

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



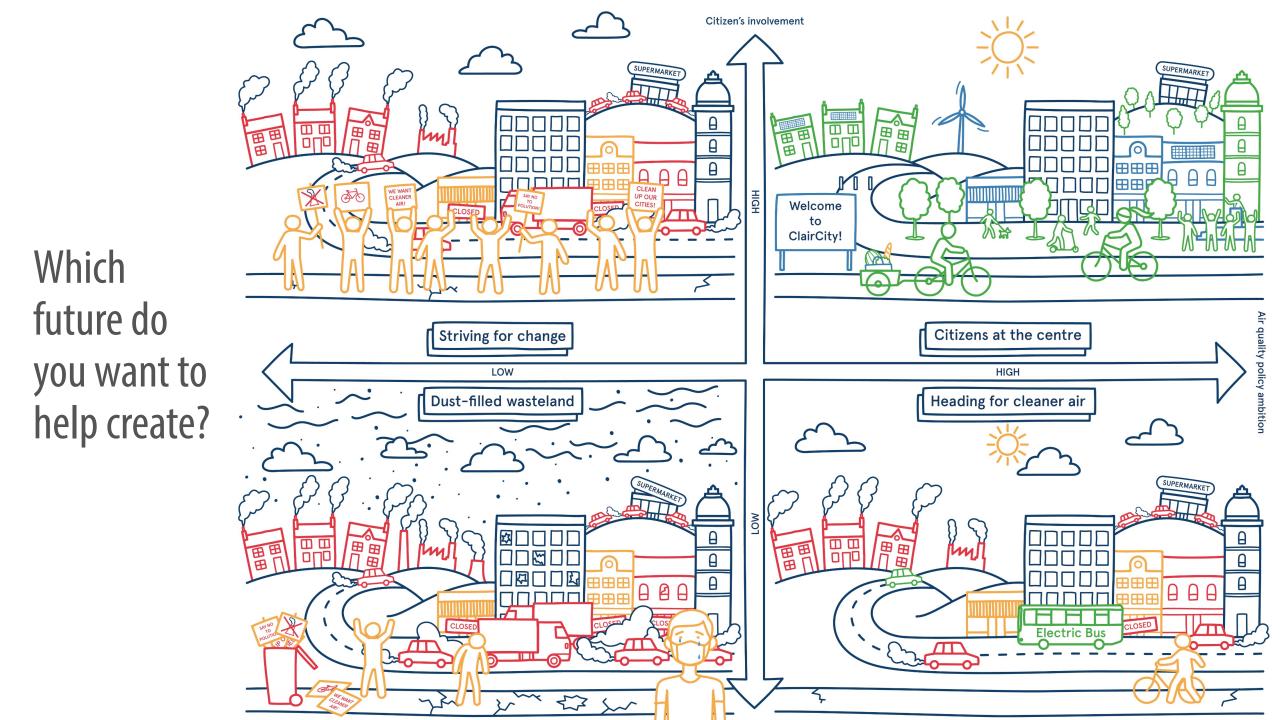
WeCount has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 872743.



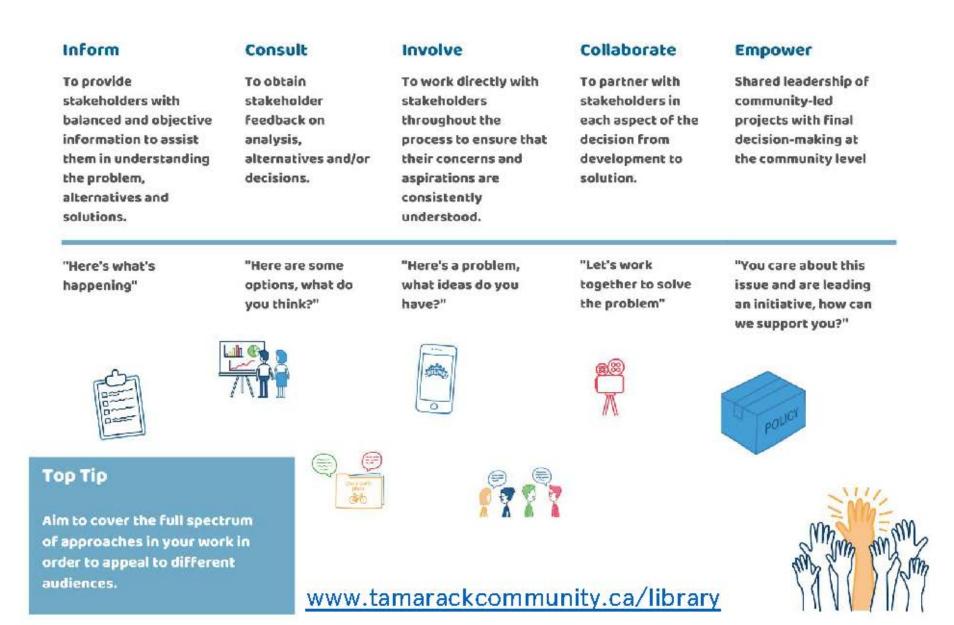
Community engagement for a clean air future

