



# CITIES Forum 2020

Together we shape  
a sustainable urban future

Porto, 30-31 January 2020

#citiesforum2020

#SustainableUrbanDevelopment

**Porto.**

Regional and  
Urban Policy





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# URBAN AGENDA FOR THE EU – STATE OF PLAY OF THE ACTIONS

## IVO BUIJNSTERS

City of Tilburg





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# PARTNERSHIP





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# BETTER FUNDING AND REGULATION

WORKING TOWARDS EU REGULATION AND  
FUNDING FOR URBAN ENERGY TRANSITIONS



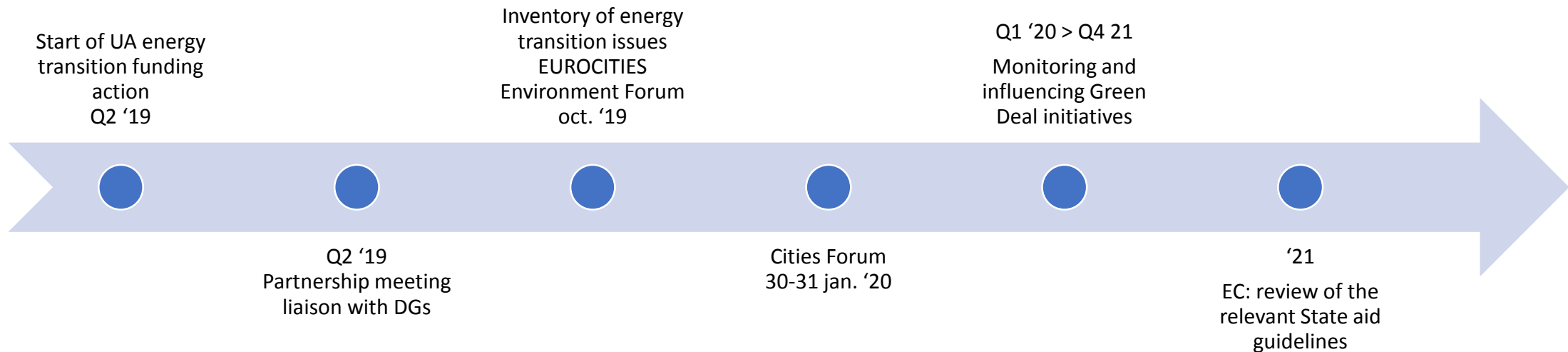


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## TIMELINE







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# PROBLEMS THAT CITIES FACE

- EU funding often focused on explicit details
  - EU ought to focus on general requirements (e.g. mission approach)
  - Flexibility for tailor made solutions at local/regional level



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# PROBLEMS THAT CITIES FACE

- EU funding '14-'20: strong focus on pilots
  - In MFF '21-'27 need for more EU funds that finance large scale implementation instead of R&D
  - More pre-finance for SMEs (mitigation of financial risks)
  - Room for tailor made solutions at local/regional level



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# WHAT SHOULD BE DONE

- The Green Deal should provide:
  - Large scale EU funding for urban energy transition projects
  - Integral expertise, while allowing cities to coordinate their own programmes
  - Exemption from EU state-aid obligations for energy transition project that can be labelled as Services of General Interest





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# HOW DO WE CONTRIBUTE

- Advocate for regulation change
  - By providing concrete examples:  
e.g. input session EUROCITIES Environment Forum
  - Linking member state representatives and EC representatives
  - Exploring synergies between EU funding and other finance mechanisms
  - Contributing to position papers addressing the EC
  - ...



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# DISCUSSION/Q&A WITH AUDIENCE

- Most important for the energy transition?:
  - EU legal regulations
  - National legal regulations
  - Local legal regulations
  - Major financial flows
  - Knowledge exchange
  - Education and learning
  - ...



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# DISCUSSION/Q&A WITH AUDIENCE

- Who is mainly responsible for the energy transition?
  - EU administration
  - Member states
  - Regions
  - Cities
  - Citizens
  - Companies
  - UN
  - ...



