

# Report on Peer-to- Peer activities and Cities visits

## Deliverable 3.4



Funded by the H2020 programme of  
the European Union

NOVEMBER 2022



**TOMORROW**



## **Report on Peer-to-Peer activities and Cities visits**

The sole responsibility for the contents of this publication lies with the authors.  
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This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847136.

This report presents all activities implemented during the project duration in order to support Pilot-Cities of TOMORROW in the development of their climate-neutrality transition roadmaps. Those activities consisted in 3 main categories:

- ▶ Visits of lighthouse cities (i.e. Leuven, Ghent, Nantes)
- ▶ Study tours in Pilot-cities (online and on-site visits)
- ▶ Thematic webinars organised as additional activities during the COVID travel restrictions

The activities are reported in a chronological order in the following pages, as follow.

Date	Title of Activity	Type of activity
16/10/2019	Study Tour in Leuven and Ghent	Lighthouse city visit
06/02/2020	Study Tour in Nantes	Lighthouse city visit
18/06/2020	Webinar on Ambition scoping	Webinar (extra)
07/12/2020	Webinar on citizens engagement	Training webinar (extra)
11-12/05/2021	Brest online-Case Study	Webinar to discuss Brest's transition
29-30/11/2021	Study Tour in Dublin	Pilot City Study Tour (online due to COVID restrictions)
29-30/03/2022	Study Tour in Brest-Metropolis	Pilot City Study Tour
21-22/06/2022	Study Tour in Mouscron	Pilot City Study Tour
5-8/09/2022	Study Tour in Brasov	Pilot City Study Tour
26-28/10/2022	Study Tour in Valencia	Pilot City Study Tour
8-9/11/2022	Study Tour in Nis	Pilot City Study Tour

In addition to these activities, the consortium members met regularly online to keep track of the developments at stake in the pilot cities and within the project. Those online meetings specifically allowed for additional peer-to-peer activities, often with a specific focus on a particular topic. Pilot cities have exchanged about their own challenges and advancements and were able to receive specific feedbacks from the consortium members. Such online meetings took place on following dates:

2019	2020	2021	2022
12 November	18 February	12 January	25 January
	12 March	2 February	22 February
	26 March	30 March	22 March
	14 April	27 April	19 April
	12 May	2 June	17 May
	15 September	22 June	14 June
	13 October	20 July	30 August
	10 November	12 October	20 September
	8 December	16 November	11 October

Finally, bilateral calls were organised to focus on a specific pilot city. For the first rounds, we organised a mentee-mentor framework, allowing two cities to give each other feedbacks while getting deeper in their knowledge of each other. Energy Cities and DRIFT also gave feedback on the roadmap development process at stake. In order to reduce the amount of online meetings, the later were optional for other pilot cities. Those pilot cities specific bilateral calls took place on following dates:

2020	2021	2022
30 March Brest Dublin	13 January Brasov 20 January Mouscron	12 January Brest 13 January Valencia
31 March Nis	8 February Brasov	7 February Brasov
9 November Valencia	23 February Brest	21 February Mouscron
23 November Brest	3 March Dublin	8 March Nis
	10 March Mouscron	9 March Dublin
	16 March Nis	10 October Mouscron
	24 March Valencia	11 October Brest
	2 June Brasov	17 October Valencia
	13 June Brest	Brasov
	1 July Dublin	Dublin
	7 July Mouscron	18 October Nis
	6 September Valencia	





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**CONTACT**

[contact@citiesoftomorrow.eu](mailto:contact@citiesoftomorrow.eu)



# REPORT

## BELGIUM STUDY TOUR

16 October 2019

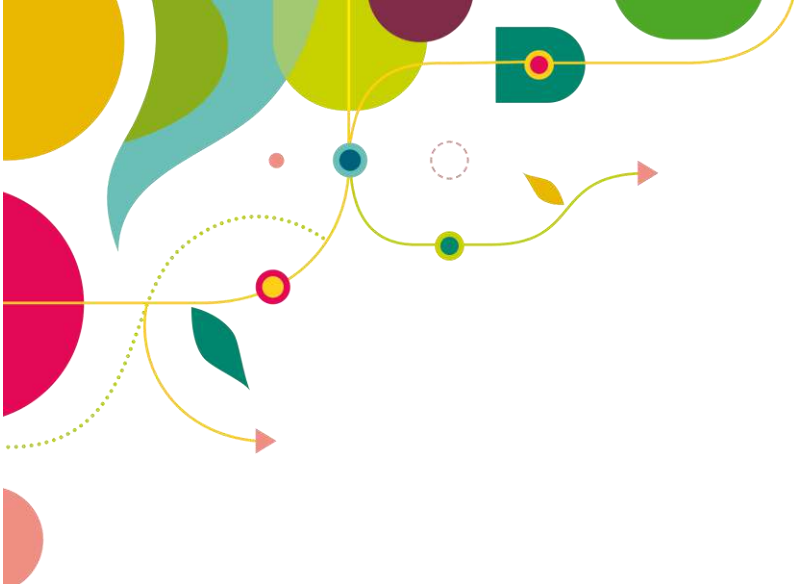


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NOVEMBER 2019



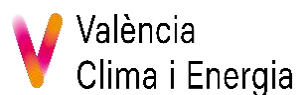
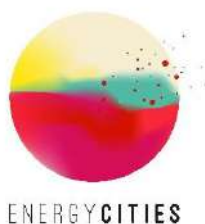
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## TOMORROW - Belgium Study Tour Report

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# Study Tour Leuven & Ghent, 16 October 2019

## ► Objectives

The Belgium study tour aimed at inspiring the Pilot Cities through an exchange and visit of two lighthouse cities in Belgium, Leuven and Ghent:

- Leuven for its impressive governance model of its transition to climate-neutrality via Leuven 2030;
- Ghent for its mainstreaming of citizens' engagement in local policies.

The focus of the study tours lied in understanding the governance processes at stake in both cities.

## ► Preparation

In order for participants to prepare the visit, an overview factsheet for both cities was distributed as well as a tour support underlining specific questioning, offering a matrix to help participants to structure the information flow.





## ▶ Participants

Energy Cities	Stéphane	Dupas
	Frédéric	Boyer
	Sara	Giovannini
DRIFT	Tessa	De Geus
Nis	Bojan	Gajic
	Adrijana	Randjelovic
Brasov / ABMEE	Camelia	Rață
	Irina	Tatu
Dublin / CODEMA	Donna	Gartland
	Suzanne	Fitzpatrick
Brest Metropole	Sylvie	Mingant
	Dominique	Le Ster
Valencia	Nacho	Lacomba
Climate Observatory Valencia	Carlos	Sanchez
	Corentin	Girard
	Andreu	Escriva
Advisory Board	Eric	Vidalenc
	Cristiano	Bottone
EASME	Cécile	Kerebel

## ▶ LEUVEN stop-over



TOMORROW's team was welcome in Leuven by David Dessers, Deputy-Mayor and Katrien Rycken, Leuven 2030 Director.

They both presented the [climate-neutral vision of the city](#) and explained which governance was set-up through Leuven 2030 to implement their transition roadmap successfully (Power-point presentation [here](#)).

This exchange was followed by a visit to some project and exemplary buildings in the city of Leuven (e.g. urban renovation projects to reduce traffic, make the city greener, etc.). More pictures are available in annex.



## LEUVEN detailed agenda

When	What
9:00-10:30	<p><b>Welcome at Leuven 2030</b> - Mayor or Deputy-Mayor of Leuven</p> <p><b>Presentation of Leuven 2030 and the climate-neutral roadmap</b> - Katrien Rycken, Leuven 2030 Director</p> <p><b>Q&amp;A</b></p>
10:30-12:00	<p><b>City tour &amp; visits of Leuven 2030 projects</b> - Geert Vanhorebeek, Advisor on Sustainability, City of Leuven</p> <ul style="list-style-type: none"> <li>● Bondgenotenlaan – main street in city center and impact of new circulation plan (summer 2016)</li> <li>● Janseniushof - Residential development by Resiterra, with ambitious energy concept</li> <li>● Hertogensite – large neighbourhood soon to be developed by Resiterra, KU Leuven, city of Leuven with residential, health and cultural functions and ambitious energy concept</li> <li>● Sluispark – large neighbourhood in full development with new city park</li> <li>● Vaartkom – large neighbourhood in full development for residential and creative functions, close to the water</li> </ul>
12:00-13:10	<b>Lunch - discussion</b> at Noordoever

## ▶ GHENT stop-over

In the Municipal Council room of Ghent, TOMORROW's team heard about [Ghent's transition strategy](#) and actions which allow them to be finalist of the prestigious EU Green Capital Award. More information is available [here](#).

After this general presentation, two specific initiatives of Ghent to involve citizens in the transition of their cities were highlighted:

- Living streets: more info [here](#)
- Green neighbourhood power: more info [here](#)

The study-tour ended by a cycling visit of one living-street, allowing participants to test their cycling skills in a friendly-cycling city.



## GHENT detailed agenda

When	What
14:30 – 15:30	<b>Welcome at Town-hall: Ghent climate and energy ambition</b> Sofie Verhoeven, City of Ghent
15:30 – 17:00	<b>Living Streets: citizens lead the transition</b> Sofie Rottiers and Hanne Geutjens, City of Ghent
17:00 – 18:00	<b>“Buurzame stroom”: Green electricity district</b> Sofie Verhoeven, City of Ghent
18:00 – 19:00	<b>Free-time</b>
19:00 – 20:30	<b>Dinner</b> at De Apelier

## ▶ Main Outcomes

The Belgium study-tour offered the opportunity to TOMORROW's pilot cities to discover some innovative forms of governance and citizens' engagement in the transition to the clean energy transition.

## Feedback from participants

The feedback from Pilot cities is very positive, although participants would have liked to have more time discovering those innovative practices.

Some quotes extracted from the feedback survey:

“The experience of Ghent taught me that you don't need to implement large projects to be proud and recognized”

“The visits to the Lighthouse cities were really inspirational, particularly Leuven and the example of best practice governance”

## ► Visibility of TOMORROW

- Article in [Leuven's media](#) for Dutch readers.
- Article in [La Vanguardia](#) (Spain media)
- See some of the tweets from the participants at [#citiesOFTOMORROW](#)



Next on TOMORROW's partners study tour: let's hop on our bikes and learn about how the city Gent gave the streets back to its citizens with the Living Street project

 [#CitiesOFTOMORROW](#)



**Codema** @CodemaDublin · 16 Oct

Excellent presentation this morning by @KatrienRycken on @leuven2030 plan to make it the city one of the most [#sustainable](#) & liveable in Europe [#CitiesOFTOMORROW](#) [#RoadTo2050](#)



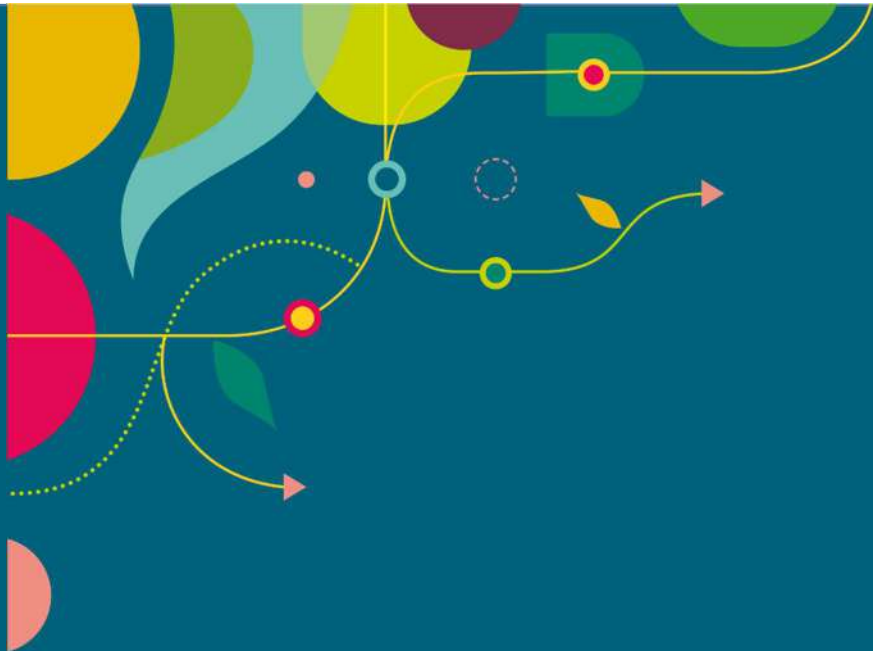


# TOMORROW

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# NANTES Study Tour Report

## Lighthouse city visit



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## **NANTES Study Tour Report**

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# Study Tour in Nantes, 4-7 February 2020

## Objectives

The study tour organised in Nantes combined a training on Transition Management, supported by DRIFT and exchanges with staff and stakeholders from Nantes Metropole, with the objectives to:

- Understand theories and practices of Transition Governance, transition thinking and Transition Roadmapping;
- Learn transition governance skills such as system analysis, transition roadmapping design, monitoring and evaluation, etc.
- Learn from Nantes' citizens and stakeholders' engagement process;
- Exchange insights from each other's cities and dynamics and improve collaboration and support among all TOMORROW cities and partners;
- Support each other to prepare for the next phases in each city by starting to develop a Transition Roadmapping Action Plan.

## Preparation

In order for participants to prepare the visit and the training, some preparatory assignments had been requested (e.g. filling the Transition Governance Roadbook and preparing a short presentation on progress made) and supporting documents shared to help participants to structure the information flow.





## ▶ Participants

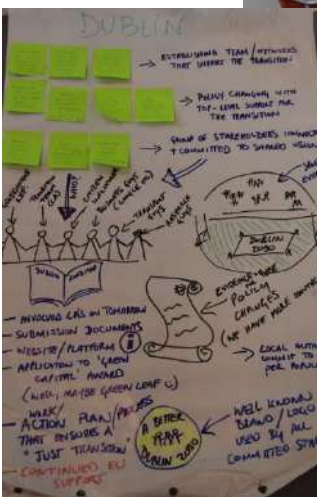
Energy Cities	Stéphane	Dupas
	Frédéric	Boyer
DRIFT	Tessa	De Geus
	Julia	Wittmayer
	Giorgia	Silvestri
Nis	Bojan	Gajic
Brasov / ABMEE	Irina	Tatu
Dublin / CODEMA	Donna	Gartland
	Suzanne	Fitzpatrick
Brest Metropole	Sylvie	Mingant
	Dominique	Le Ster
Pays de Brest	Anne-Claire	Urvoas
Valencia	Nacho	Lacomba
Climate Observatory Valencia	Alejandro	Gomez
Mouscron	excused	

## ▶ Study Tour – agenda overview and support materials

	Tuesday	Wednesday	Thursday	Friday
<b>Morning</b>	Travels and arrival	<a href="#">Applying the Transition Diagnostic tools</a>	<a href="#">What is 'good' participation?</a>	Making a transition roadmapping action plan
			<a href="#">Finding the right strategic instruments to match your city's transition path</a>	Next steps, final reflections and goodbyes
<i>12:00-13:00</i>		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
<b>Afternoon</b>	14:00 Welcome and introductory round	Next steps in TOMORROW	Reflexive walk	Departures and travels
	<a href="#">Transition governance refresh</a>	Discussion session: Strategic governance of the energy transition in Nantes Metropole <a href="#">Materials</a>		
	<a href="#">Presentations by cities</a>		Dinner at Les Bien Aimes (TBC)	
	Walking tour Dinner @ Totum Bistro (TBC) (vegan)			

## ▶ Main Outcomes

The Nantes study-tour offered the opportunity to TOMORROW's pilot cities to advance on the analysis of their energy system, identify key elements for its transition and understand practically how Nantes organised its large citizens' engagement campaign into the energy transition.



## Feedback from participants

The feedback from Pilot cities is very positive. They have very much appreciated the time spent in small groups experimenting transition management tools with the support of DRIFT. Besides, the open exchange with several services of Nantes

Metropole and relevant stakeholders on the “Great Debate” was considered very inspiring for the activities the Pilot Cities have to implement to develop their roadmap.

Partners from Nantes Metropole very much appreciated the feedback by their peers from the Pilot Cities.

## ▶ Visibility of TOMORROW

- [Blog](#) on TOMORROW’s website



- See some of the tweets from the participants at [#citiesOFTOMORROW](#)



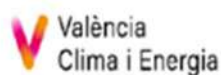
**drift**  
for transition



ENERGYCITIES



Asociația „Agenția pentru Managementul  
Energiei și Protecția Mediului” Brașov





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## Rationale and objectives

Developing and adopting a long-term strategy for climate and energy transition or towards climate-neutrality requires to develop some science-based strategies or scenarios. There are different approaches and tools to fixing targets and tracking the progress made along the years. They include “carbon budget”, “climate-proofed budget” among others.

The aim of this webinar was to get some hands-on knowledge on some “science-based” approach to fix climate ambition and delineating the scopes of the policies to be included in a long-term transition roadmap.

More specifically, this webinar allowed participants to learn about:

- The Carbon-Budget of the City of Manchester
- The climate-budget of Oslo
- The “science-based target setting of Leuven

## Agenda

9.30-9.40	Welcome by Energy Cities and introduction to the webinar
9.40-10.30	Manchester’s carbon budget <ul style="list-style-type: none"> <li>- Presentation by Jonny Sadler</li> <li>- Q&amp;A</li> </ul>
10.30-11.20	Oslo’s climate budget <ul style="list-style-type: none"> <li>- Presentation by Karine Hertzberg</li> <li>- Q&amp;A</li> </ul>
11.20-11.35	Break
11.35-12.25	Leuven’s climate-neutral ambition <ul style="list-style-type: none"> <li>- Presentation by Jan Aerts</li> <li>- Q&amp;A</li> </ul>
12.25-12.30	Closing

## Contributors to the webinar



**Jonny Sadler** is responsible for coordinating the delivery of the [Manchester Climate Change 2020-2025](#), the city's current climate change strategy. The Framework commits the city to action on direct CO2 emissions, consumption-based CO2 emissions and all flights from Manchester Airport. The Manchester approach is being shared with 6 other EU cities during 2020-22 through the [URBACT Zero Carbon Cities](#) project, led by Manchester.



**Karine Hertzberg** is the international coordinator on Climate at the city of Oslo. Before joining the administration in Oslo, she worked at the Ministry for climate and environment in Norway, on international climate negotiations and Norway's climate target for 2030. Norway has pledged to increase its 2030 target to an emission reduction of 50 to 55% by 2030. Karine was recently posted as counsellor for climate and environment at Norway's embassy to the US, working with states and cities on climate change.



**Jan Aerts** works at the Technical Department of the KU Leuven in the Division 'Energy Policy for Buildings'. He is 100% seconded to Leuven 2030 to manage the European funded renovation program [L.E.U.V.E.N.](#) and co-coordinated the writing of Leuven Roadmap 2050.

Before joining KU Leuven, Jan carried out the baseline measurement for the city of Leuven and co-authored the scientific report. He was then active at [Futureproofed](#) where he also collaborated on the climate action plans for the Province of Flemish Brabant and the cities of Antwerp and Mechelen.

## For further information

[Energy Cities' Briefing](#) on how to implement carbon or climate-proofed budgets.

[Manchester Climate Change 2020-2025](#)

[Leuven 2050 Roadmap](#)

[Oslo carbon budget](#) and [Webinar on Oslo carbon budget](#)





# Takeaways

PPT slides used during the webinar are available [here](#).

All participants had the opportunity to learn about science-based approach to climate target setting from 3 frontrunner cities in Europe.

## **Carbon Budget as implemented in Manchester**

- Commitment on direct emissions
- Commitment on aviation emissions
- Commitment on indirect / consumption

The carbon budget is based on cumulative emissions so it does not matter when you become Climate-neutral (e.g. for Manchester, at current space, all budget to be spent by 2025).

That shows the urgency of action and is very useful to support the commitments taken by politicians.

## **Climate budget as implemented in Oslo**

- Commitment of Oslo on direct and indirect (scope 1, excluding scope 2 because very small + Scope 3 although no data)
- Climate budget under the Financial Department management
- Only direct emissions (scope 1)

## **Futureproof approach in LEUVEN 2030**

- Baseline in 2010 (but cold year)
- Scope 1 and 2
- Climate neutrality considered initially as balance between emissions and capture&storage but very low “forest uptake” so abandoned

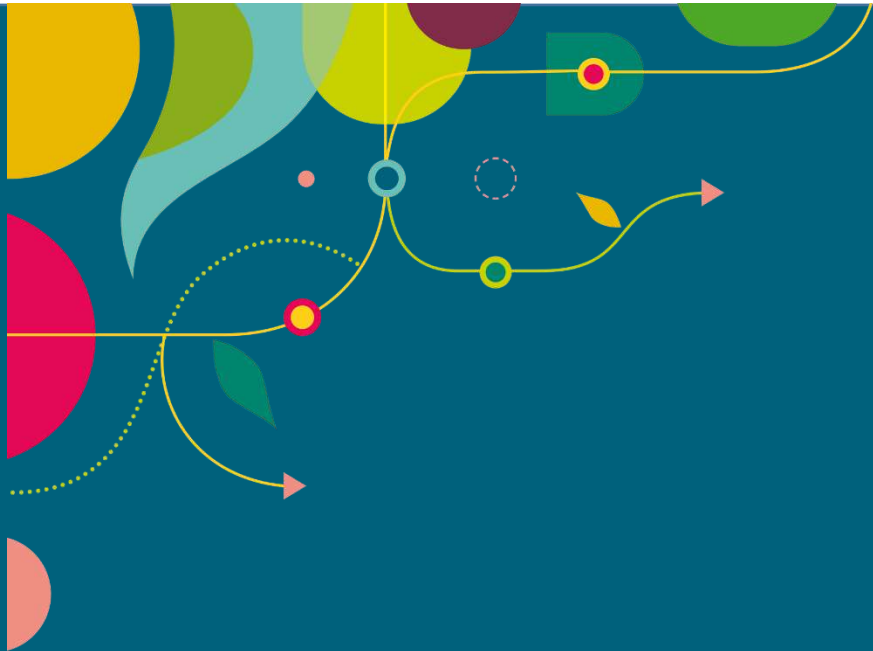
### 2 scenarios by 2030 and 2050

- 67% by 2030
- 80% by 2050

The time is now (doing what must be vs what can be achieved)

Now including scope 3 to identify hot spots





# Training on citizens and stakeholders' engagement

7 December 2020

Ingrid Prikken



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The first months of preparation of the engagement phase allowed us to assess the support needs of the pilot cities. One striking conclusion was the need of methodological inputs in order for pilot cities to grasp the bandwidth of possibilities existing to engage stakeholders and citizens within the roadmap development process. DRIFT and Energy Cities were able to share their knowledge. In order to bring additional inputs, we decided to organise a specific session with a professional of public engagement. A focus was made on how to handle subcontracting a service provider on this topic. This session took place on 7 December 2020.

Format: Online session on citizen and stakeholder engagement, with a focus on commissioning engagement expertise

Objectives: This session aimed at providing pilot cities with tips and inspiration to meaningfully engage their communities

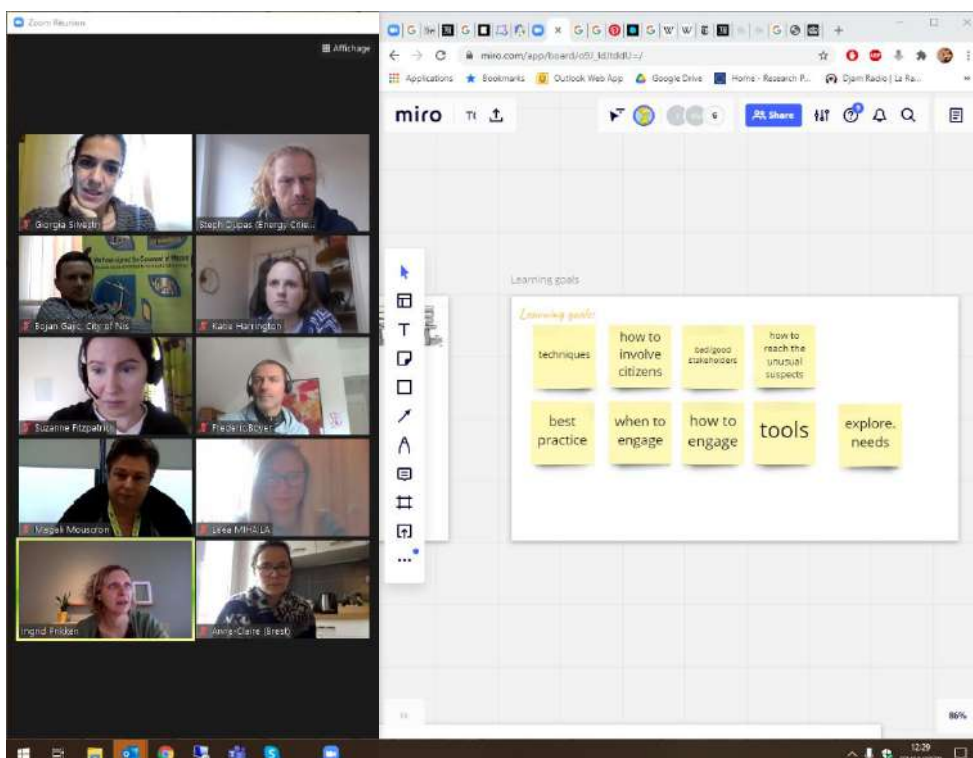
- Learn more about engagement by thinking through the purpose, publics and exploring good practice.
- Practically think about planning and implementing engagement processes, including skills needed and what expertise may be brought in from outside.

Length: 3 hours

Service provider: Ingrid Prikken | <https://prikkenadvies.nl/>

### Ingrid Prikken Advies

Ingrid Prikken (<https://www.linkedin.com/in/ingrid-prikken-advies/>) was chosen to give this training because of her many years of experience in facilitating and researching about public engagement, as well as for her profile that includes deeper knowledge of working with local authorities.



The screenshot displays a Zoom meeting interface on the left, showing a grid of 12 participants. The names visible are: Georgia Bireath, Steph Coupat (Energy Cities), Bojan Sajc (City of Nis), Kasia Harrington, Susanne Fitzpatrick, Piete H. Boks, Wajid Moudran, Lisa Minski, Ingrid Prikken, and Anja-Clare (Breat). On the right, a Miro board is visible with the title 'Learning goals'. The board contains several sticky notes with the following text: 'techniques', 'how to involve citizens', 'sad/good stakeholders', 'how to reach the unusual suspects', 'best practice', 'when to engage', 'how to engage', 'tools', and 'explore. needs'. The browser address bar shows 'miro.com/app/boards/05J\_1d10d11-?/'. The system tray at the bottom indicates the time is 12:29 on 07/12/2020.

Participants:

CODEMA (Dublin, Irland)	Suzanne Fitzpatrick
ABMEE (Brasov, Romania)	Camelia RATA (ABMEE Director)
	Leea MIHAILA (Communication)
Mouscron (Belgium)	Magali Viane Celine Holvoet
Brest (France)	Anne-Claire Urvoas
Valencia (Spain)	Alejandro Gomez
Nis (Serbia)	Bojan Gajic
Drift	Giorgia Silvestri
Energy Cities	Frederic Boyer Stephane Dupas

# WELCOME!

Monday  
7 december  
2020

Online session:  
Citizen and stakeholder engagement

Start  
9:30 am  
(CET)

Ingrid Prikken - trainer & facilitator  
Contact: [ingrid@prikkenadvies.nl](mailto:ingrid@prikkenadvies.nl)

Finish  
12:30 pm  
(CET)



**TOMORROW**  
nl

# Programme

9:30 start

Introduction

Why engage?

break

Who are you  
engaging?

How to  
engage?

break

Transition  
roadmap:  
planning  
engagement

12:30 end

Reflections

*Learning goals:*

techniques

how to  
involve  
citizens

bad/good  
stakeholders

how to  
reach the  
unusual  
suspects

best  
practice

when to  
engage

how to  
engage

**tools**

explore.  
needs



# What could go wrong if we don't engage?

Lack of democracy

Citizens feel left out of the transition process. Lack of receptiveness to changing behaviour

Politicians not re-elected

We do not have stakeholders as part of the process

There is not trust in public authorities

Opposition to projects.. demonstration

Transition roadmap is not representative of all stakeholders needed in the process.

Opposition from citizens not engaged

Citizens do not feel as true beneficiaries

We take decisions that will not be supported

Solutions are designed only by politicians and administrative staff

policies not aligned with citizens' needs & aspirations

It's all in the hand of bureaucrats...

