

15 June 2022

Using data to reduce Climate Change







Avec la participation de

RÉPUBLIQUE AGENCE FRANÇAISE NATIONALE Lànri DE LA COHÉSION Resilit DES TERRITOIRES



The session in a nutshell

What (specific activity)	When (length in minutes)	Who (which speaker)
Introduction to the theme of data and reducing Carbon – also a quick overview of ZCC, Urb en Pact and Vilawatt	10 minutes	lan
Metropole Rouen Normandie will explain how they use data to engage citizens and civil society especially helping them understand complicated global information such as the IPCC or working on concrete actions such us Earth hour to show the benefits	5 minutes	Agnès
Bistrita focus on a small scale example i.e. air quality data and how it is used to communicate with citizens then more strategic with their strategic Climate Budget	5 minutes	Iulia
Tampere bringing in the work that they did on their Carbon Budget using a different methodology	5 minutes	Silva
Q&A and interaction with participants to bring out key findings from the three presentations	10 minutes	lan
Villedecans – the transfer of key data from one city to 3 other cities at the European level	5 minutes	Sonia
Conclusion - Manchester having done a lot of work on Carbon budget in 2018 with data but then needing concrete projects to show what really needs to be done to achieve figures - so the need to link real projects with strategic projections	5 minutes	Sean
Q&A with participants with leading questions and discussion with key findings and conclusions on use of data and climate change	15	lan







VILAWATT UIA (URBAN INNOVATION ACTION) UTM (URBACT TRANSFER MECHANISM)



March 2021 – September 2022

<u>Sonia DOMINGUEZ</u> – Vilawatt UTM Project Coordinator, City of Viladecans







VILAWATT UIA (URBAN INNOVATION ACTION) UTM (URBACT TRANSFER MECHANISM)

Transferring the Vilawatt experience to 3 EU cities:

- Seraing Belgium
- Nagykanizsa Hungary
- Trikala Greece









VILAWATT UIA (URBAN INNOVATION ACTION)

UTM (URBACT TRANSFER MECHANISM)

OBJECTIVES AND RESULTS

Objectives:

To transfer Vilawatt UIA to 3 European cities **Results:**

Each city will have to develop an Investment Plan to define how they will transfer the Vilawatt locally. Viladecans will have to develop a Springboard Plan to adapt Vilawatt to new context.







Sean MORRIS - Manchester Climate Change Agency

Iulia-Ramona POPÂRȚAC - International relations officer at European Integration Department, Bistrita Municipality













What is the Zero Carbon Cities Project?

Zero Carbon Cities

URBACI

Driving change for

better cities

European Union







The Cities









What is a Carbon Budget

Zero Carbon Cities, an URBACT Action Planning Network, aims to help cities use "sciencebased" targets to make the transition to zero carbon.



A carbon budget is the total amount of CO2 that can be emitted over a specific period of time in order to be compliant with the 2015 Paris Agreement. By signing this Agreement, Governments have committed to keep the increase in global average temperature to well below 2°C and if possible below 1.5°C.

Carbon budgeting is one way of measuring how we do this.

🌐 urbact.eu/zero-carbon-cities 🄰 @zero_cities















<u>Silva VUOPPONEN</u> - Project Manager, EcoFellows Ltd., City of Tampere















NETWORK OBJECTIVES

BECOMING NET-ZERO ENERGY TERRITORIES BY 2050

- Reduce energy consumption and carbon emissions
- Increase local renewable energy production, and increase low carbon energy sources
- Balance energy production and consumption to achieve net zero energy territory status











EIGHT EUROPEAN PARTNERS

- Lead Partner Clermont Auvergne Métropole – France
- Bialystok Functional Area Poland
- Palma di Montechiaro Italy
- CIM Alto Minho Portugal
- Métropole Rouen Normandie France
- Galati Romania
- EcoFellows Tampere Finland
- Elefsina Greece











15 June 2022

Thank you for your attention!





FRANCE22 Présidence française du conseil de l'union turopéenne Avec la participation de

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15 June 2022 Agnès Grandou

Métropole Rouen Normandie





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Métropole Rouen Normandie

71 municipalities 500 000 inhabitants 250 000 employed 40 000 students















Local COP21 An innovative initiative to engage stakeholders











Reducing greenhouse gases emisions Everyone is concerned !











