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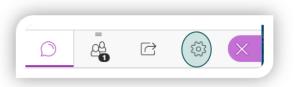


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This project received funding for the European Union's Horizon 2020 research and innovation programme under grant No. 689289.

Webinar 3 - Lessons from putting citizens at the centre for air pollution and carbon emission reductions in cities

Lucia Bernal Saukkonen (DG Environment, European Commission)

Stephan Slingerland and Irati Artola (Trinomics, The Netherlands)

Enda Hayes (UWE Bristol, UK), Andrew Edwards (Bristol City Council, UK)

Moderator: Hans Bolscher (Trinomics, The Netherlands)



Citizens at the Centre



Overview

- 1. EU context, Lucia Bernal Saukkonen − 15'
- 2. Questions 10'
- 3. Introduction to the ClairCity project, Enda Hayes 5'
- 4. Lessons for policy making Irati Artola and Stephan Slingerland 25'
- 5. Impacts of ClairCity on Bristol Andrew Edwards 10'
- 6. Questions 15'





EU Clean Air Policy

- update -

25 June 2020

European Commission Clean Air

Content

- EU clean air policy framework
- Ambient Air Quality (AAQ) Directives
- European Green Deal and future activities
- National Emission reduction Commitments (NEC) Directive
- Air quality and climate change



EU clean air policy framework



SETTING OBJECTIVES FOR GOOD AIR QUALITY

Ambient Air Quality (AAQ) Directives

Maximum concentrations of air polluting substances $(PM_{10}, PM_{2.5}, SO_2, NO_2, O_3 + 8 more)$

REDUCING EMISSIONS OF POLLUTANTS



National Emission reduction Commitments **Directive**

National emission totals $(SO_2, NO_x, VOC, PM_{2.5}, NH_3)$













EU-28 reduction targets btw. 2005 and 2030

Source-specific emission standards

- IED Directive
- MCP Directive
- Eco-design Directive
- Energy efficiency
- Euro and fuel standards





Fitness Check of the AAQ Directives

Scope: Evidence-based, retrospective analysis of whether EU actions are fit for

purpose; identify regulatory burdens, overlaps, gaps, inconsistencies

Evidence: - Literature review with more than 600 sources of evidence;

- Analysis of reported data as reported over the **period 2008 to 2018**;
- An open public consultation generated 489 responses;
- Replies to a targeted questionnaire from 43 stakeholders;
- Two stakeholder workshops (June 2018; January 2019);
- Seven case studies (in BG, DE, ES, IE, IT, SE, SK);
- Bespoke modelling and computations (analysis of costs and benefits);
- Desk review of **EU and national legislation**, as relevant.

Criteria: Relevance, Effectiveness, Efficiency, Coherence, EU Value Added



Four key conclusions



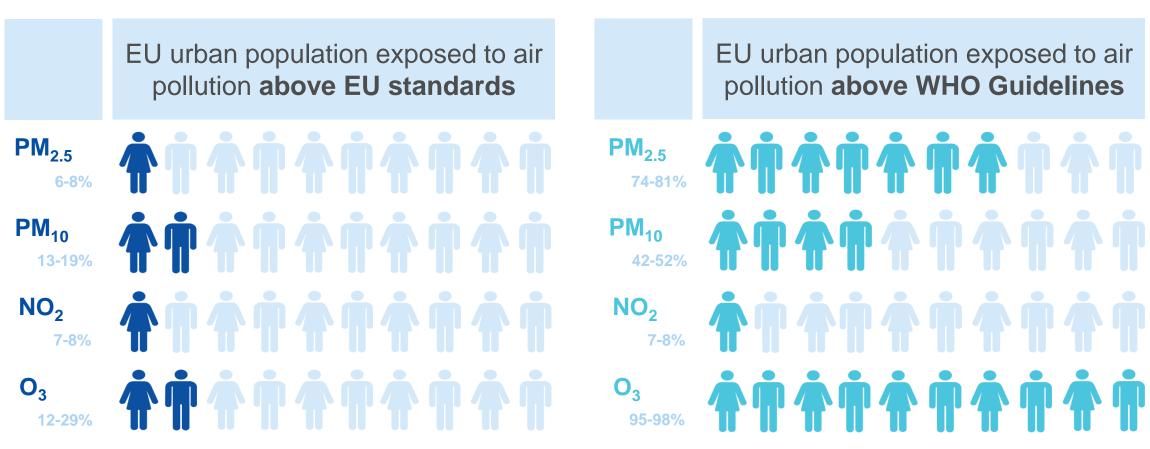
The AAQ Directives are *broadly fit for purpose* (with scope for improvements). In particular:

- The **monitoring network** benefits from continuous investment to ensure it is well maintained; additional guidance would be useful to address ambiguities.
- EU air quality standards have been instrumental in reducing concentrations and exceedance levels albeit subject to, at times considerable, delays.
- Reliable and comparable information is available, but with further scope to make use of e-Reporting possibilities, including an acceleration of reporting.
- The clear requirement to take remedial action when and where exceedances are observed has been decisive in triggering improvement in air quality.