Citizens are left out of the process and do not trust the results as they are not connected to them

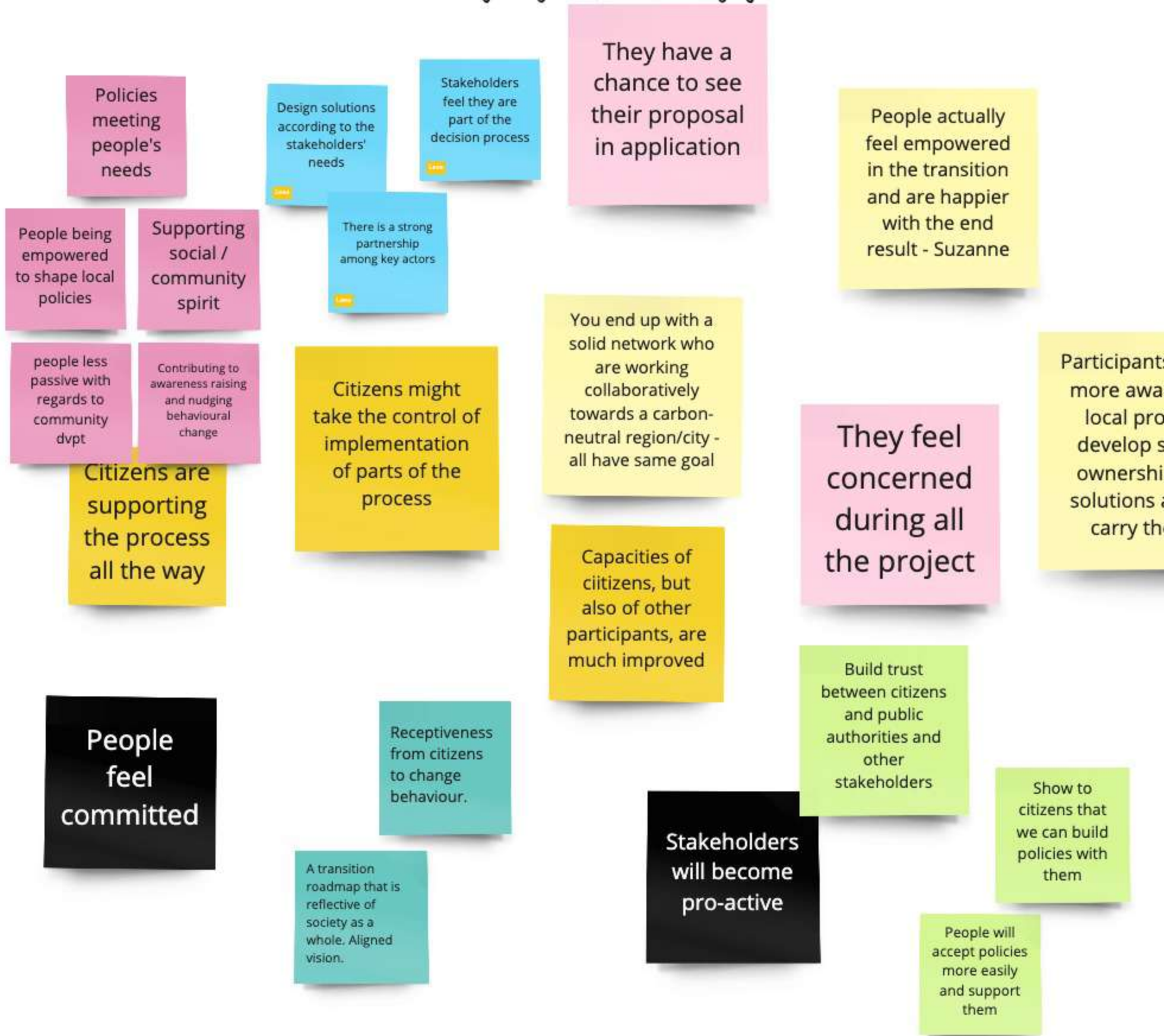
Citizens are making harder the implementation processes

There would be no collective buy-in from citizens and stakeholders so the status quo would remain, no follow through or action. Suzanne.

# What could go wrong if we do engage?



# What could go right if we do engage?



group 1  
katie, leea  
and steph

## Games

where the primary goal isn't entertainment but raising awareness, education or training.  
It could be a board game, cards, simulation or online game.

How does it  
work?

These games serve as tools for acquiring complex knowledge about for example energy futures, city planning, climate change.

The users learn through experimentation and inquiry-based learning.

Can be used to change behaviours, for example regarding energy use in the home.

Serious games examples:

- **My2050 online game** where you make decisions about energy supply and demand, aiming to build an understanding of (new) technologies and the complex trade-offs that have to be made to meet the 2050 carbon reduction goals.
- **PlayDecide card game**, enables players to get familiar with a question, for example around climate change policy, see it from different perspectives and form or clarify their own opinion. PlayDecide also invites players to look at issues as a group: can you reach a positive consensus?
- **Participatory budgeting board game**, a tool you can use with citizens to deliberate and negotiate about the allocation of public funds.

Strengths?

Weaknesses?

When would  
you use it?

When not?

Would it work  
in your  
process? Why  
(not)?

Interactive  
Fun  
Think outside the box  
(allowed by game setting)  
See a different perspective  
(change roles)

Not taken seriously  
Might not be  
inclusive (ex: might  
need a  
smartphone...)  
Time consuming

Working  
with  
schools

Officials  
Councilors

Depending  
on target  
audience!

group 2  
magali &  
suzanne

## Appreciative inquiry

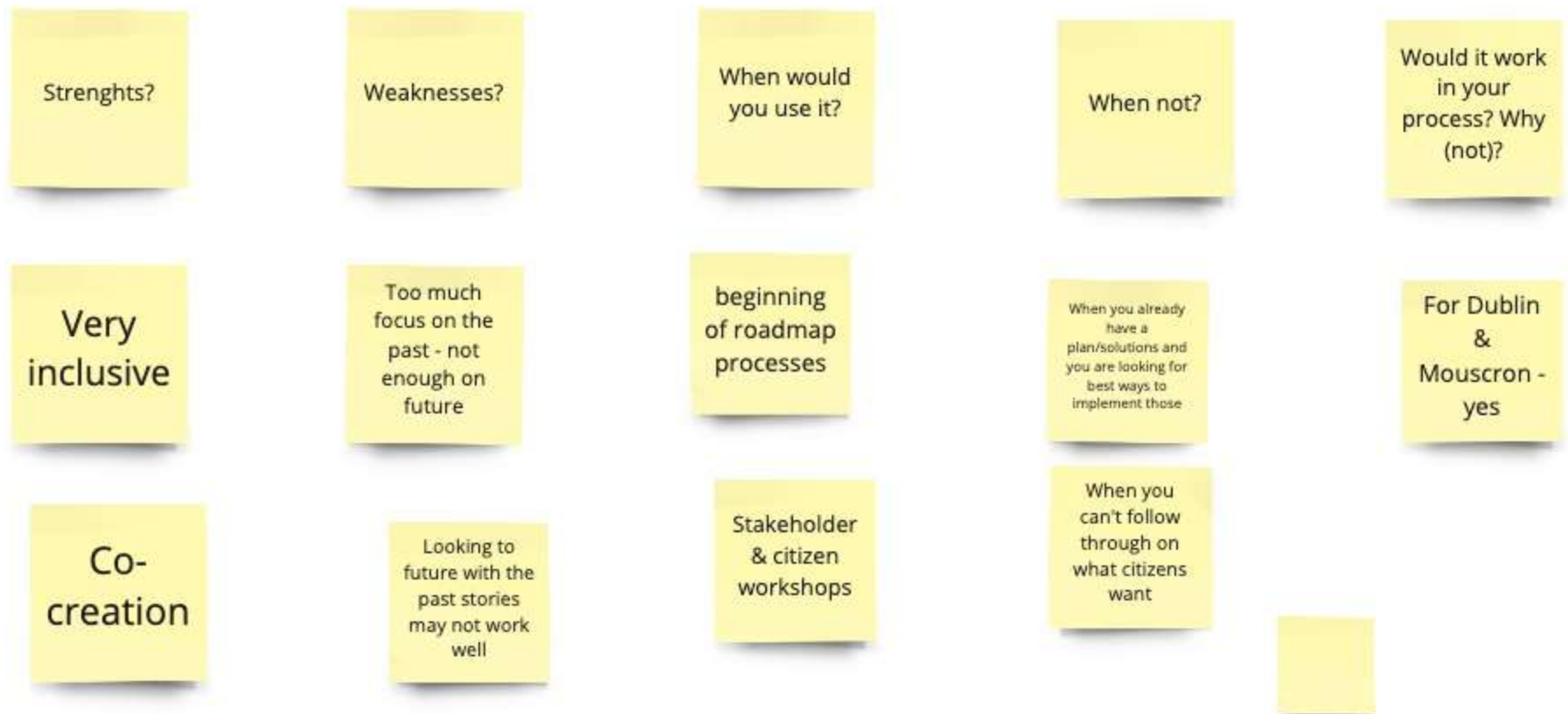
A method to build a vision for the future using questions to focus people's attention on past success. People are encouraged to tell stories from their own experience of what works and their hopes for the future of their communities.

How does it  
work?

By discussing what has worked in the past and the reasons why, the participants can build on that to create a vision of what would make a successful future.

1. In the Discovery stage is asks "what works?" (instead "what are the problems?")
2. In the Dream stage they envision what their ideal neighbourhood or project would look like, building on the positive features from the first stage.
3. In the Design stage they identify concrete steps that can make the dream reality.
4. Destiny stage is focused on action and implementation.

It can be implemented in a number of ways, but as long as the principle of retrospective appreciation and a future vision remains.



## Citizens' Assembly

A citizens' assembly brings together people from all walks of life to discuss important issues (for example, climate change).

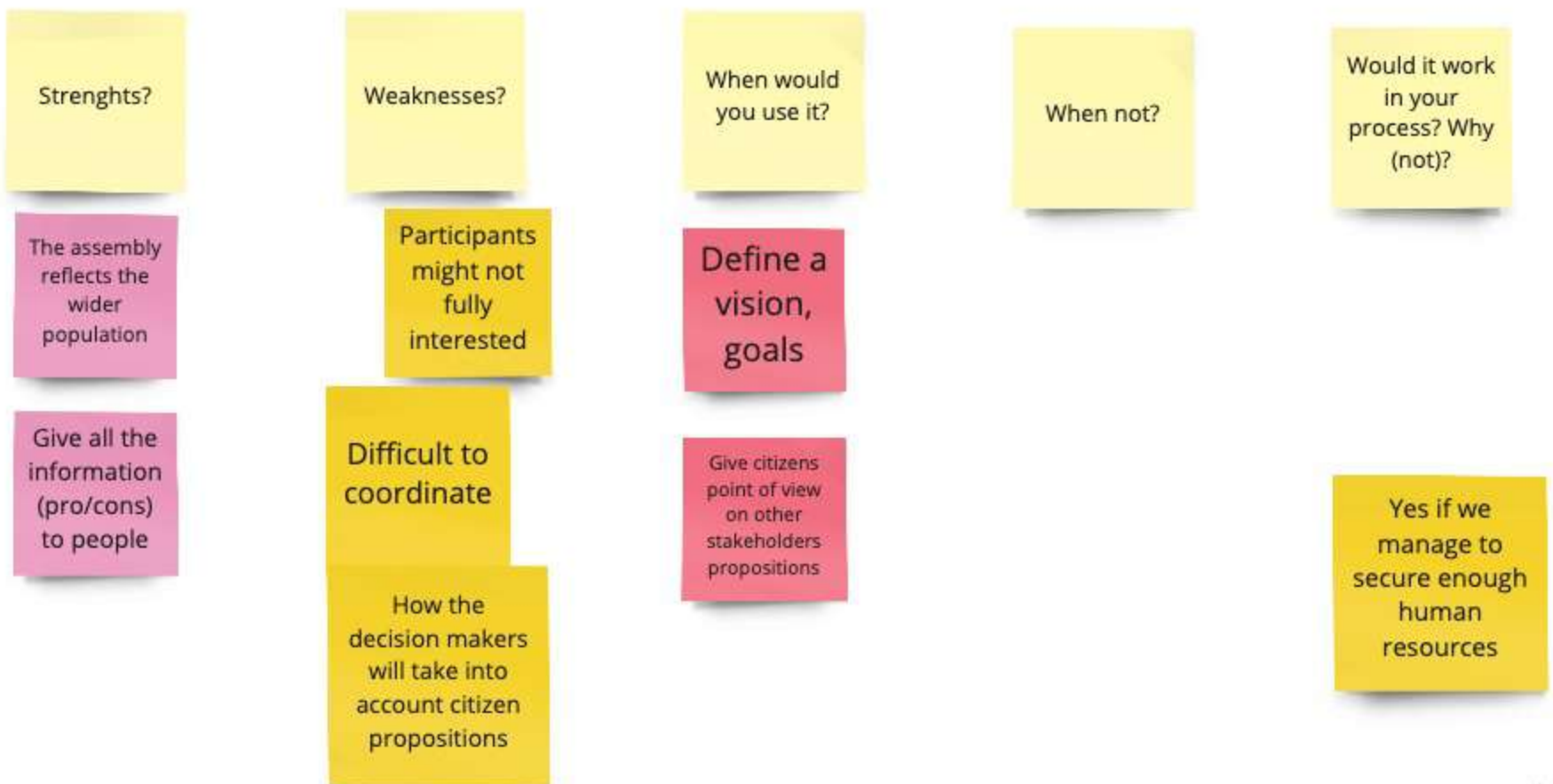
How does it work?

The assembly is a group of people who are brought together to learn about and discuss an issue or issues, and reach conclusions about what they think should happen.

The people who take part are chosen so they reflect the wider population – in terms of demographics (e.g. age, gender, ethnicity, social class) and sometimes relevant attitudes (e.g. their views on climate change).

Participants are given the time and opportunity to learn about and discuss a topic. They hear from, and question, a wide range of specialists. These can include, for example, academics, researchers, people with direct experience of the issue, other stakeholders and campaigners. Through this process, they hear balanced evidence on the issue, before discussing what they have heard with one another and deciding what they think.

Citizens' assemblies usually last for two or more weekends and have forty or more participants. Independent facilitators are there at all times to help ensure everyone's voice is heard. The conclusions of the citizens' assembly are written up in a report that is presented to decision-makers.



## Open Space

'Open Space', is a meeting framework that allows an unlimited number of participants to form their own discussions around a central theme.

How does it  
work?

Participants create and manage their own agenda and self-organise the working sessions. It creates very fluid and interesting conversations held together by mutual enthusiasm for the topic.

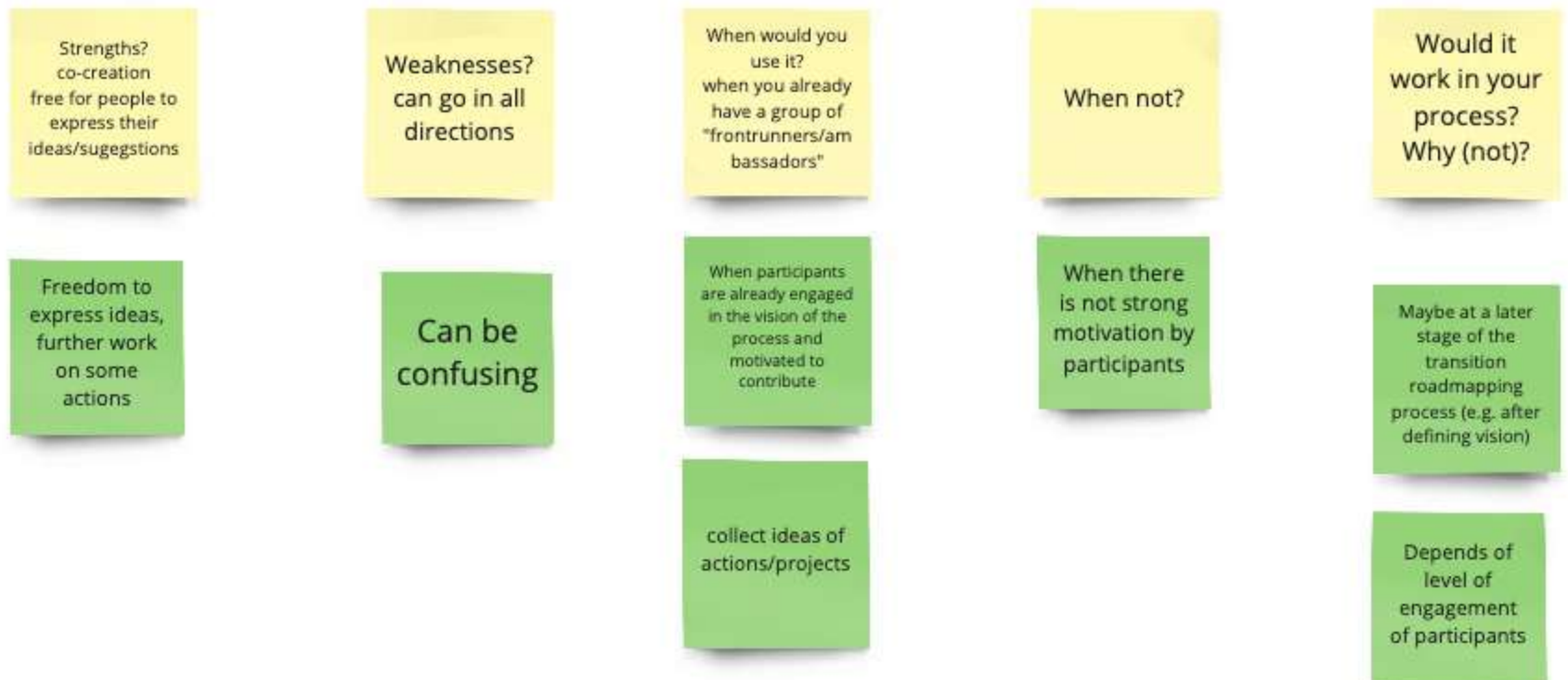
Participants identify issues around a central theme which they are willing to run a session on. When no more discussion topics are suggested, the participants sign up for the ones they wish to take part in.

Open Space creates very fluid and dynamic conversations that are bound through a mutual enthusiasm for the topic. It is good for harnessing the creativity that is stifled by more structured forms of meetings.

The fundamental principles of Open Space are:

- Whenever it starts is the right time: Open Space encourages creativity both during and between formal sessions.
- When it's over it's over: Getting the work done is more important than adhering to rigid schedules.
- Whatever happens, happens: Let go of your expectations and pay full attention to what is happening in the moment.
- There is one "Law", the "Law of two feet": If participants find themselves in a situation where they are not learning or contributing they have a responsibility to go to another session.

To carry actions forward after the event it is vital that there are good written reports from all discussions, complete with action points, available at the end of each day.



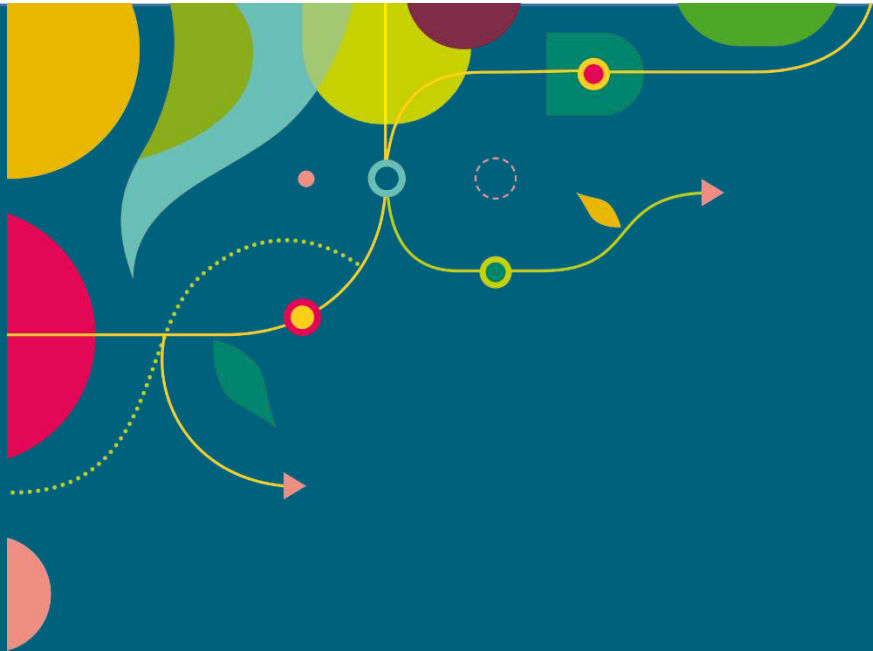


- Where could you be engaging? (*strategic, tactical, operational, reflexive*)
- Why there? Define the purpose
- Who?
- How?

What you need in your transition team to make engagement successful.

- What can you do? What are your limitations?





# Brest online city visit

11-12 May 2021



Funded by the H2020 programme of  
the European Union



**TOMORROW**



## **Report on Peer-to-Peer activities and Cities visits**

The sole responsibility for the contents of this publication lies with the authors.  
It does not necessarily reflect the opinion of the European Union



This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847136.



# Progress in the workplan and work with the Transition Team



Funded by the H2020 programme of the European Union

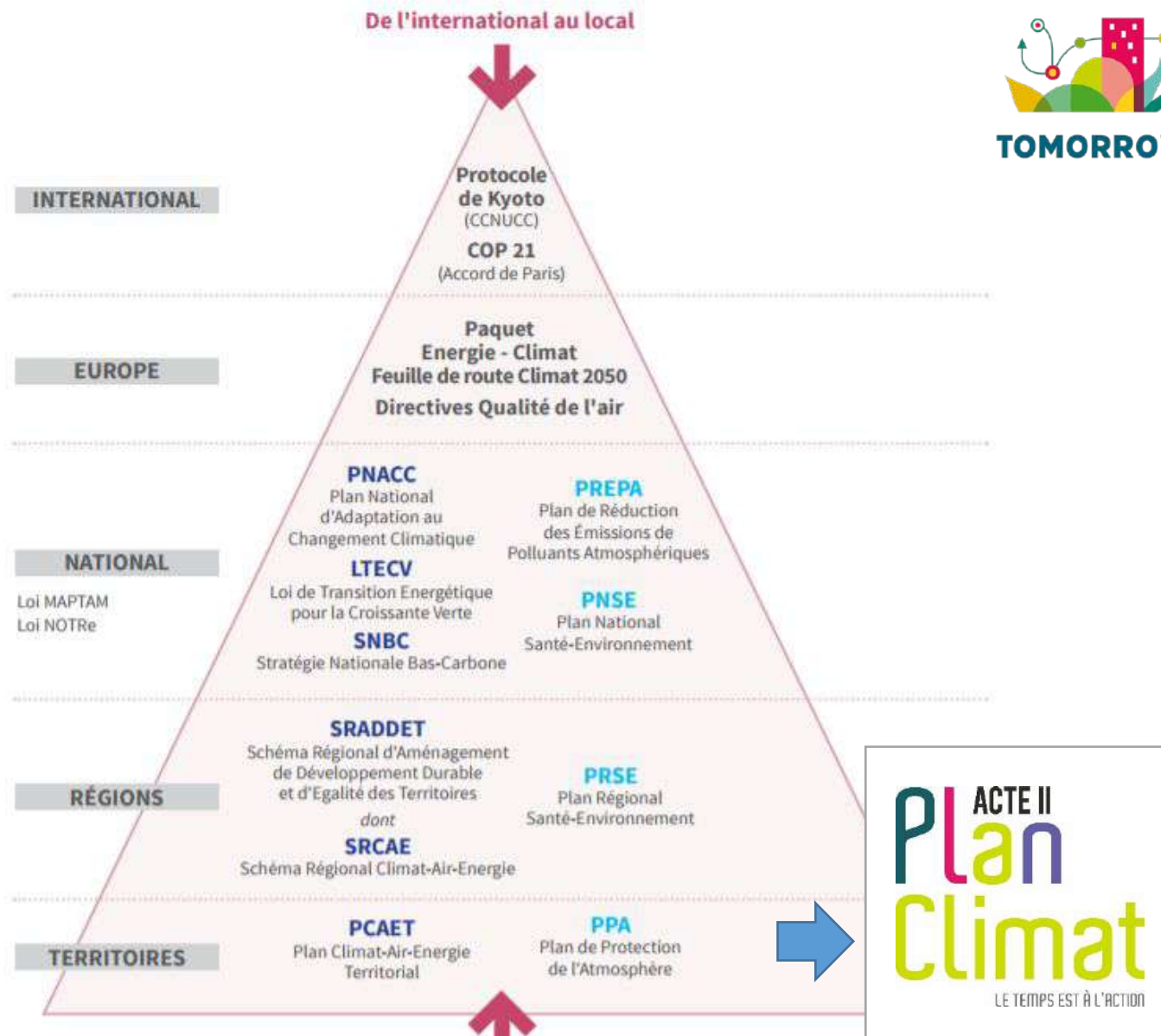


Pays de Brest  
PÔLE MÉTROPOLITAIN



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# • Big picture : our roadmap(s)



- Opportunity to focus on local actors and ask them how they will contribute to our objectives, with a priority on climate change mitigation



- Local objectives in line with higher regulations, next SECAP in 2026
- 60 actions in 13 sectors
- Mostly actions led by the metropolis or its closest partners (eg. Public societies, Ener'gence, ...)



- Meeting first partners – Spring 2020

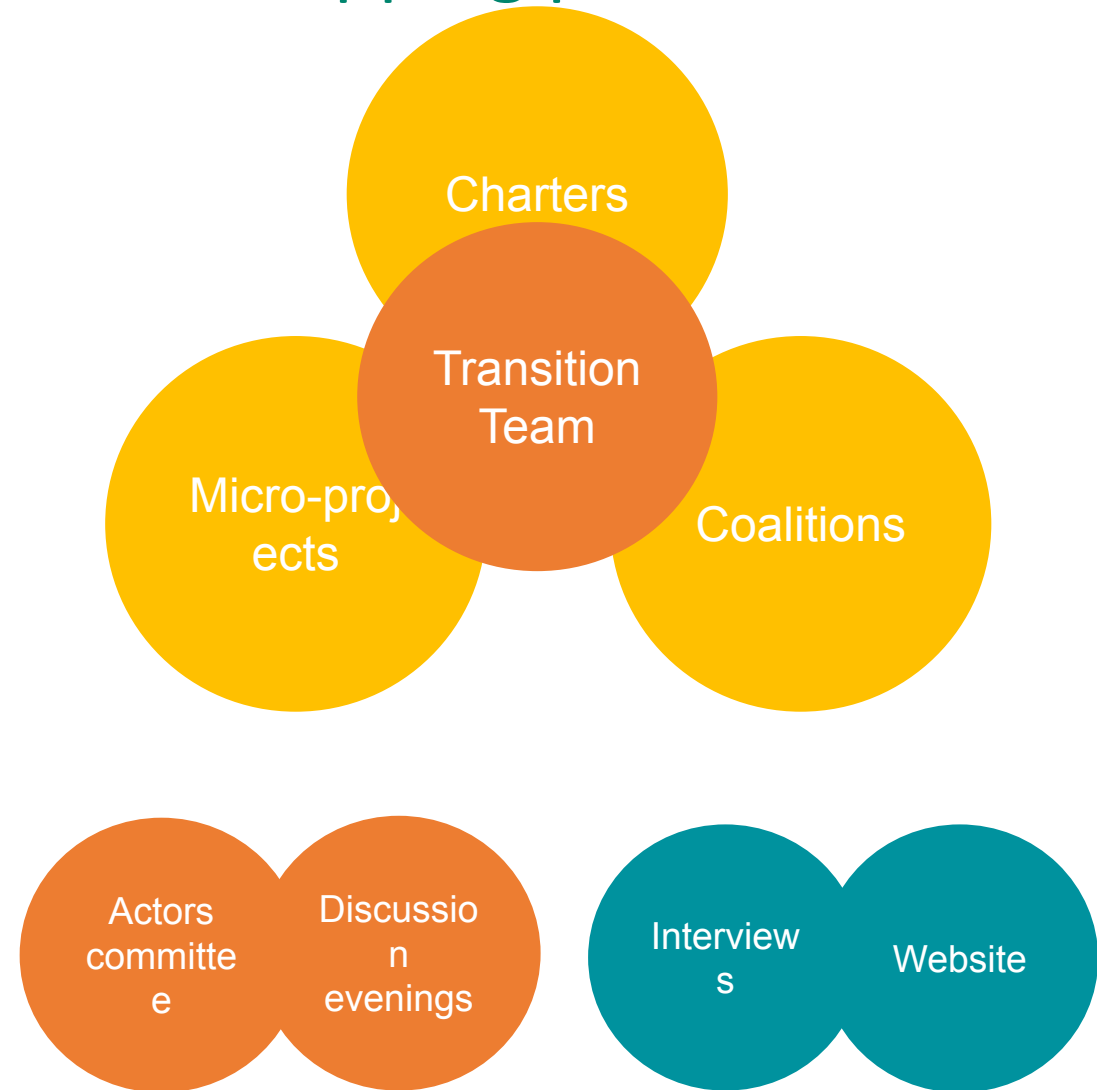
- Main conclusions from local interviews :

- Need of concrete action rather than broad discussions
- Many initiatives and pioneers, but lack of connection or communication
- Major barriers before acting : lack of time, resources, information
- Key message to major actors : energy transition as an opportunity for local development, sustainable city, improvement of our local environment



# • Ambition and core activities of our roadmapping process

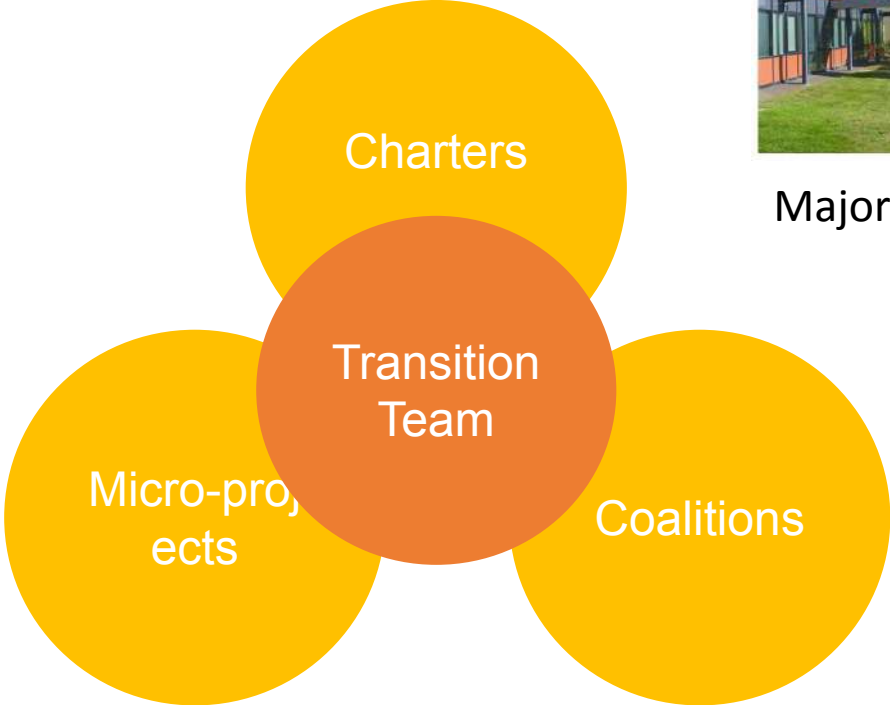
- Define a partnership action plan
  - Individual commitments (charter)
  - Collective commitments (coalitions)
- Encourage proximity actions on energy transition
  - Call for micro-projects
  - Workshops with citizens
- Promote engaged actors
  - Interviews
  - Website
  - Meetings : discussion evenings, annual event
- Governance
  - Different arenas of discussion :
    - Large events
    - Transition Team
    - Actors committee