Local COP21 Engaging all stakeholders

Cities and administrations







Citizens





A process of territorial animation with a scientific base











Local group of experts – « IPCC »

15 local experts and scientists













Local group of experts – « IPCC » **10 topics**

- Climate ٠
- Water supply ٠
- Social psychology ٠

RBA

Driving change for

better cities

- Agriculture ٠
- Biodiversity ٠
- Air ٠

EUROPEAN UNION

Health ٠

- Town planning and ٠ architecture
- Mobility ٠
- Energy ٠
- Economy ٠





La ressource en eau et le risque inondation dans la Métropole Rouen Normandie :









21



Les forêts de la Métropole Rouen Normandie face au changement climatique





dans la Métropole Rouen Normandie



Représentations

climatique

et attitudes des populations locales vis-à-vis du changement

Les enjeux de santé publique dans un contexte de changement climatique à l'échelle de la Métropole Rouen Normandie









Local group of experts Results



Evolution of annual average atmospheric temperatures : medium and long term









Local group of experts Results

Horizon moyen 2041-2070 Horizon lointain 2071-2100 RCP 2.6 : de -2,9 à +3,3% ROP 2.6 : de -2,7 à +3,5% Steady Ecart / précipitations (valeur annuelle en %) -29 à +31 mm Stuation de référence -2,7 à +3,5% 1976-2005 : 859 mm -4 à 0 % -8 à -4 % -12 à -8 % -16 à -12 % ROP 8.5 : de -3,9 à +3,8% ROP 8.5 : de -4,1 à -15,2% Deficit 1050 à 1200 mm -33 à -163 mm 950 à 1050 mm 850 à 950 mm -4,1 à -15,2% 750 à 850 mm 650 à 750 mm 550 à 650 mm Données Drias les futurs du climat Réallisation O. Cantat, LETG, UNICAEN

Difference in cumulative annual precipitation : medium and long term









Local group of experts Results





Source: Rapport de la mission interministérielle "Changement climatique et extension des zones sensibles

Increased risk of flooding and of forest fire









Shocking datas From sensibilization to act



1 million plastic bottle sold every minut (world)

5g of plastic ingested per week (world)











Shocking datas From sensibilization to act











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Animation to action Earth hour

J'ÉTEINS LA LUMIÈRE JE M'ENGAGE POUR LA PLANÈTE !

SAMEDI 26 MARS 20H30



www.notrecop21.fr

f 🎔 #NotreEarthHour









Animation to action

Assessment process



Street and public buildings lighting off

	Number of municipalities	Definitive	Experimental	
2018	41	21	20	
2019	56	38	18	
2020	NC	NC	NC	
2020	NC	INC	INC.	
2021	59	50	9	
2022	59	50	9	









Assessment participatory process Assessment council



30 members working on :

- Targets/results
- Resilience
- Social effects of policies







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Agnès Grandou

Thank you for your attention!





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RÉPUBLIQUE AGENCE FRANÇAISE NATIONALE Lânri Relinit Relinit Relinit DE LA COHÉSION DES TERRITOIRES





15 June 2022 Iulia Popartac

Bistrita





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THE CIVITAS INITIATIVE IS CO-FINANCED BY THE EUROPEAN UNION





EUROPE

Covenant of Mayors for Climate & Energy













URBACT

CITY FESTIVAL 2022










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CITIZENS SCHOOLS AND UNIVERSITIES ECONOMIC AGENTS PUBLIC **AUTHORITIES TRANSPORTERS ENERGY PRODUCERS AND** DISTRIBUTORS





URBACT CITY FESTIVAL 2022



















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Evoluția co2 la nivelul lunilor din intervalul studiat











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Iulia Popartac

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Tampere





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RÉPUBLIQUE AGENCE FRANÇAISE NATIONALE Zonti Restiti Material DE LA COHÉSION DES TERRITOIRES



URBACT CITY FESTIVAL 2022





CITY OF TAMPERE

ASSITTE

2h

Frankfurt

TAMPERE



















TAMPERE.





Roadmap

RESULTS OF THE REVIEW OF KT2030 SCENARIO COMPARED TO CURRENT DEVELOPMENT:

Result

iable.