Air pollution remains a health challenge



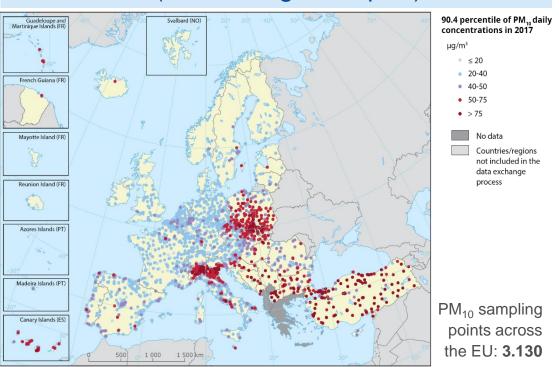




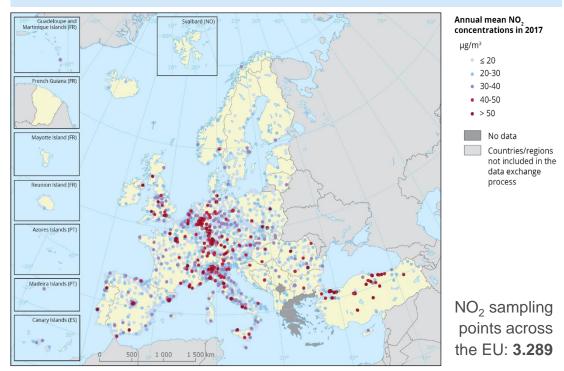
Air quality exceedances persist



PM₁₀ exceedances are often linked to fuel combustion (i.e. heating, transport)



NO₂ exceedances are often linked to traffic, in more than 130 cities in EU.





Seven key lessons learnt



- Air quality remains a major health and environmental concern;
- Air quality standards have been instrumental, and partially effective, to reduce pollution;
- Current EU standards are less ambitious than scientific advice;
- Limit values have been more effective than other types of air standards;
- Legal enforcement action by European Commission, and civil society, works
 (the effectiveness of the latter being linked to the functioning of
 access to justice at national level and the dynamism of NGOs);
- Scope to further harmonise monitoring, modelling, and air quality plans;
- Not all reported data equally useful, e-reporting allows for further efficiency.





The Commission will draw on the lessons learnt from the evaluation of the current air quality legislation.

It will also propose to strengthen provisions on monitoring, modelling and air quality plans to help local authorities achieve cleaner air.

The Commission will notably propose to revise air quality standards to align them more closely with the World Health Organization recommendations.

#EUGreenDeal

Communication on the European Green Deal (COM/2019/640 final)



Monitoring, modelling, air quality plans



Stakeholders, and especially local and regional authorities pointed to a **need to further improve guidance** on air quality monitoring, modelling and plans.

Issues that have been raised during the fitness check include (examples):

- number and type of sampling points
- micro- and macro-scale siting
- data quality objectives
- continuity of measurements
- role of modelling in air quality assessment
- quality and harmonisation of modelling
- complementary air quality assessment methods

- scope of and requirements for low-cost sensors
- Indicative measurements and objective estimation
- minimum elements required for air quality plans
- coordination between different levels of governance
- cost and benefits of measures
- access to air quality data
- •



Other immediate priorities



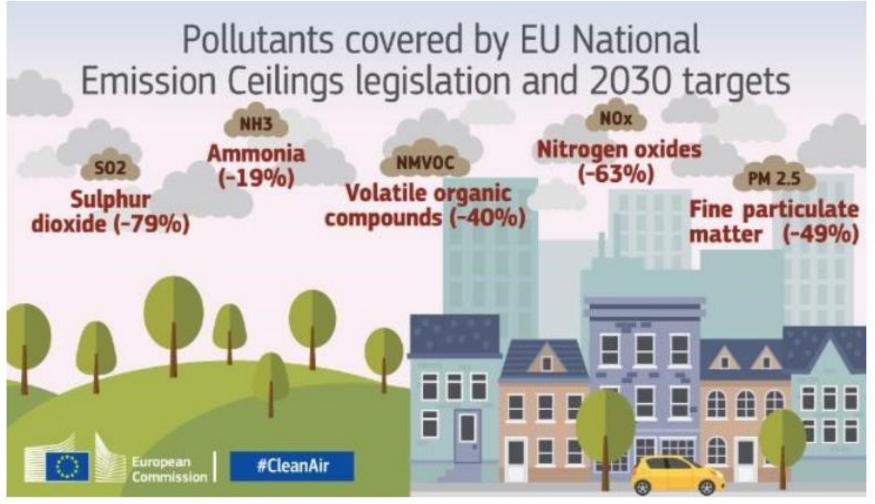
Exceedances gap persists – continued push towards full implementation of existing clean air legislation (see also COM (2018) 330 'Cleaner Air for All').

Continued enforcement action: currently, 31 cases addressing 17 Member States (+ UK) as relates PM₁₀, NO₂, and SO₂ exceedances, as well as monitoring gaps

EU funding for clean air: specific allocations for air quality of EUR 2 billion (2014-2020) plus substantial indirect contributions, under cohesion policy (related to energy, transport, ...) plus LIFE projects, Horizon 2020, EFSI funding, Urban Innovation Actions, ... plus funds allocated in the Recovery Plan for Europe, including Next Generation EU, have scope to improve air quality further, ...

Implementation support: bringing together Member States, regions and cities, incl. Environmental Implementation Review, Clean Air Dialogues, Clean Air Forum

National Emission reduction Commitments (NEC)





Forthcoming NEC Directive related reports

NEC implementation report where the Commission analyses MS obligations, in particular:

- Achievement of the Emission Reduction Commitments
- National Air Pollution Control Program: key governance tool where MS explain how they will reach their Emission Reduction Commitments
- Monitoring of ecosystem impacts of air pollution
- Review of emission inventories and projection

Q4 2020 - **Second Clean Air Outlook**: modelling results analysing how NEC commitments can be best reached, at lowest costs, maximing synergies with climate measures.



Air and Climate policies

- Closely linked: synergies (e.g. buildings renovation, electric vehicles) but also risk of tradeoffs (e.g. bioenergy in domestic heating)
- Linked via legislation: cross-references in Energy Union Governance legislation and in NEC Directive, to use inputs from each other
- Commission recommendations on draft National Energy and Climate Plans (NECP)
 >> recommendation related to the lack of analysis of air impacts for 26 Member States
- Links made in COM analysis of NAPCP and NECP
- Taking air co-benefits into account in climate policy reduces the social costs of the measures needed.