Dr Laura Fogg-Rogers UWE-Bristol





How to engage: the Community Engagement Continuum



ClairCity

Ways to engage

INFORM	CONSULT	INVOLVE	COLLABORATE	EMPOWER
Website, leaflets, talks, videos, Infographics, social media, advertising, media, presentations, exhibitions	Polls, voting, online consultations, paper surveys, interviews, focus groups, online forums, Social media discussions, Workshops, door-to-door, comment boxes, Kitchen table talks	Crowdsourcing Ideas, community mapping, digital storytelling, design charette, mind mapping, visioning	Large group meetings, document co- creation, online communities, open space, working groups	Decision- making platform, public advisory committee, citizen juries, citizen communities , community indicator projects, Asset-based community development

www.tamarackcommunity.ca/library



Inform: Citizen-led air pollution reduction in cities

Everyday, air pollution and carbon emissions are produced by our commutes to work, by heating our homes, or through our daily lifestyles.

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.





WHAT IS AIR POLLUTION AND HOW DOES IT AFFECT US?



IT'S YOUR HEALTH

BREATHING POLLUTED AIR RAISES THE CHANCES OF HEART ATTACKS, STROKES, AND LUNG CANCER. IT MAKES RESPIRATORY CONDITIONS LIKE ASTHMA OR BRONCHITIS WORSE.

