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FRASER MAXWELL | ARUP | 06.10.2015

GI Audits & Delivering green infrastructure in our Cities and Towns

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Arup – Cities Alive

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Arup – Wildscreen & Pocket Habitats

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Retrofit is about using the space we have more effectively

New build is about planning green infrastructure at the start - as an integral and equal component

‘Cities need green in sizes S, M, L and XL otherwise the human ecosystem is incomplete’

GIL PEÑALOSA QUOTED FROM ’HAPPY CITY’ BY CHARLES MONTGOMERY (2013)

Arup – Green Infrastructure (GI) Audit

- Partnership with Victoria Business Improvement District
- Interviews with 50 organisations as well as reviews of ten completed GI Audits
- Determining best practice when carrying out GI Audits

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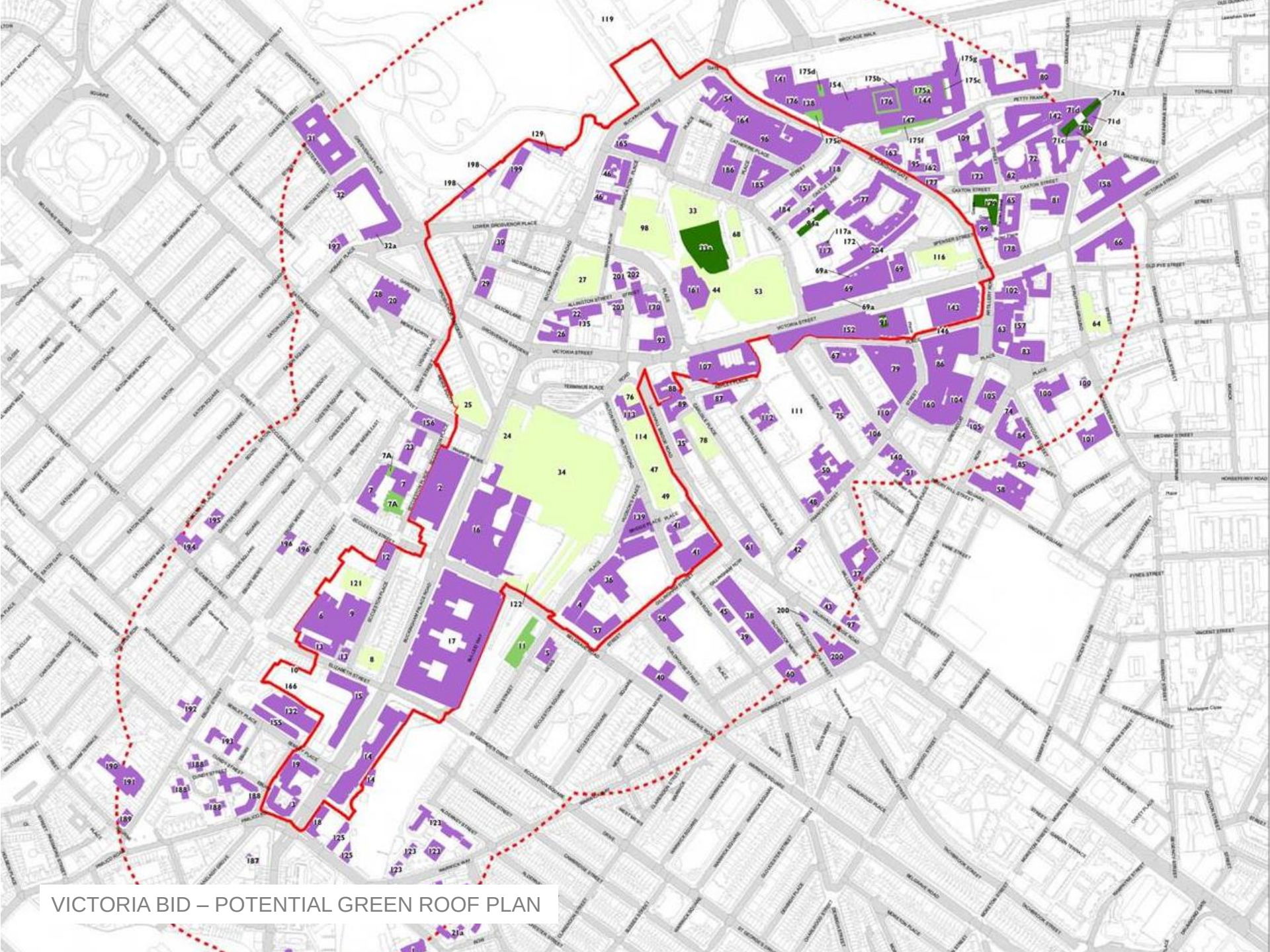

