# Initial Refurbishment Ideas Verity Close

LANCASTER WEST NEIGHBOURHOOD TEAM







# With us tonight



James Caspell Neighbourhood Director



Andros Loizou Head of Refurbishment Design & Delivery



Bunmi Shekoni Refurbishment Design & **Delivery Project Manager** 



Alfie Peacock Refurbishment Design & **Delivery Project Officer** 



Janet Hall Heat Network Engagement Manager



# With us tonight



Lizzy Westmacott Project Architect



Niall OCleirigh Architectural Technologist



Jess Scott Engagement Lead





# Getting to know you





# Why are we meeting?

**1. Continue the co-design conversation** 

- 2. Share our current understanding of priorities
- 3. Discuss initial refurbishment ideas, capture ideas, concerns and questions

In following co-design meetings we will discuss preferred options, review feedback and develop final design proposals together.



# **Our shared vision**

1. A 21<sup>st</sup> century model for social housing

- 2. Homes that are carbon neutral by 2030
- 3. Co-designed with residents, sensitively and collaboratively







## **Building Element Ownership Matrix**

Building Element	Verity Close Houses & Flats (Tenanted)	Verity Close Flats (Leasehold)	Verity Close Houses (Right to Buy Leasehold)
Window frame (excluding glazing)	RBKC	RBKC	RBKC
Balcony doors and frame (excluding glazing)	RBKC	RBKC	RBKC
Window glass and apparatus	RBKC	Leaseholder	Leaseholder

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#### Verity Close Houses (Freehold)

Freeholder

Freeholder

Freeholder



# Your priorities

#### **Verity Close**

Refurbishment programme – flats



Kitchens

- Bathrooms
- Block entry system
- O Drainage
- **Soundproofing**
- **O** Windows
- O CCTV
- 8 Roofs
- Boiler
- Redesign the close

#### **Co-design update**

building on the Ideas Days of 2018, we have engaged over a six month period with residents from every block to establish their priorities, based on the budget secured and latest estimated costs.

We will use these priorities - together with surveys and frasibility studies undertaken throughout 2020- to shape block-specific refurbishment programmes, and deliver a 21st certury model estate. 35% Resident





#### **Verity Close**

Refurbishment programme – houses

Residents' top 10 priorities are:

- Soundproofing
- **2** Kitchens
- Bathrooms
- O Boiler
- 6 Electrics
- **G** Gate off the close
- Internal doors
- 8 Plumbing
- Orainage
- O CCTV

#### Co-design update

Building on the Ideas Days of 2018, we have engaged over a six month period with residents from every block to establish their priorities, based on the budget secured and latest estimated costs.

We will use these priorities – together with surveys and feasibility studies undertaken throughout 2020– to shape block-specific refurbishment programmes, and deliver a 21st certury model estate. 28% Resident participation







