#### Environmental *Change* Institute



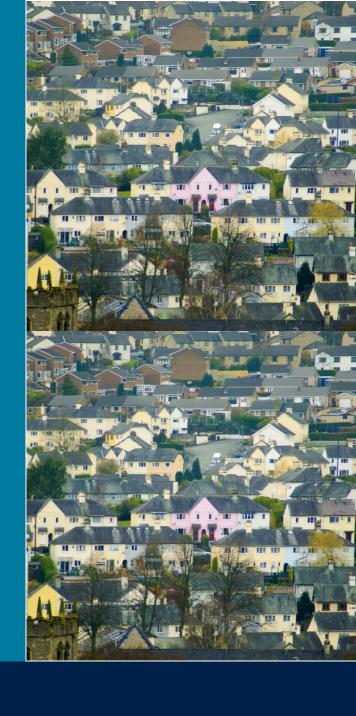




# **Retrofit Salary Sacrifice:**

A financial incentive to help decarbonise owner occupied houses.

Marina Topouzi

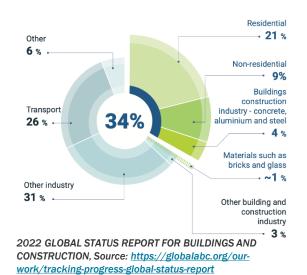


# What is the problem to solve

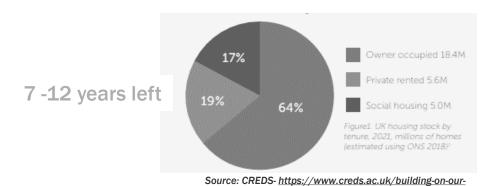
### **Problem**

### **Decarbonise the building sector**

Global share of buildings and construction final energy demand, 2021



## Part of the Solution Improve the building stock



"The decarbonization and sustainability transition of the built environment remains "not on track".

United Nations Environnement Programme 2022

Policy(ies) that create
DEMAND
for RETROFIT uptake





strengths-transformation-to-energy-retrofit/



## **Barriers to Retrofit**

Engagement, outreach, targeting



Policy to create a long-term market for retrofit

Awareness and Trust of the retrofit process

Policy consistency, Regulation and standards

**GOV.UK** 

Finance and Incentives to retrofit

**Supply Chain** 

capacity and skills



housing retrofit. A joined-up, crosssectoral approach is needed



"Energy retrofit must become embedded into the everyday practices of builders"

