

# **Healthy Home Upgrades for All**

Proposed programme – funding allocation unconfirmed

**Objective:** Ensure the mass upgrade of homes over the next two decades leads to healthier, more comfortable environments that improve health and wellbeing in a financially secure way, while reducing emissions to net zero.

# **Buildings and Health – areas of focus**

#### Winter heat

old & inefficient housing leads to 11,500 early winter deaths

#### **Noise pollution**

societal cost of urban road traffic noise in England £7-10 billion a year

#### **Outdoor pollution**

human-made air pollution leads to 48,600 adult deaths every year



#### **Pregnancy**

Low birth weight

#### Children

Asthma
Slower development
of lung function

Development problems

More wheezing and coughs

Start of atherosclerosis

#### Adults

Asthma

Coronary heart disease

Stroke

Lung cancer

Chronic obstructive pulmonary disease

Diabetes

#### **Elderly**

Asthma
Accelerated decline in lung function

Lung cancer Diabetes

Diabete

Dementia Heart attack,

Heart attack, heart failure and stroke

#### Summer heat

related
deaths expected to
more than triple to
7,000 a year by 2050s

#### **Indoor air quality**

80% rise in asthma diagnoses by 2050 if no action is taken

#### Ventilation

damp & mould costs the NHS more than £380 million a year

Faculty of Public Health



Improved indoor air ventilation and filtration can dramatically reduce airborne virus and disease such a Covid-19 which led to 7m deaths worldwide

# **Building on UKRI investments**

#### **MRC**

## Realising the health co-benefits of the transition to net zero

Transdisciplinary research hub towards realising the health co-benefits of the UK transition to net zero 2024-2029

#### AHRC

# Transforming Housing For Future Generations

Design, test, implement and monitor innovative prototype solutions to improve quality of existing housing 2023 - 2025

# Energy Systems Catapult Warm Homes Prescription trial

Exploring how providing a low carbon warm home can improve people's health and reduce their use of the health service

2022 – to date

#### Innovate UK

#### **Net Zero Heat programme**

Removing barriers to innovation towards a faster shift away from gas for heating space and water in buildings

2022 – to date

#### **ISCF**

#### **Healthy Ageing**

Help people remain active, productive, independent and socially connected across generations for as long as possible 2019-2025

### Innovate UK

#### **No Limits**

Transforming the UK's skills and talent pipeline by inspiring and connecting people to new opportunities.

2024 – to date

#### **UKRI**

# The Strategic Priorities Fund Clean Air Programme

Developing solutions for air quality issues to protect health and support clean growth 2019 - 2025

# Connected Places Catapult Retrofit of Homes for Health and Resilience Project

Accelerate retrofit programmes to achieve better health and climate resilience outcomes in private residential properties.

2023 – to date

# UKRI **Public Dialogue**

Citizen views gathered to understand how to make net zero policies accessible and affordable for different households.

2024 – to date

### **Aims**

#### **Strand One**

- Landscape mapping, literature review and gap analysis
- Embedding a householder led, codesign approach
- Building narrative and story



We Can Make



## **Aims**

#### **Strand Two**

- Collaborative R&D: solutions
- Skills and workforce
- Data
- Routes to finance





## **Aims**

#### **Strand Three**

- Place-based interventions and testing
- Scalability and sustainability



Transforming Homes



# **Looking forward**

- Spending Review allocation process
- Time to share evidence and ideas
- If allocation is received, hopeful for April 2026 four-year programme
- Net Zero Heat bulletin