## **Current energy efficiency challenges**

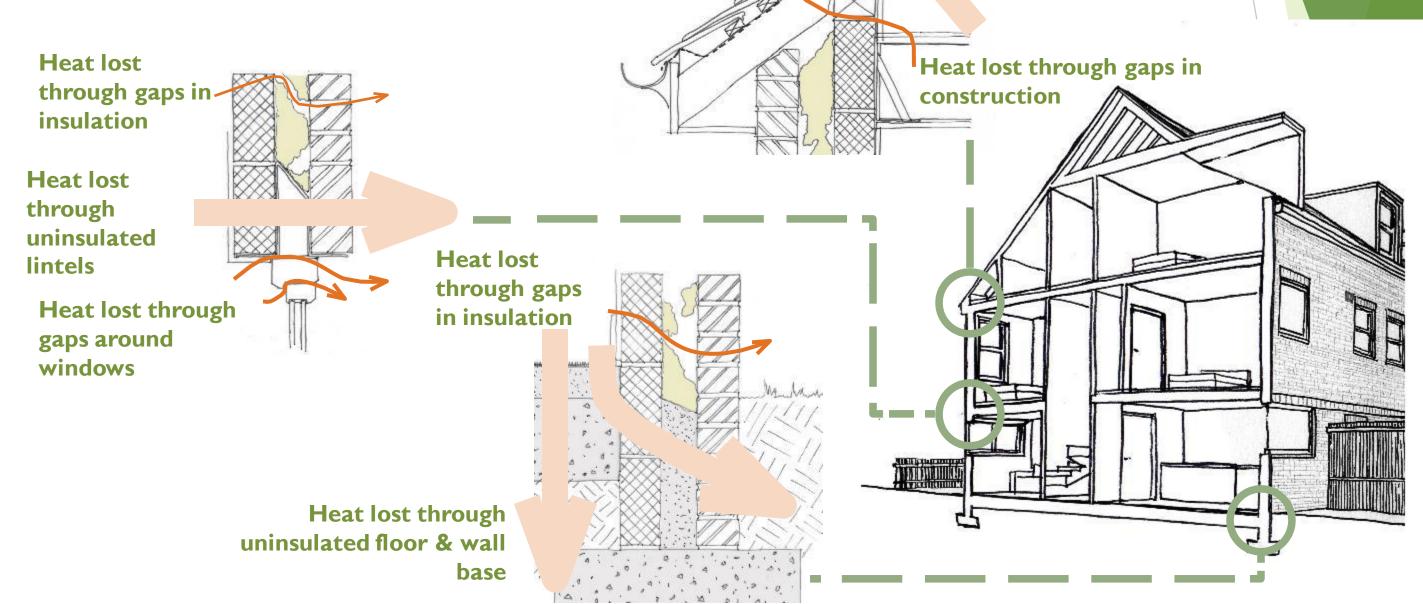








## How heat is lost now



Heat lost

through

insulated

poorly

roof



-

## **Energy Performance Certificates**

#### **Verity Close**

#### EPC

Rating	Homes	%
Α	0	0%
В	2	8%
С	15	57%
D	7	27%
E	2	8%
F	0	0%
G	0	0%
No EPC	42	-



#### 92% of residents have reported a heating and hot water issue in the last 6 months

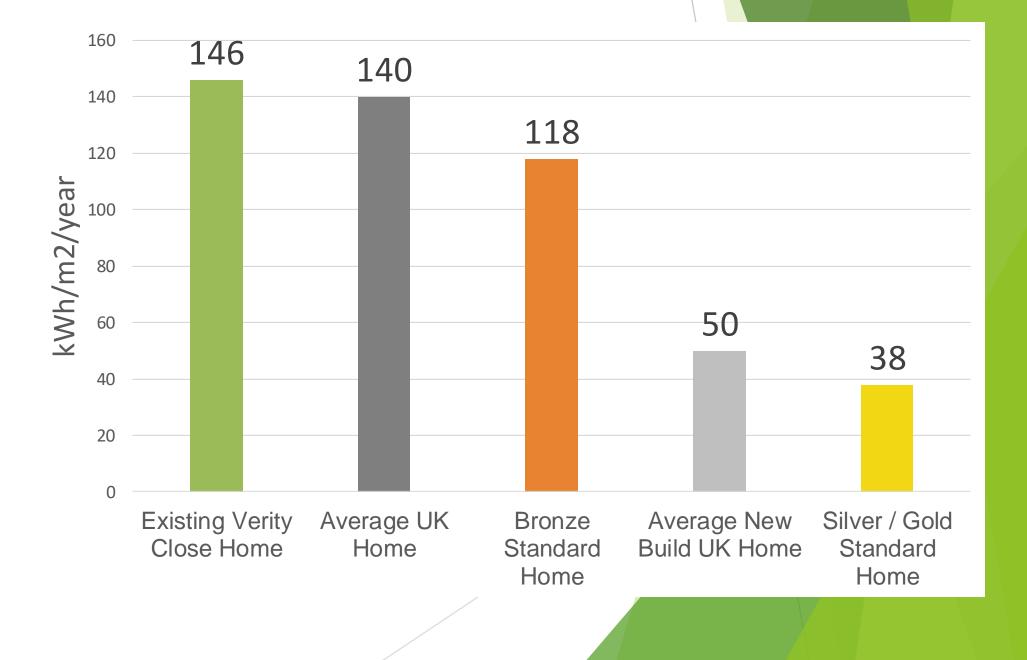
- 50 to 100% of residents
  - 20 to 50% of residents

Issue Type	Verity Close		
<b>General Repairs</b>	97.2%		
Heating / Hot Water	91.7%		
Plumbing	80.6%		
Leaks	58.3%		
Intercom / Door Entry / Locks	<b>83.3</b> %		
Electrical	11.1%		
Lighting	44.4%		
Windows	11.1%		
Drains / Gullies / Guttering	19.4%		



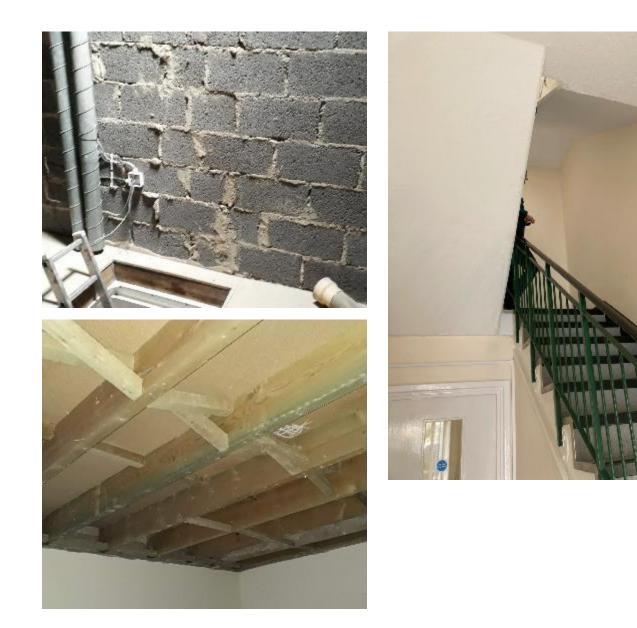
## Heating demand: Present and future

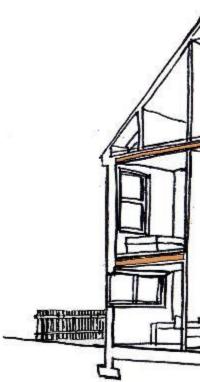
- Existing homes are fairly average for the UK
- Reducing energy demand will lead to more comfortable homes, reduced energy bills and fewer carbon emissions.





## Sound-proofing problems in flats and houses







#### **Communal entrances**







Is there anything else we need to know?





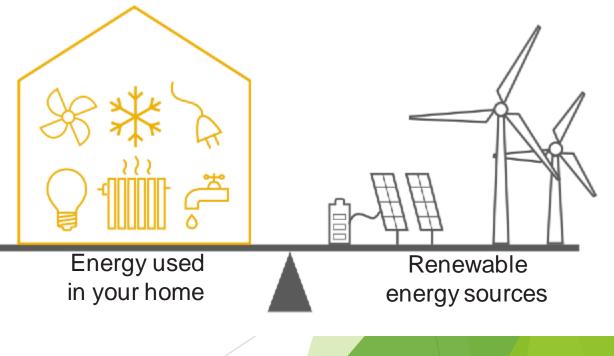


# A 21<sup>st</sup> century Verity Close

Net zero carbon – a balance between energy used in your home and what we can generate using renewable energy sources

Benefits beyond saving the planet!