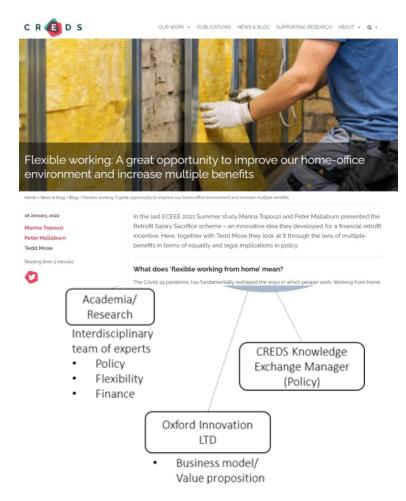
Finance and fiscal measures



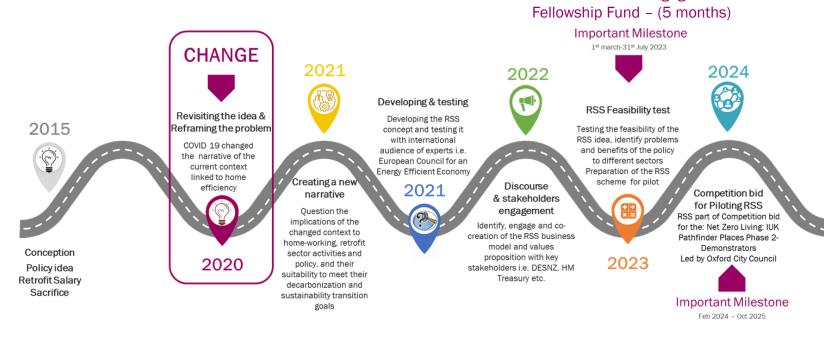




# Developing a financial incentive for retrofit



### **Retrofit Salary Sacrifice scheme**



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Social Sciences Engagement





## Changes in context related to Home Efficiency



Working patterns increased WFH



Energy security concerns





Construction industry challenges



Risks of lending

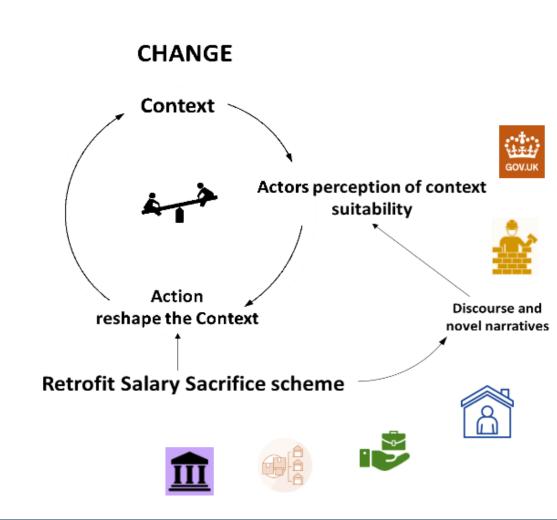
change in **working patterns** increasing working from home

**geopolitical change** war in Ukraine changed energy security

extreme temperatures change building performance, comfort, efficiency & fuel costs

change in retrofit standards, retrofit professionals and 'culture change' to meet at speed, scale and quality retrofit targets

change in **interest rates**, less flexible financial products









## Rationale: Retrofit Salary Sacrifice scheme

### **Successful salary sacrifice schemes**



**UKGB 2013** 

one policy solution to tick all boxes and solve the problem of the whole housing sector

### **Green Finance Institute 2020**



lending product for owneroccupied with a number of potential delivery partners

### problem



create demand for retrofit uptake

### What is different:



### Salary sacrifice scheme:

employees getting a loan through their employer for home energy improvements, which is repaid via gross salary contributions







# Why RSS is different ...

#### A.Builds on

- Government's Net Zero objectives without raising taxes
- Salaried 'able-to-pay' homeowners for flexible 'future work' patterns
- Existing retrofit services (OSS-CosyHomes), and mechanisms for quality assurance of works and price control of suppliers (PAS), and retrofit roles (and accredited installers (Trustmark)

#### D. Facilitates

- Access to retrofit planning advice and finance with customer/employee centred 'service' for retrofit and RMI
- Investment in retrofitting without upfront costs and without affecting credit scores

....'able-to-pay' doesn't necessarily mean 'able-to-retrofit' if there isn't any incentive and support in customer's retrofit journey (BEIS, 2021a)

#### **B.** Prioritises

- Evaluation & 'understanding-first' the existing building condition, and Retrofit and Repair Maintenance & Improvement (RMI) planning

### C. Creates

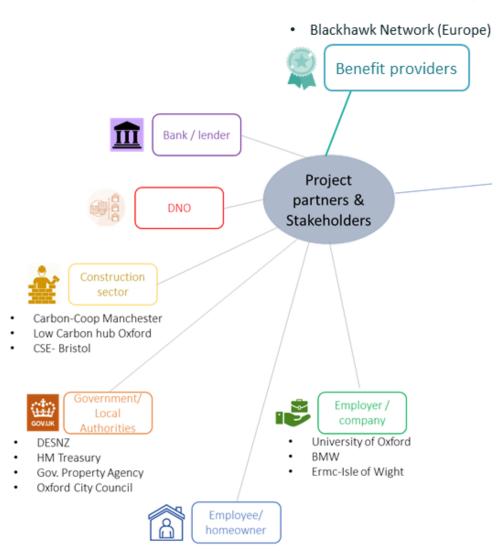
- New narratives for home efficiency and trigger for 'homeoffice' improvement
- New narratives on employment relationships
- New narrative for employers addressing Scope 1-3 of their direct/indirect carbon emissions
- Leverage for additional demand for retrofit 'service' and professionals/roles







# Testing the feasibility of the RSS idea



ESRC IAA/HEIF Social Sciences Engagement Fellowship Fund (March 2023 5 months)

### **Research question**

"How can working from home (WFH) arrangements between employers and employees stimulate the demand for retrofit measures in private-owned homes?"

#### **Data Collection:**

- Online survey to 5 stakeholder groups (n=70).
- Half-day online workshop (n=18).
- One-on-one conversations and meetings (n=45).

