



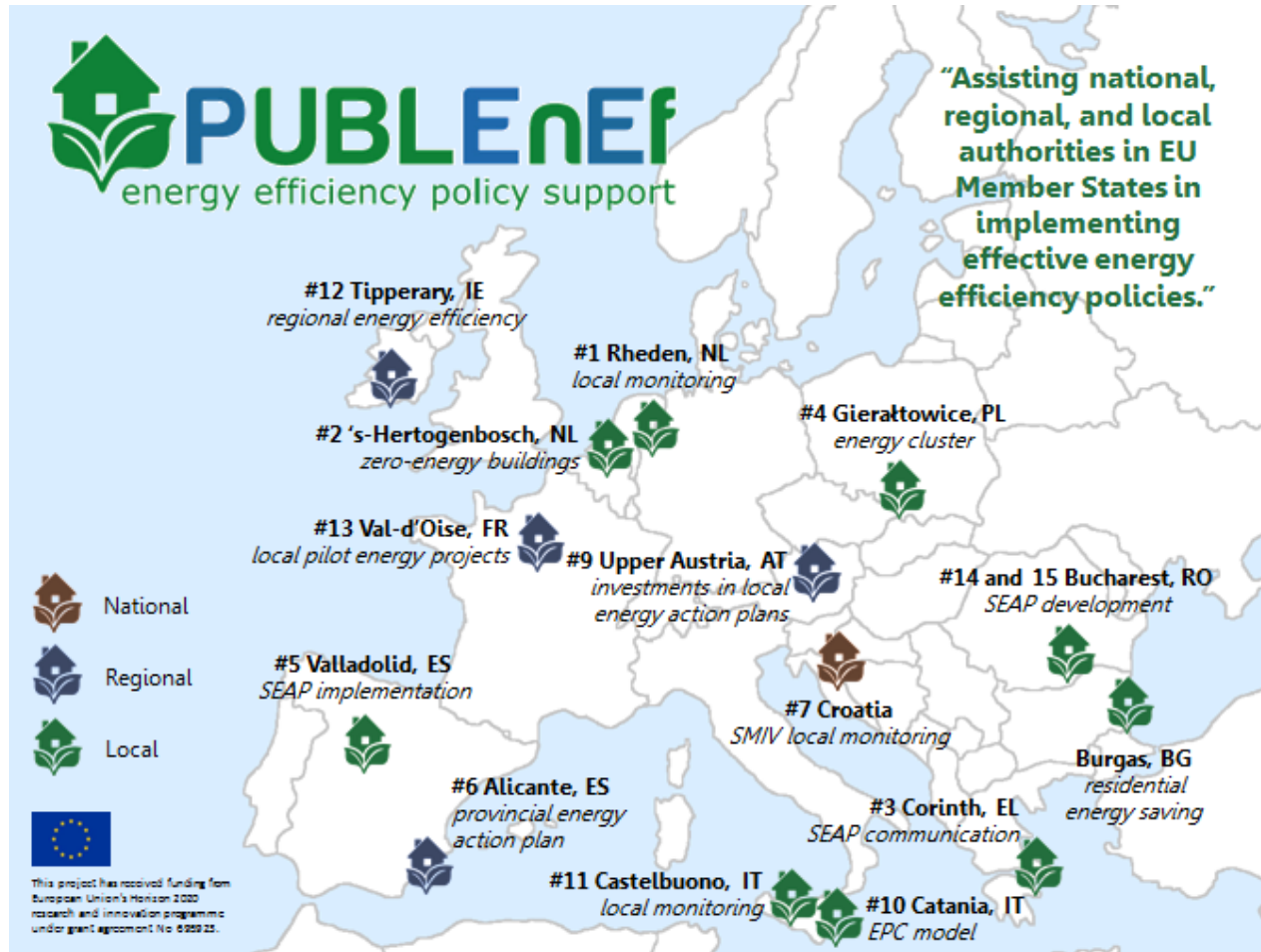
# Energy Roadmaps overview

ion dogeanu

CoM workshop , 7 November 2017, Bucharest

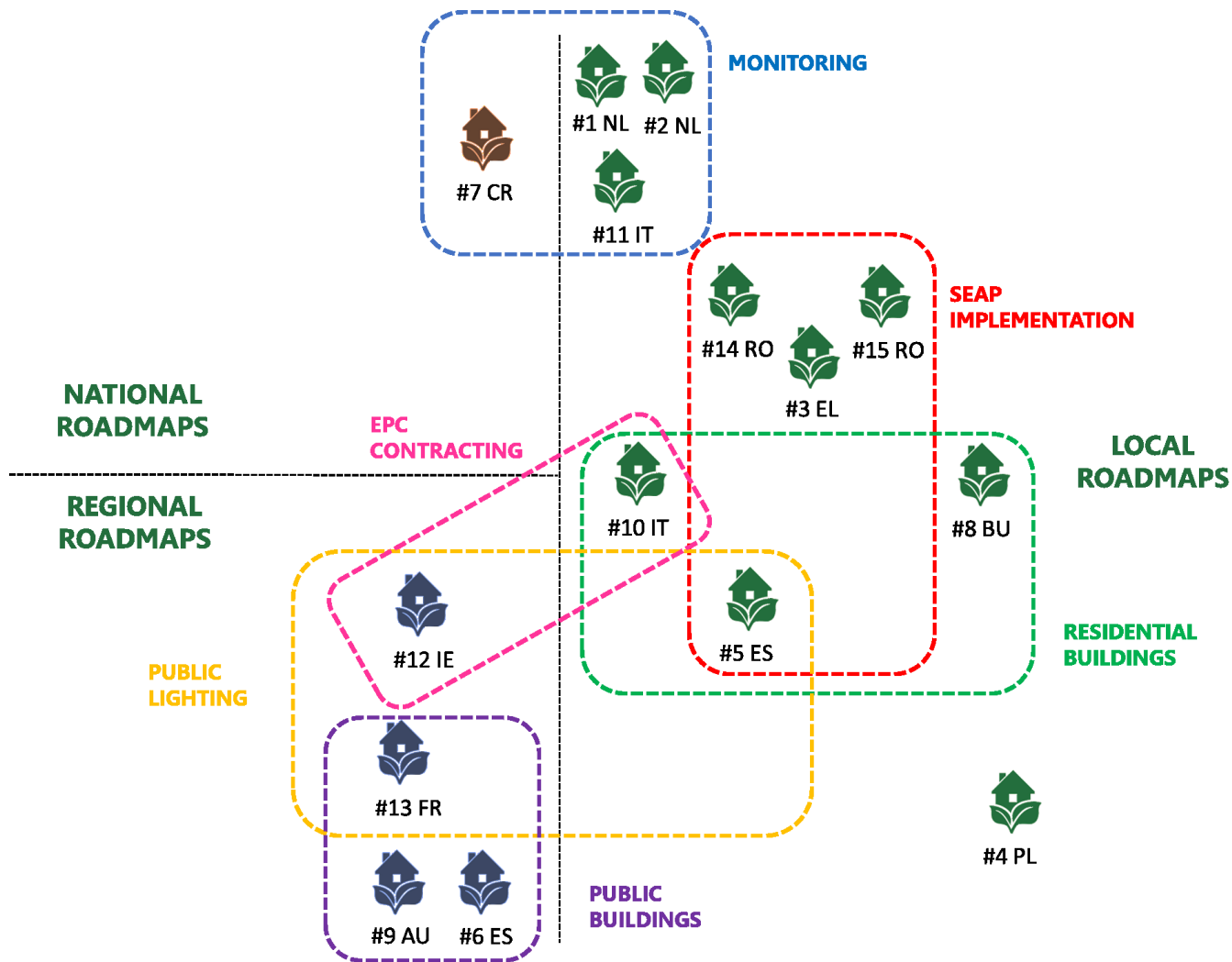


# Roadmaps overview



- 15 Roadmaps
- 10 local
  - 4 regional
  - 1 national

# Clustering the Roadmaps



# Status of each roadmap

- **#1. City of Rheden. NL. Local monitoring**

**Objective:** to support the municipality of Rheden in developing and implementing the monitoring system for the climate approach.

**Needs:**

Setting up a structure for the monitoring system

Defining how (mainly qualitative) data is collected

Setting clear, feasible, and targeted indicators for qualitative monitoring

**Actions**

First rough draft of the monitoring system by July 2017.

Second half of 2017, brainstorm sessions with relevant stakeholders

End of year: monitoring system operational.



## Status of each roadmap

- **#3. City of Corinth. EL. SEAP communication and implementation**

**Objective:** To support Municipality to adapt the SEAP to the present situation and implement the actions foreseen according to the present priorities and financing opportunities

**Needs:**

Communication & capacity building actions

Energy efficiency interventions

**Actions:**

Bilateral physical meeting between CRES staff and the Municipality to specify main issues

Survey on the projects that CRES is involved at this moment and can fulfil municipal needs

Activation of the local forum of stakeholders.