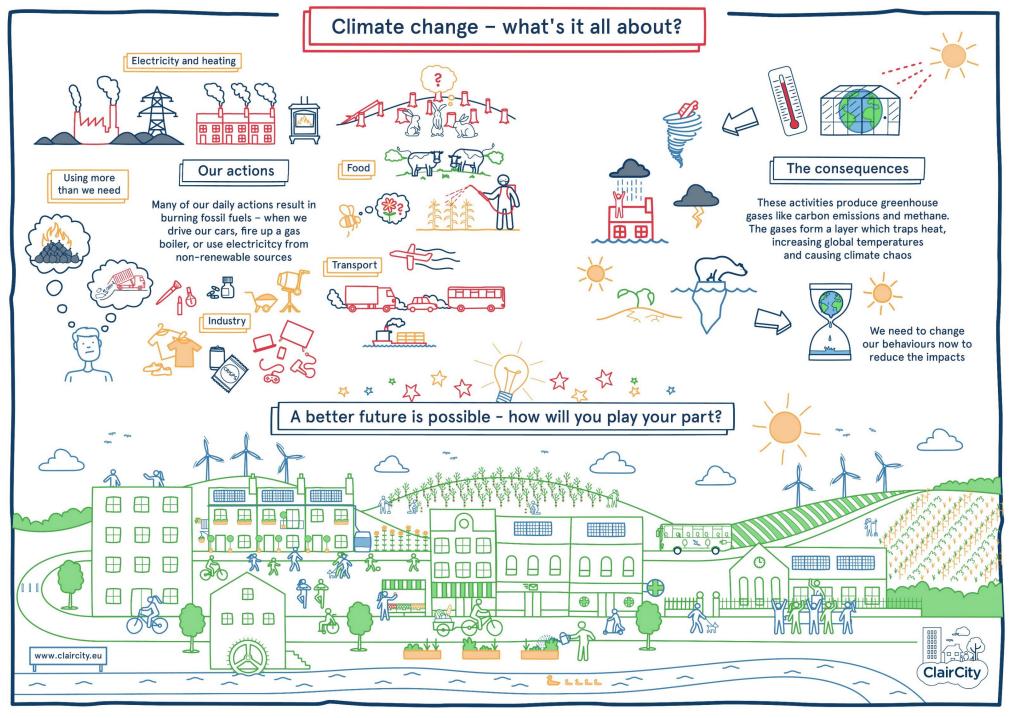




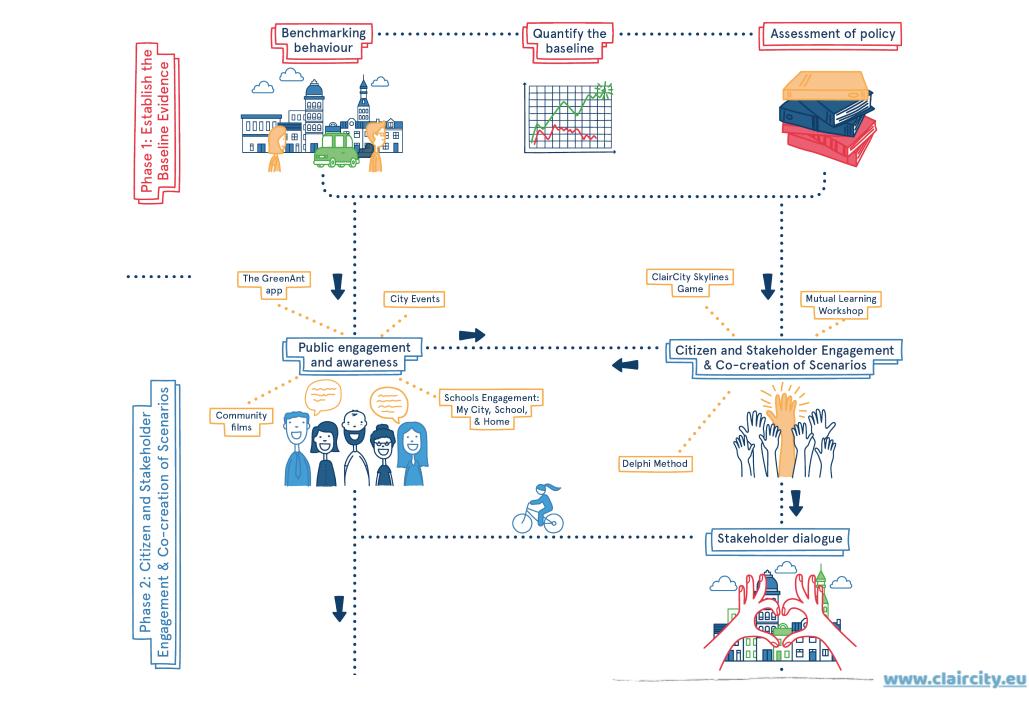
1 IN 8 DEATHS

AIR POLLUTION CAUSES ONE IN EVERY EIGHT PREMATURE DEATHS WORLDWIDE.