620 tCO,e

EUR -170 per tCO,e

Investments (EUR 1,000) Operating expenses (EUR

1.500

1,500

Average cost of emission

reduction

-170

EUR per CO2e

1.000)

-1.600

-1,600

KT2030 scenario

Cost impact in the

Measure 162

pereen Tilapalvelut Oy.

Total

programming period

Emissions reduction in 2030

Emissions reduction

in 2030

620

tCO₂e

Cost of emission reduction

SUSTAINABLE ENERGY тнеме 4

Measure package 4.4.	Giving up oil heating	Timetable in council terms	Responsibility
DESCRIPTION The city will give up oil heating and encourage oil heaters to switch to renew- able energy	161. Oil heating hubs in housing will be identified in order to encourage and guide the change in heating methods more effectively. An operating model will be established to support the change of heating system in detached homes using oil heating. Efforts will be made to make use of government sub- sidies.	2020-21 2021-25	Sustainable City, Ekokumppanit Oy, Building Control Department
	162. Oil heating will be given up in the city's own buildings by 2025. Efforts will be made to make use of government sub- sidies.	2020-21 2021-25	Real Estate and Energy Policy, Tampereen Tilapalvelut Oy
Emission reduction	••••		
Cost estimate	●●○○○		
Other benefits	Increased energy self-sufficiency New services and business models Decreased local emissions		

EXAMPLES AND IMPACT ASSESSMENTS

Estimated emissions and costs: Abandoning oil heating in city properties

DEVELOPMENT TRAJECTORIES TO BE REVIEWED:

Scenario	Definition
Business as usual	In city properties, oil heating will be replaced by water to air heat pumps, 5% per year.
KT2030 scenario	City properties will replace oil heating with water to air heat pump systems by 2025.





SUMMARY







We created the roadmap together with the city's service areas and units. We also need all residents, businesses and communities to be involved.



Why? BEST FOR YOU The target is based on, for example: the Tampere Strategy 2030, the Sustainable Tampere Climate change 2030 Guidelines, the Covenant of mitigation and

sustainable

development are vital

for a secure future.

Reduction of greenhouse gas emissions 80%. Carbon sinks or compensation

20%.

RESULT With the city's measures described in the roadmap, we can achieve an emission reduction of around 72% by 2030. The full impact of all measures cannot be assessed yet. The 72% carbon-neutrality goal can only be achieved through cooperation between the city, its residents, businesses and communities.

6 CARBON NEUTRAL TAMPERE 2030

Mayors for Climate and Energy,

and the UN 2030 Agenda for

Sustainable Development.







Climate budget

The climate budget combines climate work with the city's budget and financial statements

TAMPERE.

FINLAND











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The climate emissions budget



The financial plan for climate actions





URBACT ©ITY FESTIVAL 2022 Sustainable Tampere 2030 -roadmap emission forecast, May 2020



monitors the progress of the carbon neutrality target



information for decision makers





increases the weight of climate action in economic planning



transparency for local residents



Image: Visit Tampere / Laura Vanzo







TAMPERE.

FINL





6/13/22 7

requires a willingness on the part of budget drafters but also decision-makers important and new choices in the long run





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Image: Alexas Fotos/Pixabay





6/13/22



Oslo's climate budget has been the starting point

developed piece by piece and started very simply

The mayor stands firmly behind the climate budget



TAMPERE.

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Experts from the Climate and Environment Policy Unit compile the budget in cooperation with the financial department



City units are asked for information about the measures



Image: Business Tampere / Mirella Mellonmaa









Emissions budget





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Emission sector	2019	Annual need for change	2022	2023	2025	2030
Other heating	63300	-5400	53000	46000	33000	4000
Waste and waste water	76900	-5500	64000	62000	50000	16000
District heating	265000	-21500	190000	150000	105000	28000
Traffic	238200	-11200	184000	177000	158000	115000
Electric heating	23300	-1500	19000	17000	14000	7000
Agriculture	6500	-200	6000	6000	5000	4000
Other electricity consumption	110500	-6400	93000	86000	73000	40000
Industry electricity consumption	25700	-1700	20000	18000	13000	7000
Industry and work machines	104000	-5900	92000	86000	75000	39000
Sum	913400		721000	648000	526000	260000







11





Financial plan

















Operating economy

Investments









13.6.2022

TAMPERE.