Thank you

env-air@ec.europa.eu



Q&A

Presentations and the recording will be made available after the Webinar

ClairCity is committed to the principles of Open Access. All relevant data and methodologies will be available in the coming week on our ClairCity community page on Zenodo.





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Introducing ClairCity

Enda Hayes, University of the West of England (UWE-Bristol), UK



Citizens at the Centre



Citizen-led air pollution reduction in cities

Everyday, air pollution and carbon emissions are produced by our daily practices, activities and behaviours.

Understanding how we live and the societal factors that influence our daily behaviour is key to improving air quality, reducing carbon emissions and improving public health.





The ClairCity concept...

Where and what?



Who and why?



ClairCity



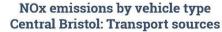


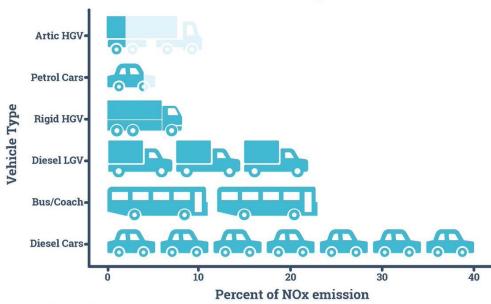






Unfortunately I use my car!

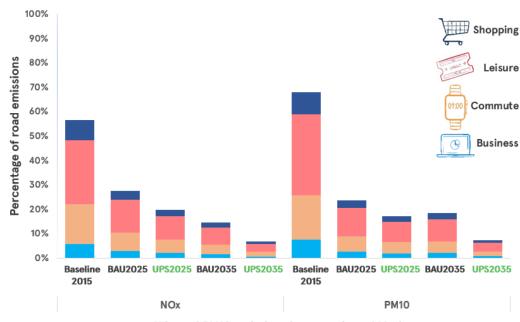




Data from Bristol City Council Cabinet Agenda, 15 Aug 2017, page 105.

Available from https://democracy.bristol.gov.uk/documents/q2557/Public%20reports%20pack%2015th-Aug-2017%2016.00%20Cabinet.pdf?T=10

Road transport NOx and PM10 emissions scenarios by motive



NOx and PM10 emissions by scenario and Motive

BAU = Business as usual UPS = unified policy scenario

"Heavy loads, steep hills, small children, tired – I just want to get home!"

"I simply don't see accessibility and cost of public transport ever being better"

"I need flexibility to go where I want, when I want" "I need to pick my kids up and work part time so don't have the time to cycle or take the bus" Source: ClairCity Project



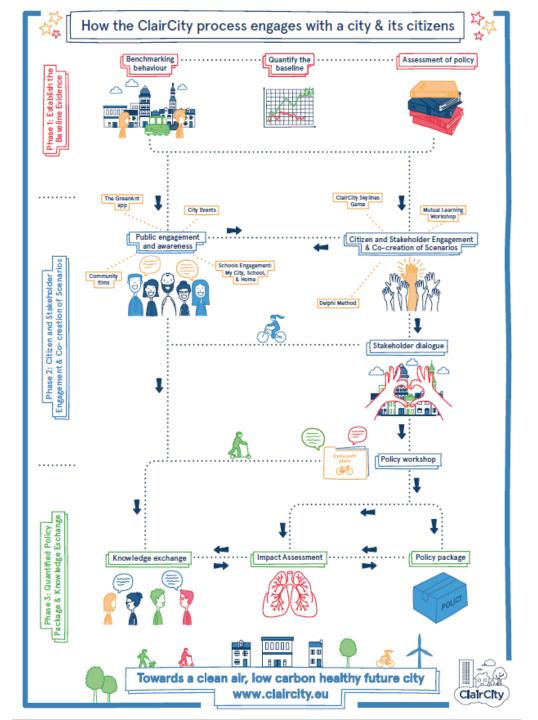
Project Aim & Objectives

The ClairCity aim was to create a major shift in public understanding towards the causes of poor air quality, inviting citizens to give their opinions on air pollution and carbon reduction to shape the cities of the future.

- 1. To put citizens' behaviour and activities at the heart of air quality and carbon management and policy making;
- 2. To develop a suite of innovative toolkits for enhanced quantification, engagement and impact evaluation;
- 3. To explore the integration of citizens behaviour in relevant city policies and ensure that future city policies are reflective of citizens visions for their future city; and
- 4. To raise awareness of environmental challenges and their solutions through proactive dissemination of the project outcomes.





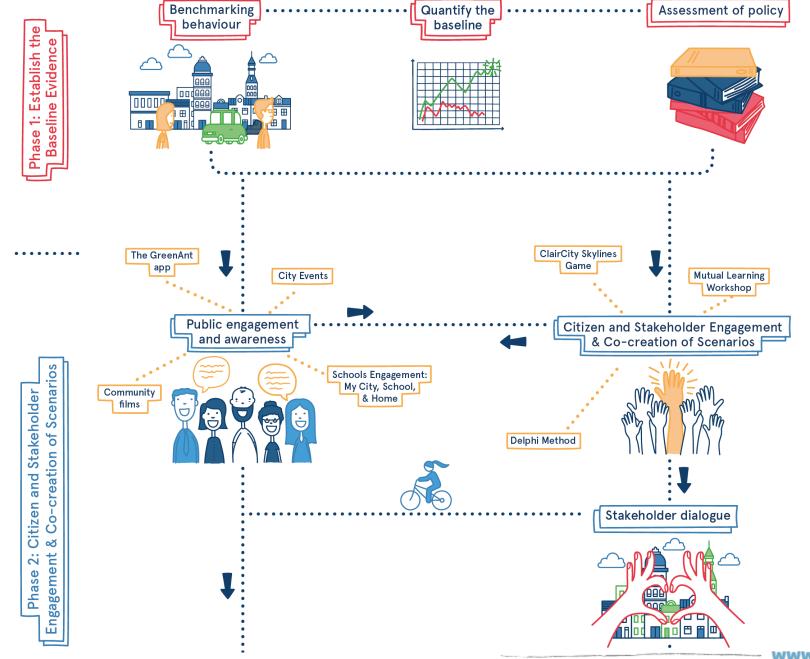


The ClairCity process...