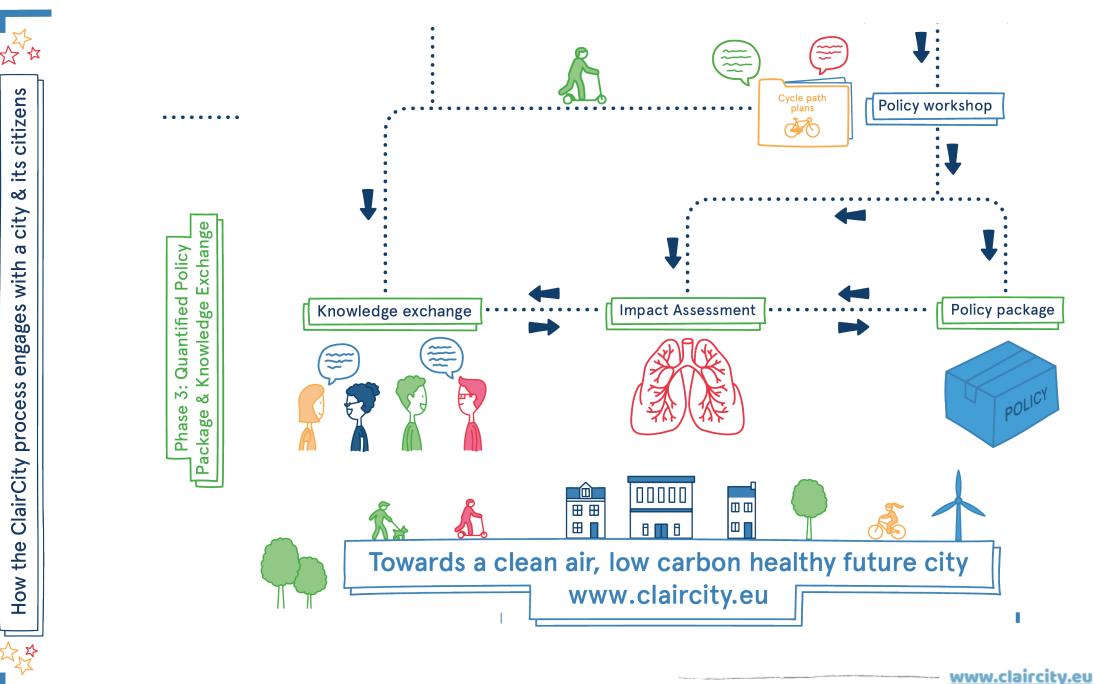




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Baseline reports e.g. why we travel... relative distance contribution of our travel activities in Bristol

09:00

21%

11%

🖌 Life Admir

9%

8%

7%

5%

Leisure

Commuting

Shopping

Business

Errands

Caring responsibilitie

Education

40%

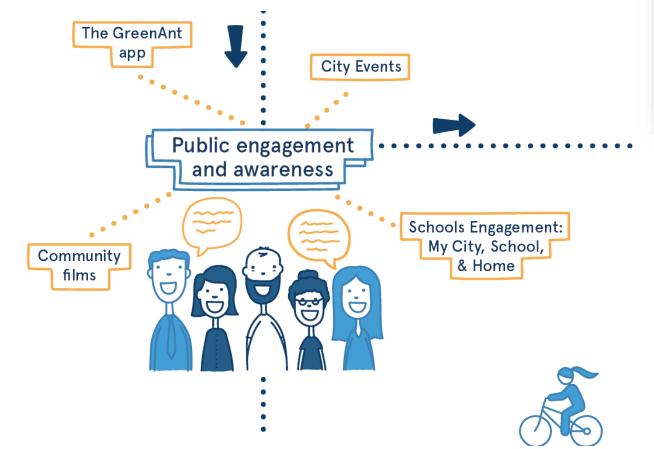


Fogg-Rogers, L.; Hayes, E.; Vanherle, K.; Pápics, P.I..; Chatterton, T.; Barnes, J.; Slingerland, S.; Boushel, C.; Laggan, S.; Longhurst, J.. Applying Social Learning to Climate Communications—Visualising 'People Like Me' in Air Pollution and Climate Change Data. *Sustainability* **2021**, *13*(6) 3406 *doi.org/10.3390/su13063406*

> *Data gathered in 2015 to show baseline behaviours (% rounded)

