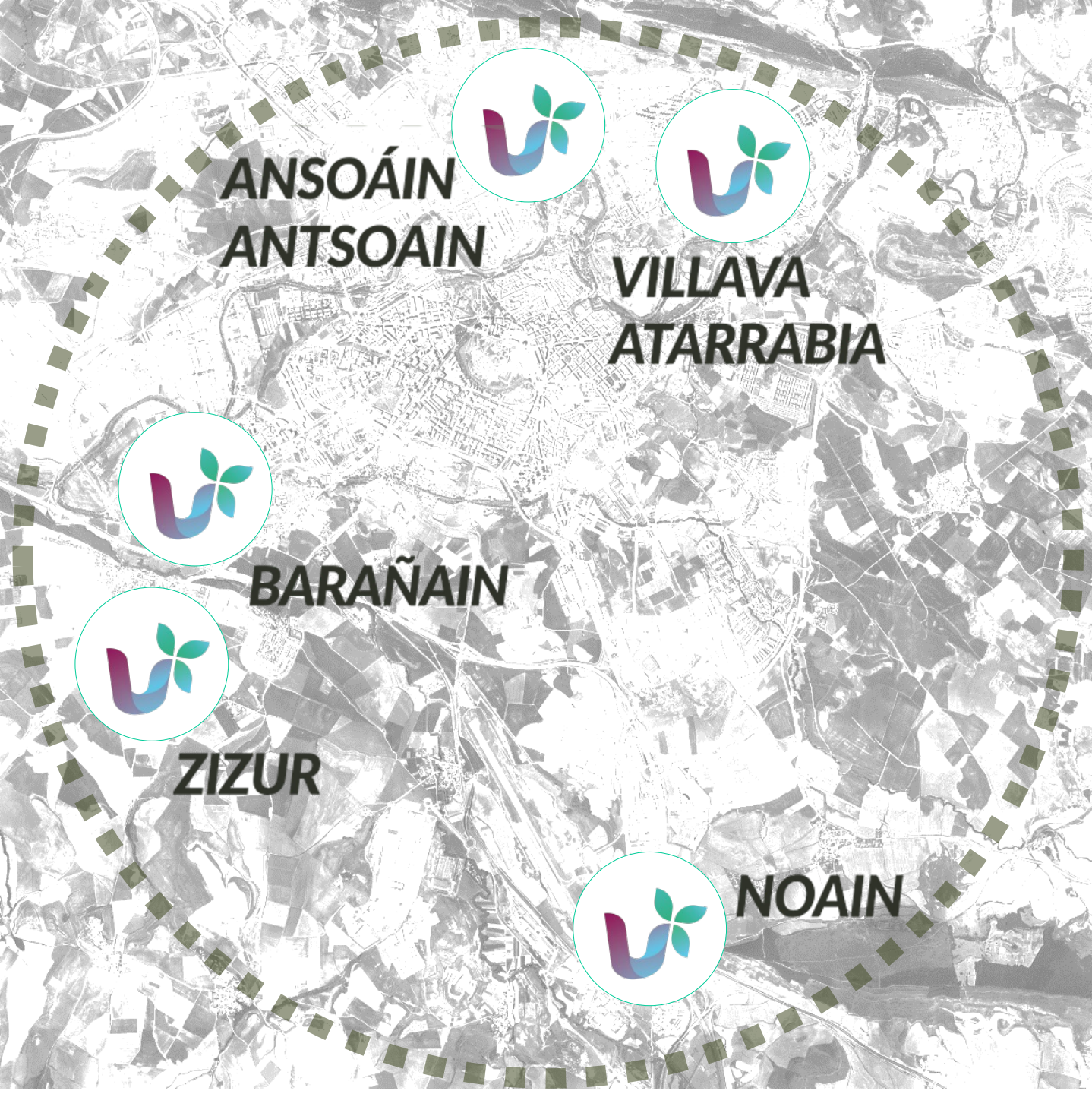
2018-2020

- 1,060 dwellings renovated
- 25.7 M€

2014-2017

- 642 dwellings renovated
- 13.5 M€



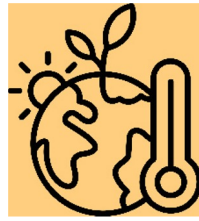


This 3-year project (2018-2020) had the general objective of promoting, within the framework of the Navarra Energy Plan, the investment on energy efficiency and renewable energies in Navarra in 3 main target groups: Public & municipal entities, citizens and Industry.