VICTORIA BID – POTENTIAL GREEN ROOF PLAN

ST ERMIN'S BEE & BEE HOTEL, VICTORIA LONDON

© ST ERMIN'S HOTEL | FARRELLS

RUBENS HOTEL IN VICTORIA– LONDON'S LARGEST GREEN WALL

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Arup – GI Audit, Calderbank

- Mike Batley, CSGNT
- “to discover a new rationale for the main street that provides a range of local benefits which together prioritise sustainability in all its forms”
- GI Audit
- Public consultation

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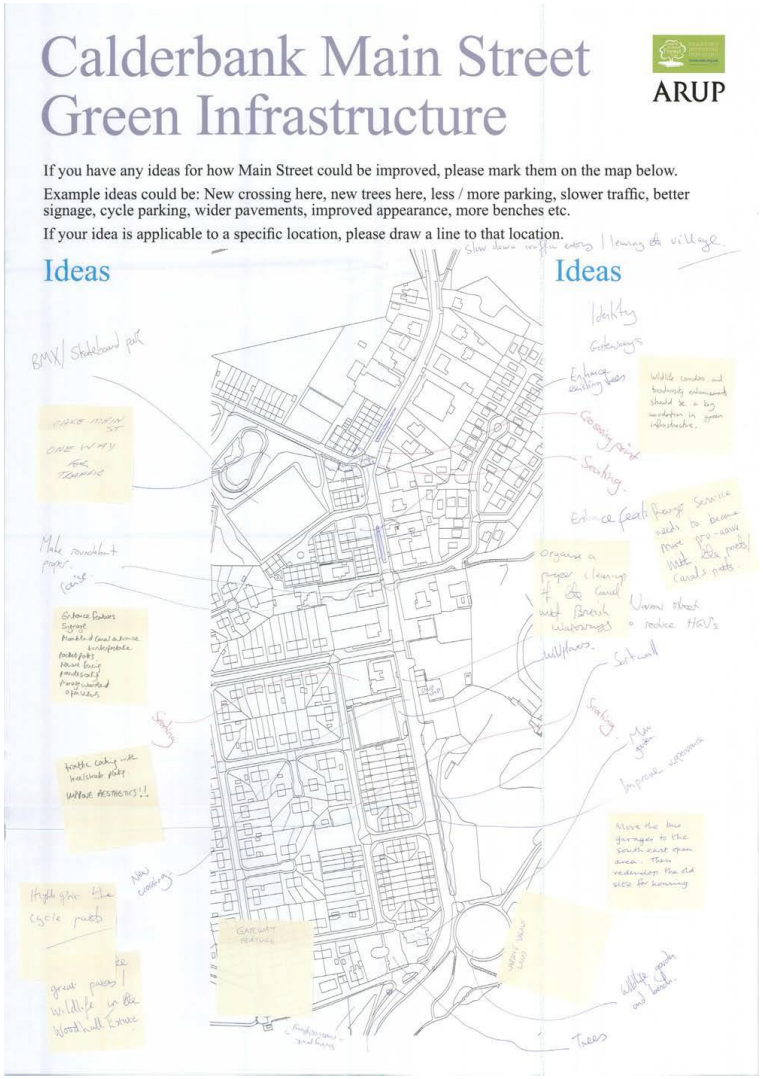
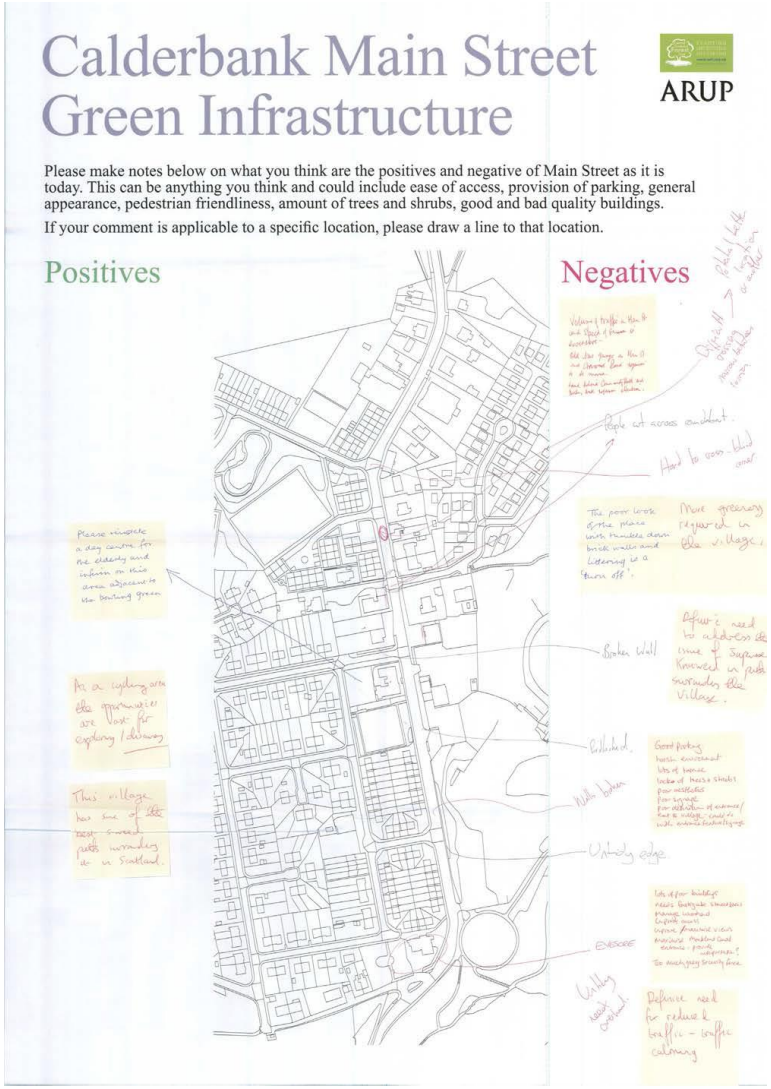
Arup – Consultation