- More comfortable homes
- Lower fuel bills
- Improved air quality

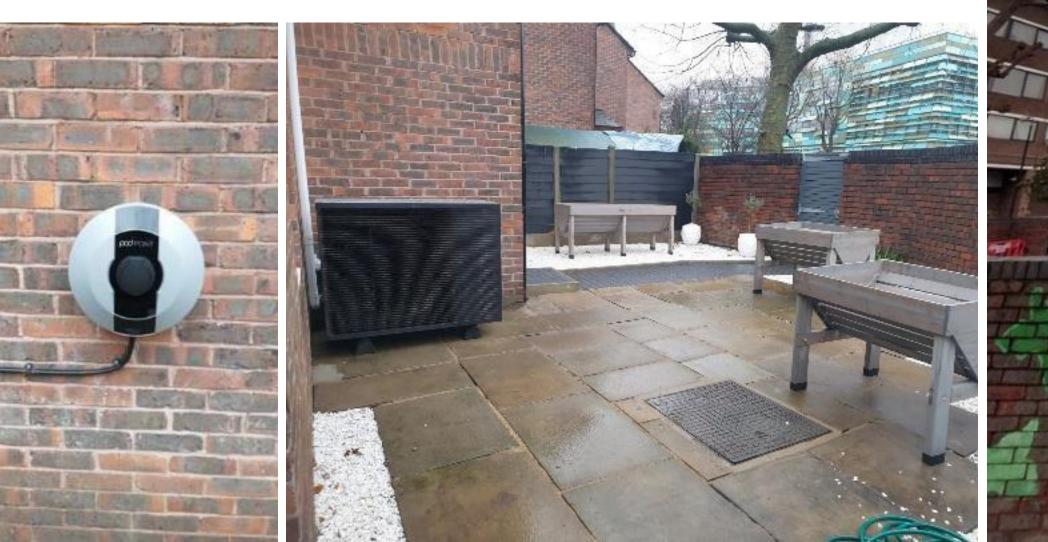


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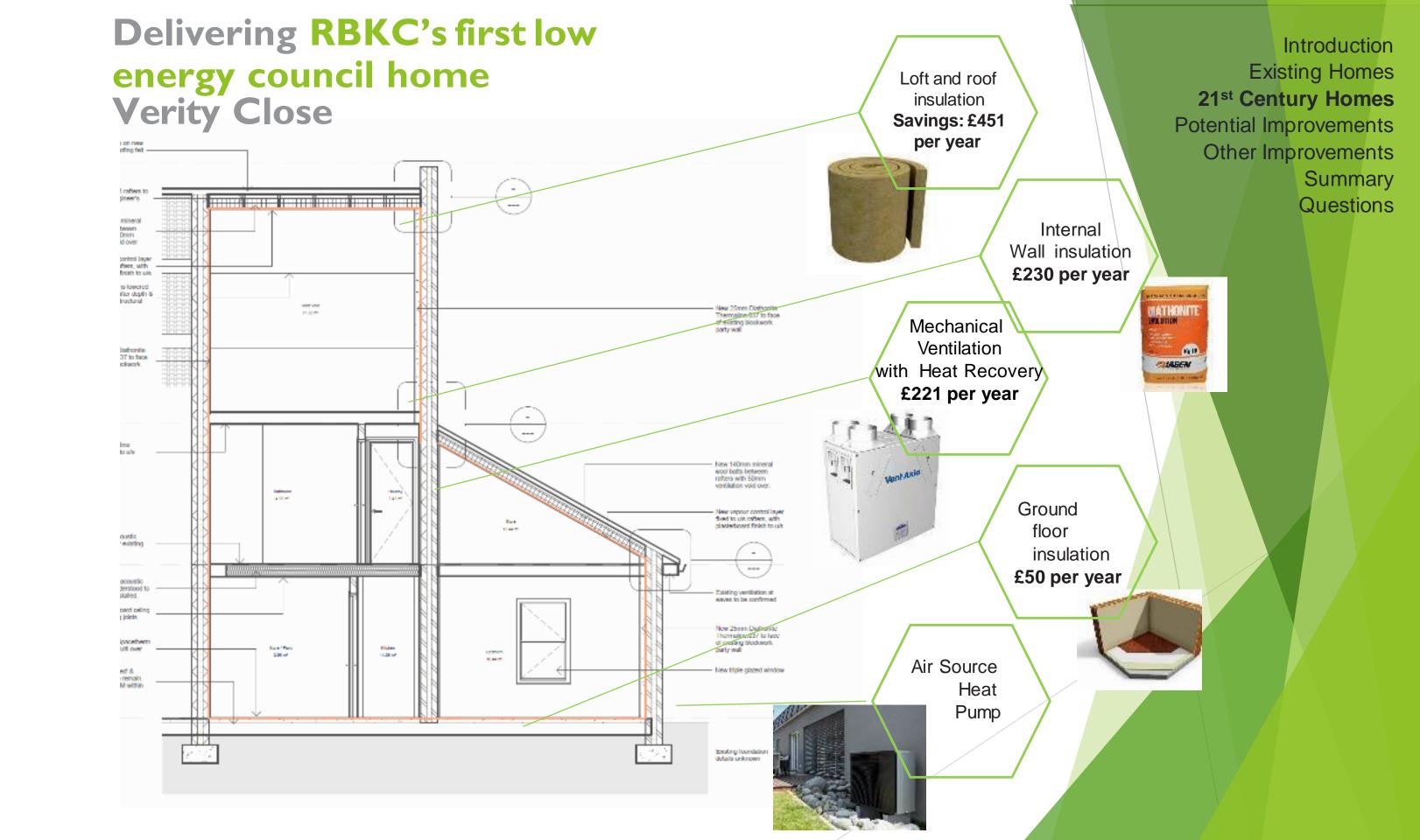
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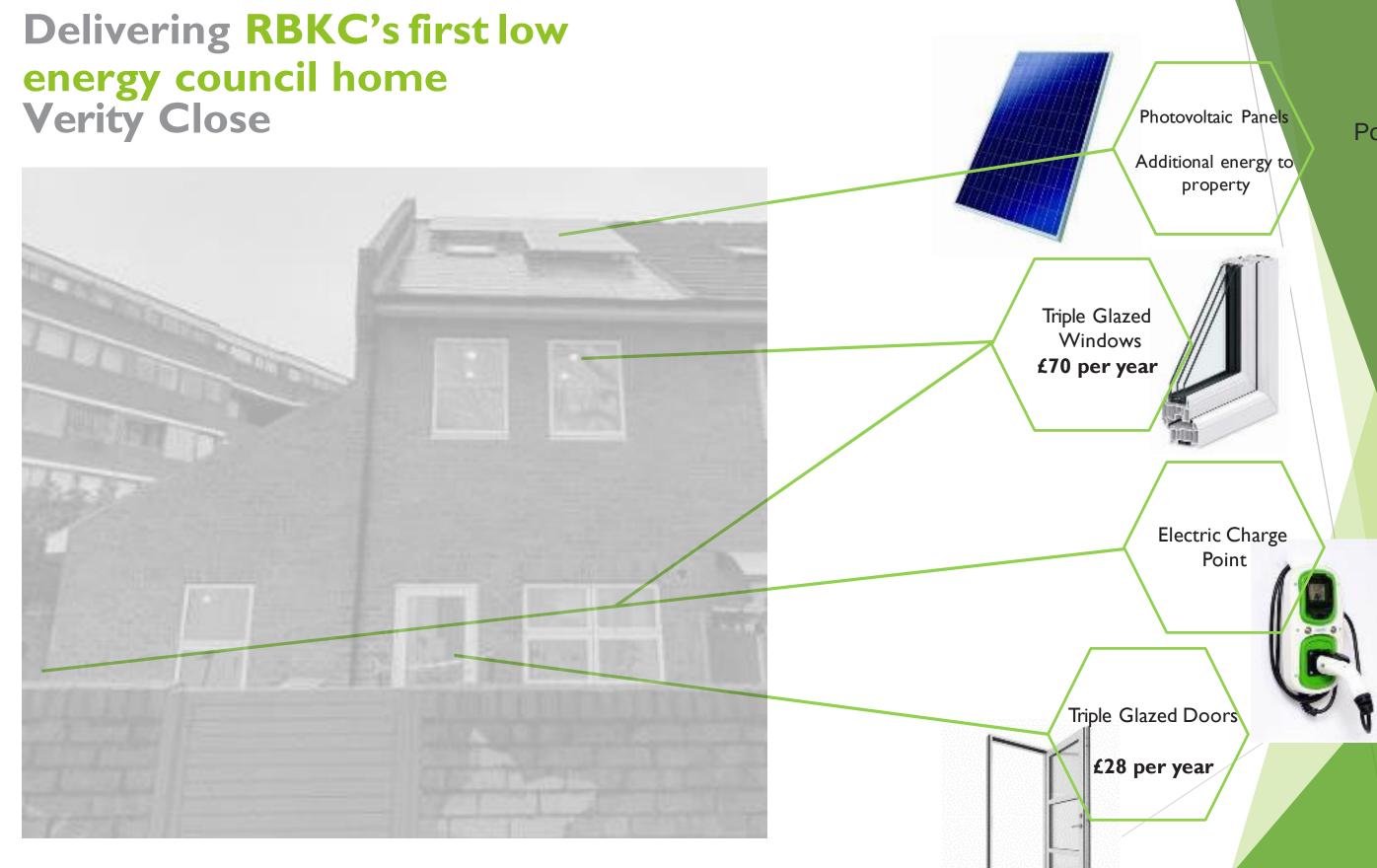
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## Delivering RBKC's first low energy council home Verity Close