# • Targets of our roadmapping process



Actors from local areas : municipalities,  
socio-cultural centers, ...  
Associations  
Citizens



Major public and private actors  
Associations  
Municipalities



# • Progress – Launching event in november



Glen DISSAUX  
Vice-président de Brest métropole en charge du Plan Climat, de la COP locale et de l'Agenda 2030

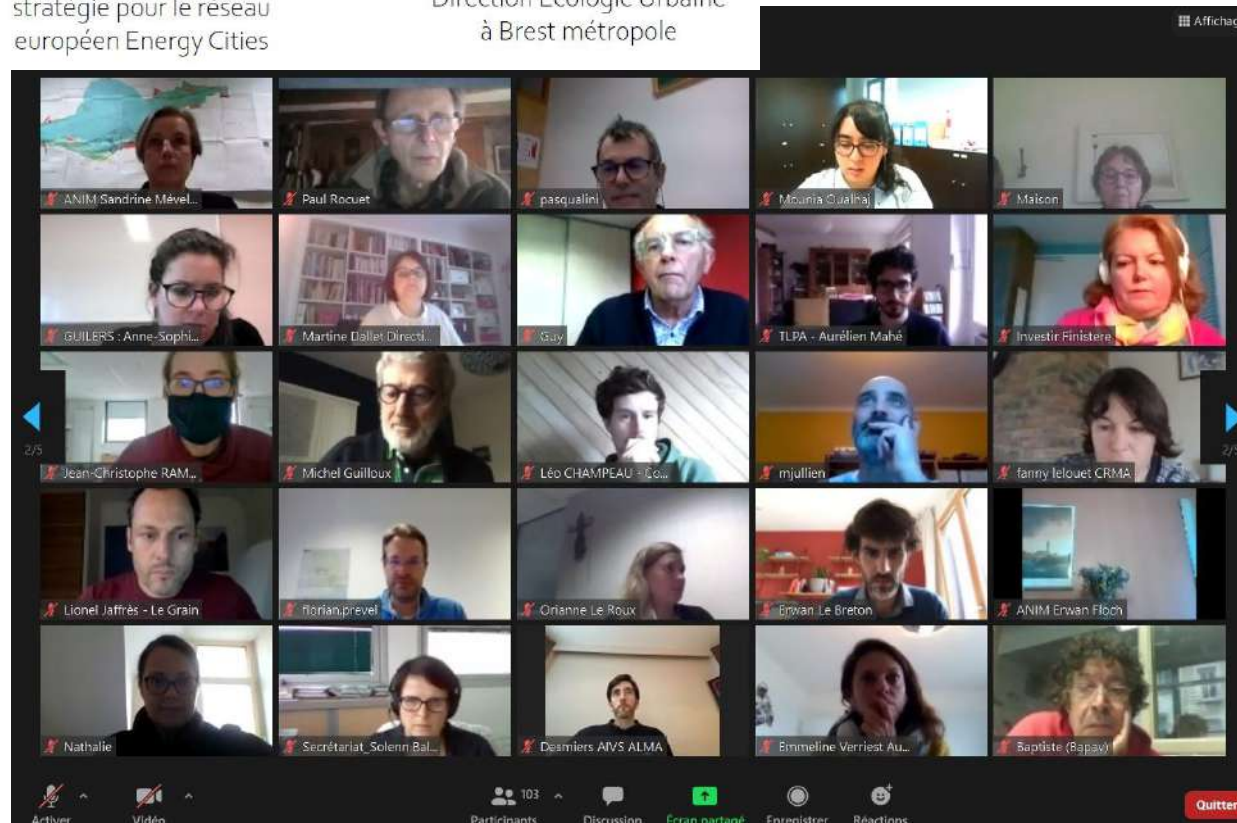


Claire ROUMET  
Coordinatrice, responsable des partenariats et de la stratégie pour le réseau européen Energy Cities



Sylvie MINGANT  
Responsable du service Energie au sein de la Direction Ecologie Urbaine à Brest métropole

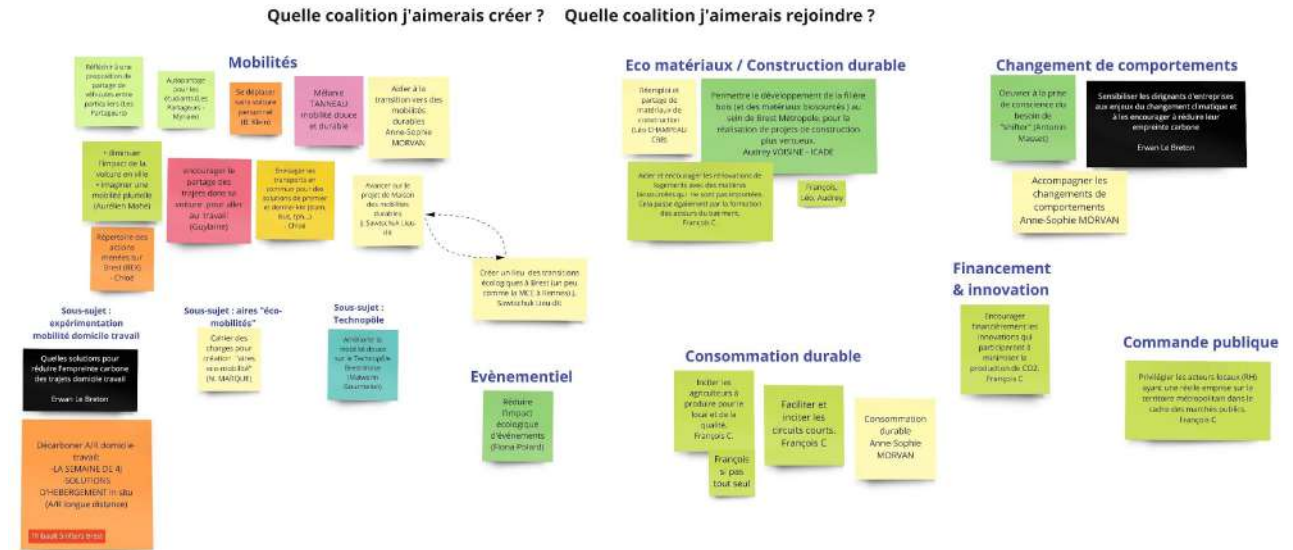
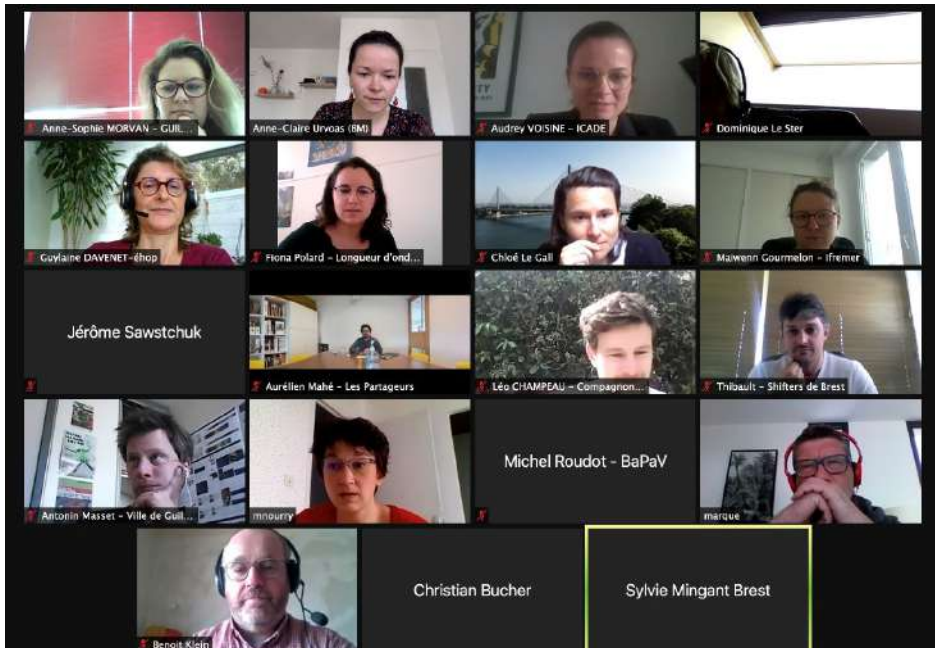
- 150 people interested
- Around 120 participants
- Diversity of profiles
- 8 discussion groups led by external partners from Transition Team





# • Progress – Engaging public and private actors

- Almost 50 individual meetings since January
- 2 workshops on coalitions – 30p + targeted meetings or surveys
- 6 signed and approved charters, around 20 in preparation
- A training for 1st coalitions facilitators in June



- **5 thematic coalitions :**
  - Sustainable events
  - Mobility alternatives to individual cars
  - Reduction of home-work trips
  - Eco-materials
  - Behaviour changes
- **1 geographical coalition :** Technopôle area
- **1 sectorial coalition :** group of students associations

- Progress – Encourage proximity actions

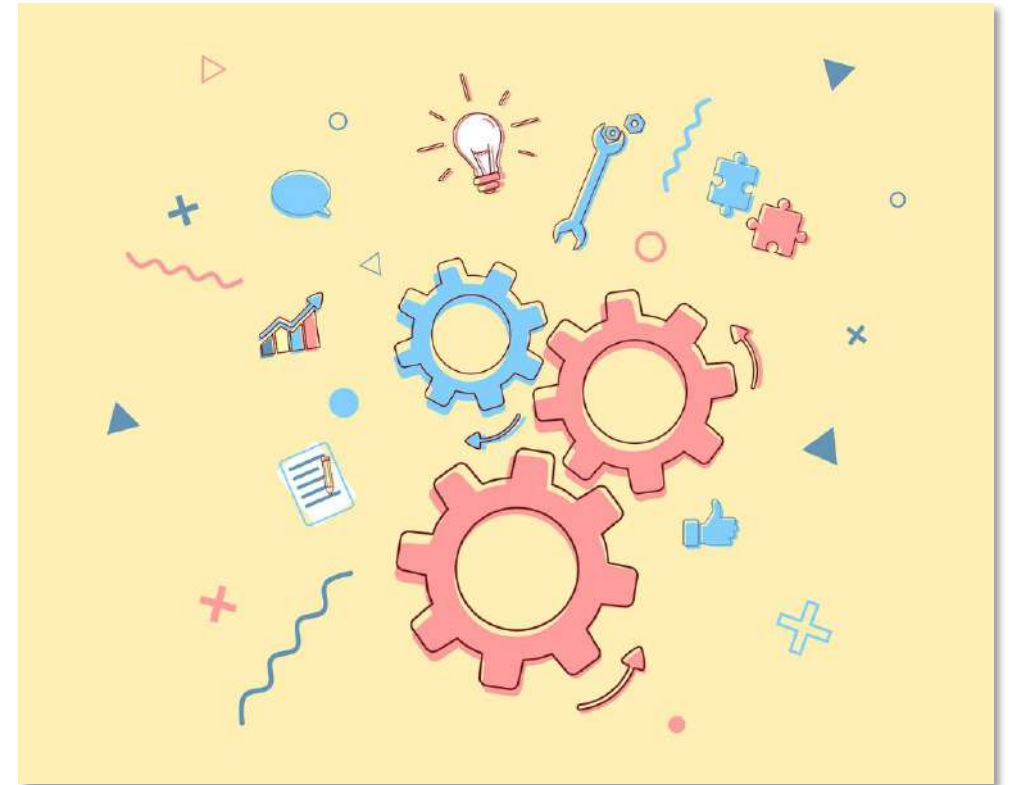
- Call for micro-projects :

- Redefinition of the scope : energy transition rather than climate
- Framework of the call to be voted in July 2021
- First projects to be submitted by October and December 2021

- Workshops to boost citizens projects :

- To be tested during autumn

- Outside TOMORROW, already a multitude of mobilisation projects targeting citizens !



- Progress – Promoting engaged actors
- Interviews
- Website
- Meetings :
  - Discussion evenings : in September ?
  - Annual event : 19<sup>th</sup> of November 2021



# • Monitoring and follow-up

## • For now :

- Satisfaction survey after each event
- Internal dashboard to follow up stakeholders engagement

## • To be developed :

- With charters' signatories and the actors committee : a common basis to monitor engagements
- Ask coalitions to monitor their own actions
- Enter all commitments in a dashboard

## • About the process in itself :

- Plan a reflexive workshop with members of Transition Team

		Important	1	A faire / en attente			
		Moyen	2	Réalisé / Réponse positive			
		Faible	3	Intéressé / En réflexion			
			4	Pas intéressé / Réponse négative			
				Non concerné			
no	NOM	Niveau de priorité	Inscrit 27/11/20	Rdv individuelle	Charte	Coalition	Interview
1	LE SAINT	Important	1	1		2	
2	GRDF	Important	1	1	2	2	
3	BREST'AIM	Important	1	1	1	2	
4	NAVAL GROUP	Important	1	1	2		
5	LA CARENE	Important	1	1	2		
6	AEROPORT BRETAGNE OUEST	Important	1	1	2		
7	CLUB CEZABB	Important	1	1	2	2	
8	MAISON DES ASSOCIATIONS	Moyen	3	1	2	2	
9	CHAMBRE D'AGRICULTURE	Moyen	1	1	2		
10	AR TERR	Moyen	1	1		2	
11	TLPA	Moyen	1	1	2	2	
12	LES PARTAGEURS	Moyen	1	1		2	
13	THEATRE DU GRAIN	Moyen	1	1	2		
14	UBO	Important	1	1	2	2	
15	MADA BREST	Moyen		1			
16	WATER FAMILY	Moyen		1			
17	ICADE PROMOTION	Moyen	1	1	1		
18	SHIFTERS	Moyen	1	1		2	

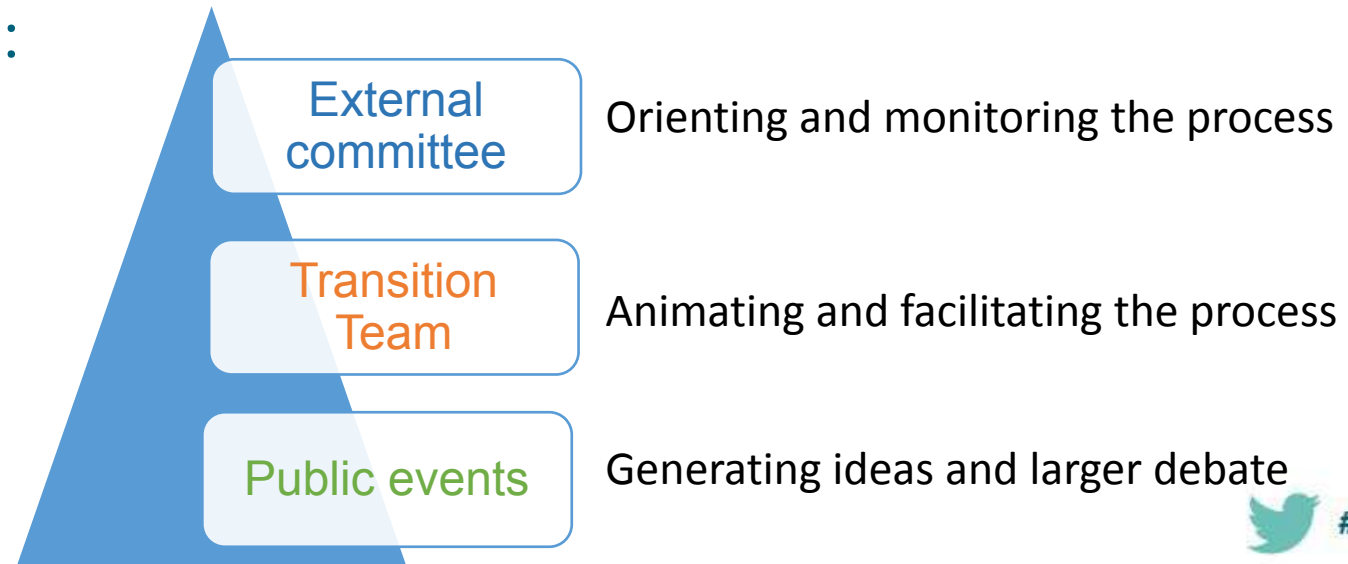
- Governance of the process

- For now :

- Weekly meeting with Sylvie and Dominique
- Meeting every 2 months with Transition Team + one-off meetings or requests by email
- Political :
  - Bi-monthly meetings with Glen Dissaux (VP)
  - 1st meeting of the Energy Steering Committee in April (VP from the metropolis)



- Evolution proposed :



- Transition Team
- Members – internally

LOCAL AUTHORITY SERVICES	
Department	DIRECTION / MISSION
Public space and environment	Urban ecology (Energy, air, health, environment, awareness campaigns)*
	Waste*
	Roads, networks, infrastructures (Street lighting)*
Economic and urban development	Economic development (Corporate Relations)*
	Mobility and transports*
	Metropolitan projects and facilities*
	Housing*
	Urban dynamics*
	Territorial food project and agriculture*
Cultural, educational and sports development	Urban planning*
	Sport
	Culture and heritage
Solidarity, citizenship, proximity	Education
	Proximity (Districts, cities, participatory approaches)
General direction	Urban social development
	Communication*
Strategy and foresight mission	Sustainable development*

\*already implied in the SECAP action plan

- Transition Team
- Members – externally

EXTERNAL PARTNERS	
TYPE	ORGANISATION
Association	Collectif Le Lieu Dit PCIES
Citizen network	Réseau des Citoyens du Climat
Civil society	Conseil de développement de la Métropole et du Pays de Brest
Consular chamber	Chambre d'Agriculture
FabLab	UBO Open Factory
Private – Bank	Crédit Agricole
Private – Business club	Club CEZZAB
Private – Higher education school	IMT Atlantique
Public - Culture	La Carène
Public – Energy and climate agency	Ener'gence
Public - Health	CHRU
Public – Local cooperation	Pôle Métropolitain Pays de Brest
Public – Urban planning	ADEUPA
Public-private – Mixed economy society	Brest'Aim

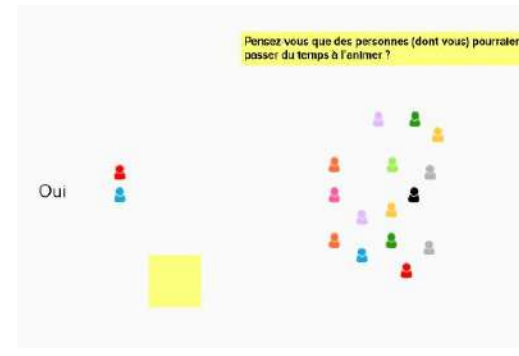
# • Transition Team

## • Missions

- Giving recommendations on the process (call for projects, governance model, ...)
- Giving recommendations on actors' commitments or coalitions
- Participating or being a facilitator in coalitions
- Sharing contacts, tips, news...
- In the coming months : helping with micro-projects analysis

## • Challenges

- Keeping members involved in the implementation phase
- Keeping members well informed of the process







# Focus on the engagement charter



Funded by the H2020 programme of the European Union



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# • Charter – Objectives

## • Why a charter ?



- For Brest métropole :
  - Get to know actors' commitments for climate, including key actors missing from the SECAP elaboration and implementation
  - Be able to bring advice and recommandations
  - Be able to promote best practices and put in relation actors with common issues
- For signatories :
  - Inform Brest métropole and other stakeholders about their commitments
  - Have a structure to guide their reflections

**NOTICE - CHARTE D'ENGAGEMENT POUR LE CLIMAT**

**1. Préambule**

Brest métropole a élaboré en 2018 et 2019 son Plan Climat Air Énergie Territorial (PCAET) 2019-2025, qui prend la suite du premier Plan Climat de 2012. Cet outil de planification doit permettre de répondre aux enjeux climatiques à l'échelle locale en atténuant le changement climatique et en s'adaptant pour diminuer la vulnérabilité du territoire.

Les actions mises en œuvre ont pour objectif de réduire nos émissions de Gaz à Effet de Serre (GES) et nos consommations d'énergie, tout en développant le potentiel des énergies renouvelables.

**LES OBJECTIFS**

La métropole s'aligne sur l'objectif national dit « Facteur 4 » qui consiste à diviser par quatre les émissions de GES d'ici 2050 par rapport à l'année de référence 1990. En prenant 2010 comme année de référence, les objectifs du PCAET de Brest métropole sont :

	A l'horizon 2030	A l'horizon 2050
Réduction des émissions de Gaz à Effet de Serre	- 34 %	Diviser par 3,8
Réduction des consommations d'énergie	- 20 %	- 50 %
Production d'énergies renouvelables*	28 %	

\* part de la production locale dans la consommation du territoire

La métropole peut agir sur une part limitée des émissions de gaz à effet de serre du territoire. Elle

- Charter – Structure

- Preamble : objectives of the charter and of the SECAP, main SDG targeted.

- Commitments :

- **Level 1 : I adhere**

- Take into account the criteria "greenhouse gas emissions" and "emissions of local air pollutants" in its decisions.
    - Appoint a referent for the Climate Plan.
    - Participate in the annual meeting of partners and share experiences.
    - Involve its staff in the process (training, awareness raising).
    - Promote the Climate Plan to its partners and audiences (residents, customers, visitors, spectators...).
    - The partner undertakes to provide an annual report before the annual meeting of partners.

- Charter – Structure

- Commitments :

- **Level 2 : I adhere and I act**

- Axis 1: Saving energy and switching to renewable energies
    - Axis 2: Moving differently
    - Axis 3: Eating sustainably
    - Axis 4: Reducing and recovering waste
    - Axis 5: Act globally and locally
    - Axis 6: Raising awareness and participating in behavioural change

- Charter – Structure

- Commitments :

- **Level 3 : I adhere, act and I set quantified objectives**

- Detailed action plan attached to the charter
    - For buildings - The action plan specifies the objectives of :
      - Reduced energy consumption.
      - Reduction of CO2 emissions.
      - Production of renewable energy.
      - Other relevant criteria proposed by the organisation.
    - For other actions - The action plan specifies, for example, the objectives of :
      - Renovation of X dwellings for a landlord.
      - Integration of X % of organic and local produce in the collective catering sector.
      - ...

- Charter – Structure
- Commitments of the metropolis



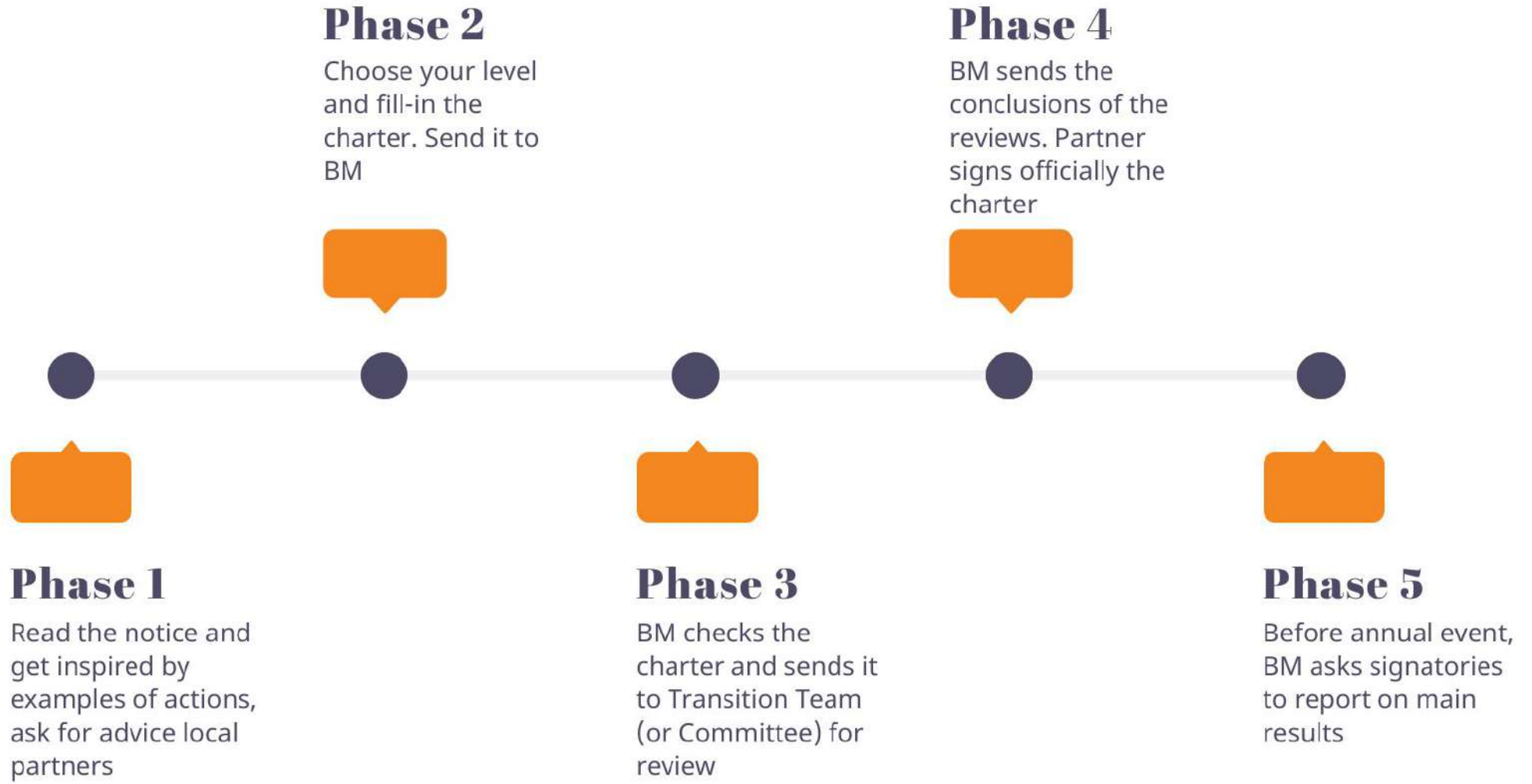
- **In return for the partners' commitment**

- Valuing the partners and their actions (website, label, ...)
- Facilitate experiences on its territory and allow partners in its network to benefit from them
- Monitoring greenhouse gas emissions and atmospheric pollutants in the region in association with the Environment Observatory in Brittany and AirBreizh
- Organise an annual meeting of Climate Plan partners
- To promote the Climate Plan and its partners outside the territory and among the inhabitants of the metropolis

- **As a public authority**

- The metropolis is committed through the Climate Air Energy Territorial Plan (SECAP), which includes 60 action sheets in 13 sectors of intervention.
- Brest métropole's actions are regularly assessed through the Cit'ergie audit (EEA).
- Between 2016 and 2020, its overall score rose from 60.9/100 to more than 75/100.

# • Charter - Process

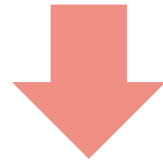


- Charter – First commitments

- 6 signatories
- Around 20 others in preparation

- Review from Transition Team :

- Positive notice on all charters
- Difficulty to judge commitments and/or recommend new actions without precise data



- Potential for improvement

- Ask for a detailed « identity card »
- Integrate the monitoring from the beginning : how to be more precise but keep the model quite open and easy to fill in ?
- Remind regulatory measures for each thematic ?
- Special situation of the municipalities : prepare a tailored charter for them ?

Level 1



Level 2



Level 3





- Example of diverse actions in the axis – Move differently

- Property developer

- Promote the practice of teleworking, videoconferencing or telephone conferencing: adapt our housing to these new practices
- Set up electric recharging stations
- Set up incentives and adapted infrastructures so that employees can travel more easily by active modes (cycling, walking), public transport or shared transport (carpooling)

- Public meteorological center

- Replacement of the combustion engine service vehicle with an electric vehicle
- Installation of a bicycle shelter

- Consumer association

- Favouring carpooling for the association's meetings
- Encourage cycling and public transport for volunteers and members for journeys of less than 3 km
- Promote cycling and the development of public transport: survey on bike parks, participation in Brest metropole meetings, etc.