## Status of each roadmap

- **#4. City of Gieraltowice, PL. Energy cluster**

**Objective:**

Support in the implementation of first pilot energy cluster in the municipality of Gieraltowice in the framework of the RES Amendment Act.

**Needs:**

**Actions:**

Revision of potential cluster participants and possible investments;

Description of the participants' roles, possible benefits and risks;

Technical and economic analysis of the cluster

Available financing models and different network configuration solutions;

Recommendations for the Gieraltowice energy cluster

Template of energy cluster's agreement



## Status of each roadmap

- **#5. City of Valladolid. ES. SEAP Implementation**

**Objective:** to support implementation of SEAP in the city of Valladolid

**Needs:**

Lack of implementation of some measures

Insufficient own funds/Debt limit.

Lack of knowledge of funding mechanisms

Difficulties to mobilize all the stakeholders

**Actions:**

Bilateral meetings with the municipality

Look for funding opportunities.

Meetings with ESCAs and EU projects representatives

Planning and budgeting of the activities



Step 1  
Initial data  
collection

Step 2.  
Objectives and  
needs

Step 3.  
Networking

Step 4.  
Measures and  
policies

Step 5.  
Quantification of  
resources

Step 6. Tools and  
materials

Step 7. The  
document

Step 8. Adoption  
and  
implementation



## Status of each roadmap

- **#6. Region of Alicante. ES. Provincial Energy Action Plan**

**Objective:** Reduce the consumption of city council buildings incrementing the penetration of renewable energies and increasing energy efficiency.

**Needs:**

Lack of funding

Insufficient in-house expertise about technologies

Lack of knowledge regarding financial tools

**Actions:**

Bilateral meetings with the agency

Look for funding opportunities.

Planning the activities

Budgeting of the activities





# Status of each roadmap

- **#7. Croatia. SMIV local monitoring**

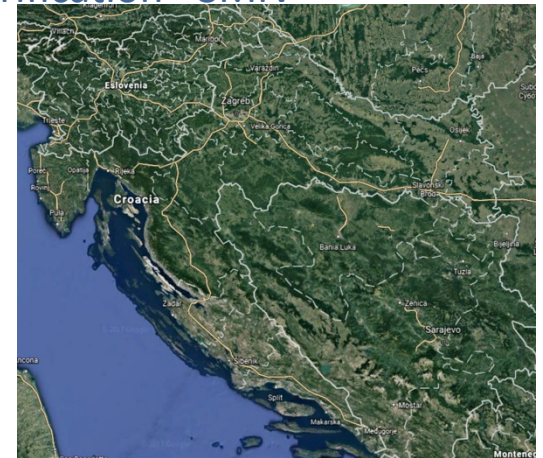
**Objective:** Implementation of the System for monitoring and verification - SMIV

**Needs**

Necessary changes on the regulatory level  
Implement a unified approach to planning  
on local, regional and national level

**Actions:**

- Defining opportunities and barriers
- Defining objectives and needs
- Sending an information letter
- Defining baseline, planning training events and expected outcomes
- Organization of 4-5 training events, preparations of materials and presentations
- Use of available materials and getting feedback to compile the EE Planning Manual
- Implement the regulatory update if possible.



# Status of each roadmap

- **#8 City of Burgas. BG. Residential Energy saving**

**Objective:** To support the implementation of the SEAP in the residential building sector

**Needs:**

Lack of motivation of the citizens to create homeowners associations and to apply for retrofitting

Lack of motivation of the municipality staff to encourage citizens and organising info campaigns.

**Actions:**

Analysis of the municipal SEAP

Determination of the energy targets for the Residential buildings

Analysis of the energy consumption and potential for energy savings of the targeted buildings,

Recommendations for measures of intervention in these buildings

Recommendations for municipal policy in the field of residential building renovation

Recommendations for the successful communication with the citizens and organisation of info campaigns on energy renovation and its benefits



# Status of each roadmap

- **#9. Upper Austria. AU. Investment in local energy action plans.**

**Objective:** to trigger energy-related investments in Upper Austrian municipalities through the successful implementation of the GEP program

**Needs:**

Technical planning of buildings and installations

Use of innovative financing mechanisms and funding schemes.