## **Maximizing fire safety**

- Fire safety is our priority
- An independent fire consultant has been appointed to ensure the compliance of all refurbishment works with fire safety regulations
- We will only use materials with the highest safety rating (A1 or A2) on external building layers

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HM Government

The Building Regulations 2010

#### Amendments to the **Approved Documents**

Document: Approved Document B: Fire safety Volume 1 – Dwellings Volume 2 – Buildings other than dwellings 2019 edition

May 2020

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NE VERSION

This document contains amendments to the following Approved



# A game!

Which one do you think is a super efficient, highly insulated house with triple glazed windows?





## This one!







# **Possible improvements**







## Walls: Close up cracks & openings **Bronze standard**









## **Roof: Increase loft insulation Bronze standard**









## **Replace windows and some doors Bronze standard**











## Mechanical extract ventilation Bronze standard

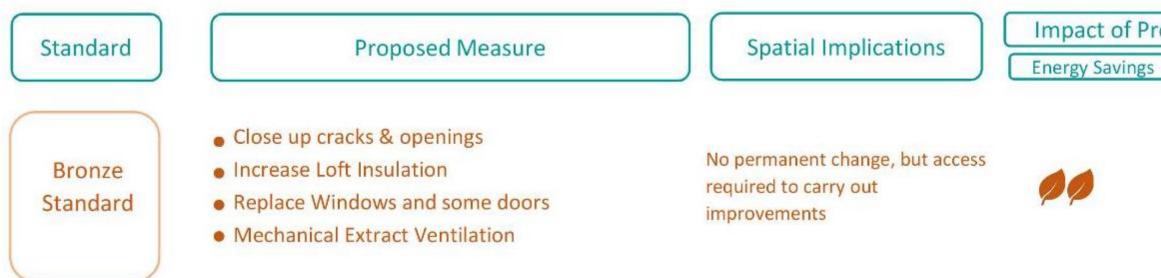








## Benefits of bronze standard for you



- Less draughty home
- Heat loss reduced around 1/5
- Less risk of mould

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Impact of Proposed Works
Energy Savings
Bill Savings







## Walls:External Wall Insulation, or...





#### Pros

- Warmer homes
- Continuous line of insulation avoids cold spots
- Less internal disruption, no decant required
- No internal area loss
- Opportunity to co-design new facades