# Focus on some challenges in Brest



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PÔLE MÉTROPOLITAIN



**TOMORROW**

- **Challenges in Brest #1**

- **How to make actors want to cooperate and create actions together ?**

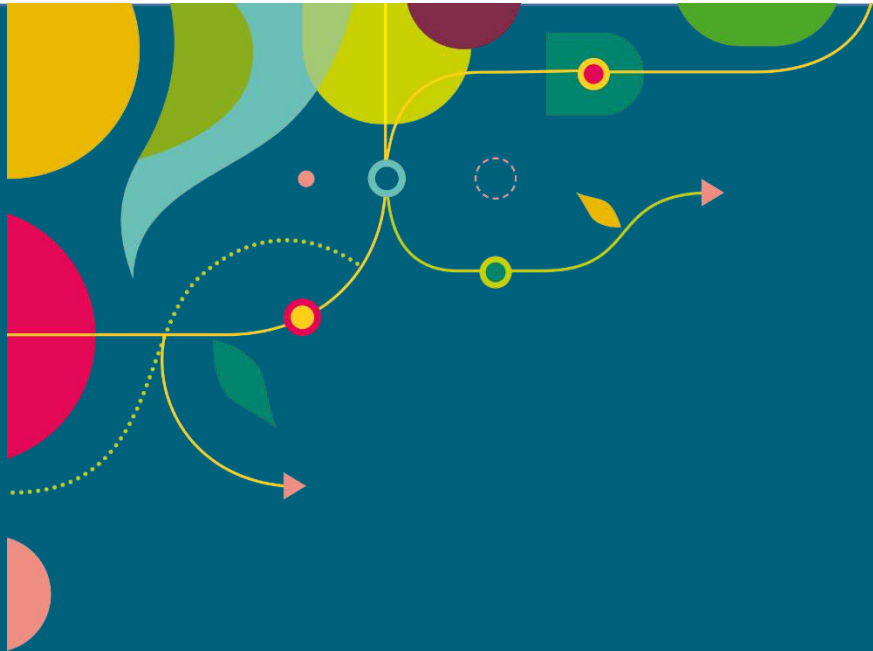
- Context :

- Objectives of coalitions : to define and implement joint actions by its members, in their own field of intervention.
- Scope : a coalition can be thematic, geographical, sectorial...
- Targets : public and private actors
- Playing rules :
  - Propose a subject, and verify conditions (contributing to climate change mitigation, avoid redundancies with existing projects, ensure its feasible and aligned with public policies)
  - Find members
  - Choose a facilitator (trained and integrated to Transition Team)
  - Keep Brest métropole in the loop but organise yourselves autonomously
  - Come and present your progress and/or your roadmap in november

- Difficulties :

- Motivate private actors generally, and reach non structured actors (SME)
- For participants : prioritize on what subject they would like to focus

- **Challenges in Brest #2**
- **How to make citizens want to propose micro-projects on energy transition ?  
How to measure the impact of those projects ?**
- Context :
  - Themes of the call for micro-projects : energy savings, renewable energy production, projects of shared habitat, mobility.
  - Food, waste, biodiversity not included.
  - Targets : associations and citizens.
  - Support : from 1 000 to 10 000 euros for all types of expenses (investment or charges).
- Difficulties :
  - Energy is not sexy ! How to inspire citizens ?
  - Need to know the expected impact of each project but keep it simple for citizens



# Dublin online city visit

29-30 November 2021



Funded by the H2020 programme of  
the European Union



**TOMORROW**



## **Report on Peer-to-Peer activities and Cities visits**

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# Welcome to (Virtual) Dublin

Dublin Workshop - 30th November 2021



# What's in store today?

🎯 → Dublin pop quiz & local lingo!

🎯 → DRIFT canvas exercise

🎯 → Dublin Region Master Plan findings

🎯 → Open Q&A discussion

🎯 → Identify common challenges





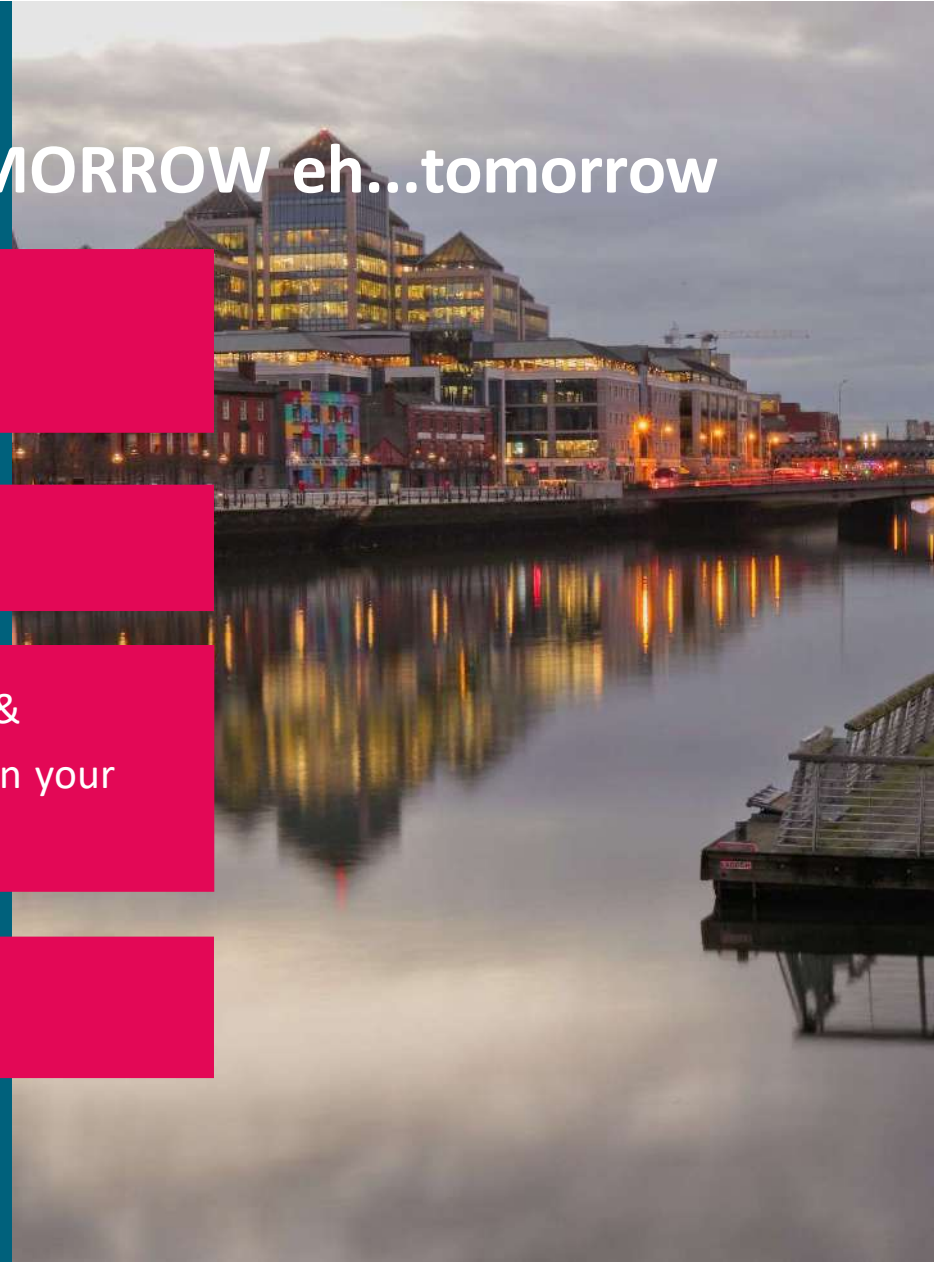
# What's in store for TOMORROW eh...tomorrow

➔ Presentation on Dublin citizen engagement & Q&A

➔ World Café method explanation

➔ World Café Exercises: Challenges & Solutions to Citizen Engagement in your Region & harvest

➔ Check-out & AOB (Energy Cities)



If you can't come  
to Dublin...



# We'll bring Dublin to you!

We're Europe's silicon valley

there are 666 pubs in Dublin

Dublin's Phoenix Park is Europe's largest city park

Cry me a river...we have over 130 of them



Average July temp in Dublin is a balmy 17 degrees

Arthur Guinness - creator of Guinness - had 21 kids!!!

We have the widest street in Europe - move over Champs Elysées



**Over to you - test your Dublin trivia!**

# How many people live in the Dublin Region?

→ (a) 859,000

→ (b) 1,125,000

→ (c) 1,430,000



# What % of Dublin's total emissions come from data centres?

→ (a) 7.5%

→ (b) 12.5%

→ (c) 19%



We need to sink/save the CO2 equivalent of taking how many cars off Dublin's roads every year for the next 30 years, in order for us to get to net-zero emissions?

  (a) 33,000

  (b) 45,000

  (c) 57,000



# An Introduction to the Dublin Energy Masterplan: Challenges for the Local Energy Transition

Donna Gartland & Eoin Ahern, Codema – Dublin's  
Energy Agency

Learning Relay, 29th November 2021



Funded by the H2020 programme of the  
European Union



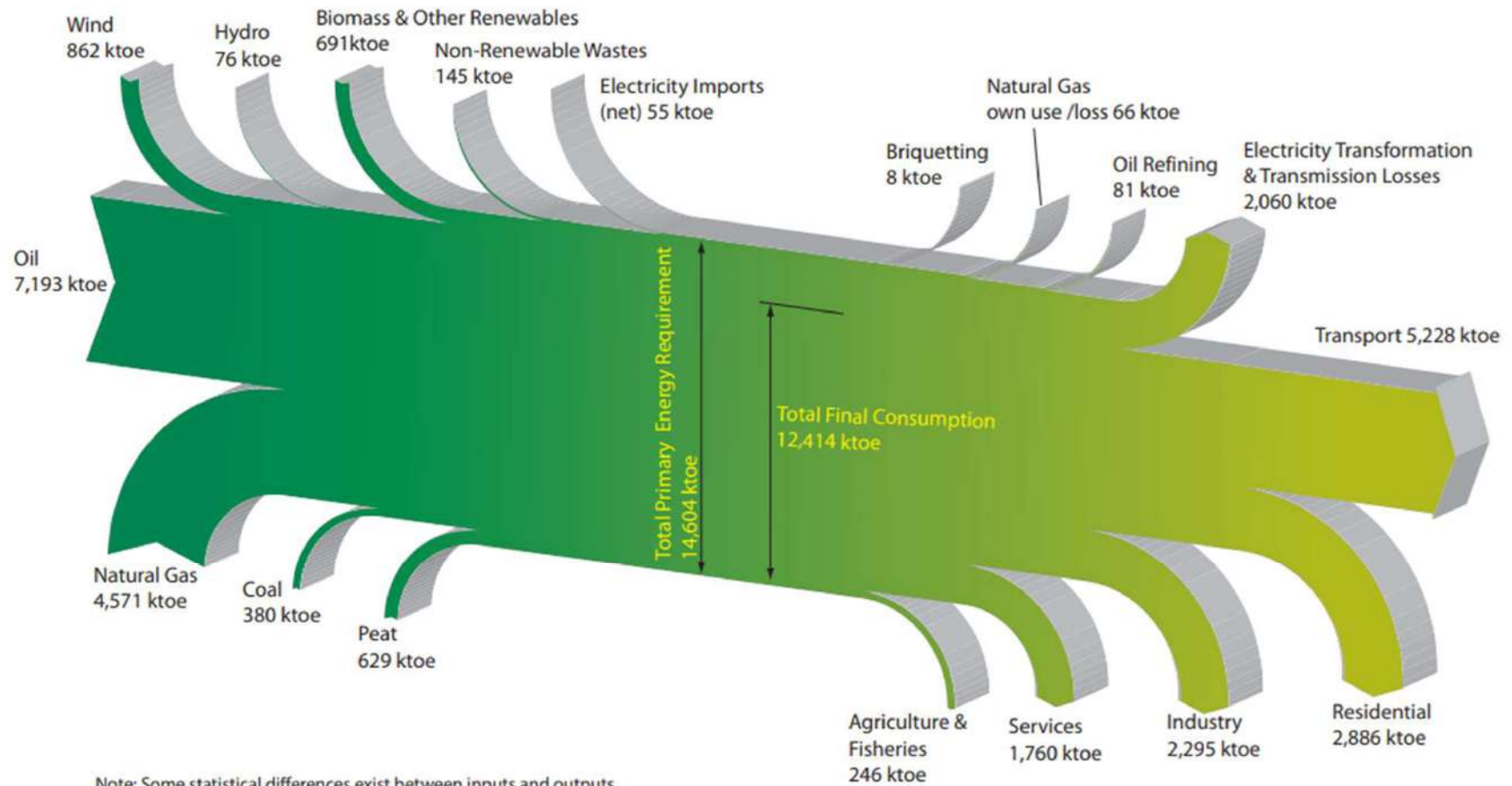
**TOMORROW**



# High level overview of Energy and Policy in Ireland and Dublin

# National Perspective: Current Situation

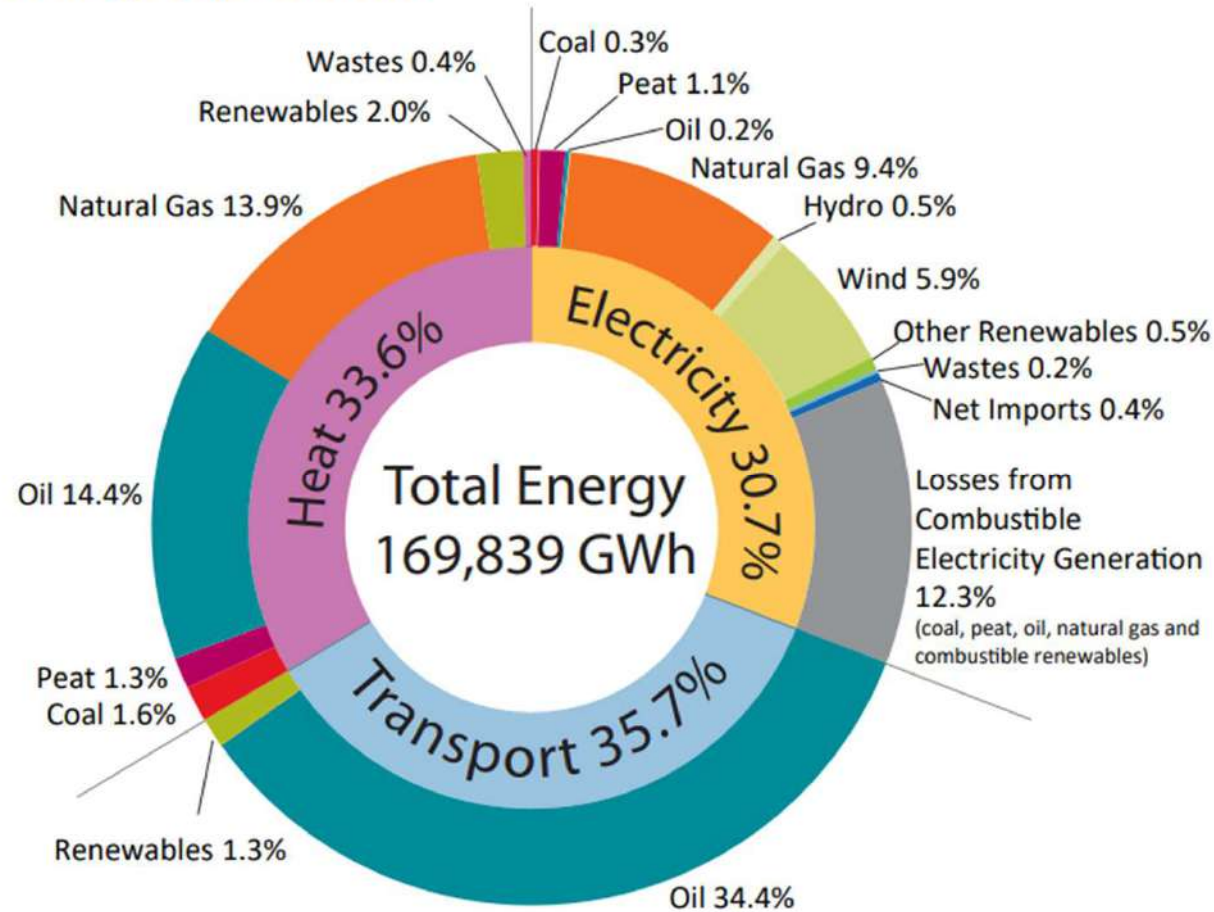
**Figure 2: Energy flow in Ireland 2019<sup>2</sup>**



Source: SEAI

# National Perspective: Current Situation

Primary energy by mode and fuel



## PROGRESS TO RENEWABLE ENERGY TARGETS

2020 TARGETS

Overall Renewable Energy Target

12.0%

16.0%

Transport

8.9%

10.0%

Heat

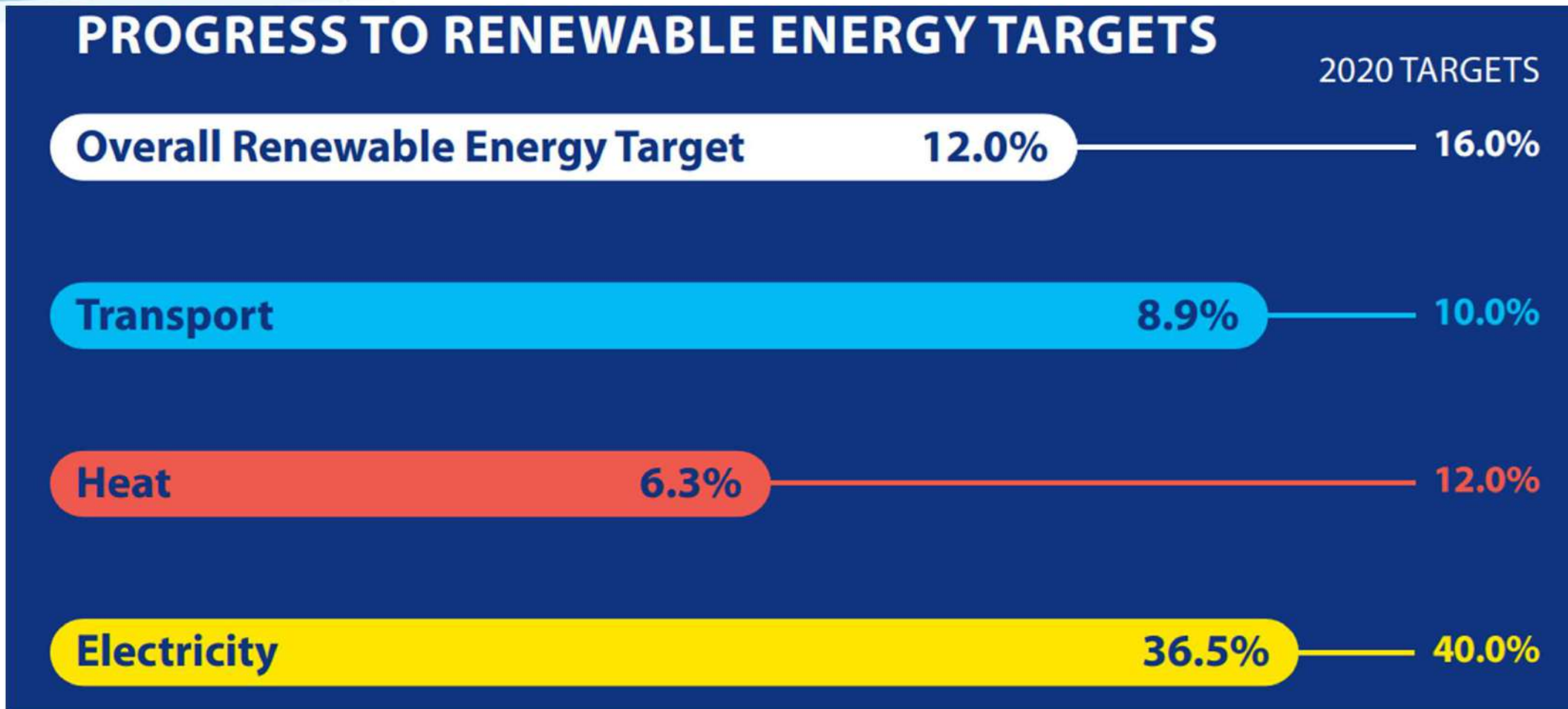
6.3%

12.0%

Electricity

36.5%

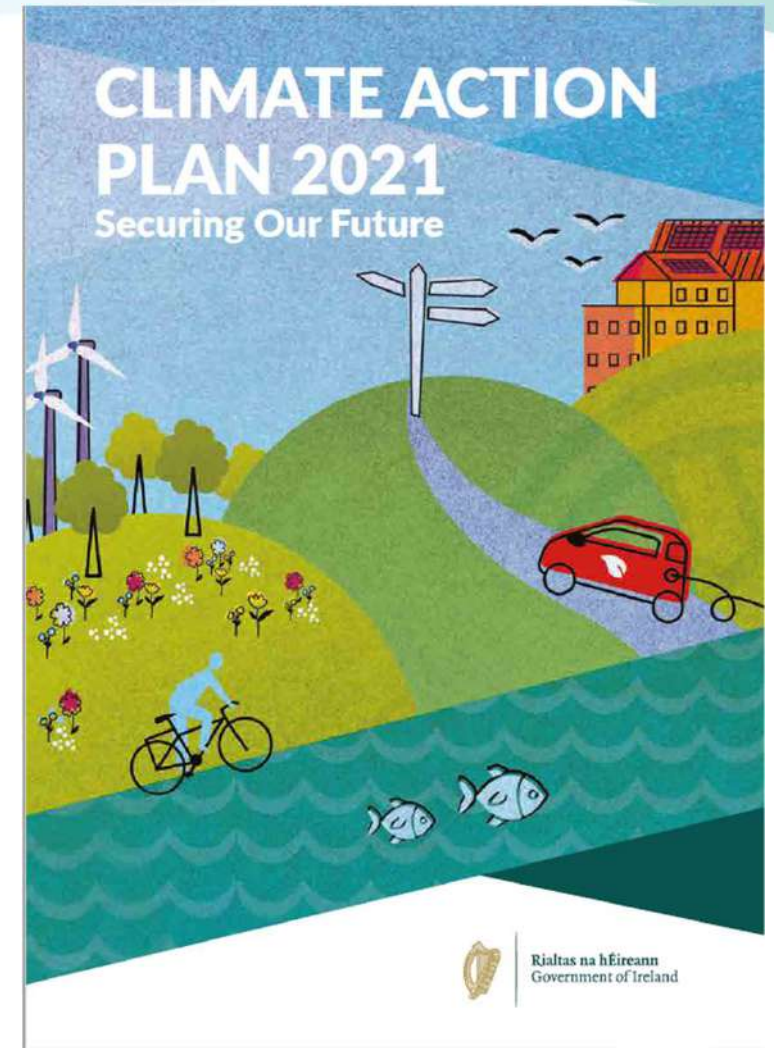
40.0%



# National Perspective: New Climate Action Plan

## 2030 targets of...

- 51% GHG reductions
- 80% renewable electricity target (currently at 37%)
- €165 billion investment 2021-2030
- 500,000 homes renovated to B2
- 680,000 renewable heat systems installed
- 1500 EV buses
- 900,000 EVs (currently at 41,000)
- 500,000 more walking, cycling & public transport journeys
- 10% district heating target (currently at 0.01%)



## What does this mean for Dublin?



266,000 EV's = ~**€9.3 billion**  
10,000 Public Charging  
Points = ~**€80million**

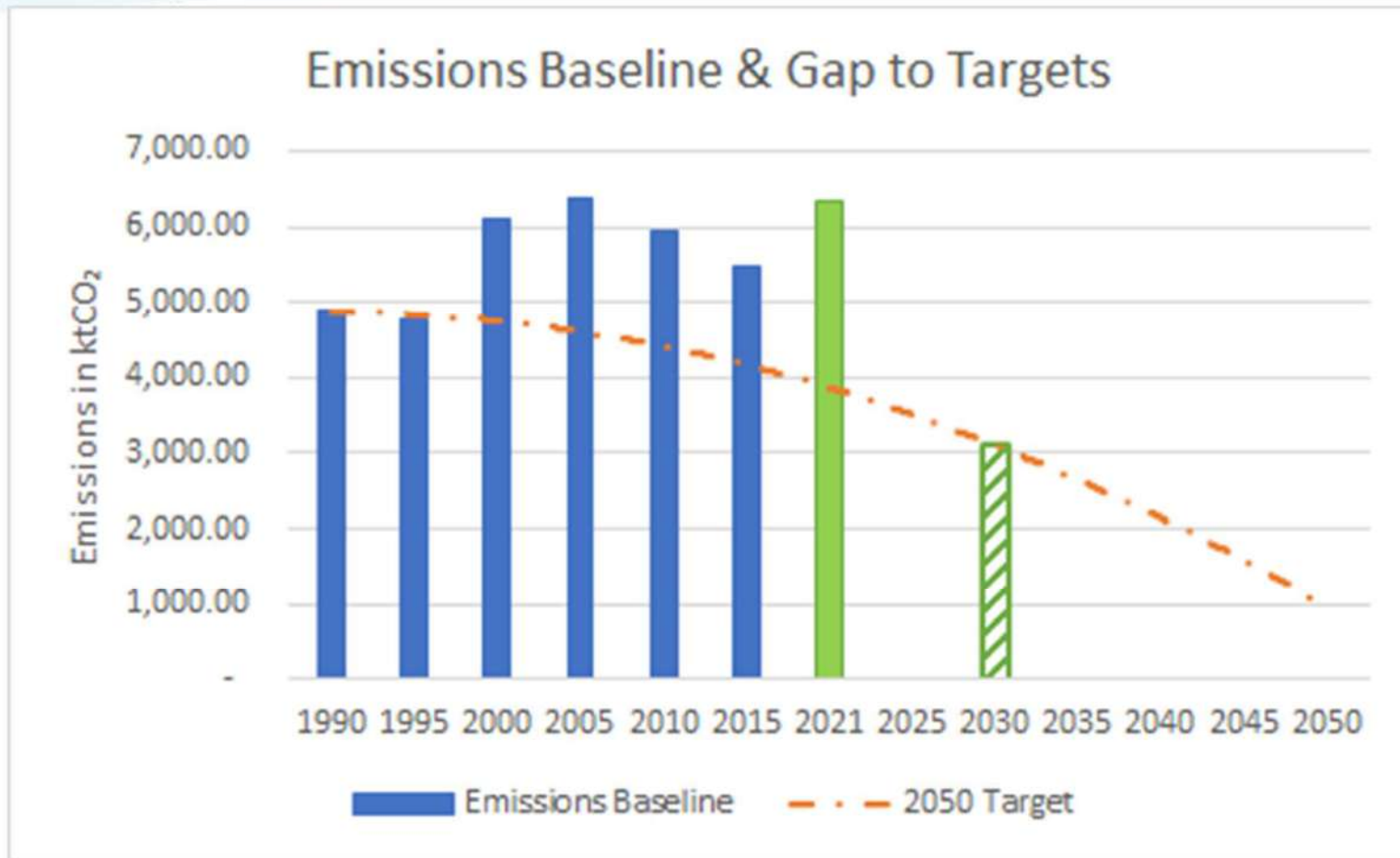


140,000 Household  
Upgrades to 'B' Rating =  
~**€5.6 billion**

## Questions for you:

What do you think of this ambition and targets?  
Do you think its too ambitious & not realistic, or not  
ambitious enough?  
Are we expecting too much of individuals?

