

Better Homes – Better Lives

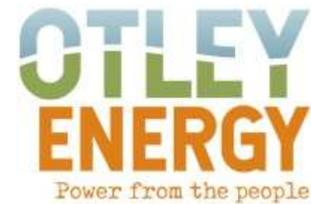
Delivering a
systems (joined-up) approach to net zero through
regional delivery programmes



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Background to the **Better Homes Hub**



The **UK Net Zero Strategy** vision and systems approach

A vision for a positive future

- Compelling vision of a positive future
- Homes are warm, and comfortable, and affordable
- Selling the multiple positive outcomes

The UK's Net Zero Future



Our **industrial heartlands** are reinvigorated, with **innovation** and **private investment** in clean technologies – such as wind, carbon capture and hydrogen in multiple locations across the UK including the North East; or the manufacture of batteries and electric vehicles in the Midlands.



Our **journeys** are made in zero emission vehicles, with trains, ships and planes running on new low carbon energy sources.



Our **towns and cities** have cleaner air for everyone, and support walking and cycling with benefits for health.



Our **green economy** and its **supply chains** provide sustainable jobs for highly-skilled workers – in construction, manufacturing, engineering, science, nature conservation, finance and more, across the economy and the UK, including in rural areas.



Our **goods** are designed to last longer and be more efficient, while being used, repaired and remanufactured within a circular economy.



Our **businesses** are delivering the latest low carbon technologies, services and innovations for the UK and export markets; and are more resilient to the global net zero transition.



Our **natural environment** is protected, enhanced, and more diverse, with healthy ecosystems and increased biodiversity, supporting a sustainable rural economy and providing wider benefits, including improved mental health and protection from risks like flooding and overheating.

