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

Mark Bentley CMLI
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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
LIFE+ Site locations

Queen Caroline Estate (262 properties)
Cheesemans Terrace (317 properties)
Cyril Thatcher, Eric MacDonald & Richard Knight Houses (30 properties)

LIFE+ Climate proofing social housing landscape

Survey & analysis

Design

Construction & Monitoring


Supported by: Richard Jackson
**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

Site characteristics:

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

Discussions with client:

- Planned programme of roof upgrade
- Bin stores & pram sheds in need of refurbishment
- Minimal increase in maintenance

Technical considerations:

- Roof structure able to accept greening load
- Internal downpipes
- Limited space at ground-level for interventions
### LIFE+ Options ID, screening & prioritisation

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Susdrain – SuDS and placemaking

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Richard Knight House

- Extensive green roof to residential block
- Linear basin
- Extensive green roofs to pram sheds & bin stores
- Rain garden / tree trench
- Food growing beds within permeable paving
LIFE+ LBHF
- Extensive green roof to Richard Knight House

LIFE+ LBHF
- Low-level green roofs, rain garden & tree trench
Queen Caroline Estate

**Site characteristics:**
- Large open structured site
- Use of space is poorly defined
- Barriers to access & movement
- Pitched roofs
Discussions with residents:

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

• Attenuation basins – soft & hard landscape
CHEESEMANS TERRACE

LIFE+ Climate proofing social housing landscape

Survey & analysis  Design  Construction & Monitoring


Supported by: [List of logos and names]
WHAT NEXT?