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VILLAGE ENTRANCE - BASELINE

PROPOSAL

SIDE STREET
- BASELINE

PROPOSAL

CENTRAL
MEDIAN
- BASELINE

PROPOSAL

WALL &
PAVEMENT
- BASELINE

PROPOSAL

Arup – Cardowan SWMP

- Glasgow City Council
- “SWMP for the Cardowan Catchment”
- Garthamlock Community Growth Area
- Scottish Water sewers already at capacity

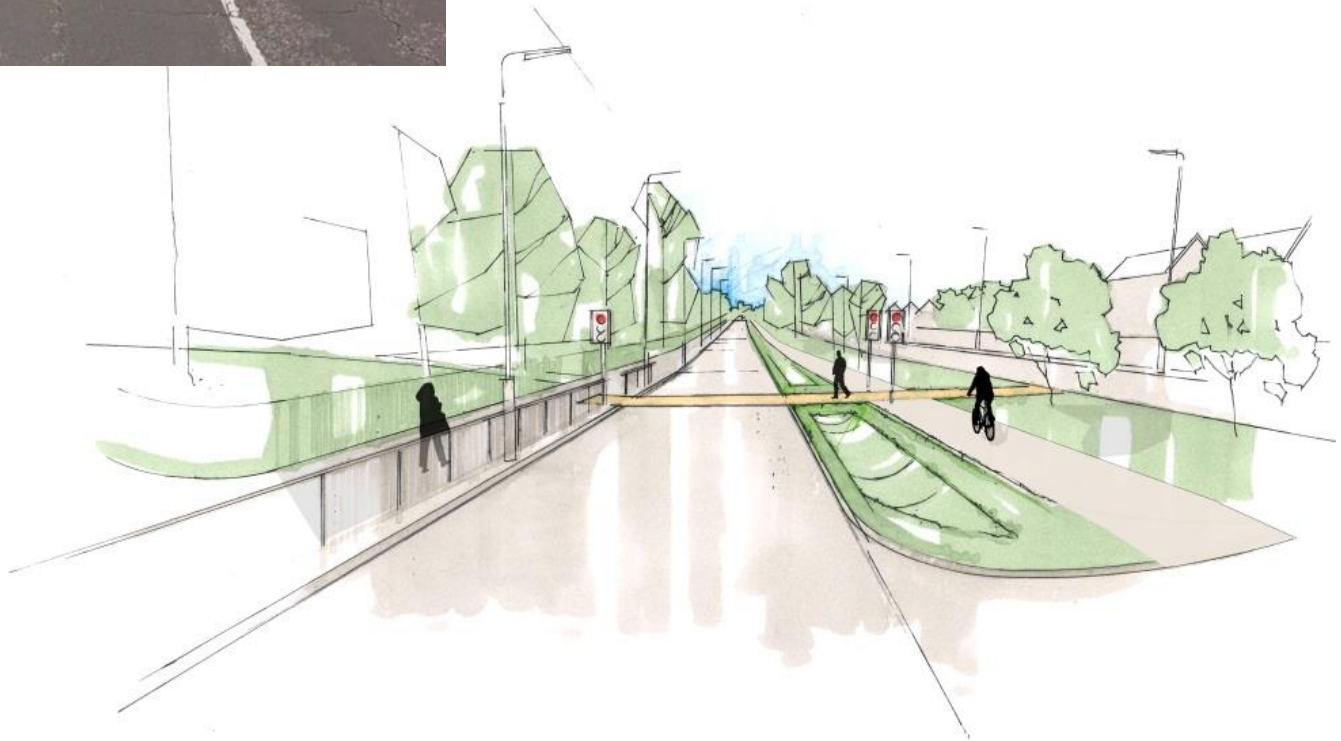
JERVISION ROAD - BASELINE

PROPOSAL

CRANHILL
PARK
- BASELINE

PONDS PROPOSAL

EDINBURGH ROAD - BASELINE



PROPOSAL

London Ecology Masterplan

The Crown Estate

'When one tugs at a single thing in nature he finds it attached to the rest of the world'