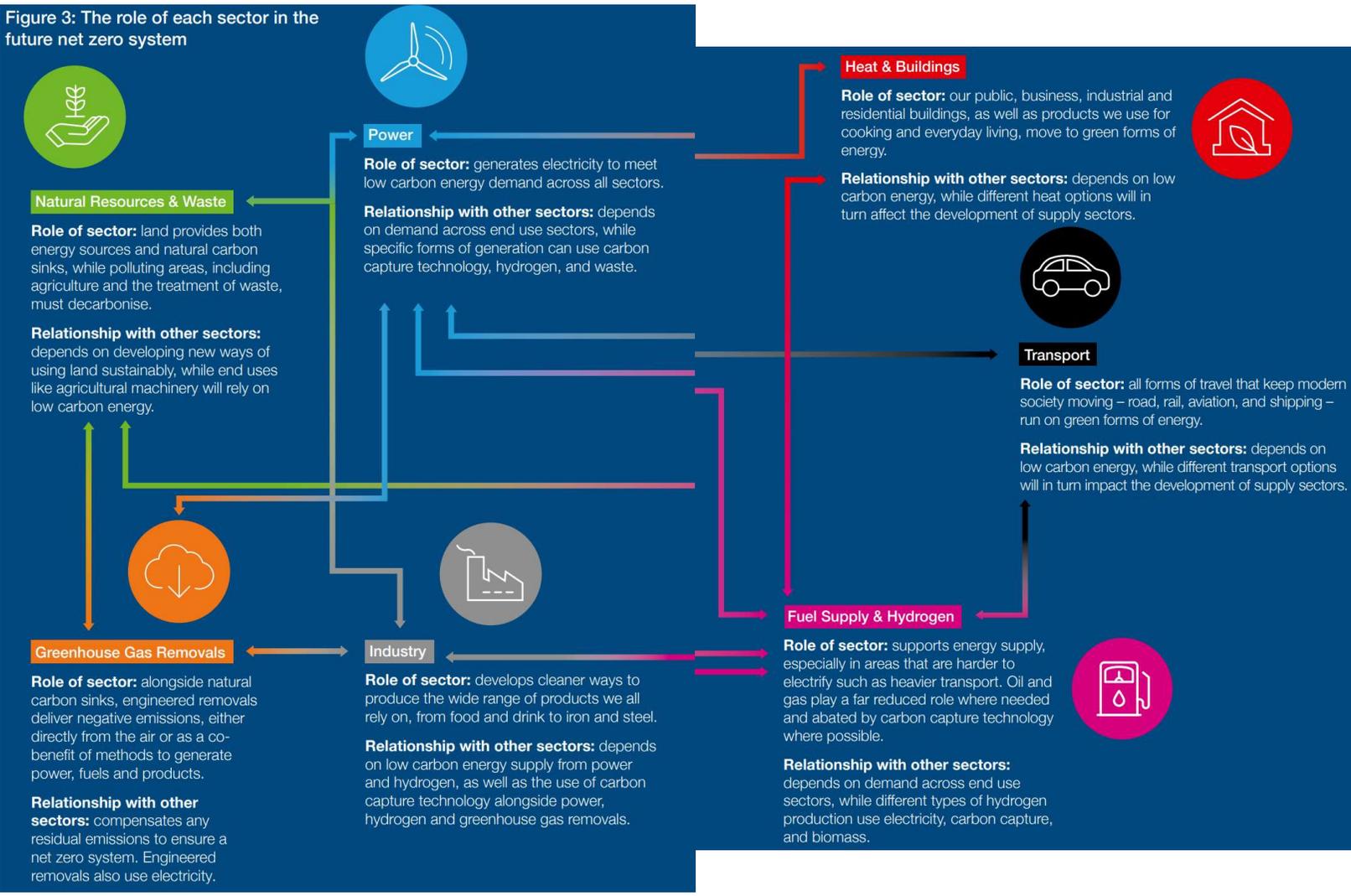


Our **homes** are warm and comfortable, powered and heated by clean, affordable energy.

A systems (joined up) approach

- Required due to
- multiple benefits
 - interactions between sectors
 - overlapping barriers
 - roles for all stakeholders