# Energy & Emissions in Dublin





Breakdown of Dublin's Emissions

# % Breakdown of Dublin Region's Emissions

Commercial  
& Industrial  
30.3%

Data Centres  
12.5%

Transport  
23%

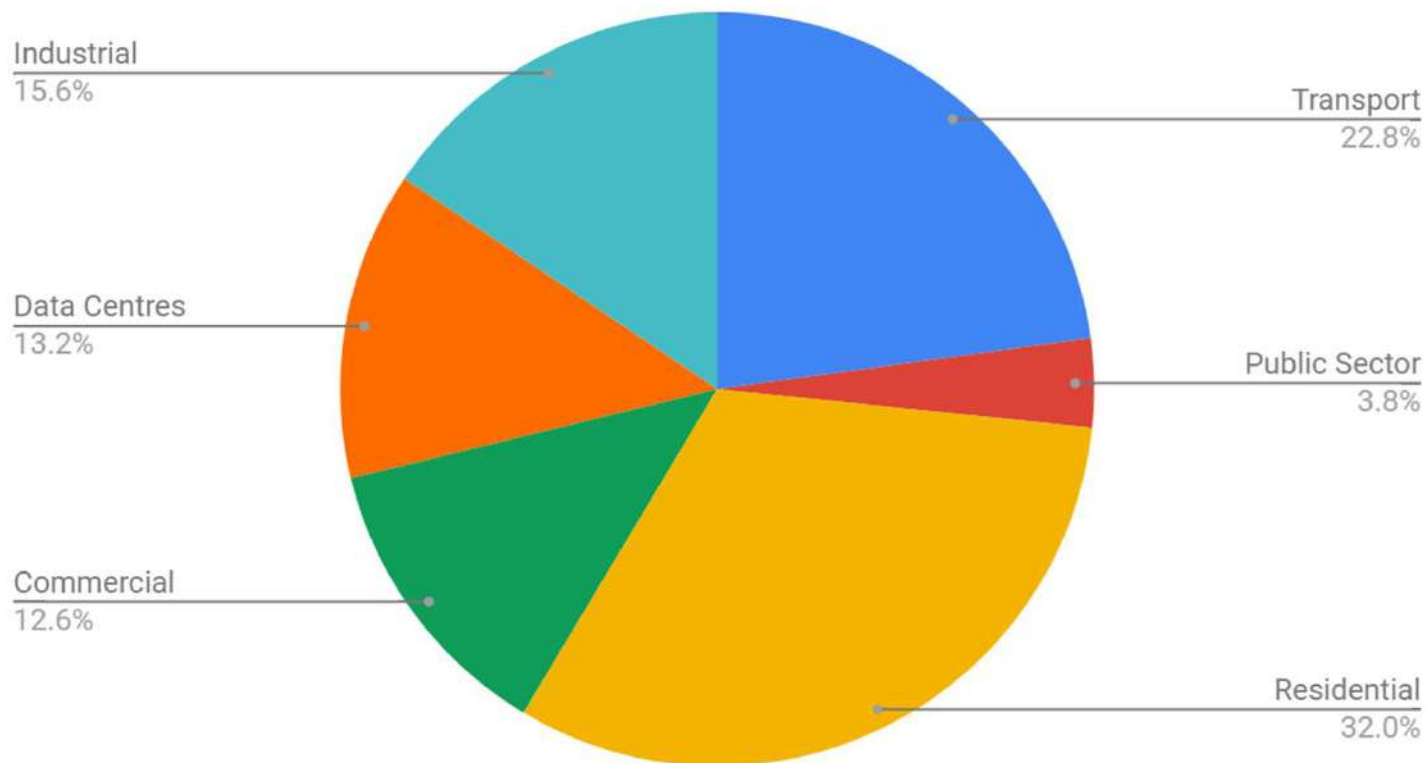
Residential  
31.3%

Public  
Sector  
3%



# Breakdown of Energy Use in Dublin

## Dublin Region Annual Energy Demand



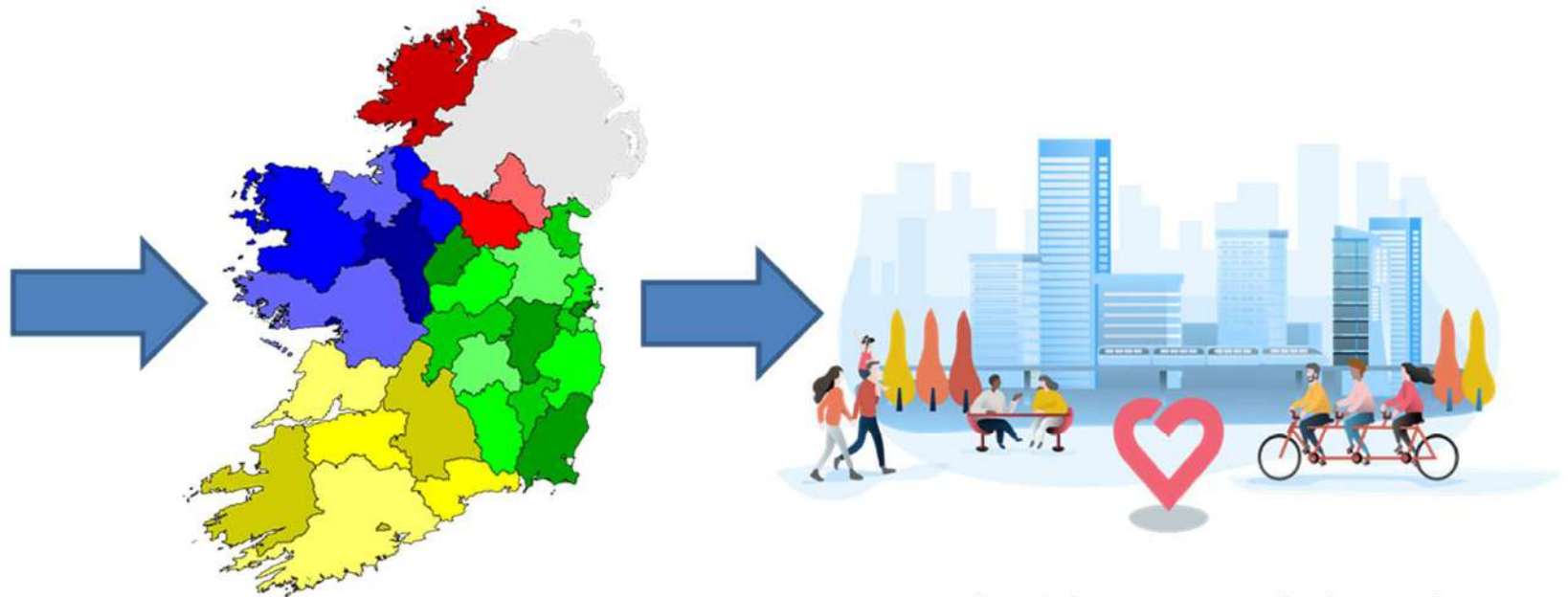
Why did we need an Energy Masterplan?

# Reasons for Developing the Masterplan

- Bridge the gap between **national** policy and **local** implementation – enable **multi-level governance**



High-level 'blanket' policy –  
applied nationwide,  
implementation market driven...



...but each county has different  
supply & demand characteristics,  
& synergies are overlooked...

...and uptake very much depends  
on local infrastructure, local socio-  
economics & community buy-in

# Reasons for Developing the Masterplan

- Bridge the gap between **energy** and **spatial** planning

A Low-carbon Energy System needs local planning to...

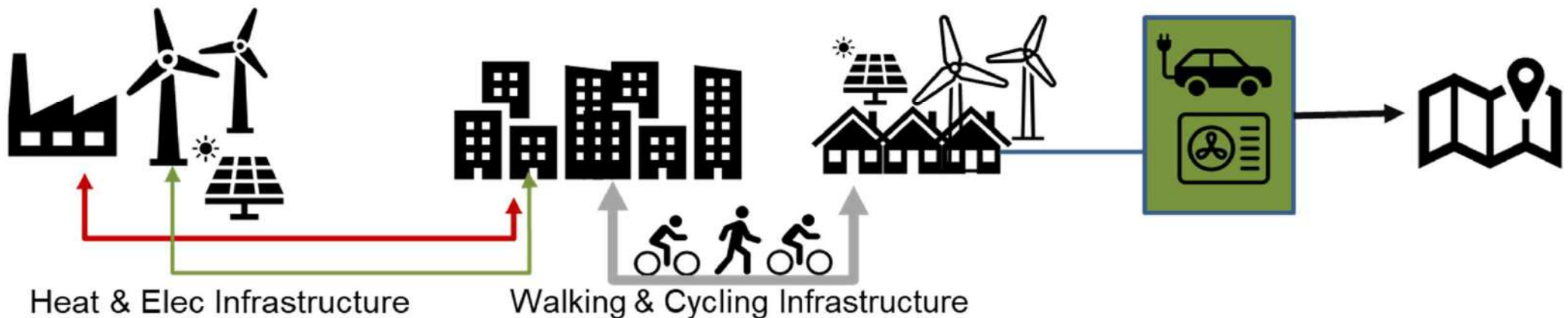
Space for renewable energy generation

High-density development

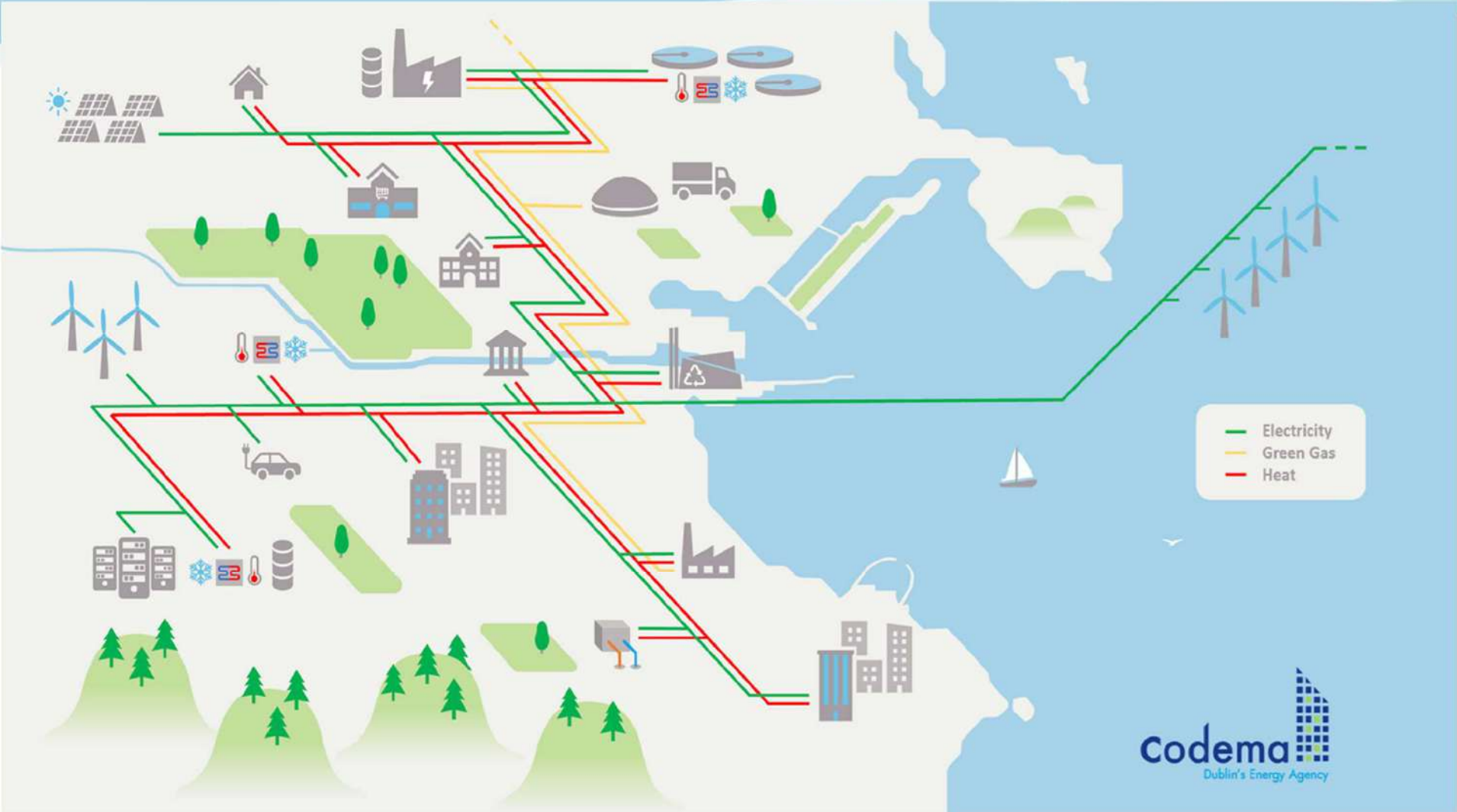
Future-proofed demand & supply

Support decentralised & Community energy

Understand location of future demands



# Reasons for Developing the Masterplan

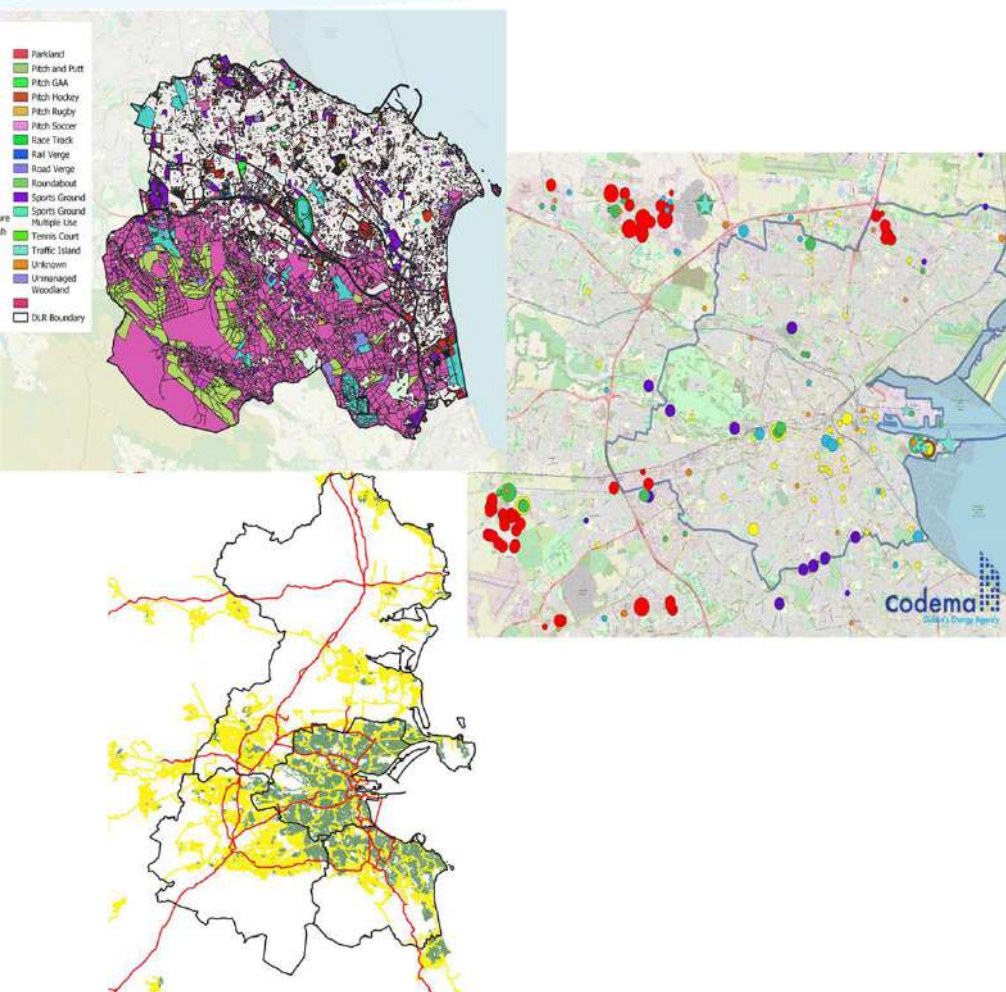


# Reasons for Developing the Masterplan

## The evidence-base supports:

- Local Area Plans (LAPs)
- Strategic Development Zones (SDZs)
- Sustainable Energy Zones (SEZs – as set out under RSES)
- Decarbonising Zones (DZs – as set out in the CAP 2019)
- LA Climate Action Plans (as set out in Climate Bill)
- Sustainable Energy Communities (SECs – SEAI programme)
- Future requirements from EU/National level – ‘Fit for 55’ package, etc.

# Dublin Regional Energy Masterplan

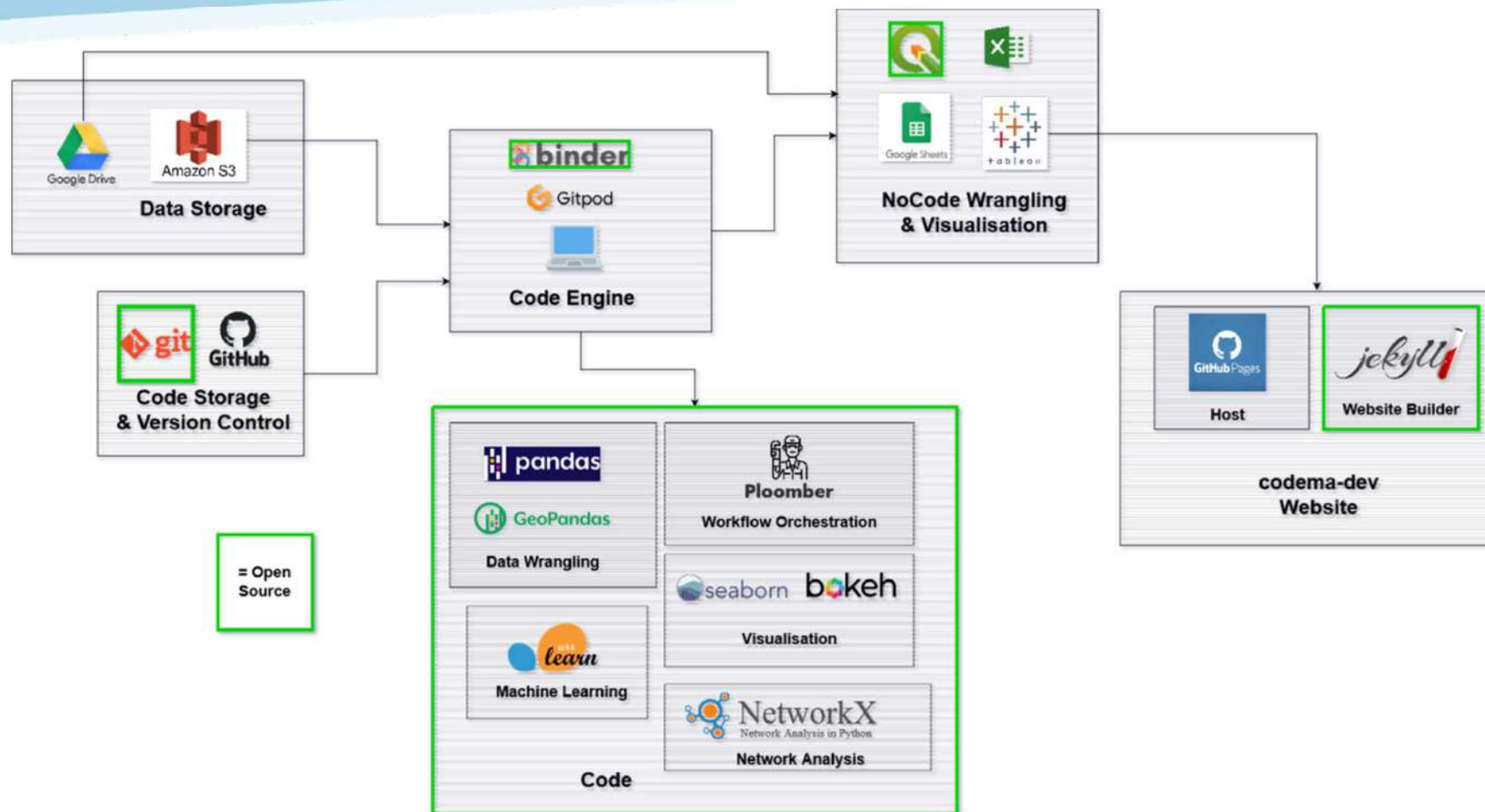


- **First of its kind** in Ireland – building upon best international practice, example for other regions in Ireland to follow
- **Cost-optimal** pathway to 2030 and 2050 targets
- Holistic **integrated energy model** looking **ALL** energy sectors (heat, transport and electricity) and considering **local technical constraints**
- Digital twin of the **local** energy landscape – **evidence base** for informing policy
- **Spatially-led** (topographical & spatial constraints included)
- Also considers the wider **social & economic** impacts





# Open Source – As Much as Possible



# Open source outputs available

## Websites:

- Our maps - <https://codema-dev.github.io/>
- Our network - <https://energy-modelling-ireland.github.io/>

## Scripts:

- Building stock model based on DEAP - <https://github.com/codema-dev/rc-building-model>
- Reproducible Python scripts used in creating the maps on codema-dev.github.io - <https://github.com/codema-dev/projects>

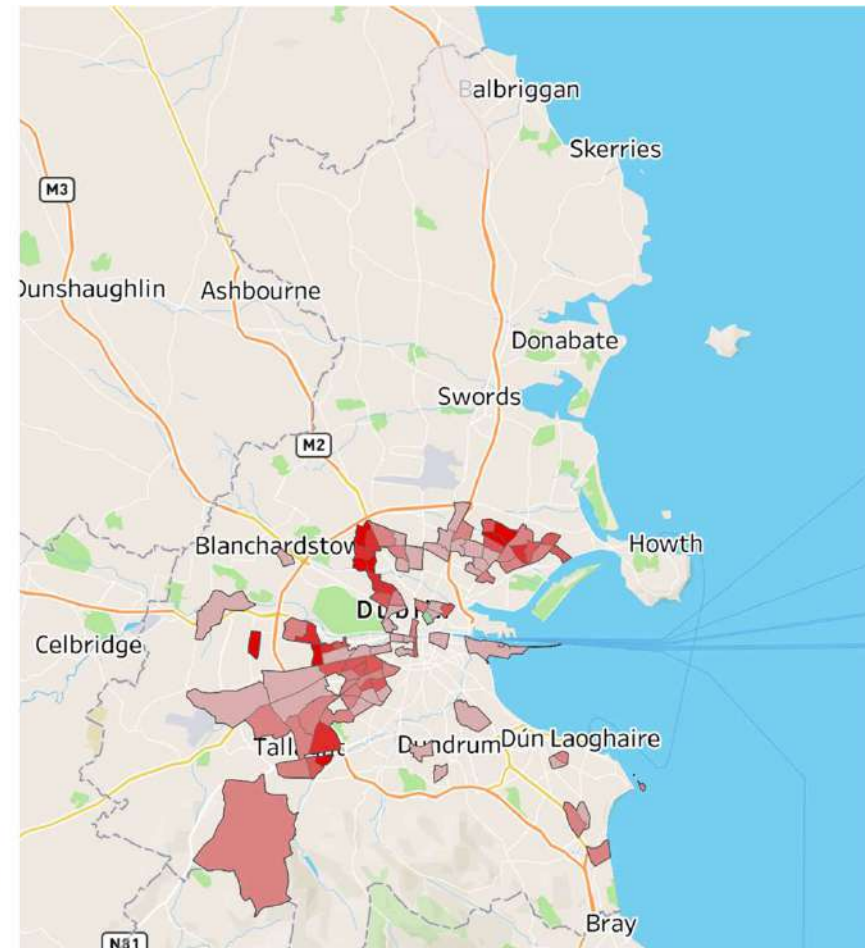
## Apps:

- Dublin Energy App - <https://github.com/codema-dev/dublin-energy-app>
- Irish Building Stock Generator - <https://github.com/energy-modelling-ireland/ibsg>

## Results of the Masterplan

# EE & Where to Start? Homes with Poor EE in Areas with Low Deprivation Index

- Building energy efficiency rating (BER) from SEAI database and extrapolated by building age for remaining buildings
- CSO Deprivation Index used to outline residents most at risk to energy poverty
- Both are combined to identify areas where retrofitting should be concentrated first

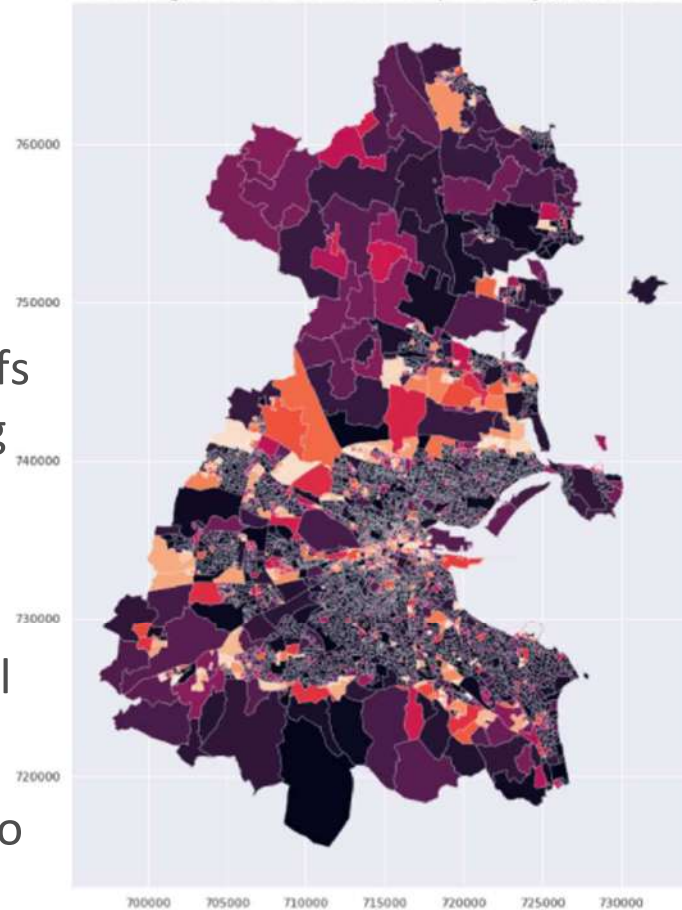


# Retrofitting for Heat Pump Viability

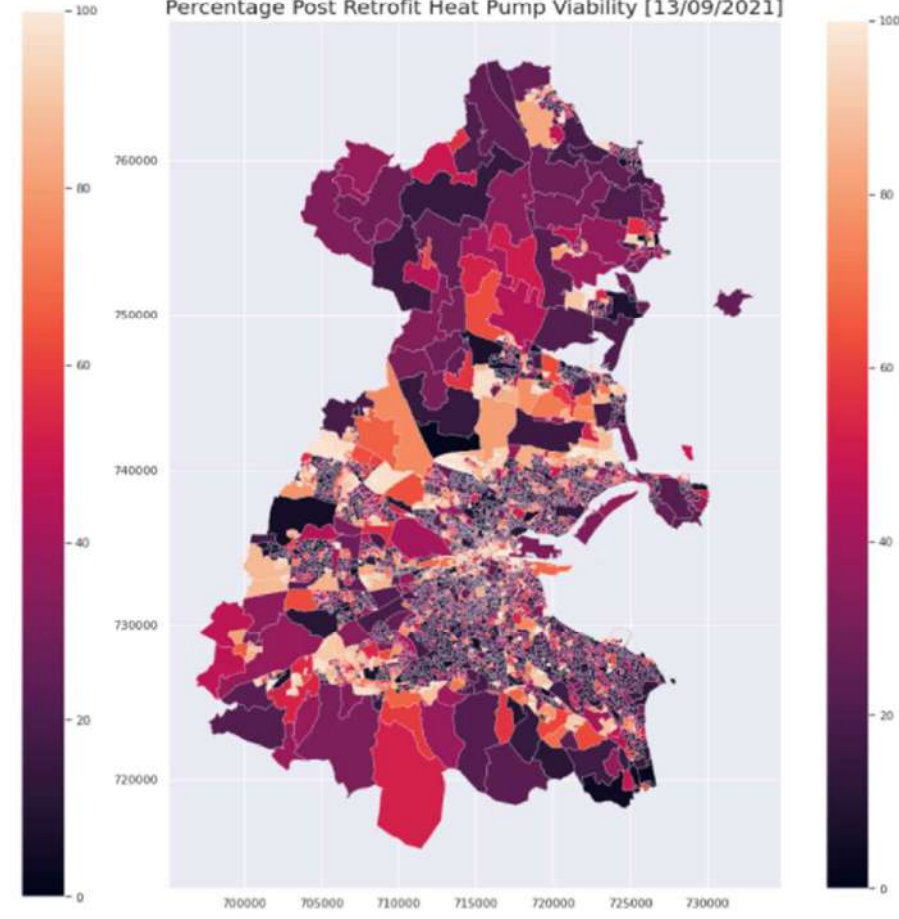
## Heat Pumps:

- A significant number of buildings are not suitable for heat pumps even after retrofitting walls, roofs & windows (assuming dwellings below required threshold u-value, a  $HLP < 2$ . Heritage buildings will not retrofit)
- Heritage buildings also not suitable

Percentage Pre Retrofit Heat Pump Viability [13/09/2021]

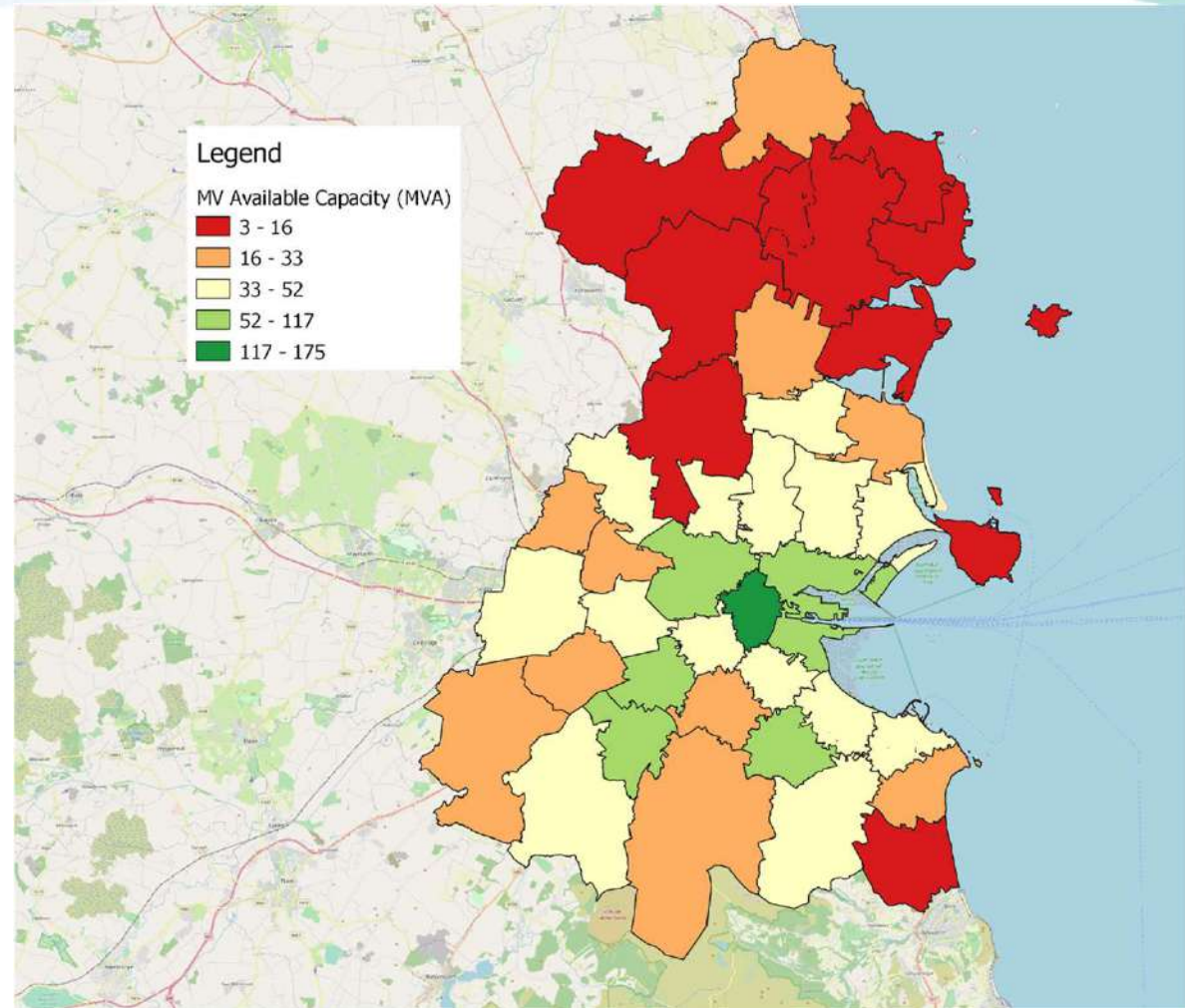


Percentage Post Retrofit Heat Pump Viability [13/09/2021]