– John Muir, 1901

THE CROWN ESTATE – GREEN LINK - REGENTS PARK TO ST JAMES PARK

© CROWN ESTATE

Timeline

50 year+ vision

Wide stakeholder consultation to guide Masterplan production

Review of existing buildings and opportunities for retrofit

Early involvement in building design process for all new developments

Baseline habitat and species surveys across whole Estate

Repeat every 2-10 years depending on species

Individual monitoring programs for all green infrastructure

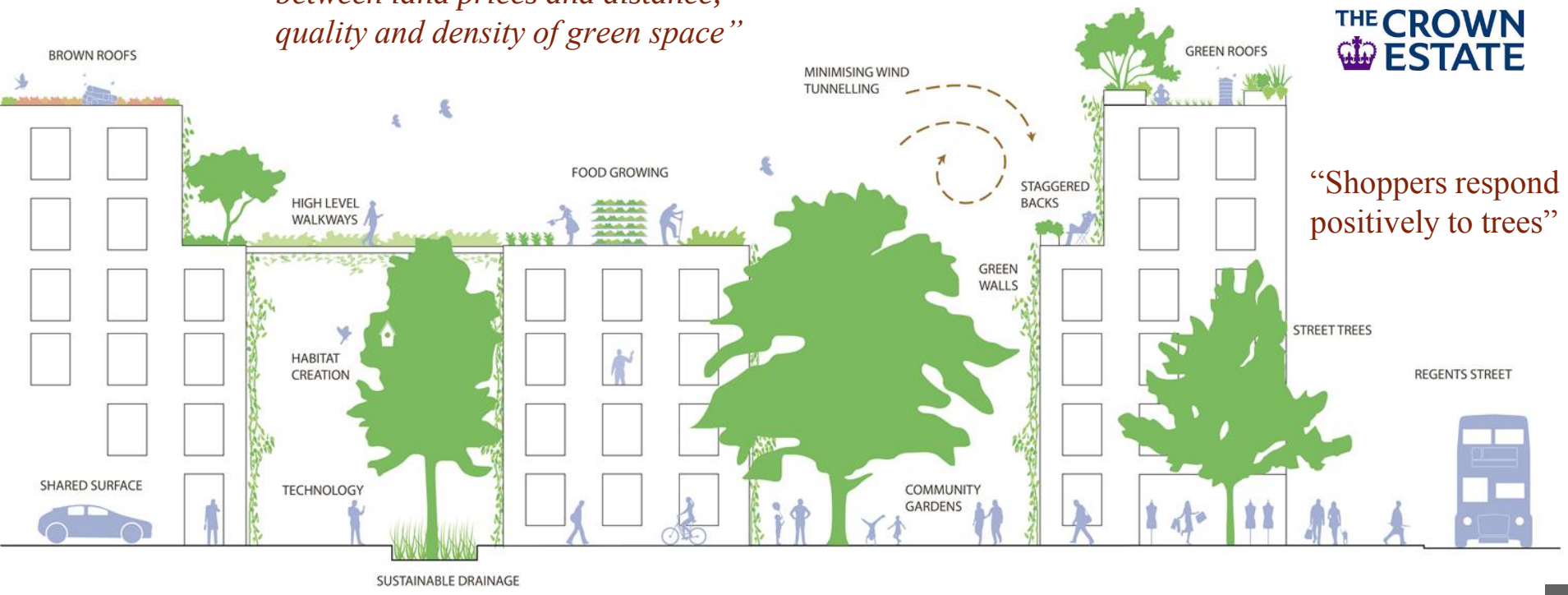
"There is increasing evidence that nature in the urban environment is good for both physical and mental health"

"Tree canopy helps create a sense of place"

"Trees can also enhance traffic calming measures"

"Good quality public environment can improve trading"

"A significant correlation was found between land prices and distance, quality and density of green space"



"Shoppers respond positively to trees"

"Visitors judge districts with trees as more pleasant"

"Desk workers who have a view of nature report better job productivity"

"Trees and parks can reduce local air temperature by 0.5-5°C"

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Implementation

Public Participation

Walking app

Live webcams

Public website

Tenant gardening clubs

Bird watching tours

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Any Questions?

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