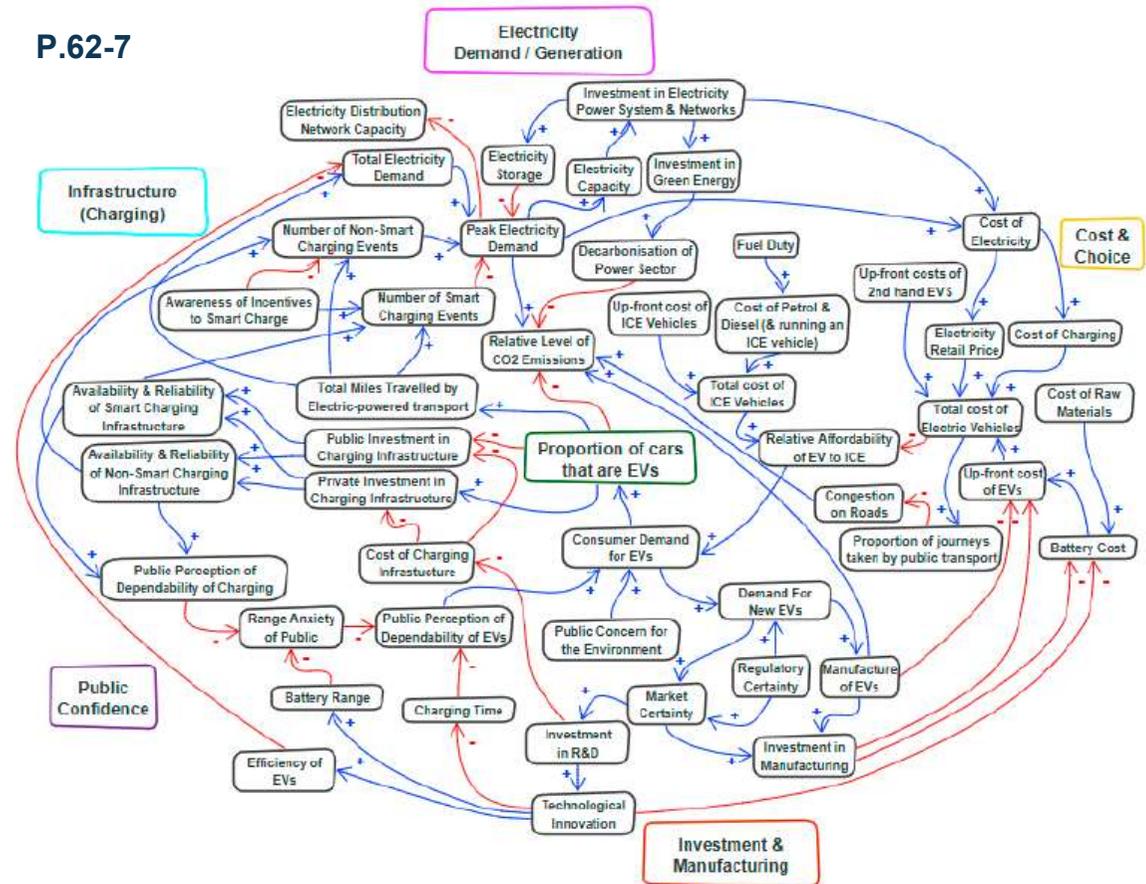
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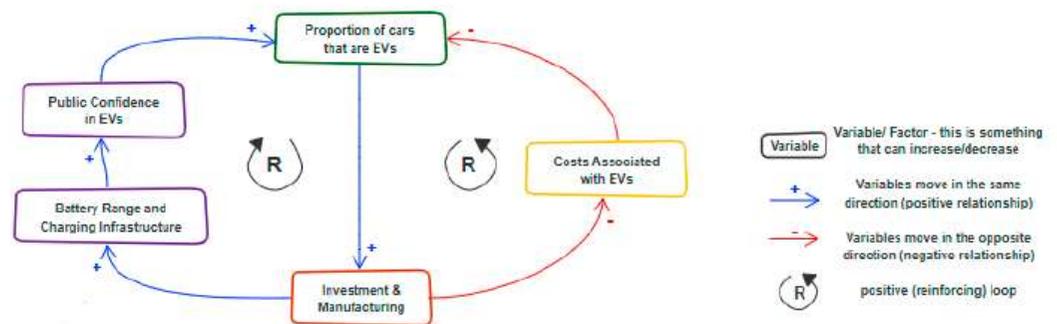
A systems approach

- The role of individual barriers **and** their relationships.
- Negative feedback loops or 'dependencies' must be tackled in a systematic way.
- Policies like Green Homes Grant, or narrow delivery models will never be enough.
- Opportunity to accelerate momentum by joining up action.

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Summary of Feedback Loops



Blueprints for **systems approaches**

A systems approach

- UKGBC Accelerator Cities work on the multiple barriers.
- **A lack of a compelling offer** for homeowners has resulted in a **lack of demand**, that means that there is **no incentive for investment** in skills and the supply chain, which in turn **acts as a barrier to demand**.
- A collection of market and government failures.
- Requires national and local programmes to coordinate interventions.



National leadership

Construction Leadership Council have called for a **National Retrofit Strategy** to join up action across government and all stakeholders:

- a delivery system of interdependent modules
- a national retrofit agency with local delivery partnerships
- building renovation plans
- skills training modules and
- delivery programmes that incorporate area based approaches.

The Net Zero Strategy is yet to present this form of national delivery framework.

<https://www.constructionleadershipcouncil.co.uk/news/national-retrofit-strategy-v2-launches/>

The delivery system: Successful delivery of the strategy requires a suite of interdependent modules and if any are left out, the whole ceases to function. Each are dealt with in turn below.



