

Accelerator Cities Pathfinder Project



UK Green Building Council Mission:





Industry task group































Net zero carbon framework,

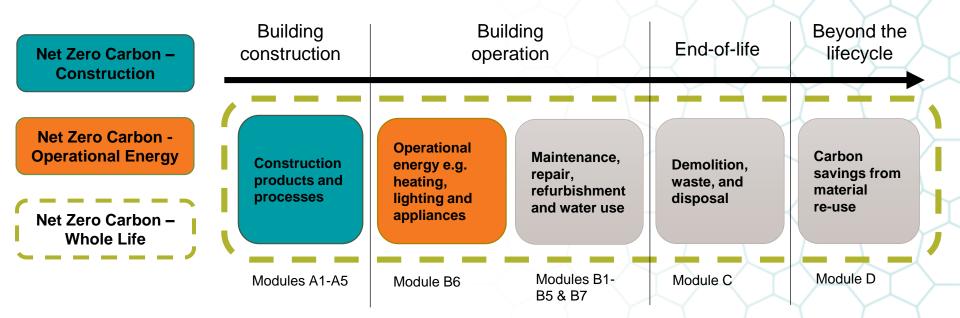
Overarching principles:

- 1. Polluter pays
- Improve measurement and transparency
- 3. Encourage action today and tighten requirements over time



Net zero carbon scopes





Framework

New buildings/ major renovations Buildings in operation



Reduce construction impacts





Reduce operational energy use







Increase renewable energy supply







Offset any remaining carbon







Public disclosure







- = Achieve net zero carbon balance for construction
- = Achieve net zero carbon balance for operational energy







What is the purpose of Accelerator Cities?

To co-create a proposal for a long-term city-led home retrofit programme

A programme which meets the local needs of the UK's most ambitious city-regions, and benefits from collaboration between those cities



Accelerator Cities: our partners













Project Timeline

Activity	When
Literature review and interviews	July/Aug
Regional Workshops	Sept/Oct
Draft programme proposal and consult	Oct/Nov
Finalise proposal and submit to Climate Kic	Dec



Why home retrofit?



HOUSEHOLD

£8.61 billion

could be saved in energy bills annually if all homes were improved to EPC rating CIA



insulation

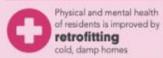
reduces external noise transfer and improves occupant health and wellbeing

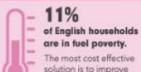
Properties in EPC bands require

48% more

damp and mould-related maintenance and repairs

compared to 40 rated properties "



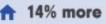


home energy efficiency



COMMUNITY

A home rated EPC A sells for





than an EPC G-rated equivalent (37)



Emissions from gas heating and cooking



contribute to 20% of NOs emissions in urban areas an

Investments in home improvements



spending in the local economy im

Retrofitting properties



the number of void days for rental and mortgage defaults for owner occupiers 181

Retrofit provides an opportunity to make homes more resilient, such as integrating flood defence measures



CITY

Reducing energy demand

is the most cost effective way to reduce emissions CO

Natural gas imports could be reduced by 7.0%



using a national energy efficiency programme⁻⁻

For every 11 invested in retrofit an estimated

€1.27

would be returned in tax revenues as

Local energy systems benefit from reduced demand, especially during peak times, and make the local grid more resilient

For every spent on reducing fuel poverty

is expected in annual NHS savings #1

23

person years of employment could be created for every

£1 million

invested in retrofit = Infographic developed for UKGBC by PRP



Lack of coherent national policy

- Brexit = uncertainty
- No clear strategy to get to net zero homes
- · Start/stop policy e.g. Green Deal
- Some sectors being addressed e.g. PRS, others not at all
- No consequential improvements through Building Regs
 - NPPF gives little weight to refurb

City level

- Lack of risk-taking
- Lack of long-term strategy
- Lack of capacity

Lack of coherent offering to householders

- Hassle factor
 - Expense
- Lack of knowledge
- Lack of trusted installers/ third party advice

Barriers to Retrofit

Cost

- High upfront costs
- Lack of finance mechanisms
- Lack of coherent offering for institutional investors
 - No fiscal incentives (VAT, stamp duty, council tax)
- Slow return on investment

Tenure issues

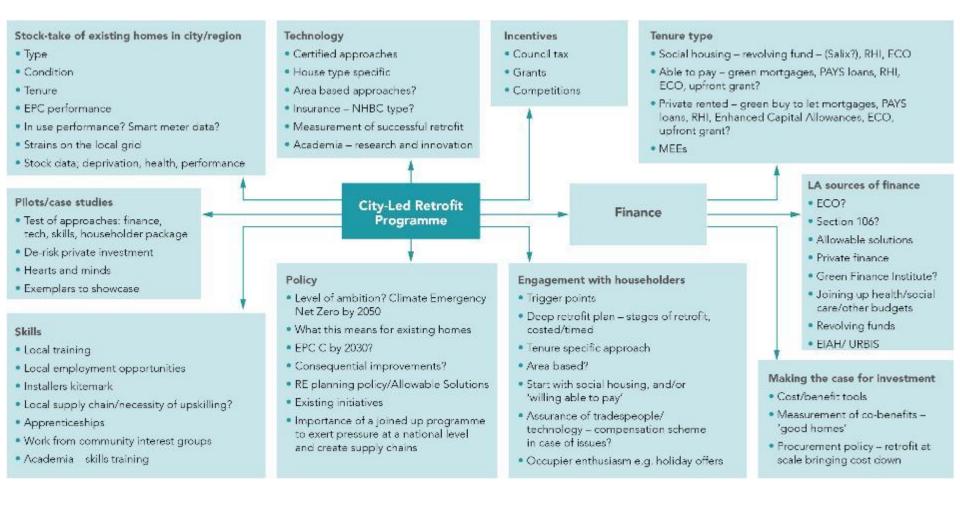
- Landlord/tenant split
- Social housing has particular challenges – e.g. capped rents?
- Challenge of multi tenure blocks/streets/areas

Technical

- Complexity in getting whole house deep retrofit right
- Heritage buildings issues

Lack of supply chain

- Industry decimated post
 Green Deal/CERT
- Skills and capacity lost
- Fragmented industry
- Loss of confidence in longterm policy direction



Next steps

- Continue to develop proposal for 'Retrofit Accelerator'
- Further consultation workshops:

London 14th November Newcastle 21st November joanne.wheeler@ukgbc.org

 Submit proposal and implementation plan in Dec







Thank you



UKGBC - Together for a better built environment