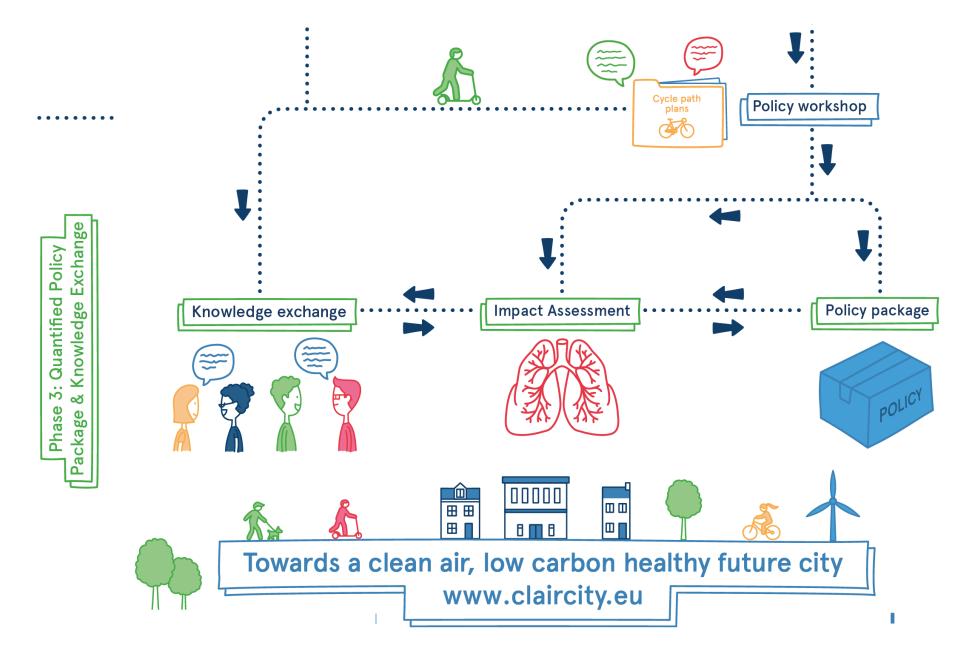


















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Lessons for policy making

Irati Artola & Stephan Slingerland, Trinomics



Citizens at the Centre









Six steps

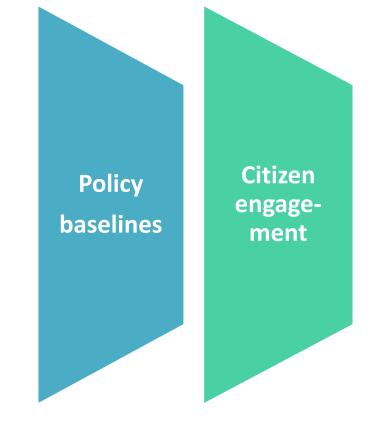


Six steps

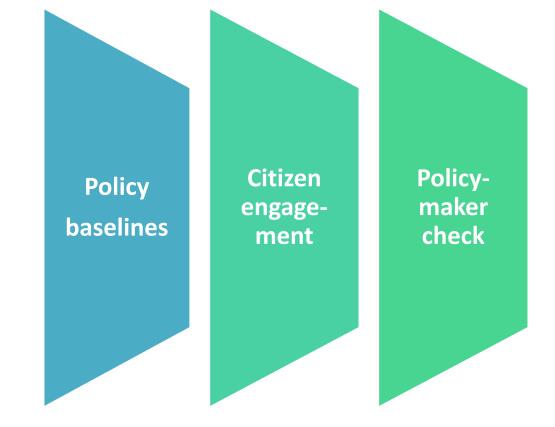
Policy baselines



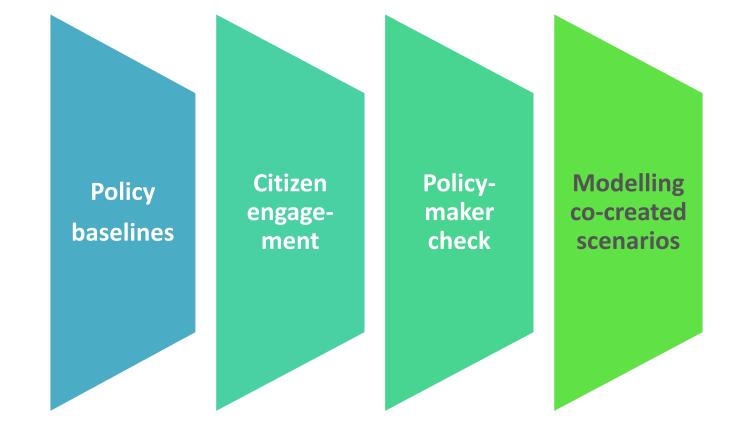
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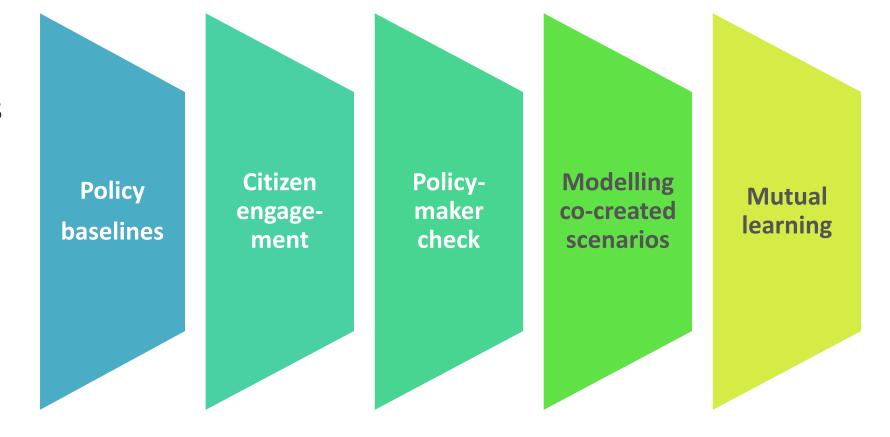
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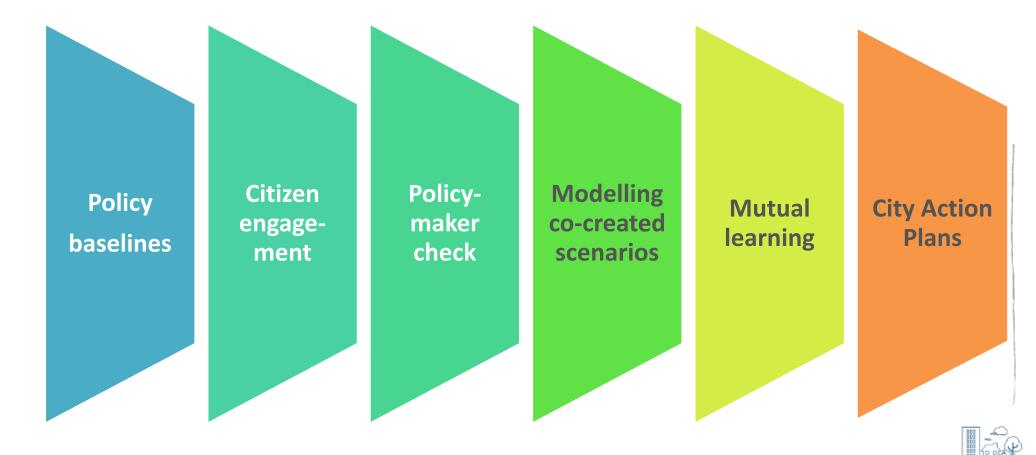
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Six steps

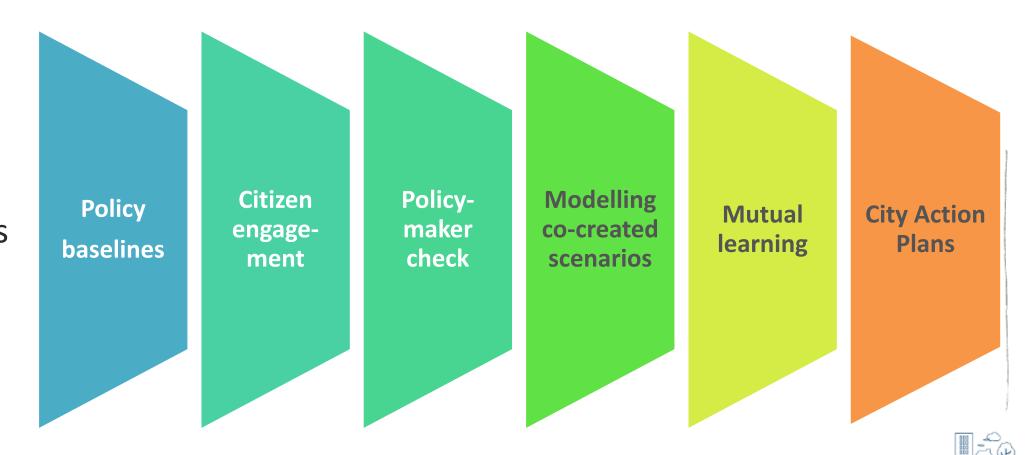


• Six steps



ClairCity: innovative city air quality and carbon policies with citizens

- Six steps
- Several innovations



Main outputs

- 20 reports: Baselines, Workshops, Policy Packages, Action Plans
