

LIFE+ Climate change adaptation inc.
sustainable drainage
Green Infrastructure retrofit

Mark Bentley CMLI
Oct15

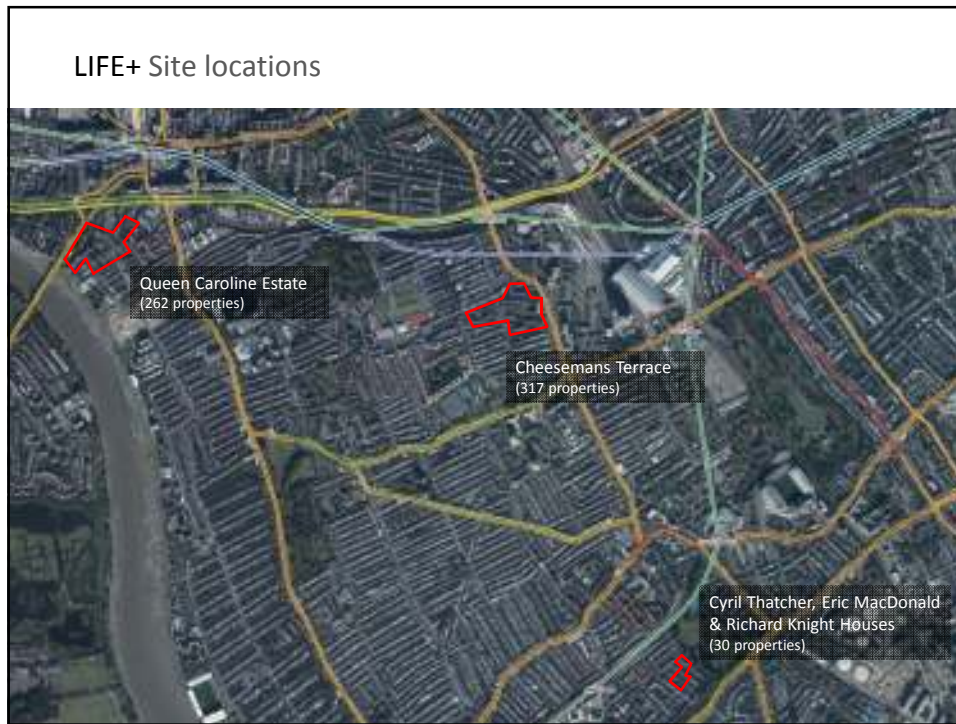


LIFE+ Climate proofing social housing landscape

Project objectives:

- Develop a transferable methodology for designing and implementing highly effective, affordable and socially acceptable, light-engineering retrofit climate change adaptation measures in social housing landscapes.
- Delivery in a way that supports the achievement of wider Green Infrastructure (GI) goals, e.g. biodiversity, air quality improvement, play provision etc.
- Implement main measures through employment programmes for long-term unemployed





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Survey & analysis	Design	Construction & Monitoring

Advisory Group: inc. EA, GLA, LI, Nat. Housing Fed, CIRIA, LCCP, Nat. Eng.

Supported by:

Cyril Thatcher, Eric MacDonald & Richard Knight Houses



Cyril Thatcher, Eric MacDonald & Richard Knight Houses



Site characteristics:

- Compact/organised site
- Use of space well defined
- Access & movement well defined
- Large areas of flat roof



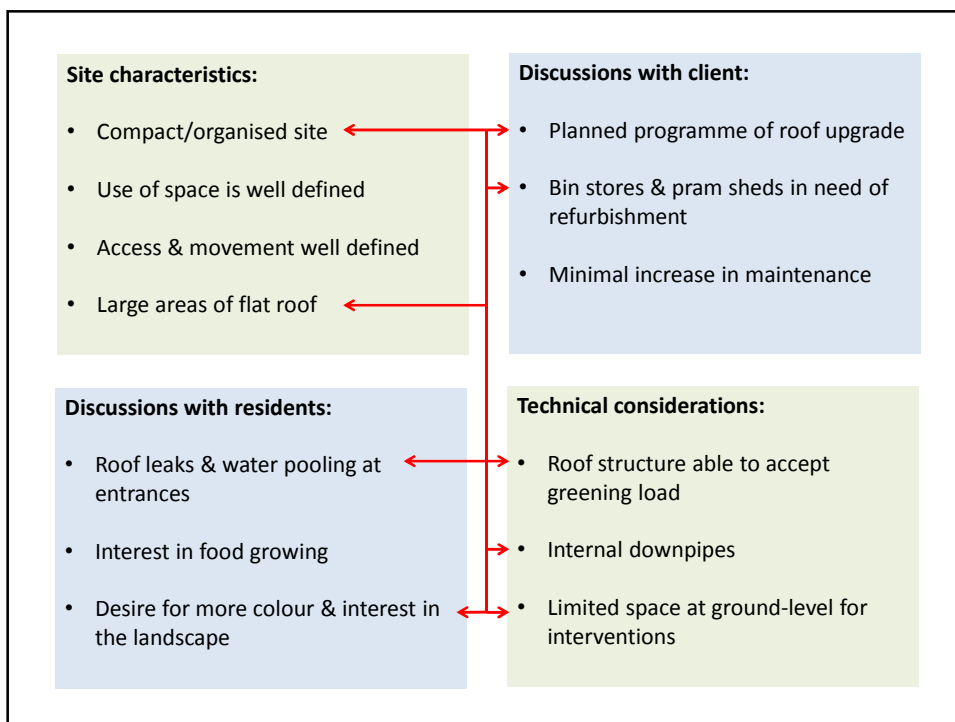

Discussions with residents:

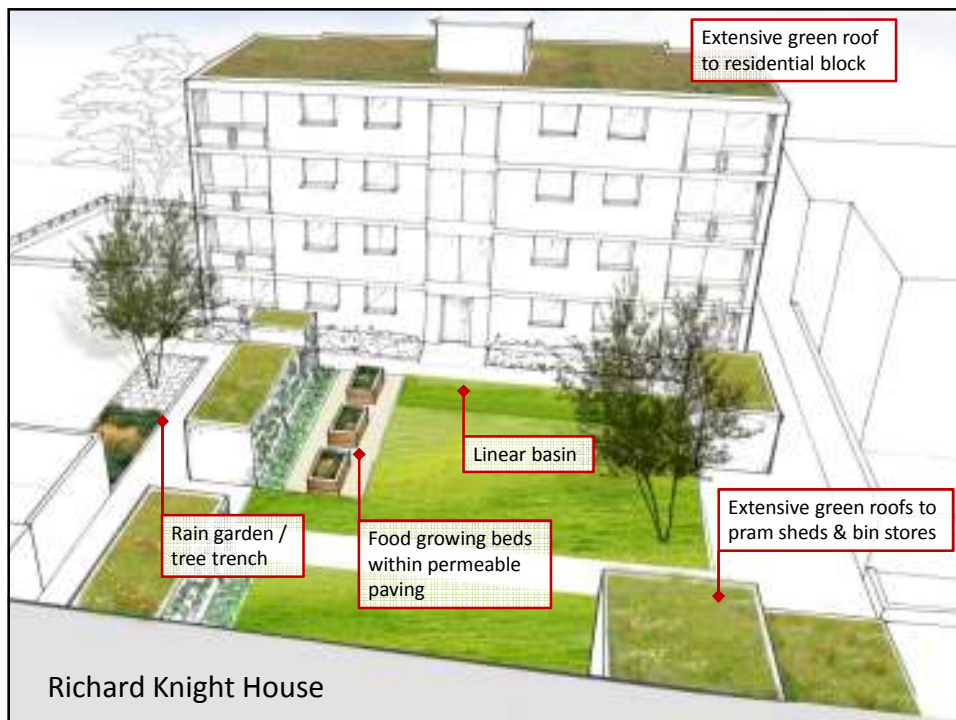
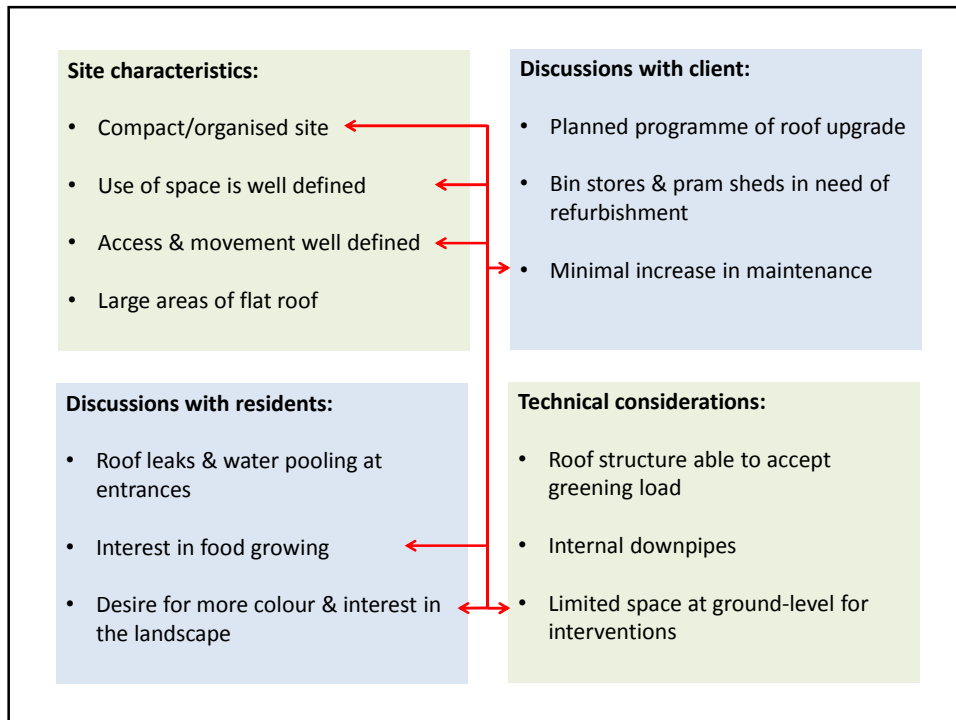
- Roof leaks & water pooling at entrances
- Interest in food growing
- Desire for more colour & interest in the landscape



<p>Site characteristics:</p> <ul style="list-style-type: none"> • Compact/organised site • Use of space is well defined • Access & movement well defined • Large areas of flat roof 	<p>Discussions with client:</p> <ul style="list-style-type: none"> • Planned programme of roof upgrade • Bin stores & pram sheds in need of refurbishment • Minimal increase in maintenance
<p>Discussions with residents:</p> <ul style="list-style-type: none"> • Roof leaks & water pooling at entrances • Interest in food growing • Desire for more colour & interest in the landscape 	<p>Technical considerations:</p> <ul style="list-style-type: none"> • Roof structure able to accept greening load • Internal downpipes • Limited space at ground-level for interventions

LIFE+ Options ID, screening & prioritisation





SECTION 9-9, AT ROOF EDGE, SCALE 1:10 @ A2

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- Extensive green roof to Richard Knight House

DETAIL 21 Green roof perimeter, Scale 1:5 @ A3

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- Low-level green roofs, rain garden & tree trench

Queen Caroline Estate



Queen Caroline Estate





Discussions with residents:

- Active TRA
- Problems with water pooling
- Keen to expand food growing
- Desire for more colour & interest in the landscape









WHAT NEXT?