Relative % contribution

Consult and Involve





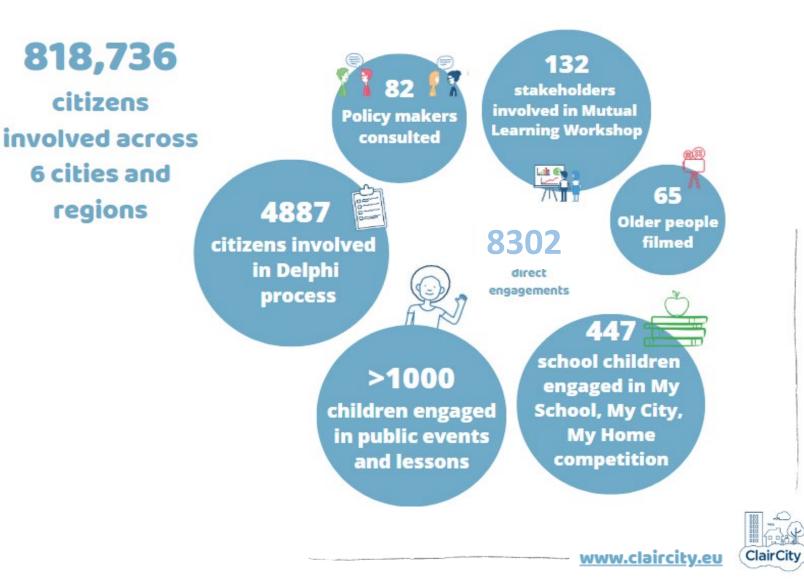
Engagement tools



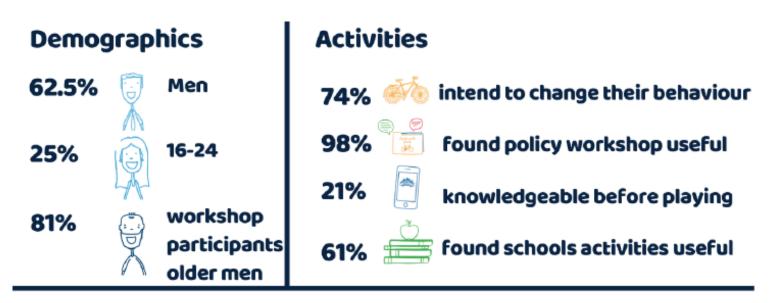




ClairCity results



Different activities needed to appeal to different ages, genders and communities



Engagement Findings



• the more participants understanding had improved, the more likely they were to change their behaviour



 the more participants enjoyed the activity, the more their understanding of air quality improved



 the younger the participants, the more likely they were to say that they enjoyed the activity



Collaborate – citizens want ambitious policies designed with their needs in mind

Bristol's top five

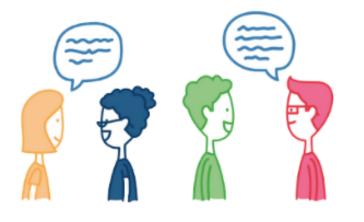
Citizen-led clean air policies

- 1. Ban/phase out polluting vehicles
- 2. Make buses greener and cleaner
- 3. Make public transport more affordable

4. Create alternatives to car use through better walking and cycling infrastructure

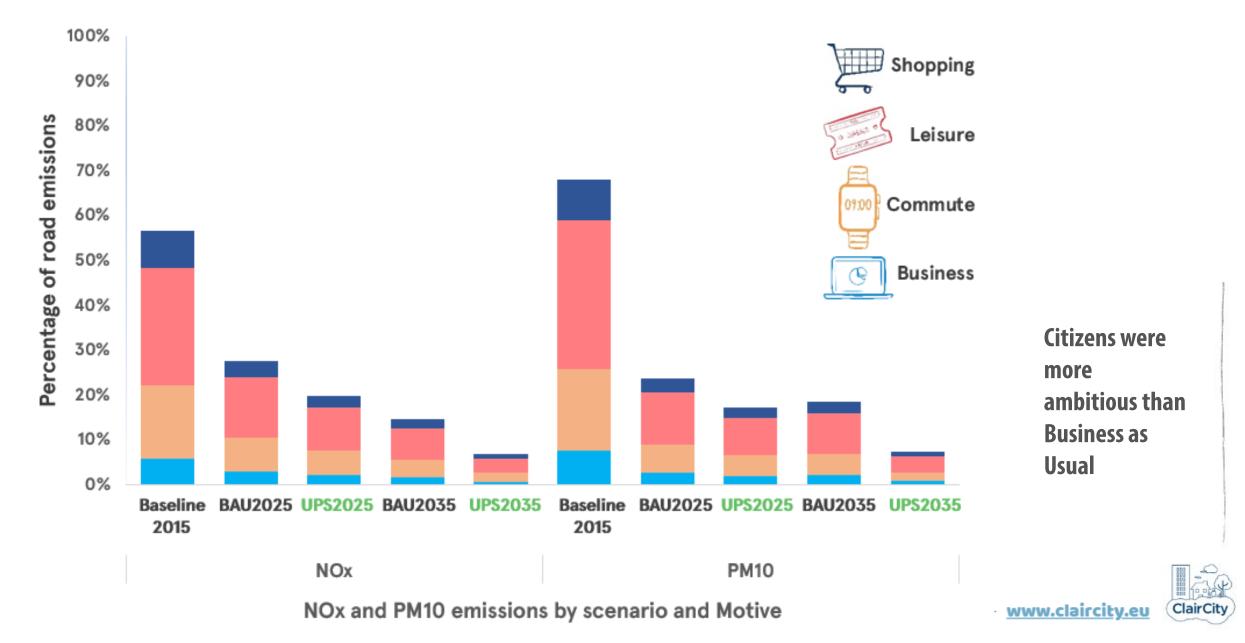
5. Reduce vehicle road space and increase public transport space