#### Cons

- Rainwater pipes, gutters etc need moving
- Impact on gardens during works







## ...Internal Wall Insulation Silver standard



#### Pros

- Warmer homes
- External appearance unchanged



#### Cons

- Disruption inside home decant necessary
- Less thick insulation to avoid moisture risk, therefore less effective
- Loss of internal area (1-5%)
- Impact on finishes & fittings
- Gaps in insulation at some junctions





## Roof: Insulation between and over rafters or complete new insulated roof Silver standard







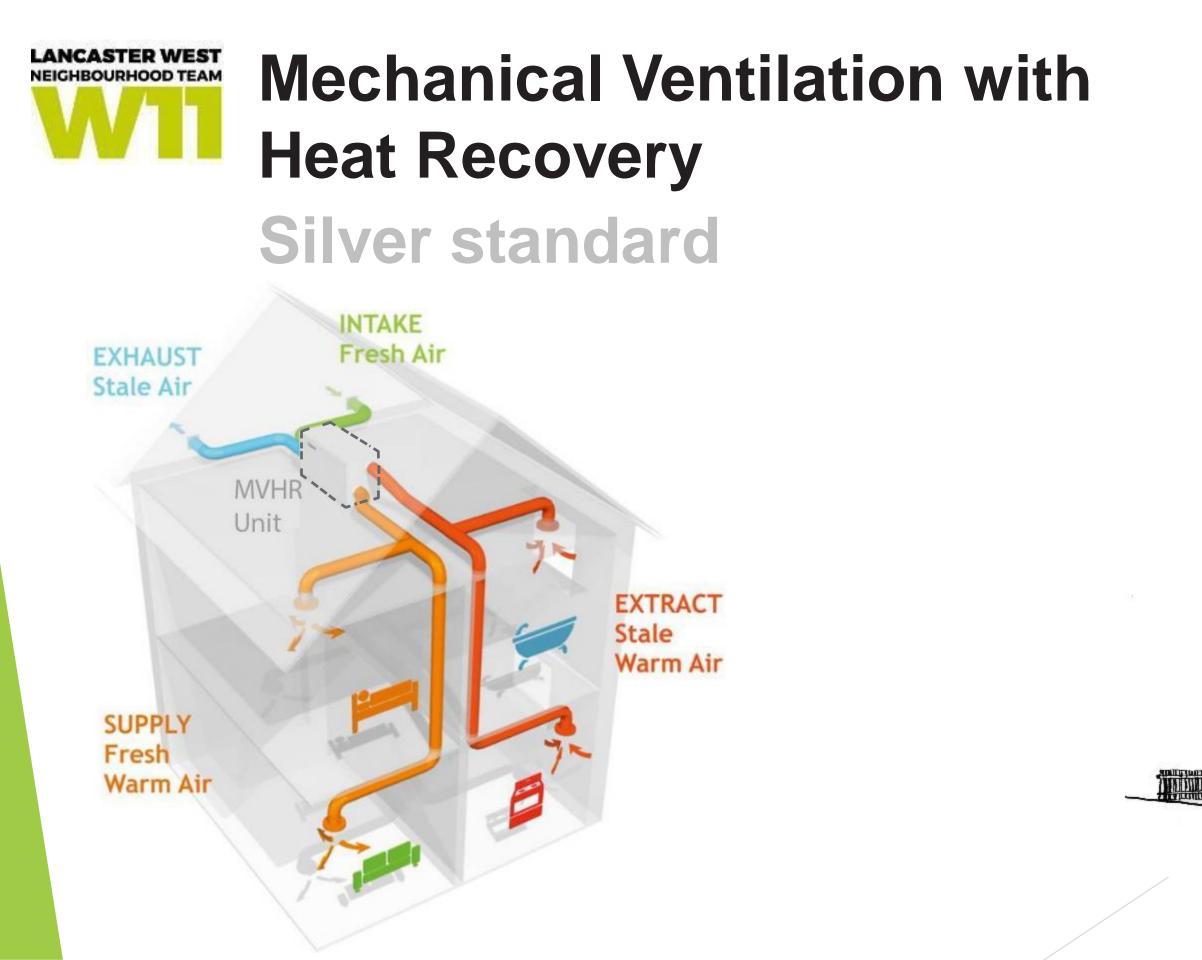
## Windows: New triple glazed windows & insulated doors Silver standard

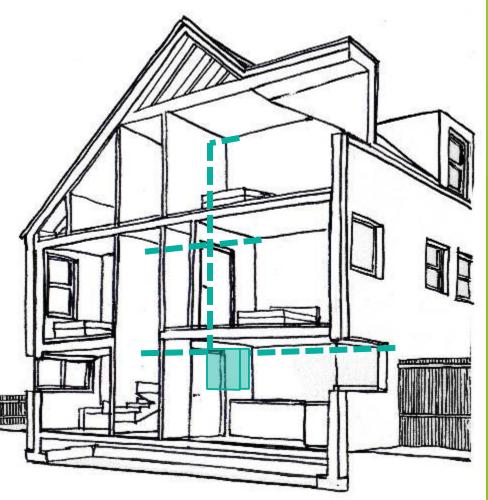


#### **Benefits of triple glazing**

- Further reduced heat loss
- No draughts by windows
- Better sound-proofing
- Further reduced energy bills

