







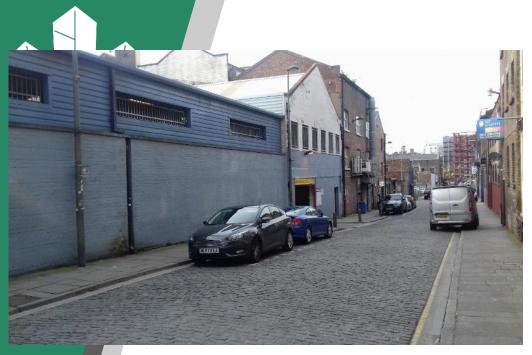


Singular Greening

- 1. Interactive Green Living Wall
- 2. Other Vertical Greening
- 3. Pollinator Roof and Pollinator Planting
- 4. Early Assessment Data



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 730426



Interactive Living Wall

Located in an urban area
On exterior of Parr Street Garage
Unexpected location
Covers 132m² vertical space
Soil based system
Transformed the area









Wall Planting

12,000 number of plants
19 species of plant
Monthly 'discovery' planting
Interactive element (pick strawberries)











Green Wall Landmark





Forms part of a green corridor route
Featured in many city and city region promotions
Visitor attraction
Photographed regularly
Subject to lots of interest and enquiries



Other Vertical Greening

Smart Pollinator Pillars

Solar powered for irrigation with a mobile app for refilling the water reservoir

Choice in planting function: biodiversity/colour/air pollution

Can include insect homes or bird boxes

Act as route markers and provide biodiversity stepping stones in urban areas

Create discussion and raise awareness



Other Vertical Greening



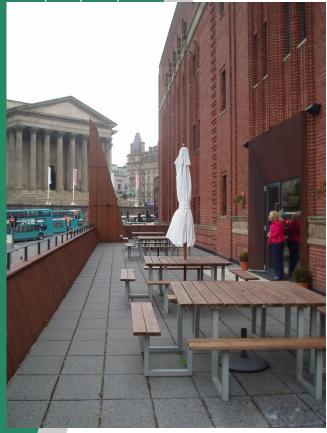
St Johns Shopping Centre, Living Wall 200m² of planting; 14,000 plants, 24 different species; 65m long





Liverpool ONE, Free standing green fence
Customised planting back and front; air quality and biodiversity

Pollinator Roof Royal Court Theatre







Container pollinator planting onto an open balcony in the city centre A repurposed cabinet as a bug hotel Featured on a TV programme



Other Pollinator Work



















Examples of Sustainable Techniques

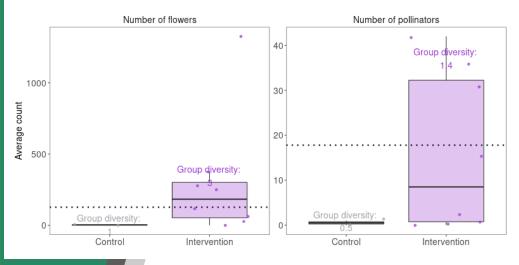
Organic seeds/plants
Reused materials between sites

Used flame thrower and deep turf removal to get rid of grass and weed seed bank rather than herbicide or chemicals

Tested acetic acid mixes on weed clearance

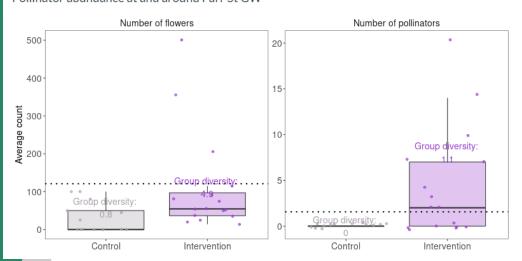
Used jute netting to retain moisture and suppress weeds

Pollinator abundance at and around Princes Av POLL



Pollinators

Pollinator abundance at and around Parr St GW



Still being evaluated ... looking good...

