

Europear

Commission

Enhancing citizens trust through citizen-driven air quality experiments and collaborative policy making: the COMPAIR project

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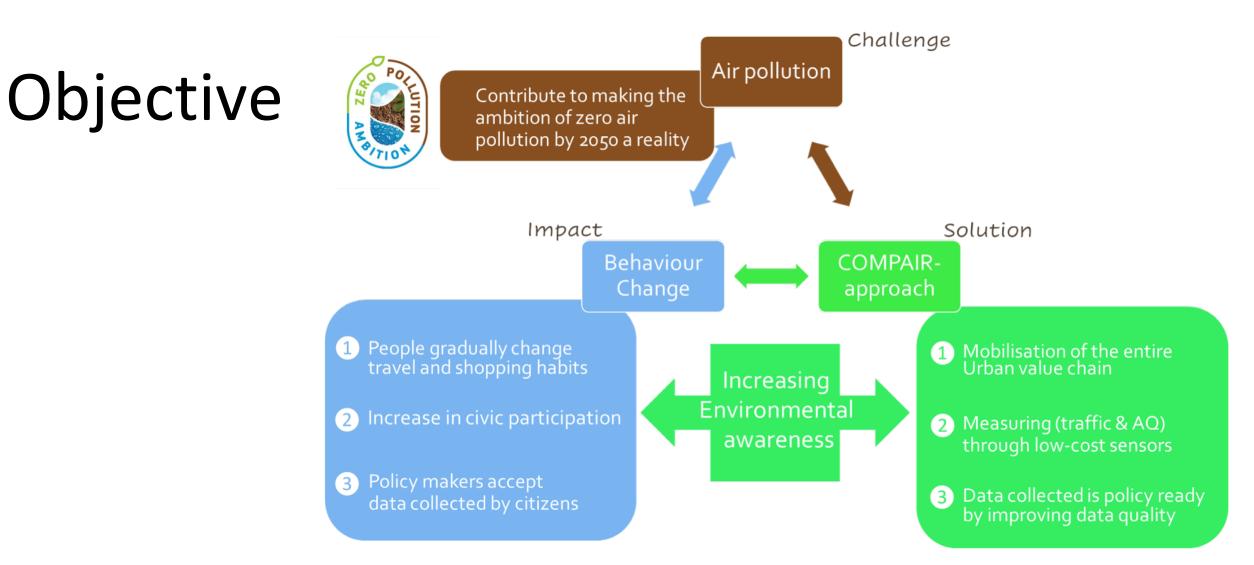
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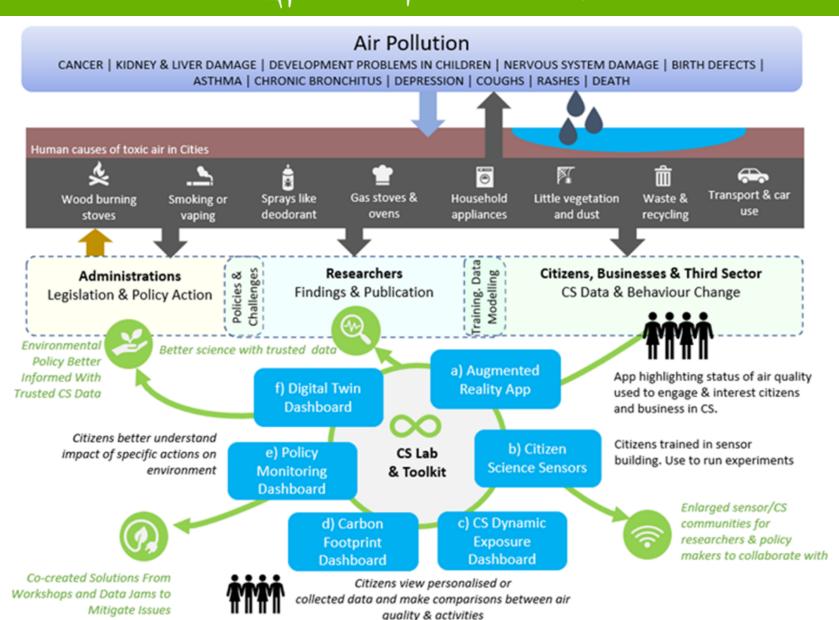


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COMPAIR raises the value of CS outputs by using tech to empower all participants in the policy value chain

- Increasing representativeness in participation through trusted relationships and evidence of local problems using Augmented Reality apps
- Bolstering skills and science capacity through easy-to-use, low-cost, exciting sensors, tools and data visualizations.
- Increasing trust in CS by professionalising approaches to produce policy ready data that can be used by existing policy platforms e.g. Digital Twins



To ensure both public and policy impact, COMPAIR enhances the value of sensor data in 3 ways...