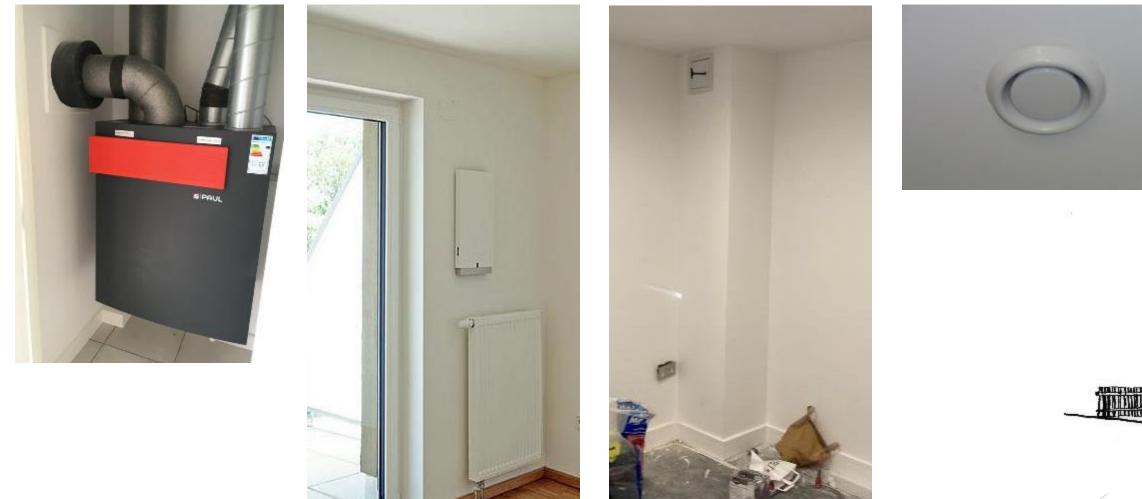








## **Mechanical Ventilation with Heat Recovery Silver standard**



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# 



## Individual air source heat pumps Silver standard







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# Benefits of silver standard for you Silver standard



- Draught free home
- Heat loss reduced <u>around 3/4</u>
- Reduced overheating

- All areas of house are warm
- No gas use, so better air quality

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Impact of Proposed Works Energy Savings Bill Savings







# Gold standard Photovoltaic panels









# **Gold standard**

### Benefits of gold standard for you



- Further reduction in energy bills
- Reduced carbon footprint
- Reduces likelihood of further disruption to become zero carbon

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Impact of Proposed Works **Bill Savings** 





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# Soundproofing Other improvements





- Install new insulation between joists
- Install new plywood, screwed to existing joists
- Install new acoustically absorbent layer
- Replace floor finish





# Waste Strategy & Entrances to Flats Other improvements

- More welcoming appearance focused on entrance door
- Smaller entrance structure but more generous space inside
- New front door with video entry system
- Slightly larger front garden space
- Work with us to design this...





# Waste Strategy & Entrances to Flats **Other improvements**

- Opportunity to encourage recycling and food waste composting
- Move dominating refuse stores from by front doors
- Create new more welcoming entrances





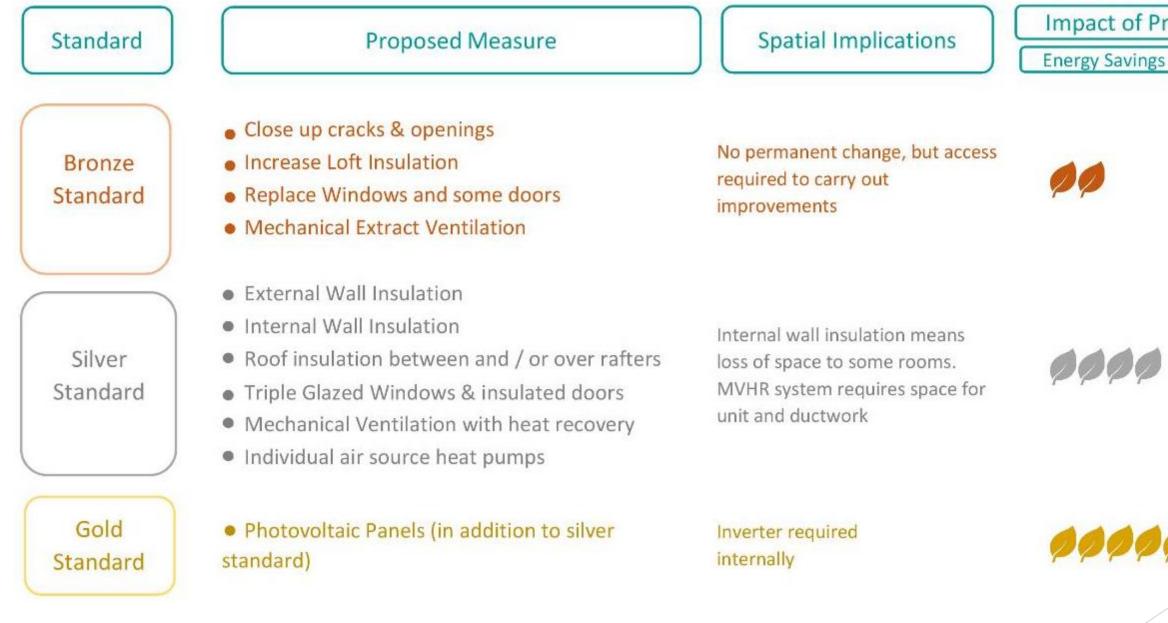


### Waste Strategy & Entrances to Flats **Other improvements**





# Summary



Other works: sound proofing, waste strategy & entrances to flats

Introduction **Existing Homes** 21<sup>st</sup> Century Homes **Potential Improvements Other Improvements Summary** Impact of Proposed Works Questions **Bill Savings** £ £££ ££££



# Any Thoughts, Ideas or Questions

Over the coming weeks, we'll discuss the benefits and implications of the different works.

But for now we'd love to hear your thoughts on the options we've presented...