Market transformation

Federation of Master Builders and CREDS have described the conditions necessary to deliver the market transformation at the scale and urgency we require:

- minimum standards
- better information
- financial incentives
- skills and supply chain development
- systems thinking and **behaviour change** across stakeholders.

BUILDING ON OUR STRENGTHS

A market transformation approach to energy retrofit in UK homes

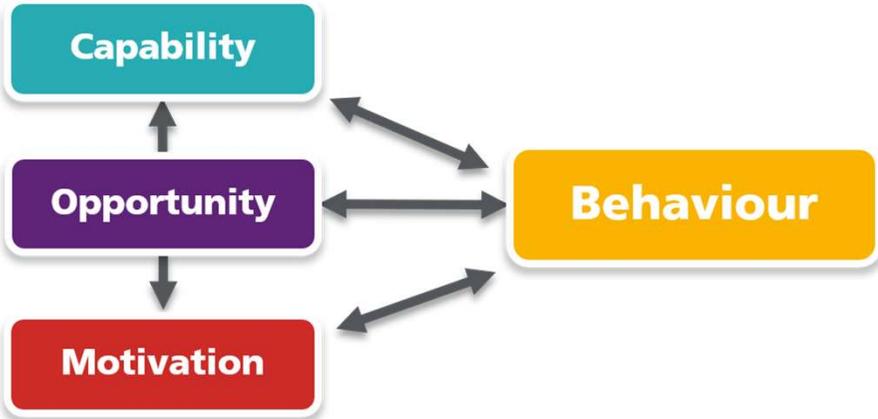
July 2021



<https://www.fmb.org.uk/resource/building-on-our-strengths.html>

The importance of behaviour change

COM-B (UCL)



The extent of the
Heat & Buildings Strategy

Heat & Buildings within the Net Zero Strategy

- Refers to the need for a whole systems approach
- Falls short of demonstrating how this can be achieved
- Focuses on technology and light touch government policy
- Minimum energy **targets** and cost reduction
- Doesn't address the behaviour change required across all stakeholders in the system
- Includes significant **work in progress**



HM Government

TOGETHER
FOR OUR
PLANET



Net Zero Strategy: Build Back Greener

October 2021



The role of
regional delivery programmes

UKGBC co-design process

- **UKGBC Accelerator Cities** programme is working with the MCS Foundation and national partners to develop a **delivery model**
- Joining up national and local government in implementing a **systems approach**.
- Leeds City Council, West Yorkshire Combined Authority, Greater London Authority and Greater Manchester Combined Authorities are pioneering partners
- Each developing their own systems approaches.

<https://www.londoncouncils.gov.uk/our-key-themes/environment/climate-change/retrofit-london-housing-action-plan>



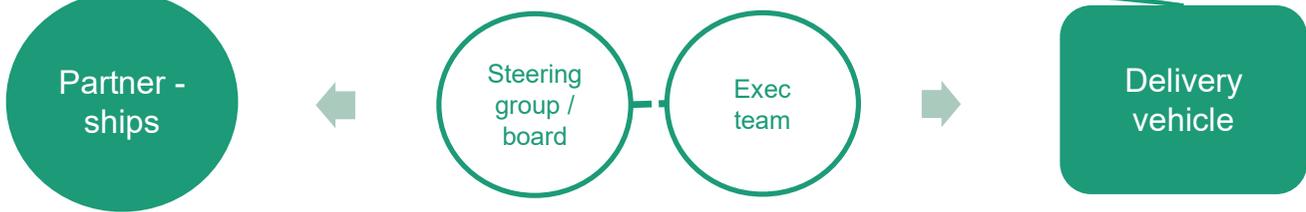
Retrofit measures and plans	
1	Improve the building fabric of London's inefficient homes
2	Develop a plan for retrofitting ventilation systems to improve health and air quality
3	Electrify heat
4	Deliver smart meters and demand flexibility (controls, storage) in retrofitted homes
5	Increase solar energy generation on London homes
6	Map out each building's journey towards lower energy costs and Net Zero
Delivery models, skills and supply chain	
7	Review current maintenance programmes and identify retrofit opportunities
8	Facilitate procurement of materials and services at a larger scale
9	Enable planning to facilitate low carbon retrofit, including in Conservation Areas
10	Develop retrofit skills actively across London
11	Set up a clear and consistent system to report and monitor progress (and success)
Costs, funding and finance	
12	Establish the cost of retrofit, business case and funding gap for the different tenures
13	Maximise capital finance for council owned stock (and eligible homes)
14	Create a 'Finance for retrofit' taskforce with finance experts
15	Support the owner occupier and PRS sectors to leverage private investment
Engagement, take up and lobbying	
16	Social housing: engage with tenants, leaseholders and other registered providers
17	Engage with owner occupiers and the Private Rented Sector
18	Lobby Central Government for more support, guidance and funding
19	Develop and implement the Action Plan together