Image: https://interactioninstitute.org/networks-for-change-collaboration-and-cooperation/



EUROPEAN UNION EUROPEAN UNION Destructione Total

Tips for

creating

climate

budget



6/13/22







6/13/22







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Thank you for your attention!



better cities



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15 June 2022 Sonia Dominguez Mendez

Viladecans





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THE VILAWATT UIA

1st UIA call - Innovative projects



04





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07

VILAWATT-UIA PROJECT OBJECTIVES

To create a Public-Private-Citizen structure, which manages 4 services for the improvement of governance and energy sovereignty:

ira a tus

- Renewable energy supply
- Integral energy retrofitting
- Creation of a local currency linked to energy savings
- Creation of training programs and learning spaces for the improvement of energy culture (empowerment of citizens on energy issues)





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THE PUBLIC-PRIVATE STRUCTURE: THE CO-GOVERNANCE FORMULA

noino

The Vilawatt Consortium

- Barcelona Metropolitan Area (15%)
- Viladecans City Council (65%)
- Associations 20%
 - Citizen Association for Energy Transition
 - Companies & businesses Association for energy transition



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VILAWATT







VILAWATT









RR Driving change for EUROPEAN UNION

06





Empowering people through energy transition

VILAWATT

2021

VILAWATT UIA – UTM (URBACT TRANSFER MECHANISM)

Seraing – Belgium

Nagykanizsa – Hungary

Trikala - Greece

better cities





2021

VILAWATT

OBJECTIVES AND RESULTS

Objectives:

To transfer Vilawatt UIA to 3 European cities Results:

Each city will have to develop an Investment Plan to define how they will transfer the Vilawatt locally. Viladecans will have to develop a Springboard Plan to adapt Vilawatt to new context.






HOW IS THE TRANSFER PLANNED?











THE SCORECARD

 Tool developed by Donal O'Herlihy, Vilawatt UTM expert, to help monitor the transfer process among partners. It is based on Vilawatt UIA project Deep Dive and desk review during the UNDERSTAND PHASE

VILAWATT

- It operates as a guide for self-appraisal that provides a **baseline** for partner cities' initial positioning and, during the transfer process, **progress monitoring** of the partner cities.
- The scorecard identifies a set of criteria that profiles the strength of each partner's "positions" with respect to adopting each of the Vilawatt pillars.

✓ It is composed of 5 tables, one for each pillar.









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THE SCORECARD – EXAMPLE TABLE LEARNING COMMUNITIES PILLAR

Each pillar has 6-8 criteria against which a city's positioning can be rated. There is detailed supporting documentation that describes the criteria and why they were selected – this encourages consistent scoring.

Learning Communities Scorecard											
	1	2	3	4	5	6	7	8	9	10	
We have no resources (money, people or time) to implement intensive communication campaigns, run workshops, develop and deliver games etc											We have the resources (money, people or time) to implement intensive communication campaigns, run workshops, develop and deliver games etc
We have no links to existing associations specialising in energy transition – or have no such organisations											We have strong links to existing associations specialising in energy transition – or have many such organisations
We have no ability to mobilise ANY of the 11 stakeholder groups listed above to enable them to participate											We have existing measures in place to mobilis ALL of the 11 stakeholder groups listed above to enable them to participate
Professional Bodies are not open to accrediting Continuous Professional Development from anyone else											Professional Bodies are very open to accrediting Continuous Professional Development from anyone else
For key stakeholders, we have no means to engage with them – they will not participate											For key stakeholders, we are engaged with them and they will participate
We have no way of identifying who within the key stakeholder groups might create an association or help them to do so											We have identified key people within the key stakeholder groups who will create an association and can help them to do so (legal support etc)











THE SCORECARD – HOW DOES IT WORK?

Partners are requested to score the questions at the template several times during the project:

- The partners scored themselves at the start of the project (May 2021), ٠
- During Transnational Meeting 4 (March 2022)
- And will complete a final assessment at the end of the project. ٠









VILAWATT

THE SCORECARD – PROGRESS

Learning Communities Scorecard											
	1	2	3	4	5	6	7	8	9	10	
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Example 1st score - May 2021







VILAWATT

2021

THE SCORECARD – PROGRESS

Learning Communities Scorecard											
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Example of 2nd score

Score May 2021 - Score in March 2022 Single en row = no change in position







VILAWATT

THE SCORECARD – CONCLUSIONS

- The Scorecard provides a baseline positioning for each Transfer Partner vis a vis work on technical elements and the practical know-how and knowledge required for adapting it.
- The Scorecard facilitates the discussion among project partners and among project partners and project experts on the transfer process.
- It allow partners to have a better understanding (quite visual) of their positioning in the transfer process.