Private Housing stock figures:

- 5 municipalities
- 17 buildings refurbished
- 385 dwellings
- 1 DH renovated





LIFE NADAPTA
THE CLIMA PROJECT

Deliverable C6.5: Hoja de ruta de Modelos de Gestión Innovadores en la Regeneración Energética

Action C6.5

Grant Agreement n.º LIFE 16 PCCL000005
Towards an integrated, coherent and inclusive implementation of
Climate Change Adaptation policy in a region: Navarra

(LIFE-IP NAdapta-CC)
LIFE 2016 INTEGRATED PROJECTS CLIMATE ACTIONS
Project start date: 2017-10-01 Project end date: 2023-12-31

Document 1: PLAN DE ORDENACIÓN DE LA CIUDAD - PLAN DE ORDENACIÓN DE LA ZONA DE INTERVENCIÓN

Document 2: Expediente 1: Estado de conservación, Regeneración energética, caso de éxito

Document 3: Expediente 2: Plan de actuación de rehabilitación energética, caso de éxito



LIFE NADAPTA
THE CLIMA PROJECT

Deliverable DC6.2.2: Guía de Urbanismo, arquitectura y cambio climático en Navarra

Action C6.2

Grant Agreement n.º LIFE 16 PCCL000005
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LIFE 2016 INTEGRATED PROJECTS CLIMATE ACTIONS
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Diagnóstico del parque residencial. Criterios climáticos, edificatorios y socioeconómicos. LF 28/2018

Clasificación climática de los municipios Navarros según el Código Técnico de la Edificación (CTE)
Fuente: Estudio de variabilidad climática (c6.2)

2020 | 2021-50 | 2051-80 | Leyenda

Viviendas afectadas por expedientes de rehabilitación e indicadores relacionados Expedientes: 2015-2018

Bienes arquitectónicos:
4476 viviendas
Total Navarra: 6928

Secciones, número:
Vulnerabilidad Socioeconómica

Secciones, número:
Grado de Vulnerabilidad

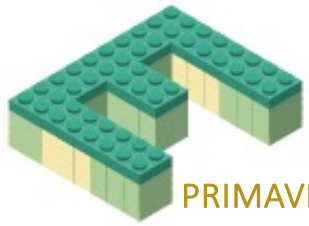
Parcelas, número de viviendas:
Vulnerabilidad Eficiencia Energética