The West Yorkshire Better Homes Hub

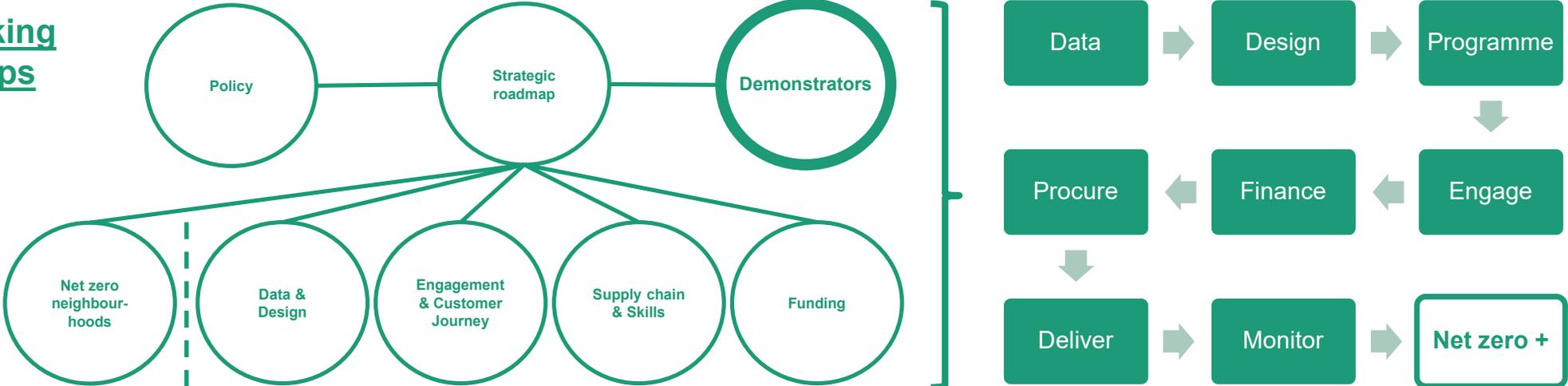
Stakeholders



Hub



Working groups



The opportunity for
net zero neighbourhoods

Leveraging social housing investment

- Working with local authorities and other social housing providers to act as foundational homeowners.
- Leeds City Council & West Yorkshire Housing Partnership have 175,000 homes
- Working with social housing stimulate the market in terms of demand, supply and finance.
- Demonstrate how its done and the benefits available,