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# DISCUSSION/Q&A WITH AUDIENCE

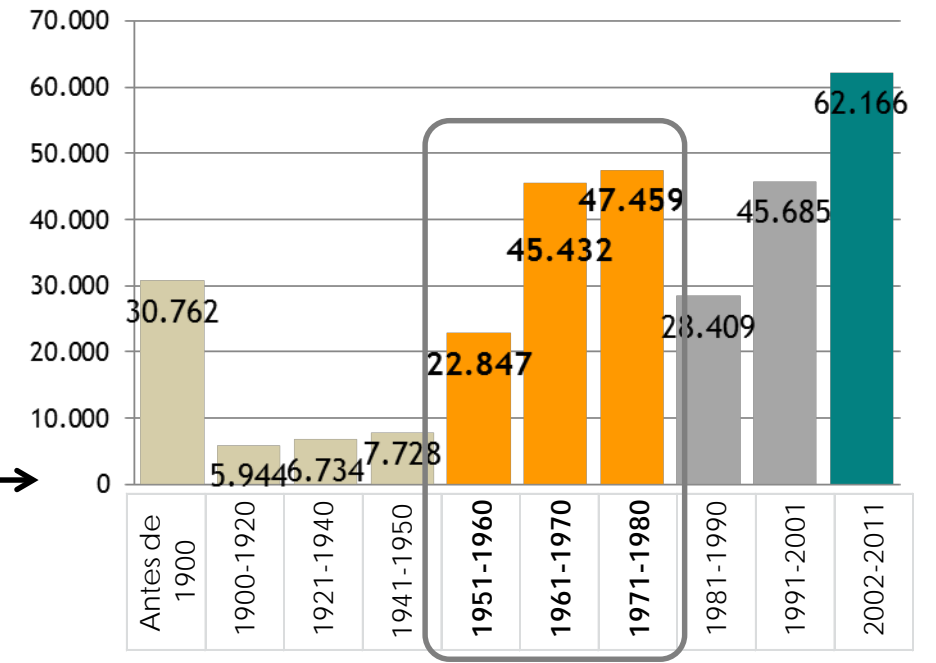
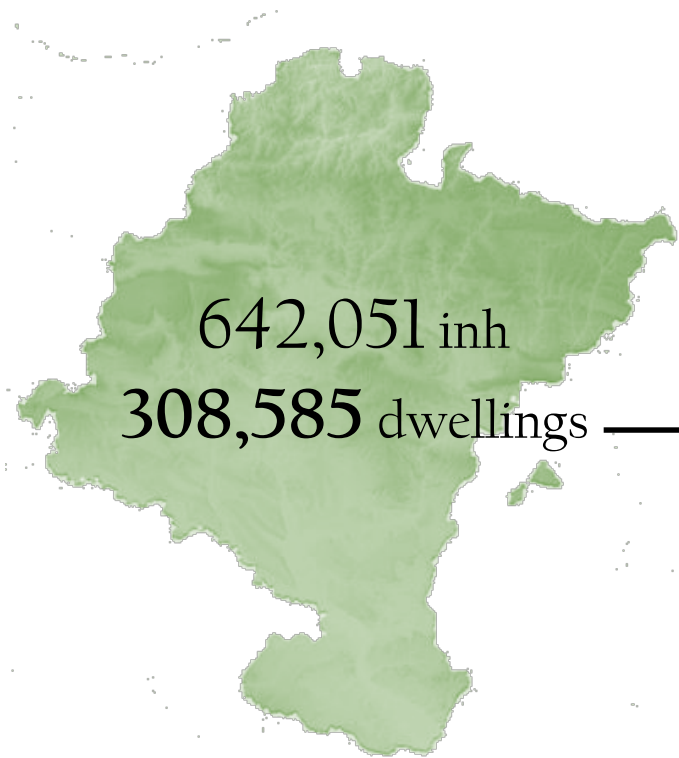
- Other questions?



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**115,000** between 1950 and 1980, mainly located in social housing district.

Housing is responsible for **13%** of the energy consumed in Navarra.