# Electricity Sector Grid Constraints and Associated Costs

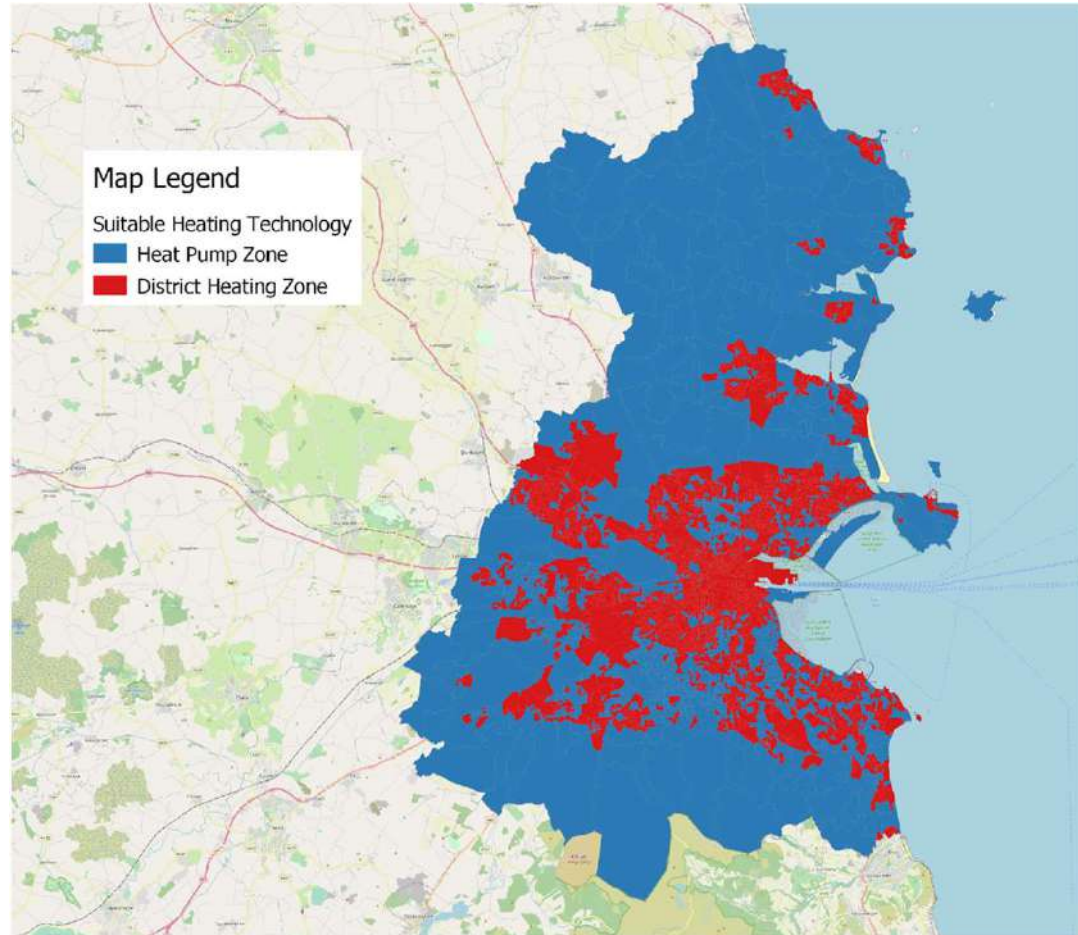
- Capacity maps were generated using substation available capacities provided by ESB – LV & MV stations modelled
- Average grid connection costs were determined from the Statement of Charges and adjusted to reflect existing constraints i.e. less capacity = higher cost to maintain headroom
- Caveat – available capacity does not account for contracted (paid for) or quoted demands



# Heat Sector – DH vs HP Map

- **Heat Pumps Considerations:**
  - Heat Pump Cost
  - Grid Upgrade Costs
  - Building Fabric Upgrades to achieve efficiency
- **District Heating Considerations:**
  - Network Cost (Distribution and Connections)
  - Substation Cost
  - Heating Plant Cost

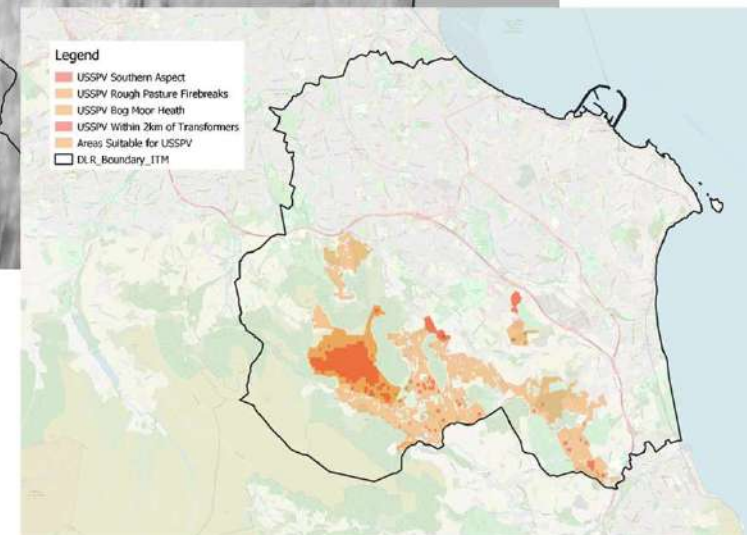
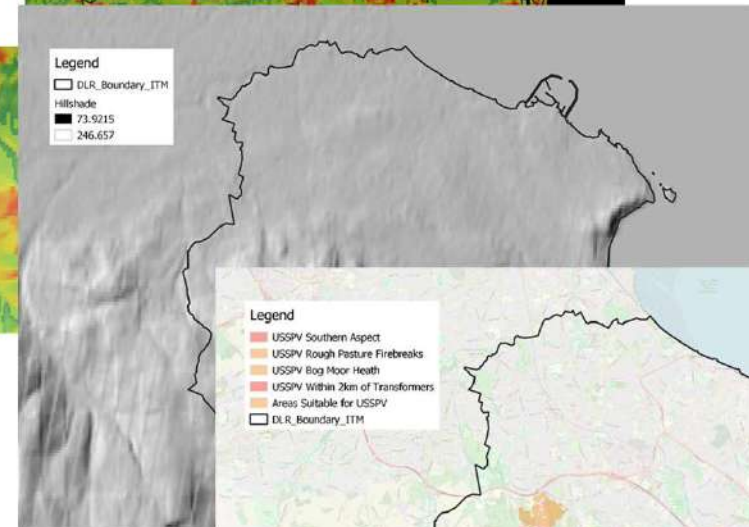
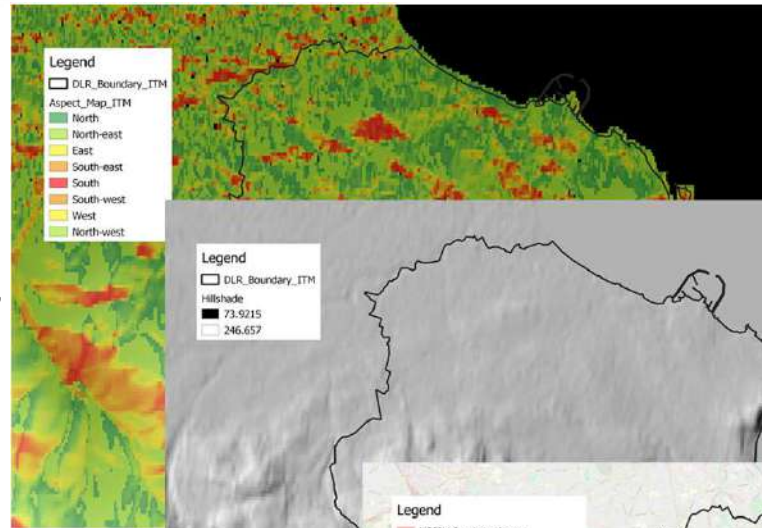
Heating Technology	% Heat Supplied
District Heating	70%
Individual Heat Pumps	30%



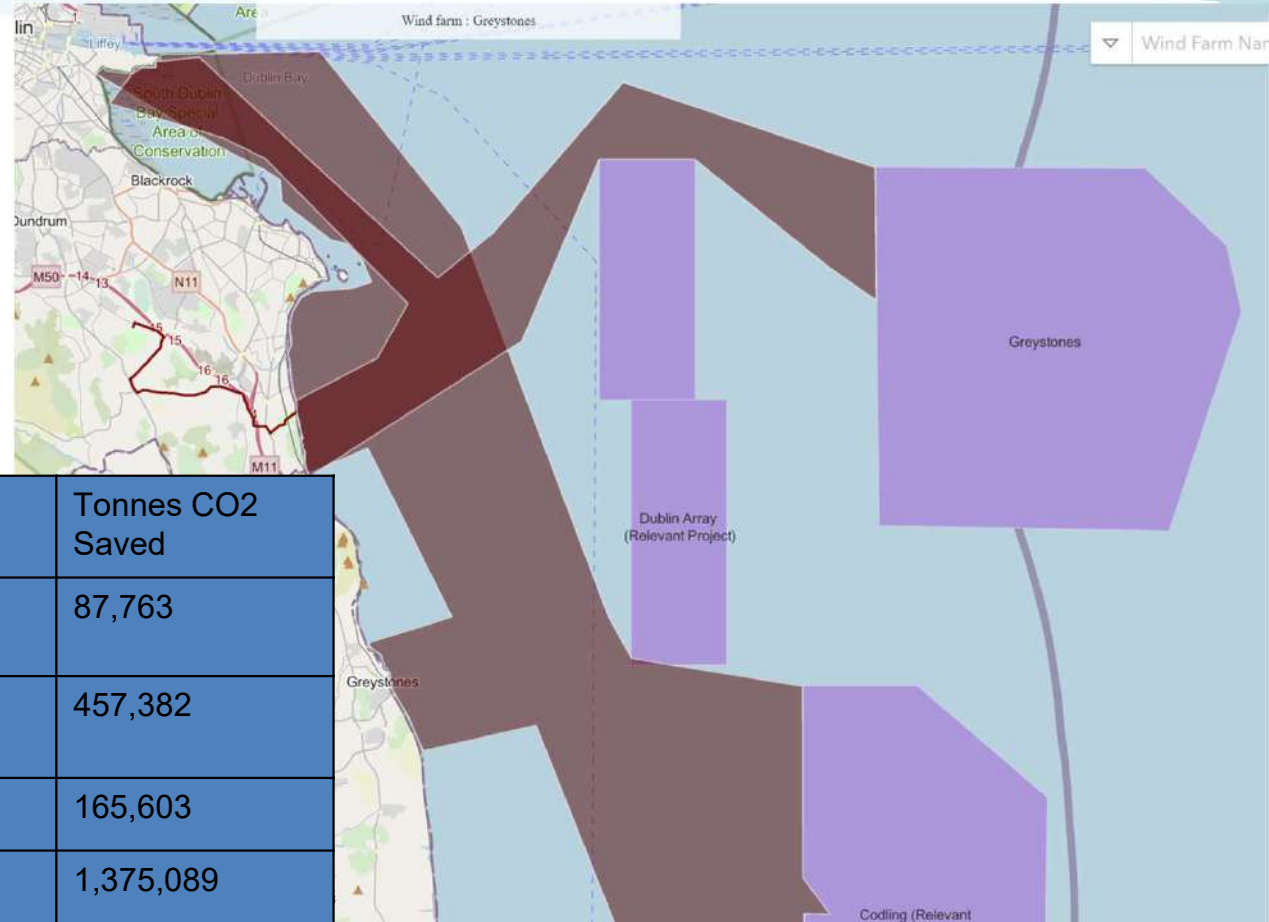


# Renewable Generation Potential – USSPV Example Analysis

- **Environmental and feasibility constraints:**
  - Grid proximity
  - Environmentally sensitive areas (SPA, SAC, NHA etc.)
  - Open space with minimal shading
  - Avoid northern slopes >10 degrees and flood zones
  - 30m from woodland, rail, roads
  - Land use/value (e.g. landfill, cutaway bog)
  - Large enough area (10ha)
  - Caveat - Land character assessment (visual impact) not currently included



# Renewable Electricity Generation Potential – Totals for Dublin

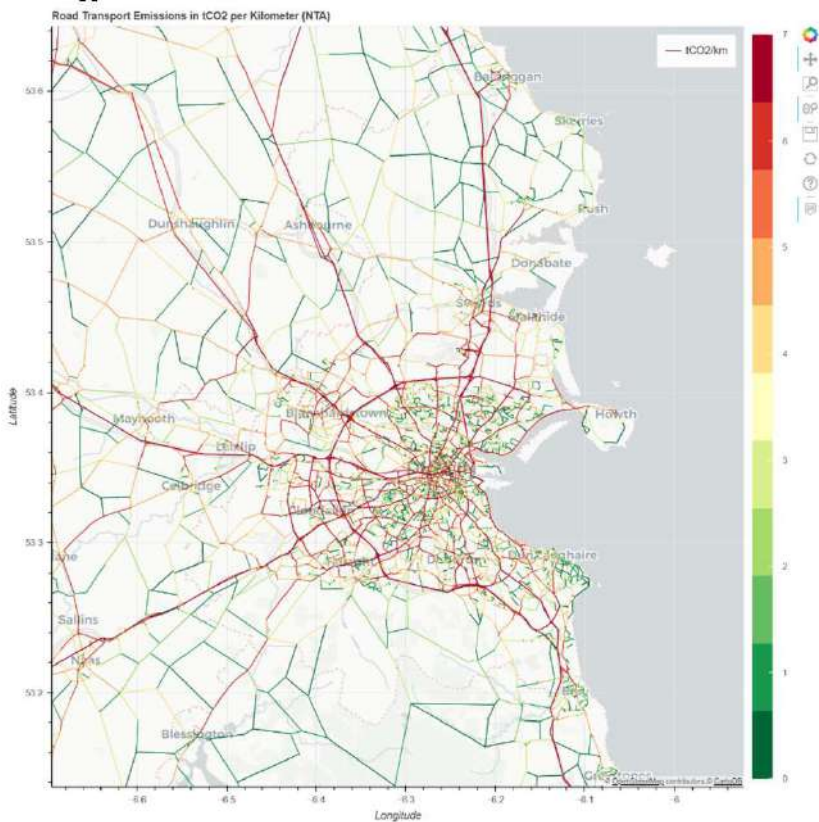


Technology	GWh Potential	Equivalent Homes	Tonnes CO2 Saved
Building Integrated Solar PV	270	56,938	87,763
Utility Scale Solar PV	1,409	296,736	457,382
Onshore Wind	510	107,439	165,603
Offshore Wind	4,238	892,118	1,375,089

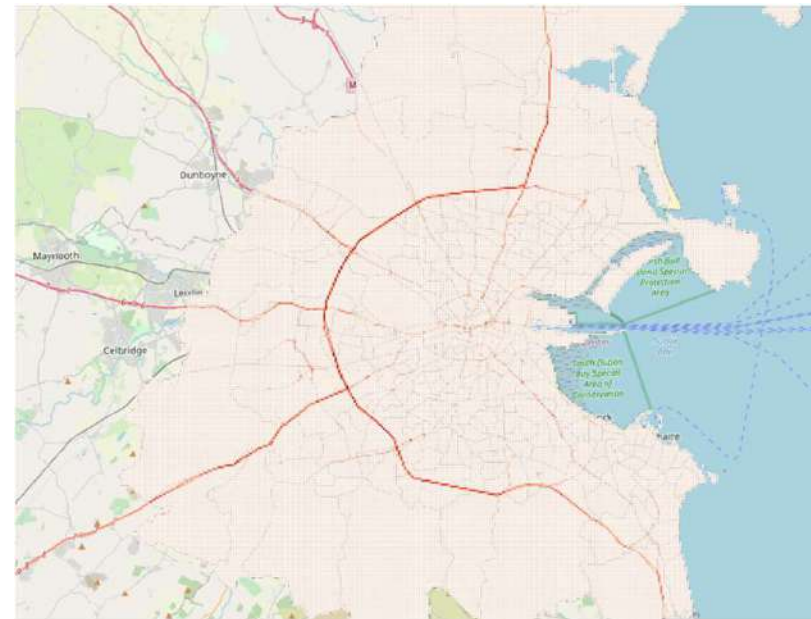
Map Source: <https://www.4coffshore.com/offshorewind/>

# Current Transport Energy Use & Emissions

## NTA East Regional Model outputs: total vehicle/passenger-km, GHG emissions and local air



NTA road links analysis – gCO<sub>2</sub>/km



NTA 100m x 100m grid analysis – gNO<sub>2</sub>/10,000m<sup>2</sup>

# Reducing Transport Energy Use & Emissions

## Recommended Approach: Avoid-Shift-Improve

### 1. Avoid

Reduce the need for travel through integrated transport and land use planning

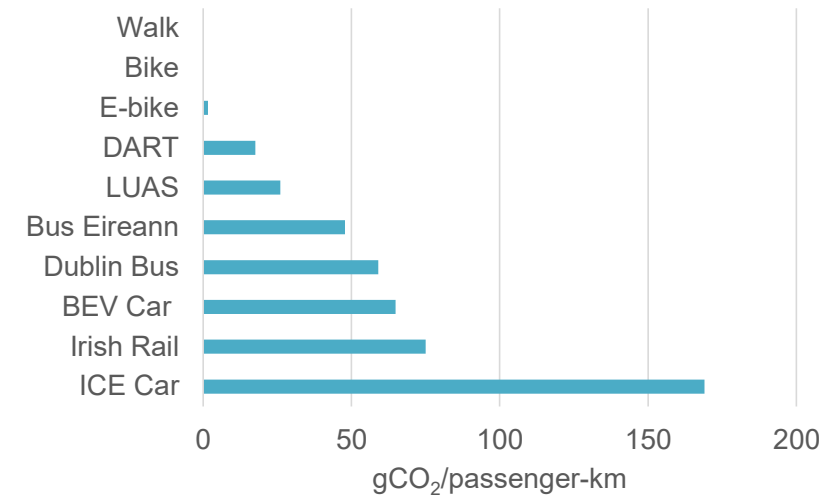
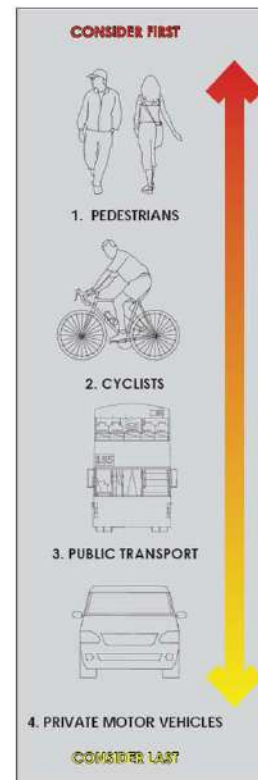
### 2. Shift

Switch journeys from carbon intensive modes to more environmentally friendly/sustainable modes - **walking, cycling, e-bikes etc.**

### 3. Improve

Improve efficiency of transport modes to reduce emissions - **electrification**

## Transport hierarchy: gCO<sub>2</sub>/km travelled



Graphic from *Design Manual for Urban Roads and Streets*, Irish Government, 2013

# Social & Economic Impacts

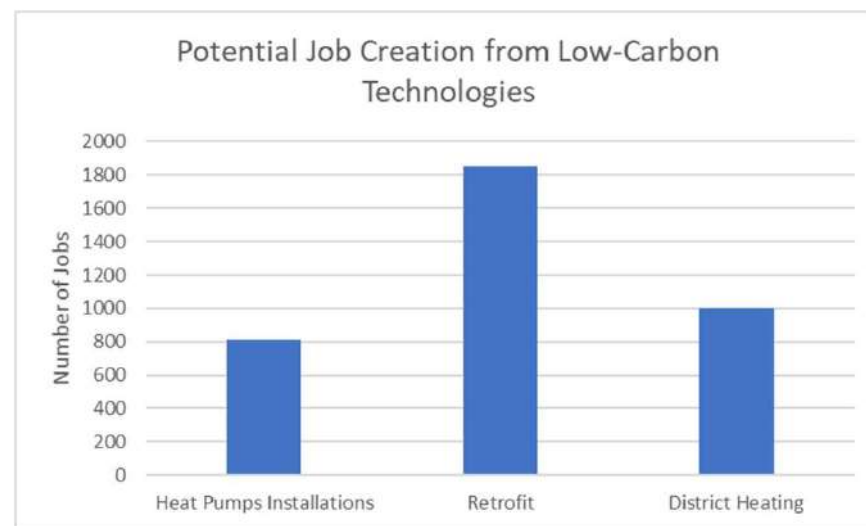
Social and economic benefits from the Dublin Region Energy Masterplan:

- Health Benefits - **Improvement in Local Air Pollution and Air Quality**
- **Local employment generated** (direct & indirect)
- **Avoided Carbon Costs** - Cost of Carbon (Shadow price)
- **Reduction in Energy Bills** for Residents & Businesses
- **Warmer Homes**
- **Reduction of Fuel Poverty**
- **Reduced reliance on Fuel Imports**



# Renewable Energy Generation, Reduction in Emissions & Avoided Carbon Costs

Technology	Increase in RE Potential GWh	Tonnes CO2 Saved	Avoided Carbon Costs (Shadow Price of Carbon) in €
Building Integrated Solar PV	270	87,763	8,776,300
Utility Scale Solar PV	1,409	457,382	45,738,200
Onshore Wind	510	165,603	16,560,300
Offshore Wind	4,238	1,375,089	137,508,900
<b>Total</b>	<b>6,427</b>	<b>2,085,837</b>	<b>208,583,700</b>



## Questions for you:

Do you think an evidence-base like this Masterplan  
would be useful in your city?

Are there other uses for such a Masterplan that we  
are overlooking?

## Key Challenges in Each Sector



# Key Challenges: Heat

- Lack of experience and expertise - both DH & HP
- Fossil fuel lock-in - biogas/H<sub>2</sub> blending in grid
- Split incentive dilemma



# Key Challenges: Electricity

- Electrify everything!
- Huge offshore wind potential - delays in planning
- Seasonal storage/interconnection



# Key Challenges: Transport

- Undoing decades of car-centric planning
- Lack of ambition and urgency on Public Transport
- Active travel “catered for” rather than prioritised



Navigating Park Avenue in Sandymount. Residents complaining the route is too narrow. Photograph: Alan Betson/The Irish Times



# Energy Masterplan as an Engagement Tool

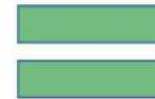
# Energy Masterplan as an Engagement Tool

Energy Masterplan

**Evidence-base**  
(Technical Research bit)



**Meaningful  
Engagement**  
(Social Science bit)



**Realistic Roadmap**  
achieved through  
Collaboration with buy-in  
across all Sectors

# Energy Masterplan as an Engagement Tool

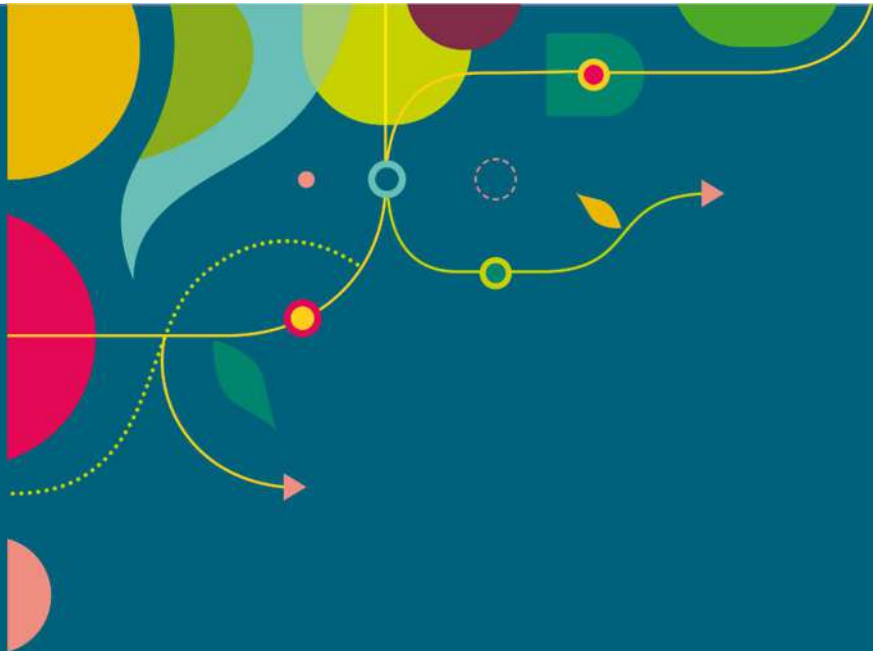
- Breakdown language barriers
- Make it about more than kWh and CO2 - jobs, health, less traffic, etc
- Use visual tools - maps, graphs, etc
- Make it relatable - “in your community you have...”



## Questions for you:

How do you (or how will you) present technical/scientific data to your citizens and stakeholders?

How do you convey the scale of the challenge and the change required?



\*

# STUDY TOUR IN BREST METROPOLIS

## Report



Funded by the H2020 programme of  
the European Union

29-30 March 2022



**TOMORROW**





### **Title of the report here**

Report of the Study tour in Brest-Metropolis

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It does not necessarily reflect the opinion of the European Union



This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847136.

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• Aims of the Study Tour.....	3
• Agenda .....	4
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### Back to physical meetings!!!

After more than two years of online meetings, the consortium was delighted to meet again, although not in its full composition, to discuss the progress made by the pilot cities and particularly by Brest-Metropolis, partner hosting the study tour.



### Aims of the Study Tour

- Inspiring Pilot Cities with Brest-Metropolis' roadmapping process
- Getting feedback / advice from Consortium to Brest-Metropolis' challenges
- Discussing ongoing challenges to Cities' energy and climate transition
- DRIFT session on Guidelines and Pilot Cities' feedback
- Consortium Monthly meeting
- Meeting with Advisory Board Member



# Agenda

29 March 2022		30 March 2022	
9.00-9.30	<b>WELCOME IN BREST</b> <ul style="list-style-type: none"> <li>• Glen Dissaux, Vice-President</li> <li>• Frédérique Bonnard Le Floc'h, Vice-President</li> <li>• Exchange with the partners</li> </ul>	9.00-9.45	<b>WELCOME to the day</b> <b>CONSORTIUM Monthly Meeting</b>
9.30-10.30	<b>REVIEW of BREST's progress</b> <ul style="list-style-type: none"> <li>• Anne-Claire</li> </ul>	9.45-10.30	<b>WORKSHOP ON CHALLENGES</b> <ul style="list-style-type: none"> <li>• How to sustain the “ongoing process” (e.g. transition team) and ensure ownership?</li> </ul>
10.30-10.45	<b>BREAK</b>		
10.45-11.30	<b>WORKSHOP ON CHALLENGES</b> <ul style="list-style-type: none"> <li>• Energy Price Surge: which impact for our cities and our climate-neutrality ambition</li> </ul>	10.30-10.45	<b>BREAK</b>
11.30-11.45	<b>BREAK</b>	10.45-12.30	<b>TOMORROW GUIDELINES</b> <ul style="list-style-type: none"> <li>• Workshop by DRIFT</li> </ul>
11.45-12.30	<b>WORKSHOP ON CHALLENGES</b> <ul style="list-style-type: none"> <li>• How to raise awareness and get local politicians buy-in for the ecological transition</li> </ul>		
12.30-14.00	<b>LUNCH</b>	12.30-14.00	<b>LUNCH</b>
14.00-15.30	<b>MEETING WITH LOCAL STAKEHOLDERS</b> <ul style="list-style-type: none"> <li>• Claire Engrand-Desse, member of the Climate Citizen Network</li> <li>• Gilles Deotto - local director of Enedis ;</li> <li>• Marie-Noëlle Le Kervern - Brest métropole, in charge of the metropolitan strategy</li> </ul>	14.00-16.30	<b>BREST EXPERIENCE</b> <ul style="list-style-type: none"> <li>• Visit of the 70.8 Museum about maritime innovations</li> <li>• Monitoring the sea rising level: the example of the tide gauge in Brest, presented by the SHOM, and overview of our local climate vulnerability assessment, presented by Ener'gence</li> </ul>
15.30-16.00	<b>BREAK</b>		
16.00-17.30	<b>Open event “Perspectives between European cities: how to federate local actors to accelerate the energy transition in the territories?”</b> Presentation to local partners of pilot-cities' activities (see guiding questions next page)	16.30-17.00	<b>CHECK-OUT and WRAP-UP</b>
19.00	<b>DINER</b>		



## Report and main takeaways

### Tuesday 29<sup>th</sup> March – 9:00 – 9:30 – Welcome in Brest

- TOMORROW delegation is welcome by 2 Vice-Presidents of Brest-Metropolis: Frédérique Bonnard Le Floc'h, Vice-President in charge of EU affairs and decentralised cooperation  
Glen Dissaux, Vice-President in charge of climate.

The two Vice-Presidents (speech of Frédérique Bonnard Le Floc'h available in Annex) have insisted on the added value of EU projects such as TOMORROW as key tools to rebuild a world of peace in the current context of war in Ukraine. They recalled how Brest, completely destroyed during WWII, is touched about what is happening in Ukrainian cities such as Marioupol and are convinced about the force of Europe's people to express its solidarity and help rebuild the country. They finally remind how important the role of local authorities in this context and more generally to face other challenges such as climate change and the energy transition, the topic addressed by TOMORROW.