- 77 interviews in 6 cities with policy makers and stakeholders
- 82 policy makers involved in policy workshops

For full reports: www.claircity.eu/reports





ClairCity: A new method for policy cocreation and citizen-inclusive policy making

Policy baseline analysis

- Air quality and climate situation
- Citizen engagement
- Policies

Citizen Policy-ma check

Quantified impacts of citizens' policies

Mutual learning Policy Recommen dations & City Action Plan







 All case study cities have 'green ambitions'



- All case study cities have 'green ambitions'
- Cities have the power to go beyond national requirements





Each city is different, basic policy frameworks are the same





ClairCity: A new method for policy cocreation and citizen-inclusive policy making

Policy baseline analysis

Citizen engagement

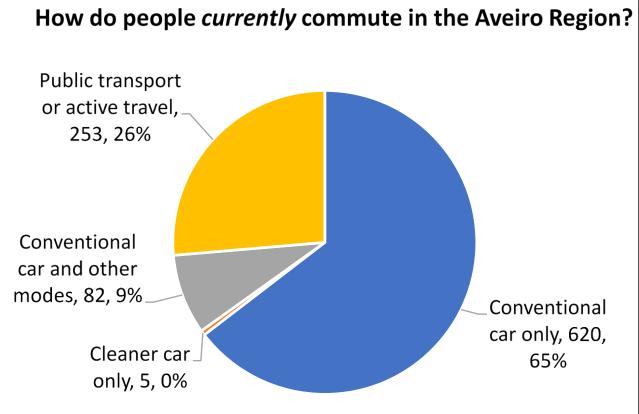
- Present & future behaviours
- Preferred policies