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Gobierno de Navarra

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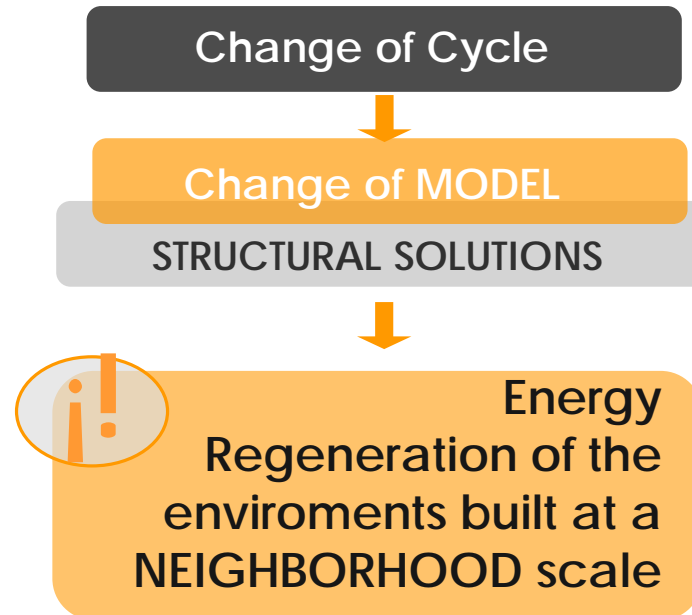
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Neighborhoods,  
groupings... promoted  
**jointly**, and their  
regeneration 40-50  
years later also require  
a **global intervention**.



- Real solution to Energy poverty.
- Reduction of Energy dependance.
- Adaptation and mitigation to Climate Change.
- Employment generation.
- Avoid deterioration processes in the cities.

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# Renewable Energy:

 1. Biomass

# Reduction of demand:

 2. Improve the efficiency of the facilities,  
protection of the neighborhood's heating system.

 3. Thermal Envelopes

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## 3. Energy Refurbishment of the buildings