#### **Glen Dissaux – VP of Brest**

With the current situation of war, Europe and EU projects are even more timely.  
As Cities, we are put in the frontline:

- Social demand for better environment
- Tackling climate issue

In Brest, we have 2 challenges "raising awareness for Citizens to change their behaviour and advocating the national level to remove the many obstacles we have to steer our green transition"

### Tuesday 29<sup>th</sup> March – 9:30 – 10:30 – Review of Brest's progress

#### **Slides presented by Anne-Claire Urvoas**

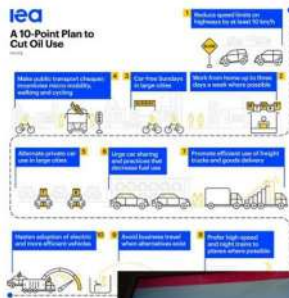
The presentation was followed by a discussion around the Charter approach to get local stakeholders committing to the transition, while not taking the risk of green washing for the city administration and politicians.

The micro-project and the upcoming local COP have also raised a lot of interest of the other consortium partners.

Tuesday 29<sup>th</sup> March – 10:45 – 11:30 – Workshop on challenges:  
Energy Price surge

CHALLENGE - Energy Price Surge

Les pêcheurs en détresse face à la cherté du carburant



Albania to go car-free on every month's first Sunday



Following a short contextualisation of the growing issue around the energy crisis, the following reactions were brought-up by Partners:

Suzanne – CODEMA - Dublin

- Remote working is a cost effective measure that could support without disruption + tax-benefit for citizens working from home.
- Irish legislation to make it harder for not allowing “teleworking”
- territorial prioritisation to start with vulnerable neighborhoods
- “split incentive” – Irish new legislation to be implemented by 2025 requiring more incentives

Alejandro – Valencia

- Electricity price more affected than gas in Spain
- No specific measures as “emergency” yet taken by the Municipality
- emergency measure is to pay for people to pay the bills
- but no magic solutions for the renovation hurdles
- Free public transport
- Remove “local licences” for PV – renovation >>>> fast-track for renovation, etc.

Cristiano – Advisory board member

- Very “country specific” as heating needs are very different from one country to another
- Showcasing what is effective is very IMPORTANT, e.g. through cartoons for energy literacy

### Sylvie - Brest

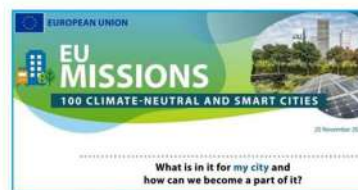
- Crisis might accelerate some “mobility measures”
- Energy Department making an analysis of the increase 5M€ increase (double price)

### Bojan - Nis

- Regarding vulnerable households, expected growing number of them with the current crisis
- Renovation of Multi-family buildings with financial support by Ministry/Cities for most vulnerable
- Tailored solution to the “local context” >>> firewood in many households in the Balkans with programmes of individuals stoves change, and 100% financed by municipalities with benefits on air-quality
- Regarding quick measures to be taken, in Serbia: electricity will increase drastically in a few weeks. Serbian Gvt limited price increase for citizens. RES deployment as a short term option. DHC to switch to biomass is feasible in 2 to 3 years.

## Tuesday 29<sup>th</sup> March – 11:45 – 12:30 – Workshop on challenges: getting local politicians’ buy-in

### CHALLENGE – Getting Local Politicians’ buy-in



#CitiesOFTOMORROW

Brest-metro organising a 6 webinars training for politicians with very little participation  
Alternative to a training?

- Collecting politicians inputs “co-creating” / exchange of good practices (e.g. Dublin’s gathering of politicians to present the Energy Masterplan, presenting the best pathways)
- Training visits
- Change the focus (link to EU funding / visibility)

### Alejandro - Valencia

- How to reach the politicians not in charge of “climate” or “green” but those running 90% of the budget or the most impactful services?
- How to avoid “politicians’ greenwashing”?
- Visibility at EU Level is very important... >>> recognition by EU networks / other Mayors to support measures...

## Tuesday 29<sup>th</sup> March – 14:00 – 15:30 – Meeting with local stakeholders

Following a quick presentation about their role in Brest area, the 3 speakers coordinated a discussion in small groups around governance and cooperation challenges and opportunities.

- Claire Engrand-Desse, member of the Climate Citizen Network
- Gilles Deotto - local director of Enedis ;
- Marie-Noëlle Le Kervern - Brest métropole, in charge of the metropolitan strategy



## Tuesday 29<sup>th</sup> March – 16:00 – 17:30 – Public event: “Perspectives between European cities: how to federate local actors to accelerate the energy transition in the territories?”

[Slides presented](#) during the public event attended by around 40 local stakeholders and citizens representatives.

Following a short presentation of TOMORROW’s raison d’être and objectives, each partner could explain during a moderated panel discussion:

- The vision and ambition of their city
- The main challenges encountered in engaging the community of stakeholders
- Some few recommendations to local stakeholders, National and European authorities to improve the legislative and financial framework





## Participants



Georgia is engaged in action research and consultancy in the fields of sustainability transitions and transition governance. She has been supporting the adaptation of transition governance processes in multiple contexts such as in informal settlements in Uganda and Ghana as part of the [T-GroUP](#) project and in rural communities in Honduras. She has been monitoring (transformative) social innovation processes and facilitating social innovation relays as part of [Social Innovation Community \(SIC\) project](#) and she has been coordinating different educational programmes on sustainability transitions. She loves watching international movies, taking creative pictures and dancing. She is very passionate about enhancing social inclusion, this is why she participates in different activities and events organised by local organisations.



Frédéric graduated in Environmental Engineering and has always worked with local authorities. Joining Energy Cities in 2009 was the perfect match for him to conciliate cities with the energy transition. Heading the Covenant of Mayors office since 2015, Frédéric has the opportunity to engage and support cities on the one hand and on the other to advocate for an enabling legislative and financial framework together. For TOMORROW, Frédéric will ensure the overall coordination. Father of 3 musketeers Frédéric also walks the transition talk after office hours: prosumer, member of several energy cooperatives, he is a daily “cycling cannibal” and also nicknamed “table trash” for always finishing his colleagues’ plates.



Stéphane is in charge of collaboration projects and peer-to-peer activities involving cities, but also research actors, EU and national institutions, consultants, etc. He is particularly interested in governance issues, citizens’ and stakeholders’ engagement, mobility or sustainable urban agriculture. Stéphane holds a Bachelor in Urban Social Studies, an M.A in Urban and Regional Planning as well as an MSc in Environmental Governance. For TOMORROW, Stéphane will ensure the overall coordination of the project. At home, Stéphane is engaged in a local solidarity organic agriculture project. He lives a car-free life with his family and in order to keep his environmental footprint as low as possible, Stéphane essentially travels by train to all European meetings. Ask him for tips the next time you travel! Stéphane thrives to keep a good balance between work and other parts of life and only works part-time.



Bojan is Energy Manager the City of Niš and has headed the Energy department since 2017 after 9 years of work in the Department as associate. As such, he coordinates Niš’ energy action plan, lead the Covenant Team and all energy related projects for the city, including TOMORROW and mPOWER. As a Permanent Member of the communal services and energy efficiency committee at Standing Conference of Serbian Towns and municipalities, he has the possibility to share Niš’ innovative policies and projects with other cities in the country. Married, he is father of 2 children.



Suzanne has worked for Codema since March 2009. Prior to joining us, she worked for the broadcaster Newstalk 106-108FM for almost five years as a researcher/reporter and then producer. Suzanne has a BA in Journalism from DCU, a Diploma in PR & Event Management from the Fitzwilliam Institute, and a Certificate in Internal Communications from the Public Relations Institute of Ireland. Suzanne is responsible for heading up all communication and public relations activities within Codema, such as stakeholder engagement, event management and regular project communications. Suzanne is responsible for leading projects such as the Think



Energy campaign and award-winning Home Energy Saving Kit initiative, and has most recently rolled out an extensive stakeholder engagement and event plan for the Dublin Local Authorities' Climate Change Change Action Plans.



Sylvie is the head of the energy division (within the Urban ecology department) at Brest métropole since 2009. The division is dealing with the implementation of the energy policy, the consumptions and GHG evaluation, the coordination and management of the heating network master plan, the coordination and supervision of the electricity, gas networks, the development of energy efficiency on the territory in public buildings and housing (co-pilot with the housing department) and renewable energies (photovoltaic, wind, wood), the smart-grids development. She has been involved in the Climate Action Plan definition and EEA, its implementation and its assessment, working on different aspects including communication and raising citizens awareness.



Dominique is in charge of the communication and organization of events within the Urban Ecology Department since 2012. She assists, with her two colleagues, all the divisions that composed the Department (fresh and salt water quality, rainwater, biodiversity air & noise and energy). The service creates exhibition panels, leaflets and educational tools, participate in several events such as the science festival (October), organize each year a water festival (march) and a nature festival (may), and the forum and the village "Climat Declic", in Brest and in the 7 cities of the metropole, which aim is to present simple solutions to enter into transition. Our events are dedicated to school children and adults to improve the knowledge in ecology and energy.



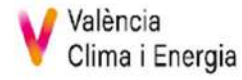
Anne Claire is dedicated to the Brest metropolis 2050 energy transition roadmap as part of the TOMORROW project. Professional experience: Patronage and Partnerships Project Coordinator, in charge of environmental programmes with a special focus on the sea.

She will be responsible for implementing the methodologies of the TOMORROW project, coordinating, proposing methods of intervention and organizing events, citizen participation conference and networking of local actors by supporting the resources of the Urban Ecology Department of Brest Metropole.



Alejandro is Energy Innovation Officer in València Clima i Energia. Professional experience: Project Manager of H2020 projects in the fields of energy (TOMORROW), electric mobility (MEISTER), security (ASSISTANCE, PREIVISION) and smart cities (MatchUP). Elaboration of several H2020 proposals, as coordinator of the consortium and main contributor. Technical leadership and support in national, public-private projects related to sustainability and smart mobility. Management and technical office in R+D platforms formed by public entities and private companies.

**drift**  
for transition





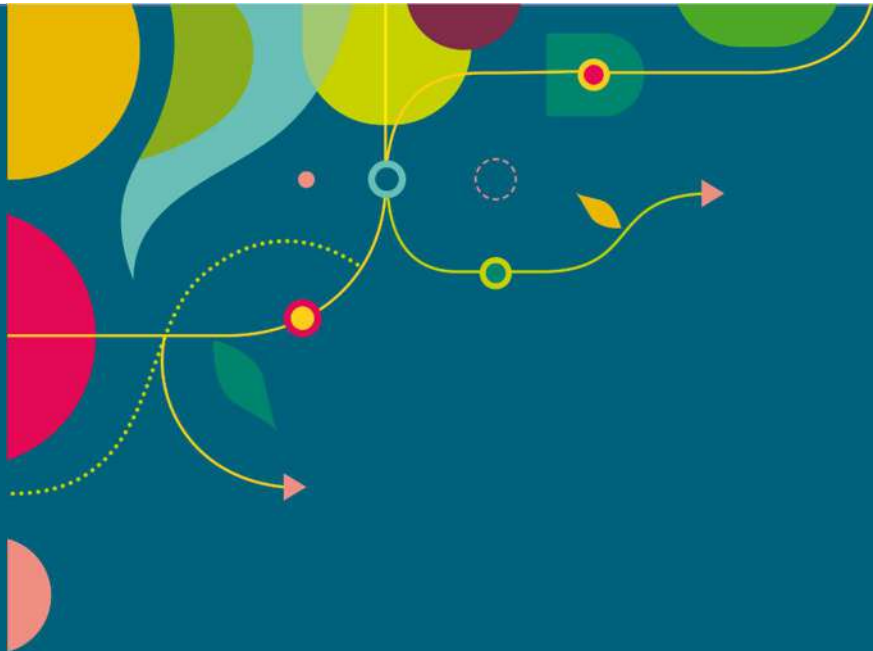
# TOMORROW

[www.citiesoftomorrow.eu](http://www.citiesoftomorrow.eu)

Tomorrow is a Horizon 2020 funded project, aiming at empowering local authorities to lead the transition towards low-carbon, resilient and more liveable cities. In the framework of the project, six cities will develop 2050 transition roadmaps together with citizens and other local stakeholders and serve as pilot for the transition of European territories.

**CONTACT**

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# Study Tour in Mouscron

## Report



Funded by the H2020 programme of  
the European Union

21-22 June 2022



**TOMORROW**



**Title of the report here**

Study tour in Mouscron

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This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847136.

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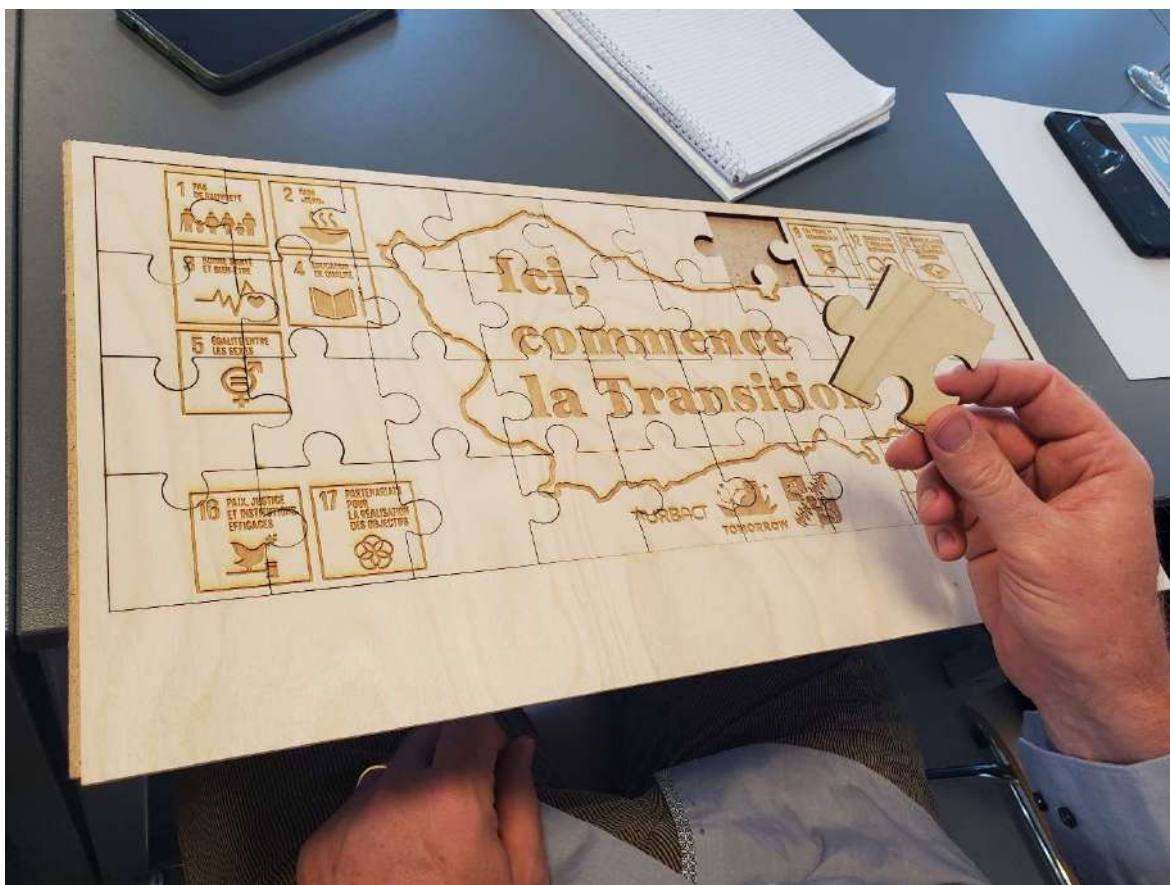
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## Aims of the Study Tour

- Inspiring Pilot Cities with Mouscron's roadmapping process
- Getting feedback / advice from Consortium to Mouscron challenges
- Discussing ongoing challenges to Cities' energy and climate transition
- Consortium Steering Committee meeting



## Agenda

21 June 2022		22 June 2022	
9.00-9.30	<b>WELCOME IN MOUSCRON</b> <ul style="list-style-type: none"><li>• Brigitte Aubert, Mayor of Mouscron</li><li>• Anne Cloet, Deputy-Mayor of Mouscron</li></ul>	9.15-9.45	<b>Steering Committee meeting</b>
9.30-10.30	<b>REVIEW of Mouscron's progress and communication</b>	9.45-12.00	<b>Roadmap writing session</b>
10.30-11.30	<b>Presentation of MYDIBEL transition</b>		
11.30-12.30	<b>Press conference</b>		
14.00-16.00	<b>LUNCH BREAK</b>		
	<b>Geocaching game</b>		
16.00-17.00	<b>Wrap-up and next steps</b>		

## Report and main takeaways

### Thursday 21 June – 9.00 – 9.30 – Welcome in Mouscron

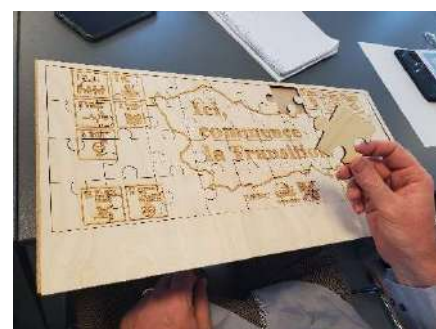
Welcome by the Mayor and Deputy-Mayor.  
Mouscron delighted to host the pilot cities of TOMORROW and showcase the achievements, despite the Covid-pandemic that has slowed down the implementation.



### Thursday 21 June – 9.30 – 11.30 – Diving into Mouscron's transition

#### Internal and external communication of Mouscron

- Set-up of a Transition Team thanks to TOMORROW project to first discuss internally before engaging the community.
- Analysis of each Departments policies through the “SDGs” lens.
- Training of all Municipal Departments (10 of them) using videos (e.g. thermostat 6 – Man by Steve Cuts)
- Team-building with 350 voluntary participants with Geocaching, then promoted to citizens.
- Political discussion plan in September with the Municipal Council
- Communication via internal and external newsletters



This work is coordinated by the Internal Communication Unit with the support of the Environment  
There is combined work between the Communication (internal and external) and other departments implementing concrete actions.

The City has a dedicated budget and the TOMORROW project was instrumental to those activities.

#### Question and Answers

##### Main barriers to the transition

- Sectorial approach, including support, from Regional and National level
- Political mandate duration versus long-term transition
- Specific tools relevant to support
  - Plan Stratégique Transversal

#### Environment Department activities related to the SDGs

Mouscron involved in an URBACT project “SDGs Tour” with Talinn as lead + La Rochelle, which concretely means:

- Radiow shows + social media



- Newsletter referring to SDGs
- Caravane's tour
- Night watch
- School awareness raising events
- Work with Library to rewrite the SDGs, the Mouscron's way
- All of this will be compiled in a catalogue of citizens ideas to be given to the "politicians" for the next mandate
- Local tool 'SDG's barometer'

### **Mydibel Group**

Presentation of the decarbonisation / hydrogen project of the biggest potatoes industry based in Mouscron.

## **Thursday 21 June – 11.30 – 12.30 – Press conference and launch of citizens engagement platform**

Short Press-Conference including the Mayor and Deputy-Mayor of Mouscron, Magali Viane, Energy Manager and Frédéric Boyer, to present the objectives of the Project and launch the citizens engagement platform.

This platform aims at engaging citizens/local stakeholders to contribute to the ecological transition by presenting projects within the platform

- E-identification
- Short presentation of the project
- Geolocalisation of the project
- Validation by the TEAM and selection for support as well as possibility for people to "support" via "likes" the project
- Possibility to elect the "Transition Genius" to act as ambassadors

## Friday 22 June – 10.00 – 11.00 – Discussion on the Roadmap

### Mouscron

- Format of the Roadmap: very flexible but a document in French you can use to explain to your community what you are doing and how to further engage them via the Platform?

Using the 7 dimensions of Mouscron (e.g. Green, etc.)

Showing what the Public administration is already doing under this 7 dimension

Asking the community to engage and support those 7 dimensions

Showing the “silo breaking” put in place within the Administration @ Céline

Roadmap to support the “citizens engagement platform”

Mouscron decarbonised: what the city is doing, what you can do?

Mouscron producing RES: what the city is doing, what you can do?

Mouscron resilient to CC: what the city is doing, what you can do?

Endorsement by the Municipal Council.

### NIS

- Roadmap including a communication plan
- No main obstacle, although the roadmap will not be as ambitious as initially thought
- Good data availability from energy poverty study, SECAP

### Brest-Metropolis

- PCAET until 2025
- Stakeholders engagement but only summarised on Brest-website.
- Local COP – to give visibility to climate-change + communicate about other projects + raise awareness of local stakeholders + ask for new commitments

Stakeholder commitment over after TOMORROW: this is being discussed following an external evaluation of (projects / commitments, etc.)

### Dublin

- Transition Team suggestions
- Master Plan
- Citizens engagement plan (not implemented by Nov)

To be endorsed by the Mayors/CEOs of the 4 LAs as they have to update their Action Plans, etc.

-



## Participants



Frédéric graduated in Environmental Engineering and has always worked with local authorities. Joining Energy Cities in 2009 was the perfect match for him to conciliate cities with the energy transition. Heading the Covenant of Mayors office since 2015, Frédéric has the opportunity to engage and support cities on the one hand and on the other to advocate for an enabling legislative and financial framework together. For TOMORROW, Frédéric will ensure the overall coordination.



Stéphane is in charge of collaboration projects and peer-to-peer activities involving cities, but also research actors, EU and national institutions, consultants, etc. He is particularly interested in governance issues, citizens' and stakeholders' engagement, mobility or sustainable urban agriculture. Stéphane holds a Bachelor in Urban Social Studies, an M.A in Urban and Regional Planning as well as an MSc in Environmental Governance. For TOMORROW, Stéphane will ensure the overall coordination of the project.



Ivana Knezevic Spasovic representing the city of Nis



Goran Vuckovic representing the city of Nis



Suzanne has worked for Codema since March 2009. Prior to joining us, she worked for the broadcaster Newstalk 106-108FM for almost five years as a researcher/reporter and then producer. Suzanne has a BA in Journalism from DCU, a Diploma in PR & Event Management from the Fitzwilliam Institute, and a Certificate in Internal Communications from the Public Relations Institute of Ireland. Suzanne is responsible for heading up all communication and public relations activities within Codema, such as stakeholder engagement, event management and regular project communications.



Katie Harrington from CODEMA.

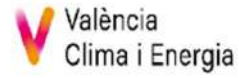


Anne Claire is dedicated to the Brest metropolis 2050 energy transition roadmap as part of the TOMORROW project. Professional experience: Patronage and Partnerships Project Coordinator, in charge of environmental programmes with a special focus on the sea.

She will be responsible for implementing the methodologies of the TOMORROW project, coordinating, proposing methods of intervention and organizing events, citizen participation conference and networking of local actors by supporting the resources of the Urban Ecology Department of Brest Metropole.



Magali Viane is the head of Mouscron's Energy Department, in charge of the SECAP and the management of public buildings and lighting.





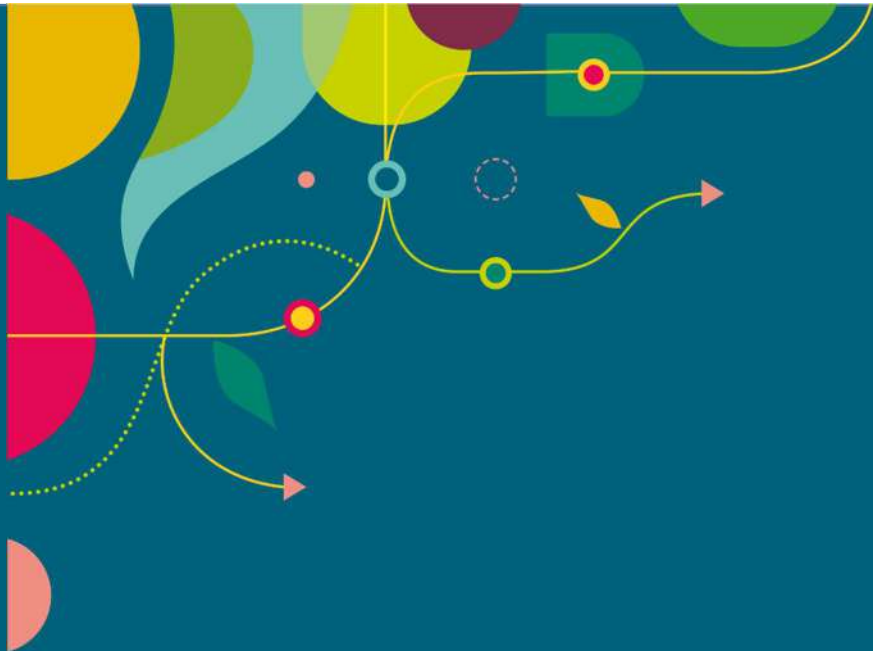
# TOMORROW

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Tomorrow is here. It's time to start planning at  
empower [www.citiesoftomorrow.eu](http://www.citiesoftomorrow.eu) towards  
low-carbon cities. The framework  
of the project, six cities will develop 2050 transition roadmaps  
together with citizens and other local stakeholders and serve as  
pilot for the transition of European territories.

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# Study tour in BRAȘOV

## Report



Funded by the H2020 programme of  
the European Union

5-8 September 2022



**TOMORROW**



### **Title of the report here**

Report of the Study tour in Brasov

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## Aims of the Study Tour

- Inspiring Pilot Cities with Mouscron's roadmapping process
- Getting feedback / advice from Consortium to Mouscron challenges
- Discussing ongoing challenges to Cities' energy and climate transition
- Consortium Steering Committee meeting



## Agenda

06 <sup>th</sup> September 2022		07 <sup>th</sup> September 2022	
09.00-10.30	<b>OPENING THE STUDY VISIT</b> <ul style="list-style-type: none"> <li>• Braşov representative</li> <li>• ABMEE presentation of the roadmapping</li> </ul>	09.30-11.00	<b>CITIZENS AND CLIMATE NEUTRALITY – GREEN CITIES FORUM CONFERENCE – Panel 8</b> <ul style="list-style-type: none"> <li>• How did the TOM cities engage the citizens and informed them about the transition process?</li> </ul>
10.30-11.00	<i>Coffee break</i>		<i>Transfer to next location</i>
11.00-13.00	<b>THE FUTURE OF HEAT PRODUCTION IN BRAŞOV</b> <ul style="list-style-type: none"> <li>• Visit at Bepco (Transition Team member), the local HE-CHP private company for heat production and their plans with regards to climate neutrality</li> </ul>	11.00-11.30	
		11.30-13.00	<b>BRAŞOV, A HOME FOR EVERYONE – the social perspective</b> <ul style="list-style-type: none"> <li>• Visiting the refugees centre CATTIA awarded with BLUE DOT by UNICEF and Japan`s Government</li> <li>• Flavia BOGHIU, Braşov Deputy Mayor</li> </ul>
13.00-14.15	<b>LUNCH</b>	13.00-14.15	<b>LUNCH</b>
14.15-16.30	<b>Internal Discussion including preparation of the Panel 8</b>	14.15-16.15	<b>HOW DO WE MOVE IN AND AROUND BRAŞOV</b> <ul style="list-style-type: none"> <li>• Public transport company (Transition Team member)</li> <li>• Metropolitan transport (metropolitan agency AMB)</li> </ul>
16.30-17.00	<b>CONCLUSIONS AND NEXT DAY AGENDA</b>	16.15-17.00	<b>WRAP-UP</b>
19.00	<b>DINNER</b>	19.00	<b>DINNER in Poiana Braşov</b>

## Report and main takeaways

Tuesday 6 September – 9.00 – 10.30 – Welcome in Braşov

### **Welcome by Braşov's Mayor Allen Coliban and Deputy-Mayor Flavia Boghiu.**

- “Elected for the first time in 2020, we want to turn “Braşov into the Green Capital of Romania;
- During last year’s forum, our City committed to reaching climate-neutrality by 2050 in the framework of the Covenant of Mayors;
- We have made concrete progress in the last year: sustainable mobility (e.g. electrical buses, cycling lanes) and now focus on the energy sector, considering the current crisis, sector in which we can count on the guidance of ABMEE, our energy agency;
- Our political team has high ambition, clear milestones to achieve and a plan to implement and we are in a Sprint with other cities in Romania;
- We want to seize the new financial opportunities coming from the EU (ERDF, RRF), although this public money is not enough to implement all our projects and should be used as lever to access private funding;
- Finally, we have a new approach to implement our ambition, through the involvement of citizens and local stakeholders”.



### **BRAŞOV's roadmap and recent achievements by Camelia Raţă, Leea Mihaila (discussion continued on 6 September from 14.30 to 17.00)**

Work on a 2050 vision with the municipality with focus on some key sectors ([see slides presented](#))

#### Distric Heating and Cooling

- 6.000 flats out of 90.000 connected with a challenge to convince people to connect/stay connected, considering the “communist heritage” of collective properties and services;
- DHC grid is managed by a Municipal Service,
- Energy production of the DHC is managed by a private company – BEPCO, to be visited during the study-tour

>>> *Next step: a communication campaign on DHC's benefit for citizens / society*

#### Deployment of Renewable Energy - PV electricity installation

- A new project to install PV panels on public schools has just been approved by the Municipal council. Schools would benefit from the net-compensation in place until 2030
- There are no plan, at this stage, to involve “citizens” via an energy community as no return on investment for them due to net-compensation system.

#### Public lighting

- The City public service is aiming at renewing the whole public lighting to LED with telemanagement technology which should reach important savings.

#### Energy poverty

- Social service giving allowance according to household's revenue

- Energy advise/counsellors for low-cost measures (e.g. Codema's energy tool-kit) not in place in Braşov

>>> *Next step: supporting the creation of an Energy Transition Department in Braşov.*

#### Mobility

- 50% of PT via 100% electrical buses
- 100% electric for PT and municipal fleet
- Community mobility laboratory

More information to be provided during the discussion with Metropolitan Mobility Expert.