Sonia Dominguez Mendez

Thank you for your attention!







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15 June 2022 Sean Morris

Using carbon data FOR CUTTING CO2 EMISSIONS – The Manchester experience



better citie



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MANCHESTER AND GREATER MANCHESTER

SECOND LARGEST CITY REGION ECONOMY IN UK MANCHESTER CITY COUNCIL AT THE HEART OF IT

MANCHESTER GVA £19.7 BILLION

22,360 BUSINESSES IN MANCHESTER







CLIMATE CHANGE PARTNERSHIP







BACKGROUND AND CONTEXT







Driving change for

better citie

European Unior



BACKGROUND









CARBON BUDGETS









FAIR SHARE (CARBON BUDGET) OF THE PIE FOR ALL...











WHAT WAS RECOMMENDED FOR MANCHESTER?

Recommended carbon budget for Manchester City (2018-2100) -**15 MtCO₂**

Average annual reduction rate - 13% UK carbon budget (2018-2100) - 1907 MtCO₂ + aviation &

NB: Recommended budget for Manchester City is the central value of the six apportionment regimes











DOMESTIC

34%

TRANSPORT

28%





NON - DOMESTIC

38%





RB

EUROPEAN UNION

Driving change for

better cities

MANCHESTER CLIMATE CHANGE PARTNERSHIP

- RESPONSIBLE FOR 20% OF MANCHESTER'S CARBON EMISSIONS
- HAVE AN INFLUENCE IN THE CITY OVER ENCOURAGING REDUCTION WITH THE OTHER 80% OF EMISSIONS







Our strategy towards making Manchester a thriving, zero carbon, climate resilient city.

MANCHESTER CLIMATE CHANGE FRAMEWORK 2020-25

Version 1.0 Fibrary 2020













OUR CO2 EMISSIONS

Manchester is responsible for three main types of CO₂ emissions:

- Direct CO₂ emissions
- Aviation CO₂ emissions
- Indirect / consumption-based CO₂ emissions





DIRECT EMSSIONS SUB-OBJECTIVE

Manchester's direct CO_2 emissions sub-objective: To emit a maximum of 15 million tonnes CO_2 from 2018 – 2100 Allocated around 5 year carbon budgets aiming at zero carbon target by 2038



Time Period	CO ₂ budget (MtCO ₂)
2018-22	6.93
2023-27	3.59
2028-32	1.95
2033-37	1.10
2038-42	0.64
2043-47	0.38
2048-2100	0.59
Total	15.17

Figure 4: Emissions projections consistent with the 15 MtCO₂ budget – starting from common year (2017)

Table 2: Manchester's 15 MtCO₂ budget by time period









STAYING ON BUDGET







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FRAMEWORK 2 – SCALING UP ACTION TO MEET TARGETS



Commercial buildings & facilities: 11.8% Institutional buildings & facilities: 4.4% Industrial buildings & facilities: 18.8% Fugitive emissions: 3.1% On-road transport 22% Diesel rail transport: 0.3%

- Waterborne navigation: 1.5%
- Off-road transport: 0.2%
- Solid waste disposal: 1.9%
- Wastewater: 1.3%
- Industrial process: 9.0%
- Livestock: 0.1%
- Land use: -0.1%

1. ANTHESIS SCATTER DATA IS SHOWING MANCHESTER IS NOT KEEPING TO ITS CARBON TARGETS 2. THE CITY NEEDS TO URGENTLY UPSCALE ACTION TO PUT IT BACK ON TRACK







SHOWING THE SCALE OF CLIMATE ACTION









THE 4 AREAS OF SCALED-UP CLIMATE ACTION



BOTTOM-UP: ENGAGING AND MOBILISING STAKEHOLDERS

TOP-DOWN: REMOVING BARRIERS













FURTHER INFORMATION

MANCHESTER CLIMATE CHANGE AGENCY

MANCHESTER CLIMATE CHANGE FRAMEWORK 2020-25 www.manchesterclimate.com/framework-2020-25

CONTACT MCCA: sean.morris@manchesterclimate.com





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