Area based approaches

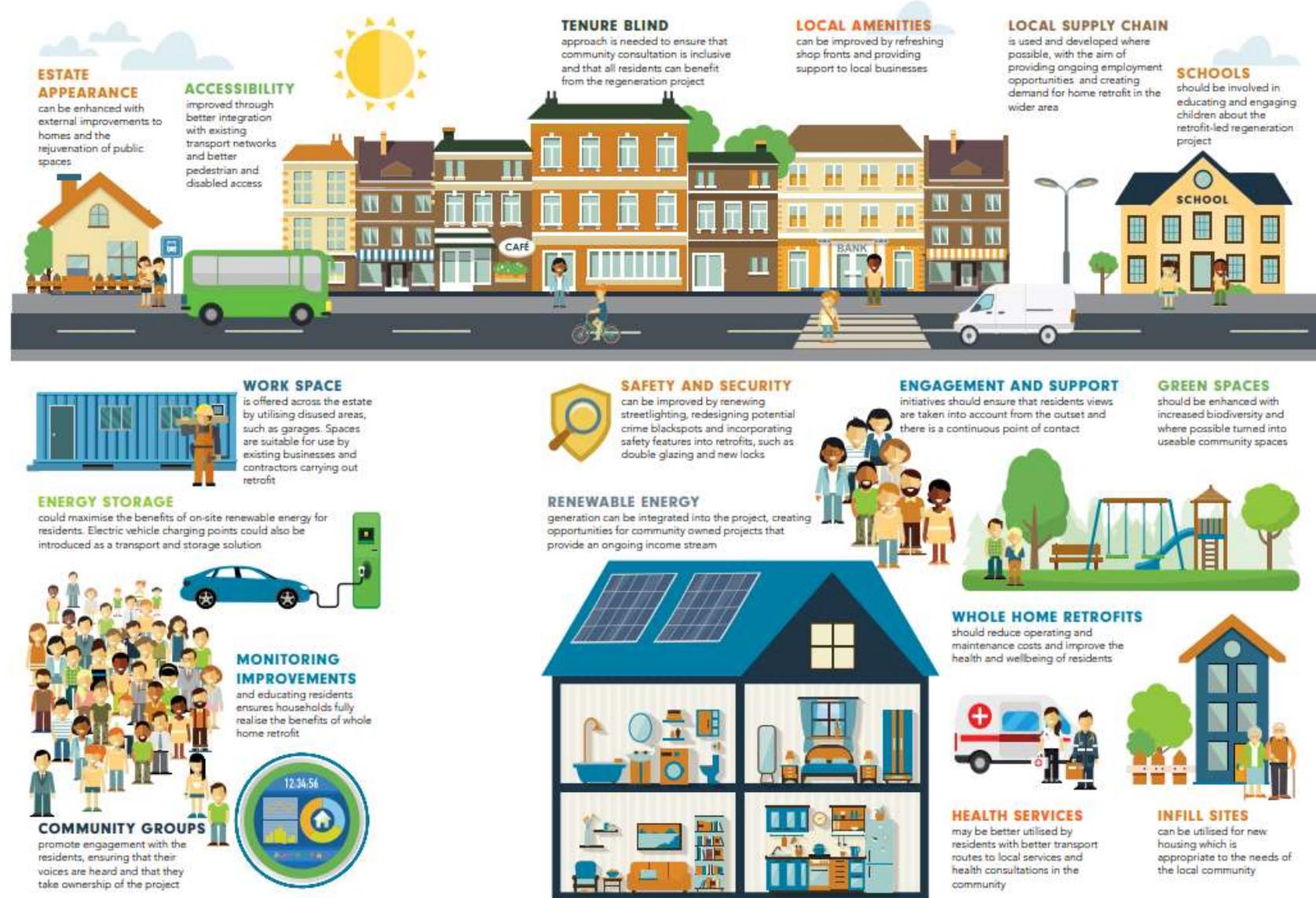


Benefits

- Optimised designs
- Regeneration
- Economies of scale
- Social impacts
- Local jobs
- Blended finance
- House values
- Community development
- Community based social marketing

Net zero neighbourhoods

- The aspirational vision for the UK's Net Zero Future works at a neighbourhood level
- Combining retrofit with wider regeneration, resilience, net zero and sustainability outcomes
- Addressing the priorities of communities as a means and an end to the transition.



Thank you!