Road transport NOx and PM10 emissions scenarios by motive



Community resources



www.claircity.eu/take-action/communityactivator

@Claircity
@WecountH

www.claircity.eu/ta ke-action/educator





Engaging citizens in clean air decision making



http://www.claircity.eu/take -action/sciencecommunicator/





Collaborate and Empower



What is WeCount?

- Road traffic and urban mobility is a hot topic with plenty opinionated and even militant citizens already engaged. Although the younger voice is often not heard.
- The aim is work with citizens to quantify local road transport, produce new knowledge on local mobility, and co-create informed solutions to tackle various urban mobility challenges such as speeding, rat-running, peak episodes, air pollution, active travel etc.
- The WeCount project will carry out five different pilot studies in six EU cities / regions:
 - Leuven, Belgium;
 - Madrid / Barcelona, Spain;
 - Ljubljana, Slovenia;
 - Dublin, Ireland; and
 - Cardiff, UK.

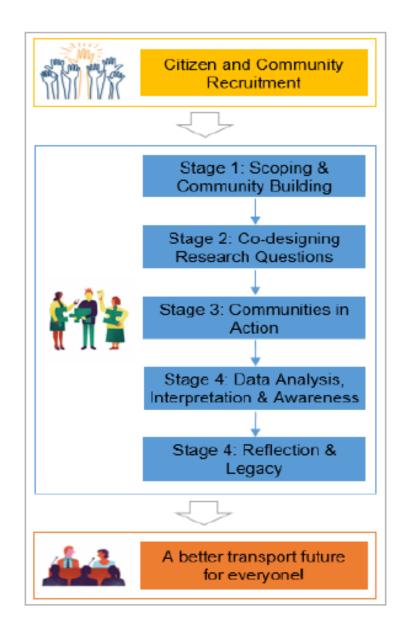


Community traffic sensing



- A Telraam sensor is placed in an upstairs window with a clear view of the road. <u>www.telraam.net</u>
- The sensor, via an algorithm in a Raspberry Pi, counts cars, large vehicles, cyclists, pedestrians and can also assess car speeds.
- The data is open access and can be viewed on the sensor data dashboard.
- We work with local communities to establish these sensor networks in their neighbourhoods.
- We facilitate local workshops and discussions to utilise this data and local knowledge to address the key challenge(s) that the community is interested in.





What is the role of the citizen in the process?

- Stage 1: Bringing communities together.
- Stage 2: How can WeCount help answer my local transport problem?
- Stage 3: Communities in Action
- Stage 4: Analyse and discuss among stakeholders to identify areas for action and impact.
- Stage 5: Did we achieve our goals? What transferrable lessons? What are the next steps?





Youth Engagement with Engineering for Sustainability Summit (YEESS!)



Engage school students in the West of England with your research ahead of the **Sustainability &** Engineering Youth Summit

Get me OUL of here



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How to engage: the Community Engagement Continuum

Inform	Consult	Involve	Collaborate	Empower
To provide stakeholders with balanced and objective information to assist them in understanding the problem, alternatives and solutions.	To obtain stakeholder feedback on analysis, alternatives and/or decisions.	To work directly with stakeholders throughout the process to ensure that their concerns and aspirations are consistently understood.	To partner with stakeholders in each aspect of the decision from development to solution.	Shared leadership of community-led projects with final decision-making at the community level
"Here's what's happening"	"Here are some options, what do you think?"	"Here's a problem, what ideas do you have?"	"Let's work together to solve the problem"	"You care about this issue and are leading an initiative, how can we support you?"
		0		POLICY

@laurafoggrogers

https://www.uwe.ac.uk/research/centres-and-groups/scu