

City Explorer Toolkit

Policy Recommendations

- City plans should be based on locally-relevant information on the benefits of nature-based solutions
- Decisions on where to place new green and blue space should consider multiple challenges (e.g. heat, air pollution, noise) and multiple beneficiary groups (i.e. socio-demographics)
- Tools like City Explorer Toolkit can help planners make well-informed decisions, and balance many competing requirements

This brief shows how REGREEN research has contributed to an online tool to help city planners make informed decisions on locating new NbS.

Approach

Building on an earlier prototype, REGREEN funding has developed an online version of City Explorer Toolkit, for the city of Aarhus (Fig. 1), which includes the following models (those in italics will be added later):

- Reducing air pollution
- Urban cooling
- Reducing water flow under high
 rainfall
- Access to green space
- Reducing man-made noise
- Improving water quality

Why City Explorer Toolkit?

There are existing tools to help city officials make decisions, but very few combine three key elements needed for effective decision-making:

- Spatial information
- · City-specific estimates of the benefits of NbS
- User's ability to create new scenarios and assess their own city plans

Need

Deciding where to put new nature-based solutions (NbS) is not simple, because the best place for NbS (e.g. trees) to tackle one challenge, like providing cooling on hot-days, may not be the best location for that same NbS to address another challenge, such as reducing air pollution.

Many cities are developing ambitious plans to use NbS to help address multiple urban challenges and make cities more liveable for their residents. These plans often include targets like planting 10,000 street trees, or creating new large parks. However, planners usually don't know the best place to implement these measures, and they lack appropriate tools to guide those decisions.

The City Explorer Toolkit helps users understand where best to create new green or blue space, or plant trees, to achieve a range of outcomes including taking into account social equity issues.

City Explorer Toolkit	About Us Science Glossary FAQ Contact
Explorer + Creator L Summary	Demo - James
(1) Save the services initials	
Type the new autopric name.	falso Roter
Type the new scenario description	Contraction of the second seco
SAME _	B Subarger
(1) Second that suggested to being place rates suggested into	
Chome a starting point for your scenario	- Contraction of the second
(1) May this had be done arous other gass used to incident loci of ($\fbox{\bullet}$	- Anno Anno Anno
From Land Class Laser the land data to what the spectral area will be treatment h	- Contraction
Select Land Classes	In the second
To Land Class Smell the and class to oblight the selection area will be merely ready	Some Same Same
Solect Land Class.	In the termine many many
400 Unco a	60 Line and a monoger to Galaxie are
Terms of Use Privacy Policy Contact	© 2024 UKCEH City Explore





Impact

Experts from Aarhus Municipality have been involved in the development of the toolkit from an early stage and their planners are testing the first production version, with scenarios based on their city plan: "A Greener Aarhus".

Do you know that...

... you can register as a user and try the Aarhus version of the City Explorer Toolkit?

Find out more here: https://www.ceh.ac.uk/city-explorer



Fig. 2: Screenshots of City Explorer Toolkit. A swipe tool allows easy comparison of layers (top), and users can create their own scenarios to test city plans (bottom).

Authors

Laurence Jones

Contributors

David Fletcher

You want to know more?

REGREEN webpage www.regreen-project.eu

REGREEN repository zenodo https://zenodo.org/communities/regreen



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no.821016 This document reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.