- Public buildings
- Homes built between 1950 and 1980



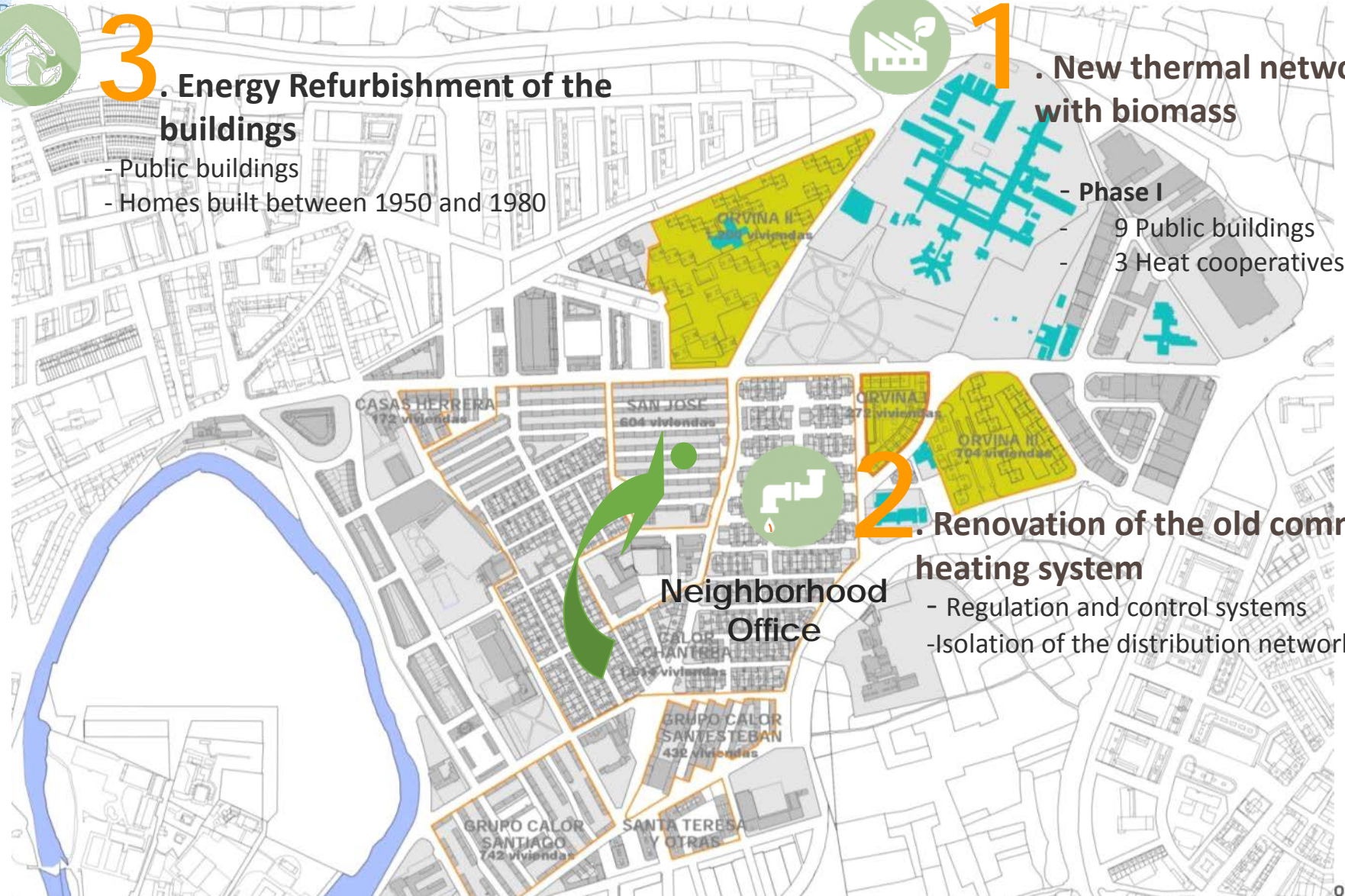
## 1. New thermal network with biomass

- Phase I
- 9 Public buildings
- 3 Heat cooperatives



## 2. Renovation of the old community heating system

- Regulation and control systems
- Isolation of the distribution network



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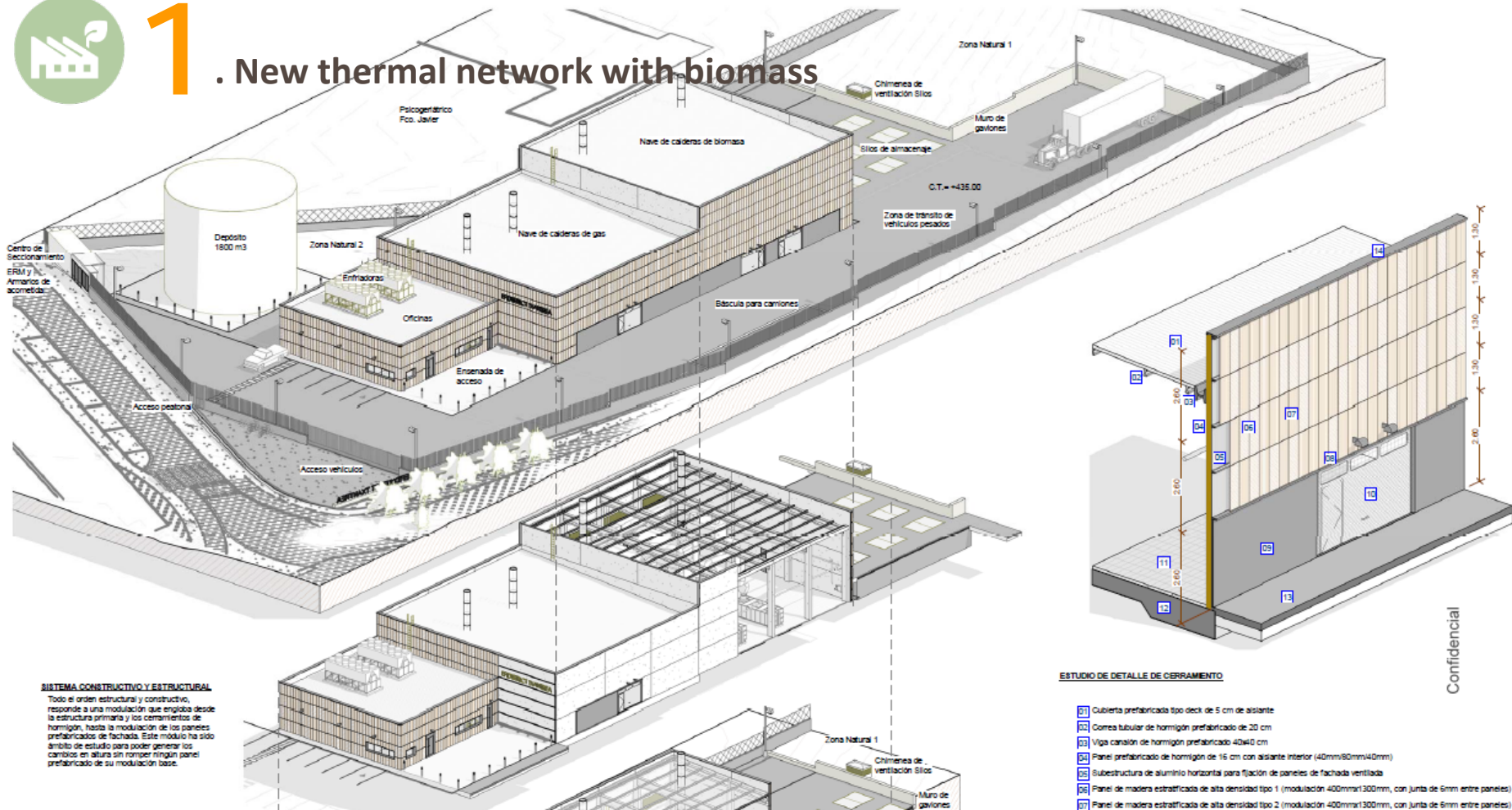
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1