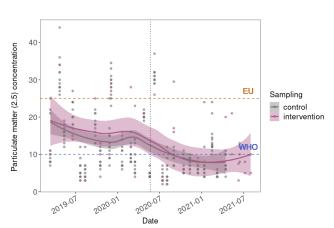
Data





Air quality PM

Particulate matter levels at and around St Johns GW



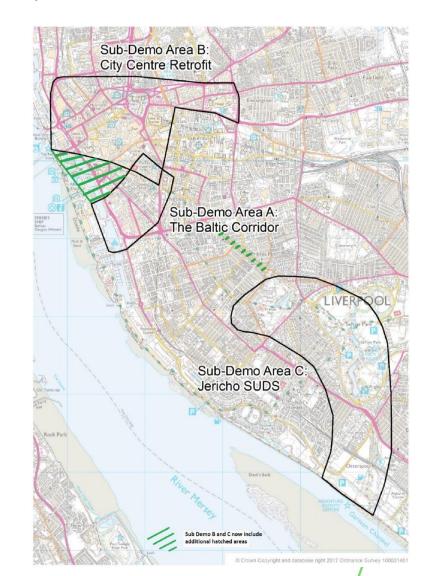


EcoservR Modelling and Calculations



Application of the Liverpool City Region Natural Capital baseline dataset Change (% from baseline) after GreenUP interventions

	Demo B
Accessible nature	0.28
Air purification	7.42
Carbon storage	1.35
Climate regulation	5.77
Noise regulation	0.65
Pollination	0.50
Water purification	1.95





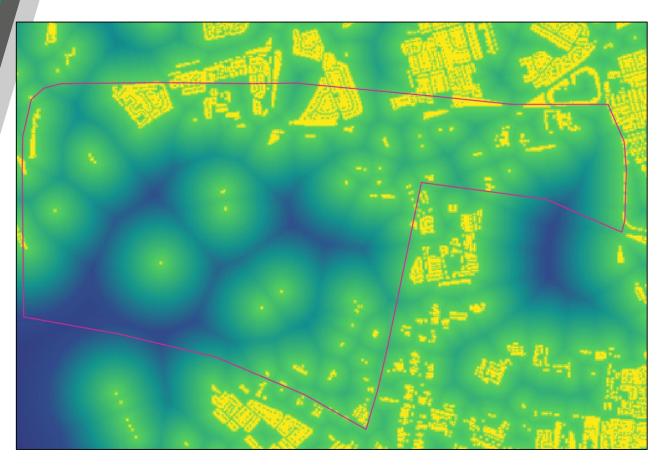
Pollination capacity increaseBASELINE (pre-GreenUP)



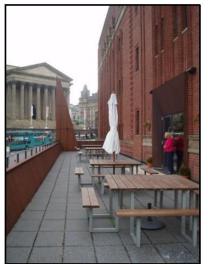
Capacity

100%

0%



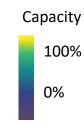


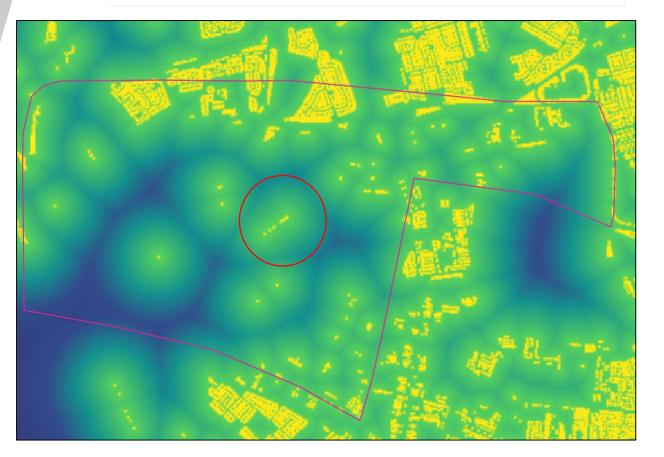




Pollination capacity increase POST-URBAN GREENUP

Green wall and pollinator roof (Royal Court)













Thank you

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