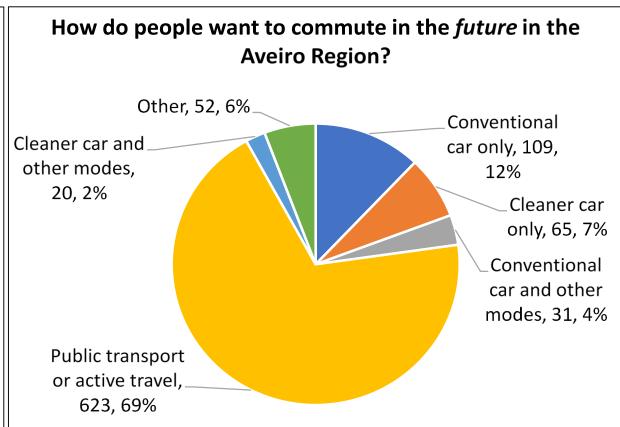
Policymaker check Quantifie d impacts of citizens' policies

Mutual learning Recomm endations & City Action



Engagement: Current vs future behaviour (transport, commuting)







Citizens' current behaviours and intended changes for the future (transport, commuting)

"The prices of public transport are high. It's cheaper to travel by car than to buy a bus pass"

"Due to lack of time I prefer to go by car"

"There is no public transport to my workplace"

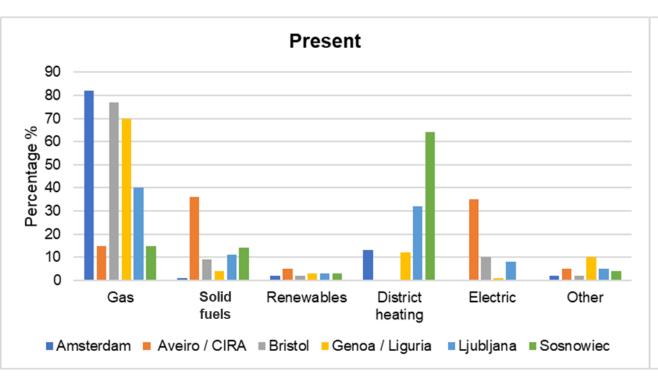
"Work is about 5 km from my house and there is no adequate public transport"

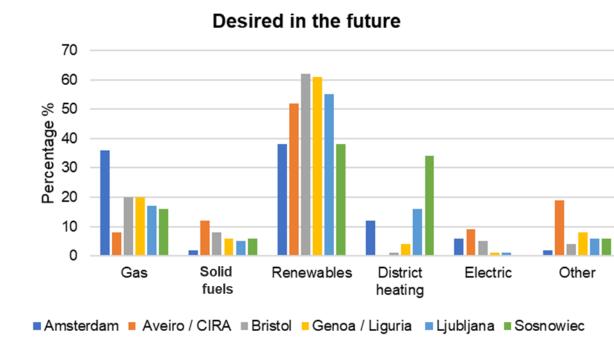
"Public transport is lacking, there are no connections or schedules compatible with my needs"





Engagement: Current vs future behaviour (heating)







Engagement: Current vs future behaviour (heating)

Present Desired in the future

There can be a mismatch between citizens wishes and policy makers' priorities

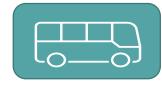


Policy preferences of citizens – the measures that citizens want

Better public transport

Cheaper public transport

Cleaner buses / replacement of old fleet



Limit parking for cars

Encouraging e-mobility

Car-free city centres / banning diesel cars



More cycling infrastructure and parking

More space for pedestrians / walking



Accelerate the uptake of solar panels

Replace domestic heating systems





Policy preferences of citizens – the measures that citizens want

Citizens do not necessarily come up with innovative policies, but want faster and more ambitious implementation of existing policies

Accelerate the uptake of solar panels

Replace domestic heating systems



ClairCity: A new method for policy cocreation and citizen-inclusive policy making

Policy baseline analysis

Citizen engageme

Policy-maker check

Policy Workshops

Quantified impacts of citizens' policies

Mutual learning Policy Recommendations & City Action Plan

















 Some cities restrict ambitions of citizens more than others













- Some cities restrict ambitions of citizens more than others
- Costs important to policy makers













- Some cities restrict ambitions of citizens more than others
- than othersCosts important to policy makers
- Change in behaviour of citizens is difficult













- Some cities restrict ambitions of citizens more than others
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- Discouragement of private car use remains a sensitive issue













- Some cities restrict ambitions of citizens more than others
- Costs important to policy makers
- Change in behaviour of citizens is difficult
- Discouragement of private car use remains a sensitive issue
- Output:

Co-created scenario =

Citizen measures + Policymakers check

















The Policy Workshops led to a co-created scenario that is both realistic as well as ambitious

use remains a sensitive issue

• Output:

Unified Policy Scenario (UPS) =

Citizen measures + Policymakers check



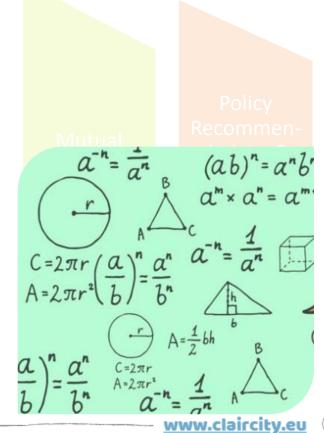


ClairCity: A new method for policy cocreation and citizen-inclusive policy making