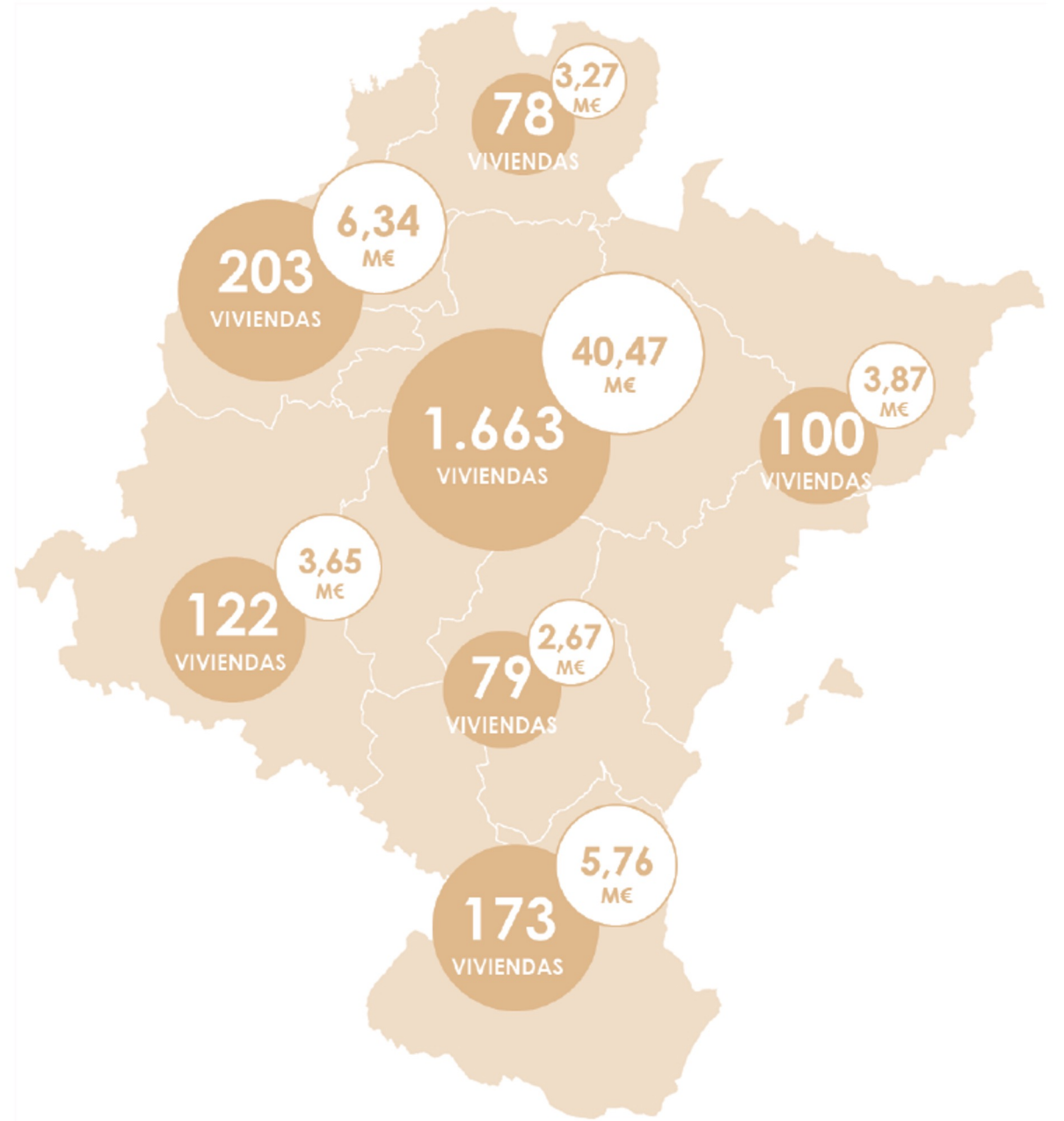
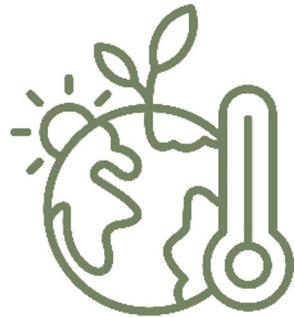


**[LC DISTRICTS
POLICY ROADMAP]**





PRIMAVERA



REVITALIZATION



Co-funded by
the European Union

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LESSONS LEARNED

What have we learned among these years?

LESSONS LEARNED



LOCAL ADMINISTRATION

Management teams in the territory



CITIZENS ENGAGEMENT

Participation and engagement of the inhabitants. To create a trusted environment



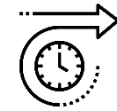
GLOBAL ACTIONS

Promotion of global action with ambitious energy approaches. Real solution to energy poverty.



FINANCING SCHEMES

Stable financial framework for Homeowners' association and owners.



LONG TERM APPROACH

Stability over the time. The objective is to achieve the execution of the whole global action.

QUESTIONS?



THANK YOU
FOR YOUR
ATTENTION

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