**Actions:**

Communication strategy:

information events

info folders

e-mail blasts to all 442 Upper Austrian municipalities

website, social media & newsletters

personal visits to 50+ municipalities

face-to-face contacts with 100+ municipalities



## Status of each roadmap

- **#10 City of Catania. IT. EPC model for buildings.**

**Objective:** Contribute to diffuse the application of EPCs for buildings in Italy and to facilitate the fulfilment of energy efficiency requirements set by the European Directive (2012/27/EU) with a pilot application in the Municipality of Catania.

**Needs:**

- necessity of administrative procedures simplification,
- lack of financial tools to support energy efficiency
- not adequate information & training,
- insufficient budget,
- the stakeholders' lack of available time,
- necessity of improving decision making process,
- more cooperation of the stakeholders involved.

**Actions:**

Memorandum of Understanding, already signed between ENEA and the Municipality of Catania in April 2015.



# Status of each roadmap

- **#11. City of Castelbuono. IT.**

**Objective:** Monitoring of energy consumption and identification of energy efficiency measures in public buildings

**Needs:**

Monitoring of energy consumption;  
Energy efficiency measurement of building facilities/equipment;  
CO2 emission estimation;  
Cost estimation;  
identification of energy efficiency improvement interventions

**Actions:**

Preparation of the collaboration agreement among stakeholders;  
Identification of a couple of representative public buildings as pilot;  
Planning of the pilot project  
Identification of the benchmark and key performance indicators;  
Definition of the action plan to develop monitoring system and to identify energy efficiency improvement measures.



- **#12 Tipperary.IE. National and local public lighting strategy**

**Objective:** Overcome barriers and facilitate progress on the national and local public lighting strategy, improve knowledge and information and implement demonstrated solutions

**Needs:**

- public lighting infrastructure upgrading
- support SEAP Action: technical support LEDs, stakeholder mobilisation, strategy development, national infrastructure, financial barriers.

**Actions:**

Identification of all the relevant stakeholders

Engagement with Good Practice Model – REGEA

Prepared a local Tipperary Public Lighting Strategy

LED Retrofit solutions with first stage business case proposals including Gap to Target analysis (2020-2030-2040-2050)

Address specific technical issues (via position papers and research reports)

Submission of EIB/ELENA application

Building on business case, engagement with stakeholders, preparation of a national workshop, detailed strategy/delivery plan.

National Public Lighting Strategy



# Status of each roadmap

- **#13. Val-d'Ōise. FR. Local pilot energy projects**

**Objective:** to support the implementation of pilot energy projects and clusters

Two pilot projects are foreseen both on public buildings renovation and public lighting

**Needs:**

technical support,

stakeholders mobilisation and

trainings for the elected representatives

**Actions**

The action plan will be developed in two steps:

- Capacity building workshops targeted to elected people and capacity building workshops targeted to technicians (people in charge of energy projects in the local authorities as well as people in charge of finance, administration and so on)

- Clusters involving local authorities, companies and institutions: assistance to their creation, to their implementation and finally to the dissemination at the regional scale.



# Status of each roadmap

- **#14 and #15. City of Bucharest. RO. SEAP development, implementation and monitoring**

**Objective:** To support municipality in the development, implementation and monitoring

**Needs:**

technical support,  
stakeholders mobilisation and  
trainings for the elected representatives

**Actions:**

Identified the field of the roadmap (public renovation,  
private buildings and RES integration)

Identified the stakeholders

Starting the contact with stakeholders





# Overview of the progress

	Step 1 Initial data collection	Step 2. Objectives and needs	Step 3. Networking	Step 4. Measures and policies	Step 5. Quantification of resources	Step 6. Tools and materials	Step 7. The document	Step 8. Adoption and implementation
#1. City of Rheden. NL	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#2 City of `s-Hertogenbosch. NL	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#3. City of Corinth. EL.	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#4. City of Gieraltowice, PL	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#5. City of Valladolid. ES	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#6. Region of Alicante. ES.	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#7. Croatia	Dark Orange	Dark Orange	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange
#8 City of Burgas. BG	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#9. Upper Austria. AU	Dark Orange	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange
#10 City of Catania. IT	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#11. City of Castelbuono. IT	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#12 Tipperary. IE	Dark Orange	Dark Orange	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange
#13. Val-d'Oise. FR	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange
#14 and #15. City of Bucharest. RO	Dark Orange	Dark Orange	Dark Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange



Thank you for your attention!

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