# New thermal network with biomass



**SISTEMA CONSTRUCTIVO Y ESTRUCTURAL**  
 Todo el orden estructural y constructivo, responde a una modulación que engloba desde la estructura primaria y los cerramientos de hormigón, hasta la modulación de los paneles prefabricados de fachada. Este módulo ha sido ámbito de estudio para poder generar los cambios en altura sin romper ningún panel prefabricado de su modulación base.

ESTUDIO DE DETALLE DE CERRAMIENTO

- B1 Cubierta prefabricada tipo deck de 5 cm de aislante
- B2 Correa tubular de hormigón prefabricado de 20 cm
- B3 Viga canalón de hormigón prefabricado 40x40 cm
- B4 Panel prefabricado de hormigón de 16 cm con aislante interior (40mm/80mm/40mm)
- B5 Subestructura de aluminio horizontal para fijación de paneles de fachada ventilada
- B6 Panel de madera estratificada de alta densidad tipo 1 (modulación 400mmx1300mm, con junta de 5mm entre paneles)
- B7 Panel de madera estratificada de alta densidad tipo 2 (modulación 400mmx1300mm, con junta de 5mm entre paneles)
- B8 Muro de acero para reventar los huecos en hormigón prefabricado. Terminación en chapa acacia laminada
- B9 Manguito de pared sanitaria de 5 cm. Terminación metálica color gris oscuro
- B10 Puerta seccionable 4000mmx2000mm. Contiene rejillas de ventilación y puerta peatonal abatible
- B11 Terminación de hormigón al cuarto color gris con pendiente hacia sumideros
- B12 Losa de Hormigón armado de sección variable (80cmx40cm)
- B13 Píndalo rígido para tráfico pesado formado por base de hormigón magro vibrado de 15 cm y terminación de hormigón de 23 cm
- B14 Abatida metálica de chapa con galvanizado en zinc (350mmx50mm)

Confidencial

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**PHASE I Investment: 10,3 million**

- Nasuvinsa: 6,6 million (50% European Regional Development Fund, ERDF 2014-2020)