If you'd like to follow anything up, contact:

Telephone: 0800 389 2005

Email: lancasterwestoffice@rbkc.gov.uk



# Next Steps: Surveys

We'd like to conduct three additional surveys so we can understand how your homes works more fully

- Measured survey
- Thermal monitoring
- External thermographic imaging

(all conducted in compliance with Covid19 regulations)

These surveys will enable us to deliver the best possible refurbishment we can





# Call for volunteers #1 Measured survey of the inside of homes

This survey records the internal layout of the flats which will assist us in the design process

It involves a surveyor spending 5-10 minutes in each room, taking measurements of walls using a laser scanner







# Call for volunteers #2 Thermal and humidity sensors

This survey monitors thermal and energy data

It involves installing a small temperature and humidity sensor inside your flat. It takes about 5-10 minutes to install, and is left to gather data for about 3 weeks

These monitors are already in use at Treadgold House





### **External thermographic images**

This survey helps us identify areas of your block where heat is being lost

It takes place outside, from the afternoon and through the night. It involves surveyors using special cameras to capture images of the building's facade

We'll let you know when this survey is taking place and ask you to keep windows closed and flats warm while it is. This will help us gather the most useful information Introduction Existing Homes 21<sup>st</sup> Century Homes Bronze Standard Silver Standard Gold Standard Other Improvements Summary Questions





# Your future heating and hot water options

Janet Hall Heat Network Engagement Manager

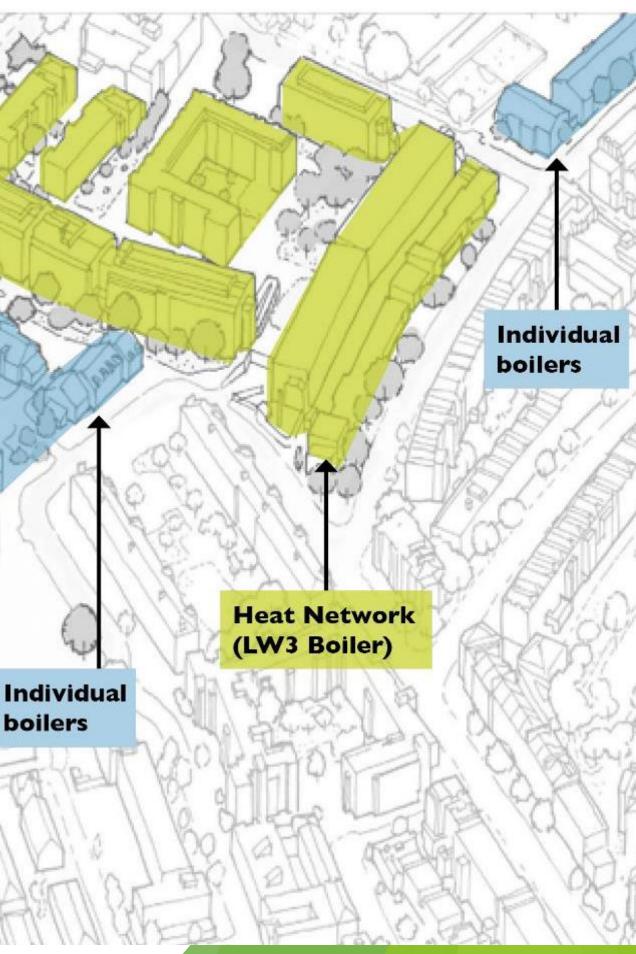




- 80% of homes are heated by gas via an existing heat network
- 20% of homes have an • individual gas boiler