Policy baseline analysis Citizen engagement

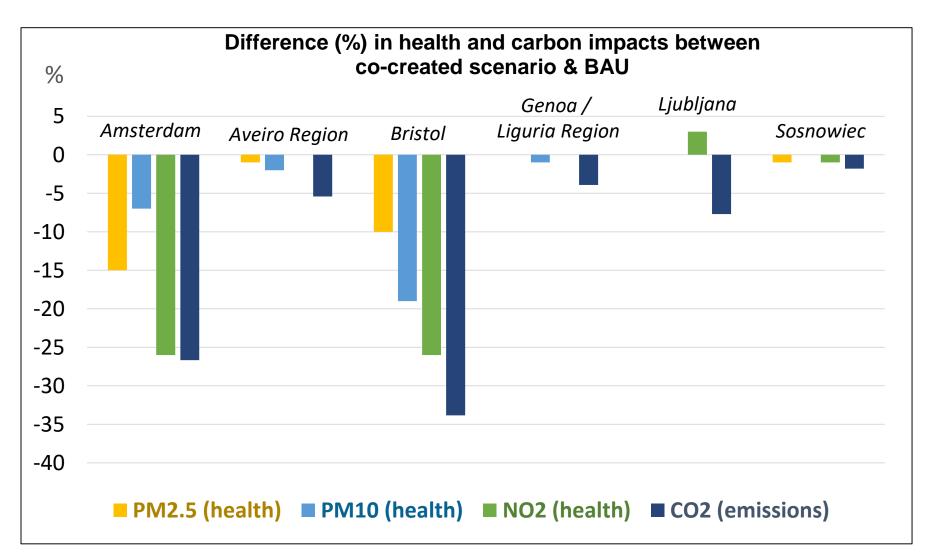
Policy-maker check Quantification of impacts of co-created scenario against BAU

- Emissions
- Concentrations
- Health
- Costs





Main impacts of co-created scenarios





Main impacts of co-created scenarios

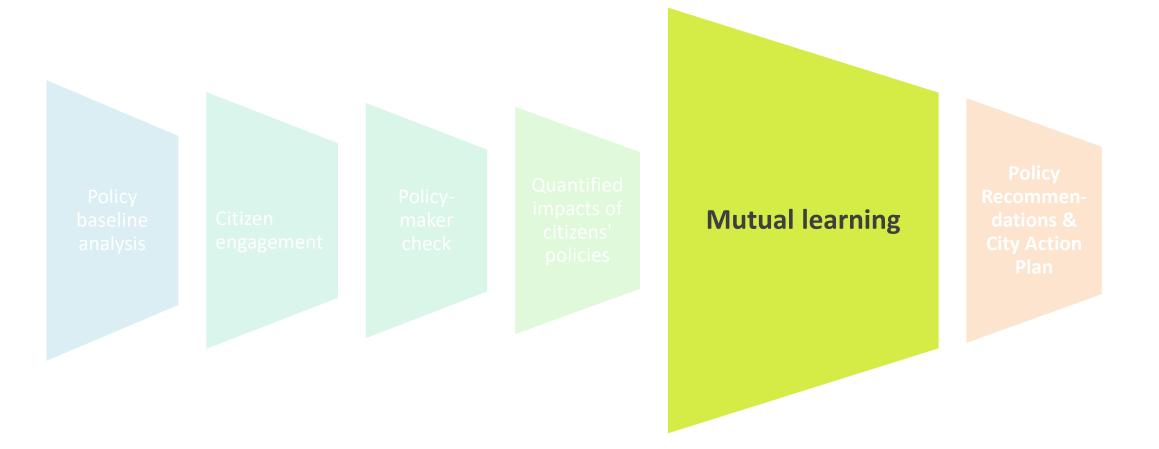


Citizens ambitions can increase the health & climate impacts of co-created scenarios



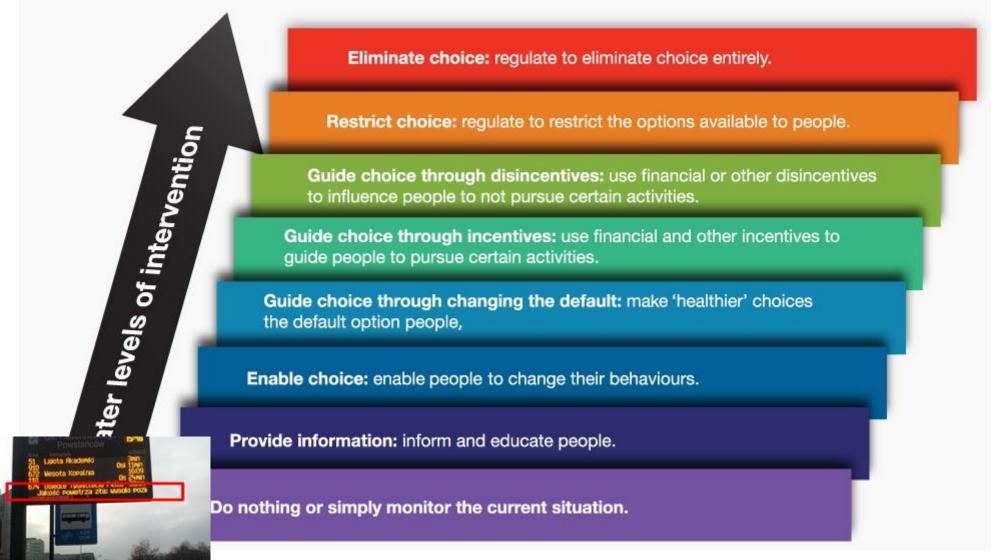


ClairCity: A new method for policy cocreation and citizen-inclusive policy making













Restrict choice: regulate to restrict the options available to people.

Guide choice through disincentives: use financial or other disincentives to influence people to not pursue certain activities.

Guide choice through incentives: use financial and other incentives to guide people to pursue certain activities.

Guide choice through changing the default: make 'healthier' choices the default option people,

Enable choice: enable people to change their behaviours.

Provide information: inform and educate people.

ter levels of intervention





Eliminate choice: regulate to eliminate choice entirely.