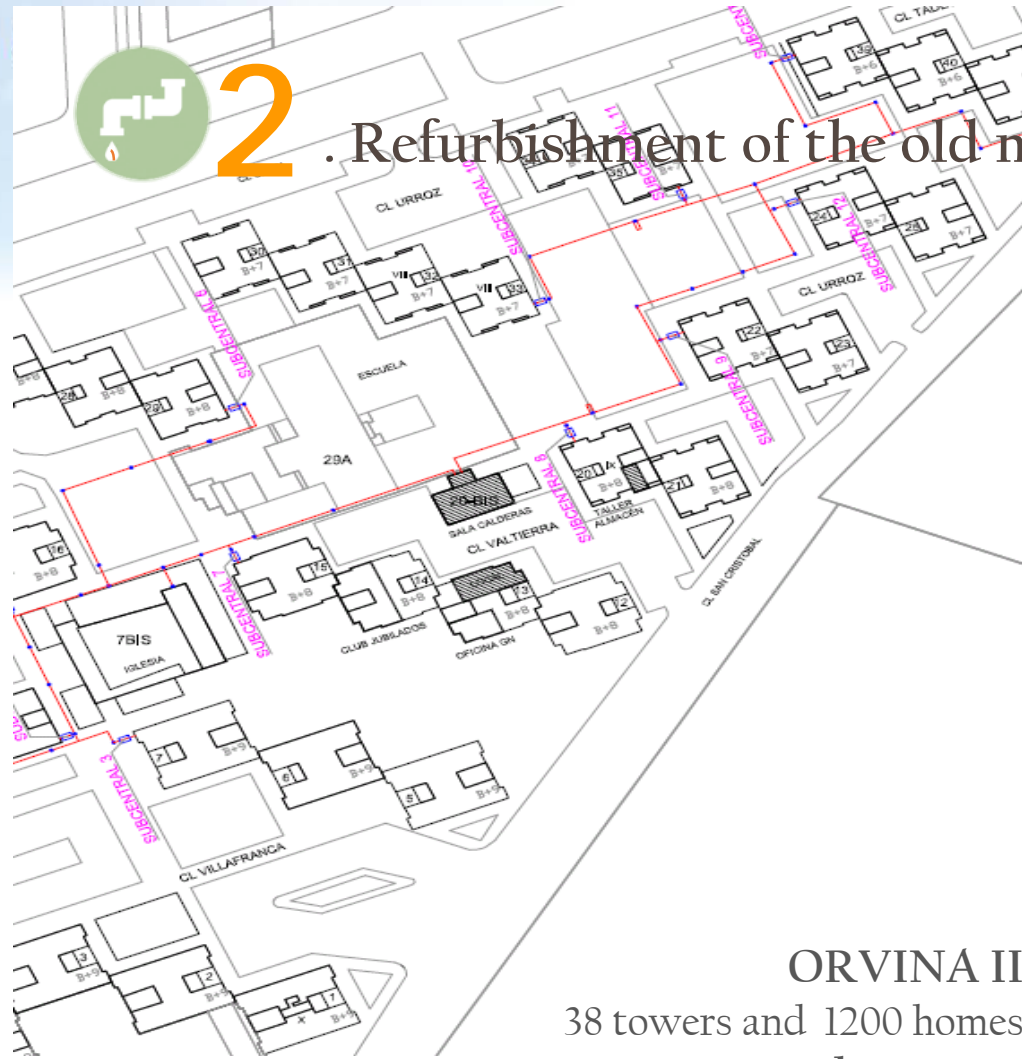
- Engy: 3,7 million

**Start of final works: end of 2019**

**ESTUDIO DE ADAPTABILIDAD DE INSTALACIONES EN ESPACIO CONTIGUO**  
 Para la instalación de los nuevos contenedores de las calderas y salas administrativas y de oficina, se han tenido en cuenta las dimensiones de las calderas, consiguiendo adaptar el espacio a las exigencias requeridas en cada caso. Esta estrategia consigue una visión menos agresiva con su entorno.



## 2. Refurbishment of the old neighborhood heating network.



- Improve the efficiency of the facilities
- Control and regulation at entryway level.
- At least, while the thermal envelopes aren't done.

3 refurbished networks:

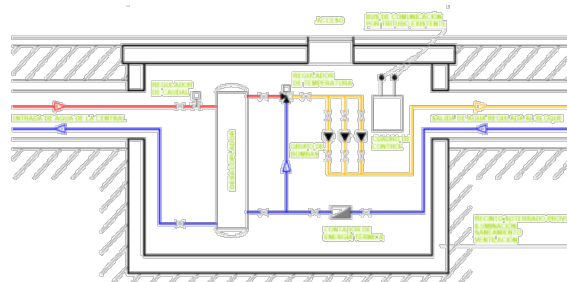
2.844 homes and 1.029.103 €



ORVINA II

38 towers and 1200 homes

14 substations







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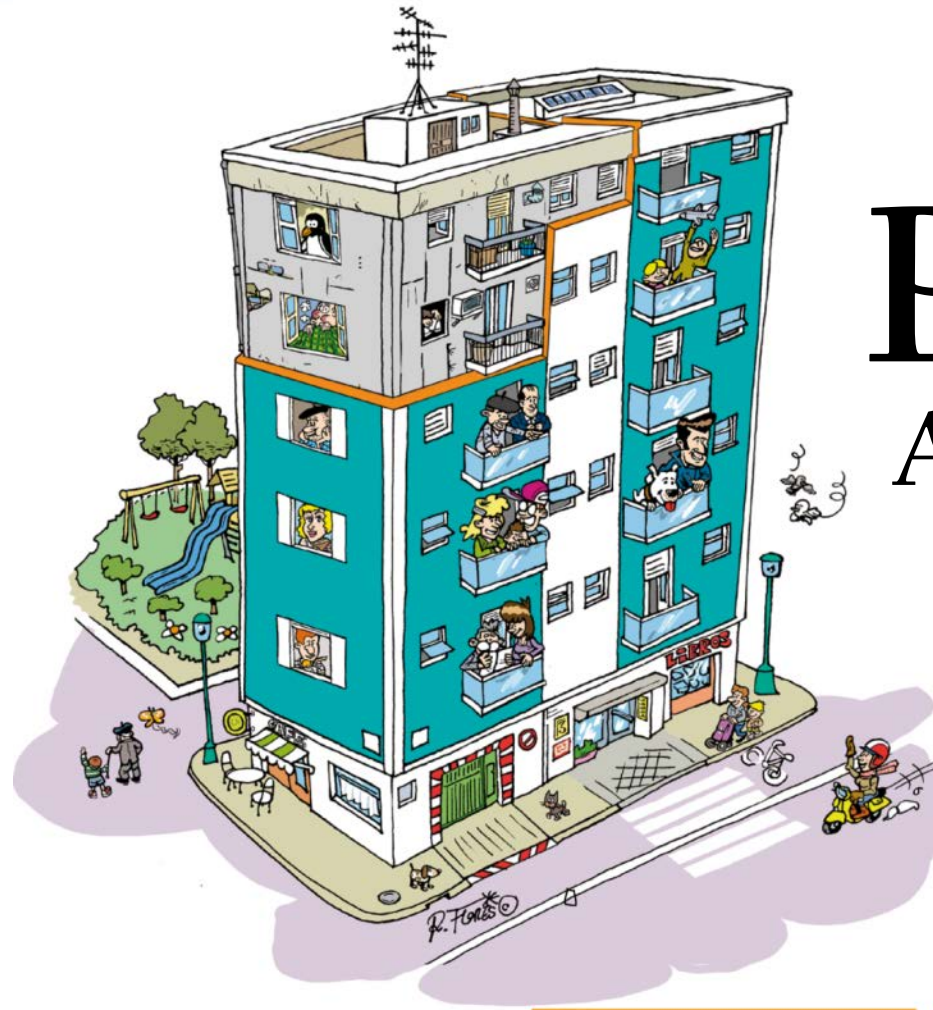
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3