**Heat Network** (LWI Boiler)

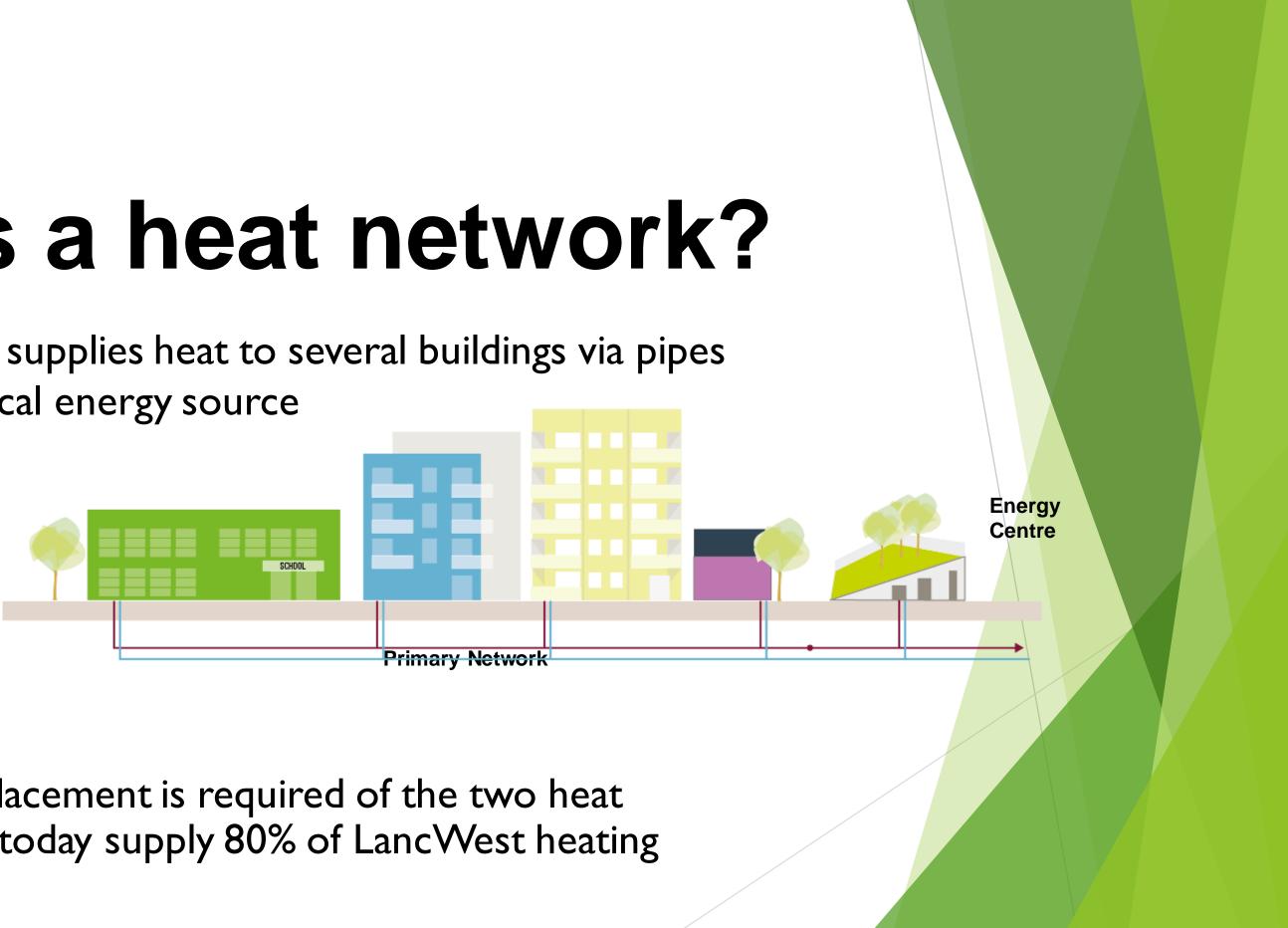
boilers





# What is a heat network?

It is a system that supplies heat to several buildings via pipes connected to a local energy source



Renewal and replacement is required of the two heat networks, which today supply 80% of LancWest heating



# Future Heating Co-Design

#### Feb / March 2021

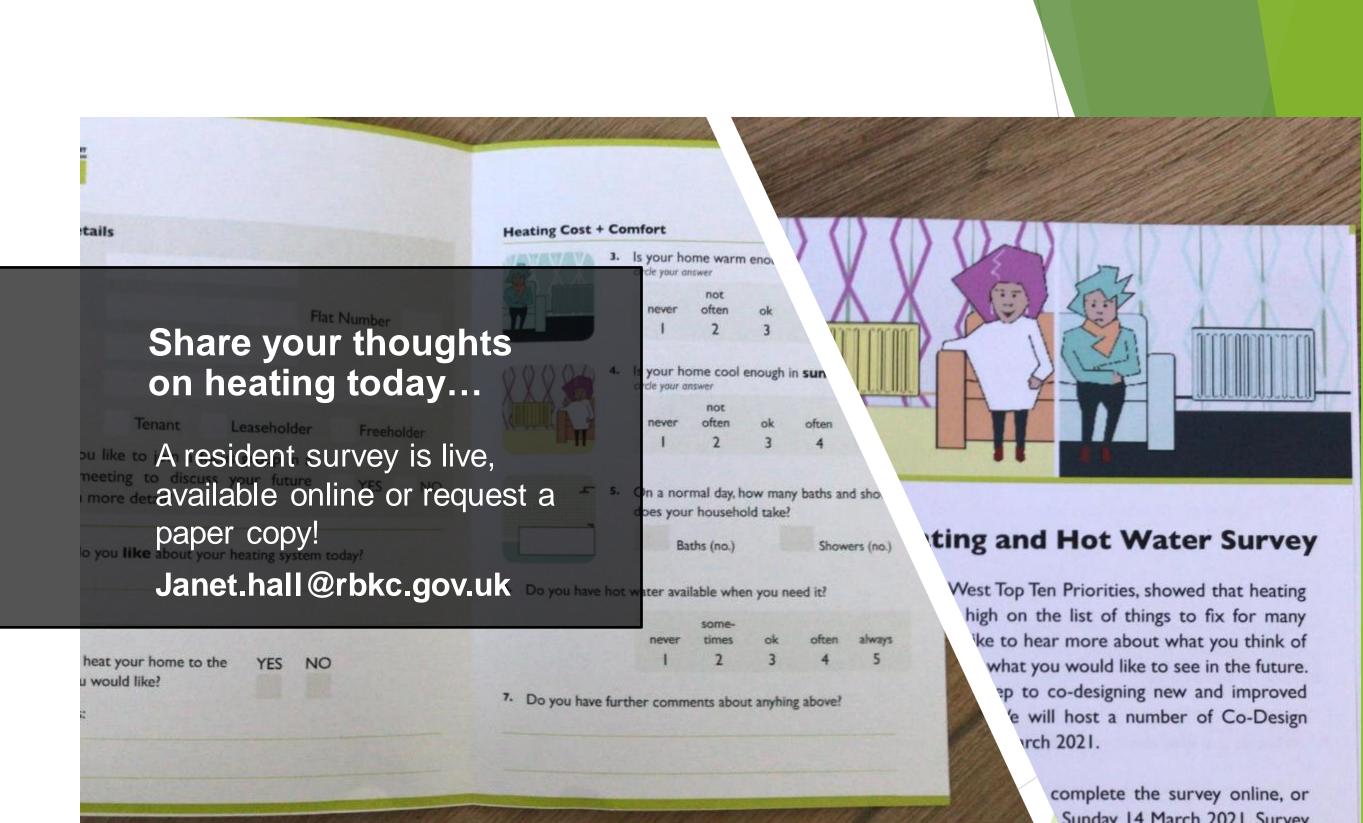
Technical teams are doing surveys to find out *what is possible*. Here we are testing if we can take heat from waste water!

#### March / April 2021

We will share the heating options for resident review and co-design







Sunday 14 March 2021. Survey



# Continuing the conversation...

Future co-design meetings will focus benefits and implications, and the look and feel of the buildings

Before our next meeting we will share with you

- Summary letter and leaflet
- This presentation
- Feasibility report in print and online
- Pop-up event and 1-2-1 surveys



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# Thank you for joining us! Any final questions, thoughts or ideas?

Your feedback is important

If you'd like to follow anything up, contact:

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Email: lancasterwestoffice@rbkc.gov.uk