- Improving publication and availability by aligning data models with existing international and EU data and metadata standards
- Raising data quality by utilising expert calibration algorithms for automated quality assessment and validation to enhance accuracy of IoT sensors
- 1. Broaden flexibility of APIs for more tailored policy use, e.g. changing hourly results to a near real-time window for more operational decision making.

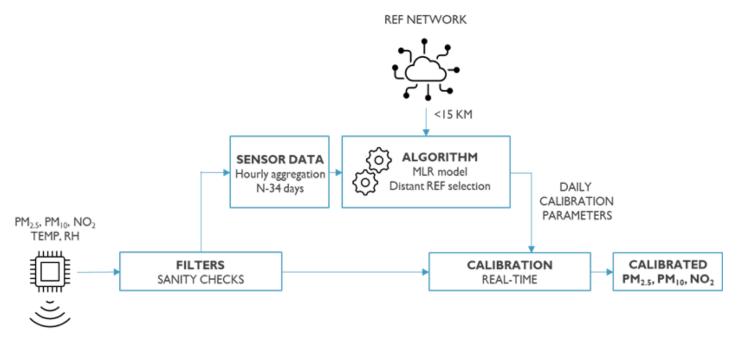
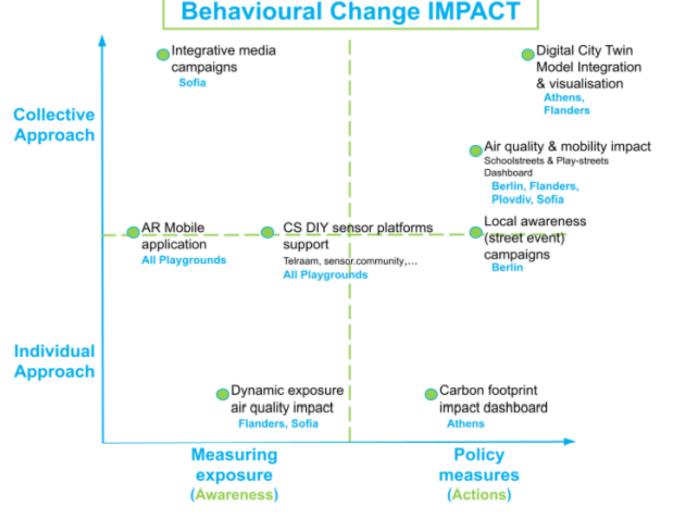


Fig: COMPAIR Calibration Schema

Together, the different pilot approaches help determine best tools to stimulate behavioural change

- Central theme for all COMPAIR experiments is the impact on air quality
- Impact can be direct (impacting behavioural change) or can be indirect via awarenessraising (showing local air quality exposure).
- Approaches can be collective (e.g., AR app showing current neighbourhood air quality) or personal (e.g., dashboard showing only your own air pollution exposure).
- COMPAIR pilot activities cover both squares of the quadrant, so evaluation can determine which type of CS activities have the most success and provide future CS recommendations



Pilots



SOFIA & PLOVDIV

Creating awareness of commuting impact through visual dashboards. Making school streets safer and championing sustainable behaviours of young people.

www.WeCOMPAIR.com



...and validates approach with use cases in 4 countries



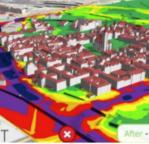


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Helping citizens navigate the city avoiding dynamic exposure to high pollution routes through the use of wearable air quality sensors. Using teleraam sensors to create safe school streets.

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CITIZEN SCIENCE USE CASE FOR

Creating a greener city by measuring and understanding the environmental impact of everyday habits e.g. wood burning, smoking, recycling and



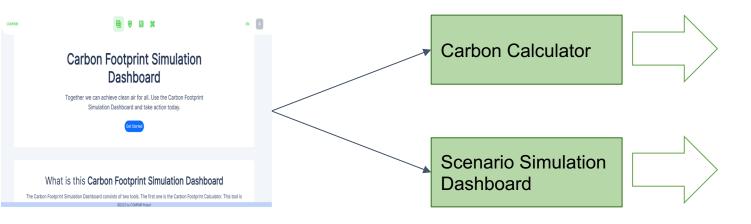


CITIZEN SCIENCE USE CASE FOR

Making school streets safer and of young people.

www.WeCOMPAIR.com





- Help citizens understand how they affect their carbon footprint through their daily activities
- Recommendations on how they can reduce their carbon footprint
- Allow citizens to participate in policy making
- Actions they are willing to make, as well as actions they are willing to accept from the government



Thank you for your attention!!



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