#### TOMORROW ROADMAP

- Document presented during the discussion would be an official annexe to the SECAP as the SECAP is an official document of Braşov.

## Tuesday 6 September – 11.00 – 10.30 – THE FUTURE OF HEAT PRODUCTION IN BRAŞOV – Visit at BEPCO

Our consortium was welcome on the former thermo-energy units of Braşov by the top-management of BEPCO. ([presentation by BEPCO](#))

BEPCO is responsible for the energy (heat and electricity production) whereas the heat network is managed by a municipal service. BEPCO is also participating to the Balancing Market of the National Energy System.



#### Technically:

The former 2x50MW coal-fired units were turned into 4 units generating 43MW via high efficiency cogeneration >>> 82% CO2 reduction = 1/3 of Braşov's GHG reduction by 2030.

#### What about RES?

- No solar heating, no geothermal potential
- Biomass could be a limited heating contribution
- Biogas could be implemented but at the moment, waste management (refused derived fuel) not allowing it
- Green hydrogen: a potential but not yet sure about the feasibility, legislative ground, etc.
- Thermal energy storage to be installed / launched on the site
- CO2 capture at Nord Power Plants: not convincing compared to other RES energy production solutions
- Circular approach on the site, welcoming industrial laundry and other business to use wasted heat.



## Wednesday 7 September – 9.30 – 11.00 – PUBLIC SESSION AT BRASOV GREEN CITIES FORUM

Our consortium coordinated a public session to present the objectives, achievements and methodology developed in the framework of TOMORROW to the participants to Brasov Green Cities Forum. The forum was gathering around 50 participants (mainly from Romania) in the room, representing local authorities and stakeholders involved in the ecological transition and was also webstreamed.



For more information, consult the [agenda](#).

This public session was also an opportunity for TOMORROW to promote the achievements of the project on social media.



## Wednesday 7 September – 11.30 – 13.00 – VISIT OF CATTIA, CENTER FOR REFUGEES

Our consortium was welcomed by Flavia BOGHIU, Deputy Mayor of Brasov, at the center for Ukrainians refugees CATTIA.

Installed on the headquarters of the Metropolitan Development Agency, this center was open just a week after the start of the war in Ukraine.

The visit and exchange with the Deputy-Mayor and the Center's Director were very inspiring, demonstrating how efficiently and quickly a local authority can respond to an unprecedented crisis. The key ingredients of this successful initiative counted the involvement of other stakeholders into the design and operation of support activities to Refugees.



## Wednesday 7 September – 14.30 – 16.00 – MOBILITY IN BRASOV – MEETING WITH METROPOLITAN AGENCY

Our consortium met with Catalin Frangulea, Head of the Mobility department at the Agency. Following a [presentation](#) of the vision, main achievements and challenges faced by Brasov in terms of mobility, the consortium members discussed the following issues with Catalin Frangulea.

### Main challenges and possible solutions

- Need of investment?
  - o not really a problem as ERDF, RRF, etc. available
  - o issue of staff capacity in order to make the project and spend the available money
- Cultural change: How????
  - o Giving visibility notably to the youth
- Political vision and decision: How????
  - o Hearing from other experiences (study tours, etc.)

## Wednesday 7 September – 16.00 – 17.00 – WRAP-UP and NEXT STEPS

### **WRAP-UP**

All participants to the Study Tour gave a very positive feedback and warm thank you to ABMEE for the very well organised study tour. Through the visits and meetings, we could perceive:

- o The political will and ambition
- o The level of expertise
- o The potential for Braşov to become the greenest Romanian city and why not European Green Capital in the coming years.

### **Next dates**

- 26-27-28 October – Valencia study tour + final conference
- 8-9 November – Study tour in Nis



## Participants



Frédéric Boyer graduated in Environmental Engineering and has always worked with local authorities. Joining Energy Cities in 2009 was the perfect match for him to conciliate cities with the energy transition. Heading the Covenant of Mayors office since 2015, Frédéric has the opportunity to engage and support cities on the one hand and on the other to advocate for an enabling legislative and financial framework together. For TOMORROW, Frédéric will ensure the overall coordination. Father of 3 musketeers Frédéric also walks the transition talk after office hours: prosumer, member of several energy cooperatives, he is a daily “cycling cannibal” and also nicknamed “table trash” for always finishing his colleagues’ plates.



Stéphane Dupas is in charge of collaboration projects and peer-to-peer activities involving cities, but also research actors, EU and national institutions, consultants, etc. He is particularly interested in governance issues, citizens’ and stakeholders’ engagement, mobility or sustainable urban agriculture. Stéphane holds a Bachelor in Urban Social Studies, an M.A in Urban and Regional Planning as well as an MSc in Environmental Governance. For TOMORROW, Stéphane will ensure the overall coordination of the project. At home, Stéphane is engaged in a local solidarity organic agriculture project. He lives a car-free life with his family and in order to keep his environmental footprint as low as possible, Stéphane essentially travels by train to all European meetings. Ask him for tips the next time you travel! Stéphane thrives to keep a good balance between work and other parts of life and only works part-time.



Allison Le Corre joined Energy Cities in May 2022 to work in communications. She is an avid storyteller, passionate about relating stories about inspiring projects and initiatives striving to build a more sustainable future. She holds a Masters in political sociology from Sciences Po Paris, with a specialization in Latin American Studies. Before moving to Brussels, she worked for three years in various local impact projects in Havana, Cuba.



Bojan Gajic is Energy Manager in the City of Niš and has headed the Energy department since 2017 after 9 years of work in the Department as associate. As such, he coordinates Niš’ energy action plan, lead the Covenant Team and all energy related projects for the city, including TOMORROW and mPOWER. As a Permanent Member of the communal services and energy efficiency committee at Standing Conference of Serbian Towns and municipalities, he has the possibility to share Niš’ innovative policies and projects with other cities in the country. Married, he is father of 2 children.



Ivan is currently employed by the Office for Local Economic Development and Projects of the City of Niš at a position of Manager of Department for Development and Implementation of National and International Projects. He holds a Master degree of Environmental Engineering gained at Faculty of Occupational Health at University of Niš.“



Alejandro Gomez is Energy Innovation Officer in València Clima i Energia. Professional experience: Project Manager of H2020 projects in the fields of energy (TOMORROW), electric mobility (MEISTER), security (ASSISTANCE, PREIVISION) and smart cities (MatchUP). Elaboration of several H2020 proposals, as coordinator of the consortium and main contributor. Technical leadership and support in national, public-private projects related to sustainability and smart mobility. Management and technical office in R+D platforms formed by public entities and private companies.



Magali Viane is the head of Mouscron's Energy Department, in charge of the SECAP and the management of public buildings and lighting.



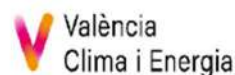
Camelia Rață is the head of ABMEE, the Energy Agency of Brasov.



Leea Mihaila is the communication expert of ABMEE, the Energy Agency of Brasov.



Anca Grigore is an economist, supporting ABMEE's project management.





# TOMORROW

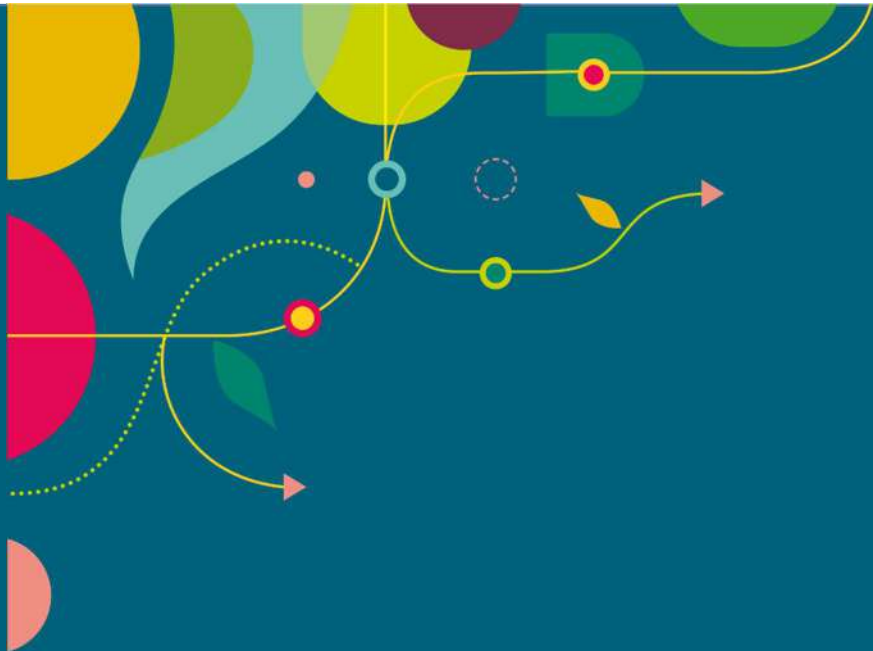
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**CONTACT**

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# STUDY TOUR IN VALENCIA

## Report



Funded by the H2020 programme of  
the European Union

27-28 October 2022



**TOMORROW**



### **Title of the report here**

Report of the Study Tour in Valencia

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### Context

The study tour in Valencia was organised back-to-back with the Final Conference of TOMORROW (Milestone M12) on 27-28 October. Some of the activities also welcome a number of Master Class participants who had the opportunity to share their experience and benefit from the advices of TOMORROW’s pilot cities and experts.

### Aims of the Study Tour

- Inspiring Pilot Cities and Master Class with Valencia’s roadmapping process

- Discussing ongoing challenges to Cities' energy and climate transition
- Sharing knowledge and experience with Master-Class participants
- Meeting with Advisory Board Members (cancelled due to unavailability of the members)



## Agenda

### Thursday 27th October **with Master Class Participants**

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**9:30 WELCOMING THE TOMORROW PROJECT IN VALÈNCIA (TOMORROW partners and Masterclass participants)**

**Welcome (10')**

Tomás Gómez, Director of the Institute of Energy Engineering of the Polytechnical University of València

**Story-telling of València (40')**

Alejandro Gómez, Officer of València Clima i Energía

**Questions and Answers (30')**

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**10:50 Break (20')**

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**11:10 Masterclass participants meet TOMORROW cities (90')**

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**13:00 Consortium and Masterclass common lunch**

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*Place: Universitat Politècnica de València, ETSA, room A00 ([map](#))*

### Thursday 27th October

---

**13:00 Consortium and Masterclass lunch**  
*Place: Universitat Politècnica de València*

---

**14:30 STUDY VISIT (TOMORROW partners)**  
**Presentation of the Energy Office (30')**  
**TOMORROW Steering Committee (90')**  
*Place: Energy Office, C/ José Maria Haro, 9*

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**16:30 Visit to the natural parc l'Albufera in electric boat**

---

**20:30 Consortium dinner**  
*Place: Restaurant Canyamel, Carrer del Santíssim Crist de la Salut, 9, 46012*

### Friday 28th October

---

**9:30 STUDY VISIT (TOMORROW partners)**  
**Presentation of mobility projects**  
Bike lanes, pedestrianisation strategy, restricted access zones, electric charging points, etc.  
*Place: Plaça de la Reina, 46003*

---

**11:30 End of the TOMORROW visit**

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## Report and main takeaways

## Thursday 27 October 2022 – 9:30 – 9:50 – Welcome in VALENCIA

- **Welcome in the Polytechnic University of Valencia by Tomas Gomez, Director of the Energy Department**

Glad to welcome the delegation of TOMORROW.

The University is indeed very much supporting the energy transition of the city:

- Offering the campus as a test-lab on different things (e.g. mobility, food, waste, energy efficiency)
- Providing monitoring (e.g. indicators and numbers ;carbon footprint, possible savings, etc.) to the city administrations and partners
- We participated in the round-tables organised by Valencia and the Energy Agency during the TOMORROW.

## Thursday 27 October 2022 – 9:50 – 10:50 – Roadmapping process in Valencia – Alejandro Gomez

[Slides](#) presented by Alejandro Gomez

Followed some discussions around:

- **The platform to engage citizens / stakeholders in the transition**

Which type of indicators are used?

How do we ensure monitoring actions by citizens/stakeholders?



Are you planning to engage people not already convinced? This is very complex. The platform is quite complex and there is little hope that normal citizens will sign-up. To overcome that, we are counting on good communication campaign to raise awareness of people.

How many people do you target? No objectives were set for the points explained before.

- **My neighbourhood in transition to reach-out to “normal citizens”**

Are people sticking to the topic or bringing any other frustration? A good moderation can allow to overcome this issue, by e.g. opening with a session to hear about citizens’ problems before working on climate mission.

How to select/prioritise the neighbourhood? We select the neighbourhood in which the Energy Office is located and already works with other associations. We started with an easier target.

- **How to finance the transition in Valencia?**

Most of the investment would have to be made by citizens, but this is difficult to accept.

## Thursday 27 October 2022 – 11:30 – 12:30 – Master class participants meet TOMORROW pilot cities

### Group 1: Oeras (PT), (NL), Troya (Turkey), Greece

#### Oeras (PT)

- CoM SECAP process initiated years ago
- EU Green Deal – climate law leading to PT going for climate-neutrality then leading for Oeras 70% reduction by 2030
- We have characterized our system and we are finalising action plan
- We have to do the participatory process
- Challenges
  - Crossing emissions with people commuting via Oeras as the PT is not performing well, a domain which is very controversial within the Lisbon area
  - Issue of administrative public procurement
  - SECAP to be approved by Feb 2024, and this is challenging to organise an holistic approach in such a timeline. Inventory / risk assessment made in 2019.
  - Challenge of Energy Communities, with a law which is not helping

#### (HL) 70.000 inhabitants

- Lack of staff with no Energy manager or Energy Department, but dealt by the technical department
- Issue of MLG, where the local plan has to be aligned with Regional and National Plan sometimes missing
- Politicians are pushing for the Action Plan in order to get access to funding but without a systemic vision
- In Greece, very top-down approach to policies with difficulties to work bottom-up and engage
- Another challenge is the energy poverty: the city had to provide subsidies to buy fire-wood for citizens.
- Idea to incorporate energy policy in all urban plans (e.g. building plan, mobility, ...)
- Idea to involve children on different themes. Thanks to TOMORROW, trying to support some schools to develop transition plans.: “School contest”
- Energy communities: very good law in 2016 but as 5 people could create one, big companies seize the opportunity and the Gvt decided to cut the privileges. With the crisis, cities are going to be allowed to produce as much as they can.

#### Ines – Sustainable Energy expert having worked in Latin America

At the moment working with H2, for a private company, trying to adapt the participatory tools to development of those regional projects.

### Energy Cooperative and RESCOOP turkey

- National Gvt committed to climate-neutrality by 2050
- Regarding the How? Regional approach as well as municipal actions plans to be developed
- Energy production is mainly coming from outside (gas and coal) and this is not supporting RES deployment
- Survey of citizens and the results were very positive with regards to RES and energy communities and 75% willing to be self-sufficient.

### Dublin – CODEMA reactions and suggestions

- The issue of resources/capacities is everywhere >>> having a separate energy agency helps ring-fence access to funding, public procurement rules, etc. with the drawback that they then fully rely on the agency and do not engage
- Top-down approach: also difficult to navigate in the territorial planning. >>> using EU legislation to push for anticipating, adding other activities at the same time.

### Group 2

- Participatory approach takes time.
- Motivation tends to diminish if plans, etc. are not turning into concrete actions impacting now >>> important to engage the financial sector for the actions to take place

### Group 3

- The more you go into details, the more specific it is and specific challenges

## Thursday 27 October 2022 – 14:30 – 16:00 – Steering Committee Meeting

Takeaways of the meeting are reported under Deliverable D1.3.

## Thursday 27 October 2022 – 16:30 – 18:00 – Visit of the Park of Albufera

During a boat tour to which participated a Regional TV crew, the partners were introduced to natural reserve protection policies.

The TV crew was introduced to the objectives of the TOMORROW project as well as to Valencia's key activities in that context to drive the transition of the territory to climate-neutrality.





## Friday 28 October 2022 – 9.30 – 11.30 –Walking tour of Valencia’s city centre with Mobility experts

During a 2 hours walk through Valencia’s centre, TOMORROW’s team was introduced by 2 mobility experts from the municipality to:

- The soft mobility policies of the last years with the important development of cycling lanes to counter the important use of private cars in Valencia;
- The urban planning policies with the transformation of some key squares into no-car zones, public spaces of recreation.

The same TV crew was also participating to this walking-tour in order to report and communicate about Valencia’s green policies.

The TV recording (in Spanish) can be found [here](#).





## Participants



Giorgia is engaged in action research and consultancy in the fields of sustainability transitions and transition governance. She has been supporting the adaptation of transition governance processes in multiple contexts such as in informal settlements in Uganda and Ghana as part of the [T-GroUP](#) project and in rural communities in Honduras. She has been monitoring (transformative) social innovation processes and facilitating social innovation relays as part of [Social Innovation Community \(SIC\) project](#) and she has been coordinating different educational programmes on sustainability transitions. She loves watching international movies, taking creative pictures and dancing. She is very passionate about enhancing social inclusion, this is why she participates in different activities and events organised by local organisations.



Frédéric graduated in Environmental Engineering and has always worked with local authorities. Joining Energy Cities in 2009 was the perfect match for him to conciliate cities with the energy transition. Heading the Covenant of Mayors office since 2015, Frédéric has the opportunity to engage and support cities on the one hand and on the other to advocate for an enabling legislative and financial framework together. For TOMORROW, Frédéric will ensure the overall coordination. Father of 3 musketeers Frédéric also walks the transition talk after office hours: prosumer, member of several energy cooperatives, he is a daily “cycling cannibal” and also nicknamed “table trash” for always finishing his colleagues’ plates.



Stéphane is in charge of collaboration projects and peer-to-peer activities involving cities, but also research actors, EU and national institutions, consultants, etc. He is particularly interested in governance issues, citizens’ and stakeholders’ engagement, mobility or sustainable urban agriculture. Stéphane holds a Bachelor in Urban Social Studies, an M.A in Urban and Regional Planning as well as an MSc in Environmental Governance. For TOMORROW, Stéphane will ensure the overall coordination of the project. At home, Stéphane is engaged in a local solidarity organic agriculture project. He lives a car-free life with his family and in order to keep his environmental footprint as low as possible, Stéphane essentially travels by train to all European meetings. Ask him for tips the next time you travel! Stéphane thrives to keep a good balance between work and other parts of life and only works part-time.



Bojan is Energy Manager the City of Niš and has headed the Energy department since 2017 after 9 years of work in the Department as associate. As such, he coordinates Niš’ energy action plan, lead the Covenant Team and all energy related projects for the city, including TOMORROW and mPOWER. As a Permanent Member of the communal services and energy efficiency committee at Standing Conference of Serbian Towns and municipalities, he has the possibility to share Niš’ innovative policies and projects with other cities in the country. Married, he is father of 2 children.

Adriana



Suzanne has worked for Codema since March 2009. Prior to joining us, she worked for the broadcaster Newstalk 106-108FM for almost five years as a researcher/reporter and then producer. Suzanne has a BA in Journalism from DCU, a Diploma in PR & Event Management from the Fitzwilliam Institute, and a Certificate in Internal Communications from the Public Relations Institute of Ireland. Suzanne is responsible for heading up all communication and public relations activities within

Codema, such as stakeholder engagement, event management and regular project communications. Suzanne is responsible for leading projects such as the Think Energy campaign and award-winning Home Energy Saving Kit initiative, and has most recently rolled out an extensive stakeholder engagement and event plan for the Dublin Local Authorities' Climate Change Change Action Plans.



Katie Harrington joined the team in July 2020 and is Codema's Energy and Climate Awareness Officer.



Dona Gartland took up the position of Chief Executive Officer of Codema in April 2020 and has worked with the company since 2013. She is a qualified electrician with a BEng in Energy and Environmental Engineering from the Institute of Technology Tallaght and a MSc in Sustainable Energy Planning and Management from Aalborg University, Denmark.



Anne Claire is dedicated to the Brest metropolis 2050 energy transition roadmap as part of the TOMORROW project. Professional experience: Patronage and Partnerships Project Coordinator, in charge of environmental programmes with a special focus on the sea.

She will be responsible for implementing the methodologies of the TOMORROW project, coordinating, proposing methods of intervention and organizing events, citizen participation conference and networking of local actors by supporting the resources of the Urban Ecology Department of Brest Metropole.



Magali Viane is the head of Mouscron's Energy Department, in charge of the SECAP and the management of public buildings and lighting.



Alejandro is Energy Innovation Officer in València Clima i Energia. Professional experience: Project Manager of H2020 projects in the fields of energy (TOMORROW), electric mobility (MEISTER), security (ASSISTANCE, PREIVISION) and smart cities (MatchUP). Elaboration of several H2020 proposals, as coordinator of the consortium and main contributor. Technical leadership and support in national, public-private projects related to sustainability and smart mobility. Management and technical office in R+D platforms formed by public entities and private companies.

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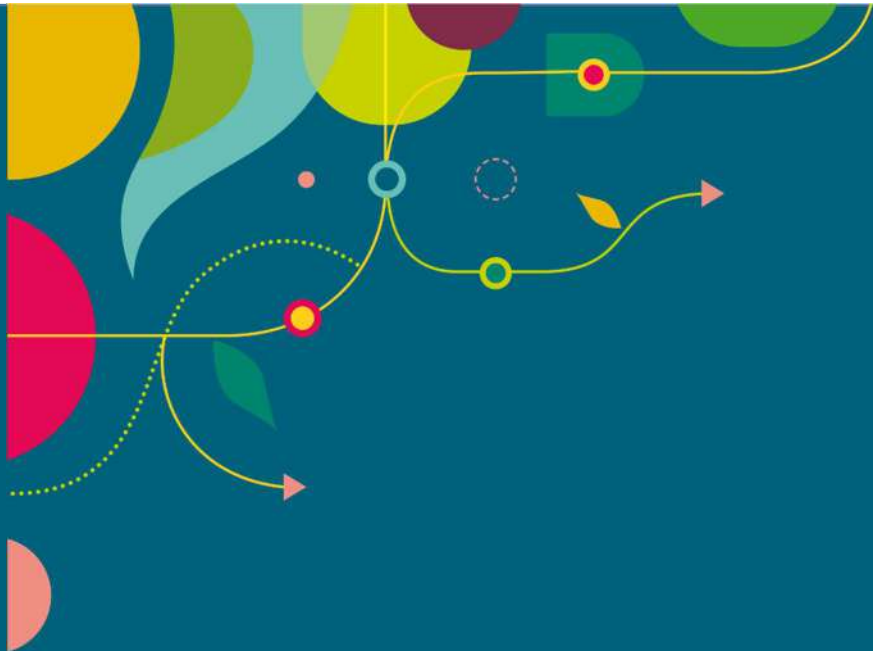
# TOMORROW

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**CONTACT**

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# Study tour in NIS

## Report



Funded by the H2020 programme of  
the European Union

27-28 October 2022



**TOMORROW**



### **Title of the report here**

Report of the Study Tour in Nis

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This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847136.

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### Context

The study tour in Nis is the last study tour organised in the framework of the project. Considering the difficulties to reach Nis as well as issues of agenda for several partners, only Energy Cities, and the Pilot-Cities of Valencia and Mouscron could be represented.

### Aims of the Study Tour

- Discussing ongoing challenges to Cities’ energy and climate transition
- Meeting with Transition Team





# Agenda

## Tuesday 8<sup>th</sup> of November

### Location: Belgrade

07:20 Departure to Niš by shuttle

### Location: Niš; Hotel Eter, Nikole Pašića br. 29 (<https://eterhotel.rs/>)

10:30 Arrival in Niš,

### Location: Niš; City House, 7. juli 2

11:00 Coffee with City of Niš TOMORROW Project Team

11:30 Shuttle drive to Hydro Power Plant "Sićevo" location

### Location: Niš; Hydro Power Plant "Sićevo"

12:00 Visit of one of the oldest Hydro Power Plants "Sićevo" (host Milan Đurđević, EPS)

13:00 Shuttle drive to restaurant

### Location: Niš; Restaurant Stambolijski, Nikole Pašića 36 (<https://www.restoranstambolijski.rs/>)

13:30 Lunch (paid by project)

15:00 Shuttle drive to Majakovski street

### Location: Niš; Majakovski street 26

15:30 Meeting with First Energy Community in Niš (still in progress) (hosts Stefan Digić, housing association & Prof. dr Predrag Cvetković, CORE)

16:00 Shuttle drive to City Center

### Location: Niš; City Center

16:15 Walking Tour

17:30 End of Walking Tour – free time

### Location: Niš; Restaurant Nišlijska Mehana, Kralja Stefana Prvovenčanog 22, (<http://nišlijskamehana.com/>)

20:30 Dinner (paid by project)

### Wednesday 9<sup>th</sup> of November

**Location: Niš; Hotel Tami Residence, Durmitorska prilaz br.1 (<https://www.tamiresidence.com/>)**

- 09:00 TOMORROW project issues (preparation of final reports, details about last activities before the end of November, Budget issues...)
- 10:00 Coffee break
- 10:30 Meeting with City of Niš Transition Team 1
- TOMORROW Project in Niš so far (Prof. dr Goran Vučković, Transition Team leader & Bojan Gajić, TOMORROW coordinator)
  - Presentation of City of Niš:
    - Energy activities (Energy Manager Bojan Gajić)
    - District Heating activities (Predrag Milačić, District Heating Company)
    - Urban planning activities (Miljana Medarov-Vujaklija, Urban Planner Team)
    - Mobility activities (Nenad Mihajlović, Traffic department)
- 12:00 Coffee break
- 12:15 Meeting with City of Niš Transition Team 2
- Experiences from partner cities,
- 13:30 Lunch (paid from Transition Team meetings budget)
- 15:00 Meeting with City of Niš Transition Team 3
- Identifying key points onwards,
  - Discussion
- 17:00 End of the Project Meeting – free time
- Location: Niš; Restaurant (TBC)**
- 18:00 Dinner (pay your own)
- 19:30 Departure to Belgrade

## Report and main takeaways

### Tuesday 8 November – Welcome in NIS

- **Visit of the hydroelectric power-plant**

The delegation was received by technician from the National Electricity company to visit an hydro-power station.

The visit gave an opportunity to discuss electricity production in the region of Nis and discuss the potential for a green transition.

- **Meeting with representative of the first RES-community**

The delegation had an exchange with the President of the Building-Household-association involved in a pilot-project consisting in installing PV panels on the roof as a first RES community.

The discussion turned around the governance model put in place to develop and implement the project as well as the financing of the project. This project, to be finalised by end of 2022, would be a pilot project for promoting RES communities in Serbia.



## Wednesday 9 November – Discussion on Nis transition

- **Discussion on Nis's delivery for TOMORROW.**

Preparation of the mid-term plan, connected to the budget of the city of Nis, supposed to happen in the next 1,5 months.

Possible connection to the mobility plan being prepared with support from the World Bank.

A roadmap could be presented to the City Council.

- **Discussion on the Governance of the city of Nis**

- Assembly (around 60 elected people)
- Council with 10 councillors including the Mayor elected by the Assembly.
- 6 Administrations with each different departments reporting to the Council.
- Several public companies (e.g. waste, water, transport, ....)

## Wednesday 9 November – Meeting with Nis's transition team

- **Participants from Nis's administration and transition team**

Prof. dr Goran Vučković, Transition Team leader, Professor at the Nis University

Bojan Gajić, TOMORROW coordinator

Predrag Milačić, Director of District Heating Company

Nenad Mihajlović, Head of Traffic department

Ivan Palovic; Economic Department office of the city of Nis

Other members of the Team excused today: from the Energy Department, from the Urban Planning Department, from the waste-treatment company, a colleague from the Mayor's office in maternity leave, from international cooperation, from the Urban Institute,

- **State of play of activities implemented under TOMORROW**

[Slides](#) presented by Bojan Gajic.

### Overview

- Transition Team (6 meetings) and great interest by all members
- Work-plan of the TOMORROW delivery prepared and approved
- Energy Balance study of the city
- Energy poverty survey
- Facilitator appointed to perform engagement activities

### Transition Team activities

- Stakeholders analysis
- System analysis including X-curve
- Adoption of the work-plan + ToR for the Facilitator + Analysis of the Energy Poverty survey
- Analysis of the Energy Balance survey and economic case of decarbonisation
- Discussion of Low Carbon Strategy and roadmap implementation

### Energy Poverty situation

Analysis done before the crisis (40 to 50% of energy vulnerable households) will be largely exacerbated. DHC appears like the cheapest way to heat multiple-flat-buildings



### Energy policies on DHC – slides presented by Predrag Milačić, Director of District Heating Company

Objective to put in place “consumption based billing” (CBB), requiring:

- Local regulations in place
- Since Oct 2013, transition to CBB
- Heat energy cost consist of 1. Fixed per m<sup>2</sup> and 2. Variable per kWh received

### Energy and air quality situation, by Bojan (slides presented by Bojan)

Nis is one of the most polluted city of Serbia, thus of Europe.

Evidence based solutions to address those issues:

- retrofitting of public buildings,
- improvement of public lighting
- shutting down of public boilers based on coal or heavy-fuel-oil.
- Deployment of RES
- Support to citizens for retrofitting (e.g. up to 50% subsidies for EE or fossil boiler replacement)

### Mobility in Nis, by Nenad Mihajlović (slides presented by Nenad)

2 main problems:

- Railway is going through the city centre on the ground
- No ring-road so all traffic goes through centre

Solutions:

- Introduction of several zones to limit heavy traffic and parking duration
- 4 pedestrian streets



## Participants



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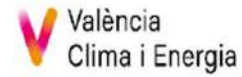


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