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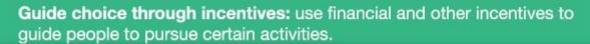




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ClairCity: A new method for policy cocreation and citizen-inclusive policy making

Policy baseline analysis

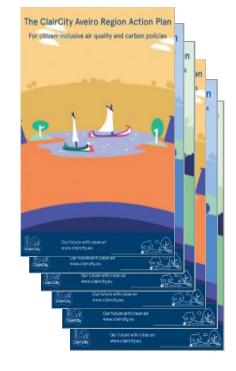
Citizen engagement Policymaker check Quantified impacts of citizens' policies

Mutual learnin g

Policy Recommendations & City
Action Plan

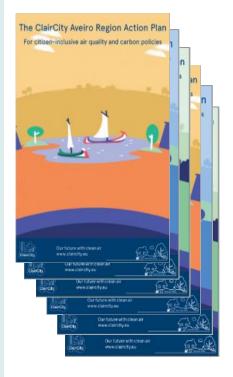


Main lessons for other cities The ClairCity method helps to



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1. Improve policy design: Tailor policies to specific behavioural practices and identify barriers and enabling factors for change





Main lessons for other cities The ClairCity method helps to

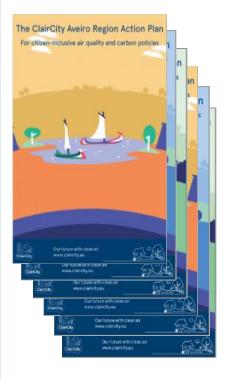
- 1. Improve policy design: Tailor policies to specific behavioural practices and identify barriers and enabling factors for change
- 2. Foster dialogue with citizens: Identify gaps between planned policies and citizens' willingness to change behaviours





Main lessons for other cities The ClairCity method helps to

- 1. Improve policy design: Tailor policies to specific behavioural practices and identify barriers and enabling factors for change
- 2. Foster dialogue with citizens: Identify gaps between planned policies and citizens' willingness to change behaviours
- 3. Create supported and implementable policies: Provide ideas and a reality check for ambitious policy making







ClairCity contributes to successful and ambitious air quality and carbon policy making in cities together with citizens



Resources





www.claircity.eu/take-action/policy-makers/



Thank you for your attention



For full reports:

http://www.claircity.eu/reports/

Citizens at the Centre



Impacts of ClairCity on Bristol

Andy Edwards, Bristol City Council





Citizens at the Centre



Engagement and Understanding

Interesting and innovative engagement methodology

 Public, policy makers and city leaders







WHAT IS AIR POLLUTION AND

HOW DOES IT AFFECT US?

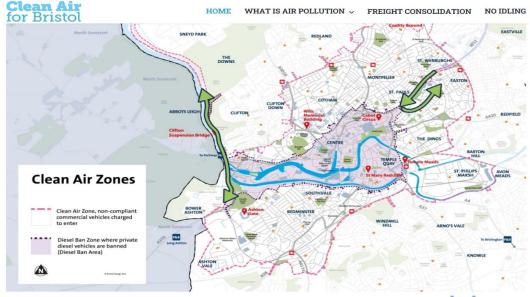


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Influence of the Project

- Brings together citizen led policy ideas with policy makers, politicians and city leaders
- Links pollution and carbon emissions to behavior
- Supports policy development policy package, press releases







Thank you for your attention

Andy Edwards - Bristol City Council



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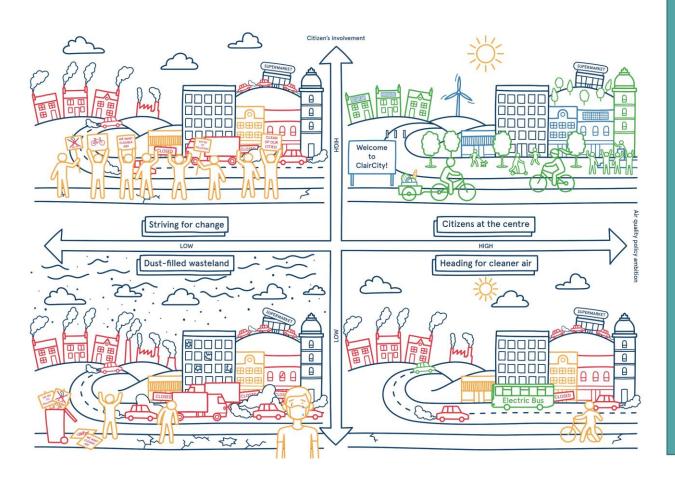
Q&A

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What future do you want to help create?



Before you go:

Sign up to our <u>upcoming webinar</u>

16th July: community activation on clean air and climate change *Search 'ClairCity' on Eventbrite

Check your inbox: we will email all <u>resources</u> discussed in due course.

Follow us on social @ClairCity

We will announce our E-learning resources, developed from these webinars, on there soon.





This project received funding for the European Union's Horizon 2020 research and innovation programme under grant No. 689289.





OUR PARTNER CITIES AND REGIONS REPRESENT VARIETY.

ClairCity

- Trinomics B.V. (Project Coordinator Netherlands)
- University of the West of England, Bristol (Technical Lead UK)
- PBL Netherlands Environmental Assessment Agency (NL)
- 4. Statistics Netherlands CBS (Netherlands)
- 5. Technical University of Denmark (Denmark)
- 6. Norwegian Institute for Air Research (Norway)
- REC Regional Environmental Centre (Hungary)
- 8. TECHNE Consulting (Italy)
- 9. Transport & Mobility Leuven (Belgium)
- 10. University of Aveiro (Portugal)
- 11. Municipality of Amsterdam (Netherlands)
- 12. Bristol City Council (UK)
- 13. Intermunicipal Community of Aveiro Region (Portugal)
- 14. Liguria Region (Italy)
- 15. Municipality of Ljubljana (Slovenia)
- 16. Sosnowiec City Council (Poland)