. Energy Refurbishment of the buildings



# Procedure Architecture Contest

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• 2014-2017

642 homes

13,5 million of €

The goal of the European Project was 156 homes





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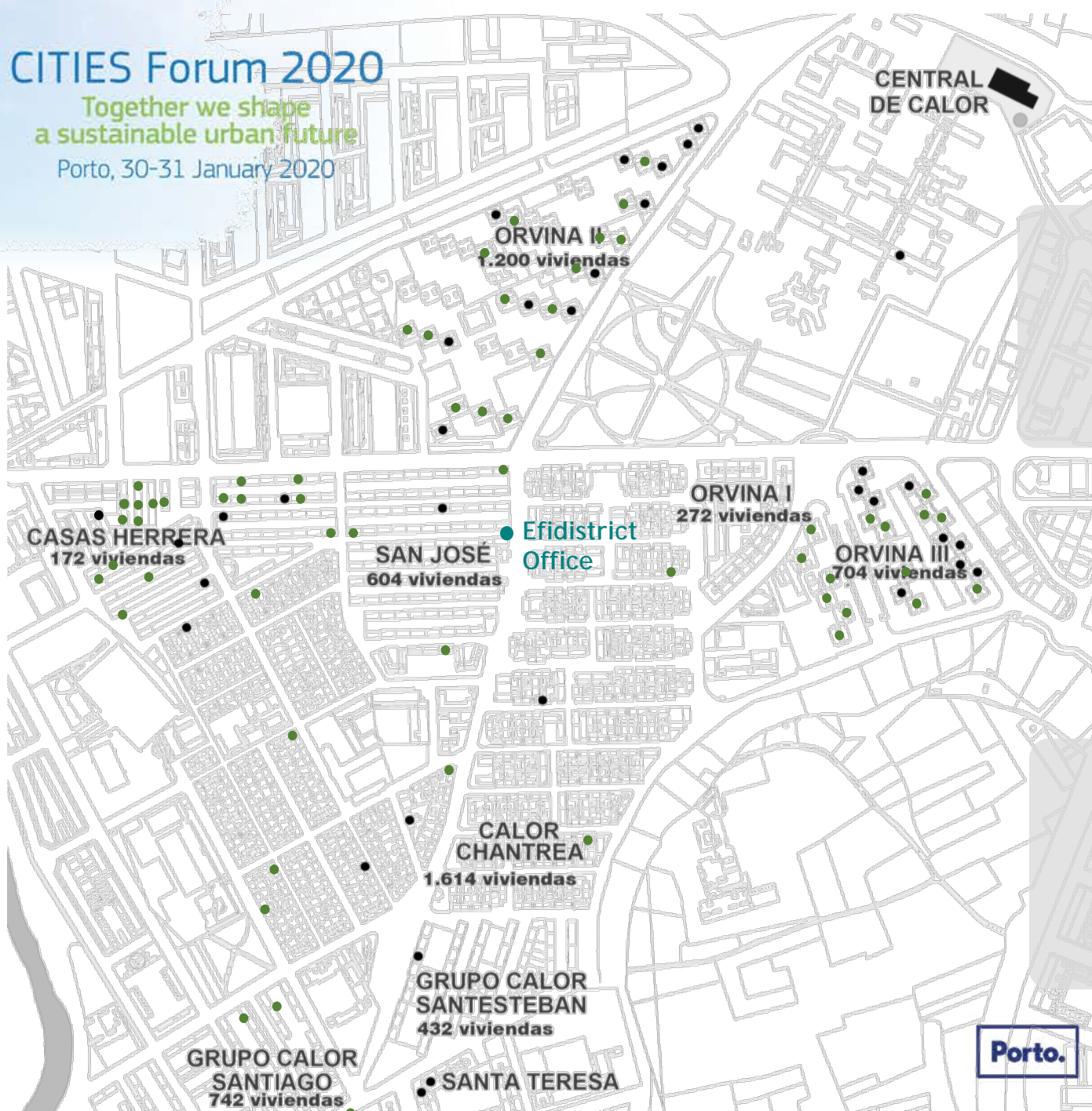




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• 2014-2017

642 homes

13,5 million of €

The goal of the European Project was 156 homes



• 2018-2019

1.107 homes

29 million of €



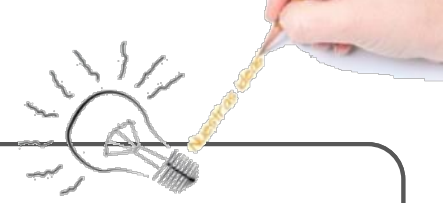


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# Lessons learned

... they are a Reality



## 1. Local Administration *Management Groups* in the territory

## 2. Participation and mobilization of residents and citizens..

**Citizens' engagement**

*Trusted  
environment!*

## 3. Promotion of **GLOBAL ACTIONS** with ambitious energy approaches.

Adaptation and mitigation of **Climate Change**  
*The only real solution to energy poverty*

## 4. Financing the stakeholders associations Viable financial model

## 5. Stability over the time. Long path project The objective is to achieve the execution of the whole global action.



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