### Key areas explored:

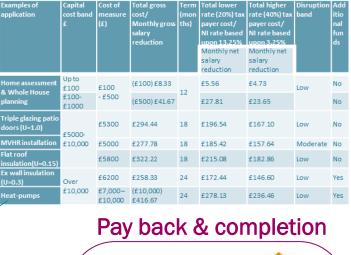
- identify where value will be delivered by RSS and to which sectors/stakeholders
- what additional benefits/barriers are associated with these value streams
- how do these **benefits/risks** compare with alternative interventions



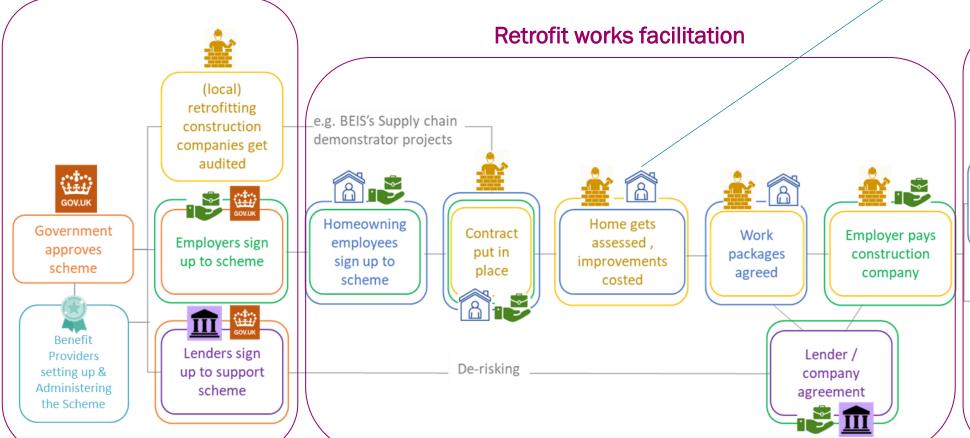




## Retrofit Salary Sacrifice business model



#### Retrofit scheme administration









Retrofit

to lead

market

# Stakeholder Perspectives: Value & Beneficiaries (1/2)

Retrofit Salary Sacrifice: Value and Beneficiaries		GOV.UK	$\hat{\mathbf{m}}$
1. Financial Accessibility & Affordability			
homeowners and the construction sector accessibility of funding and finance for retrofit works.			
Employers, as a benefit to staff retention, which indirectly ties to financial incentives. Banks and lenders,			
emphasize the reduced risks and benefits tied to the RSS scheme structure with employer as intermediate			
2. Carbon Reduction & Environmental Goals			
Homeowners, benefit in carbon emission reduction. Governments and local authorities as a means to			
achieve their net zero targets. Employers, as a means to meet their own carbon reduction goals, and			
banks & lenders align it with their sustainability goals.			
3. Economic and Socio-Economic Benefits			
Homeowners, benefit from savings through reduced energy consumption. Governments and local			
authorities see job creation and positive contributions to the broader economy, while the construction			
sector views it as market stimulation and a boost for the supply chain			
4. Convenience and Practicality			
For homeowners, direct deduction from salaries simplifies the payment process. Employers see the			
scheme as enhancing the work environment, particularly in the context of home/flexible working			
arrangements.			
5. Quality and Assurance			
The construction sector places emphasis on quality assurance through accreditation, ensuring high-			
quality delivery and reinforcing customer trust.			

# Stakeholder Perspectives: Value & Beneficiaries (2/2)

Retrofit Salary Sacrifice: Value and Beneficiaries











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5. Quality and Assurance				
The construction sector places emphasis on quality assurance through accreditation, ensuring high-				
quality delivery and reinforcing customer trust.				
6. Risk Management and Trust				
The construction sector emphasizes the mitigation of risks associated with payments and aims to build				
trust through quality assurance. Banks and lenders focus on risk management with the structure of the				
RSS scheme.				
7. Enhanced Reputation & Value Proposition				
Employers see the scheme as reinforcing their eco-conscious reputation. The construction sector views it				
as a means to enhance their reputation and prepare for future demands. Banks and lenders see ethical				
differentiation and alignment with sustainability goals.				
8. Policy Alignment and Utilization				
Governments and local authorities can leverage existing policies with the RSS schemes, utilizing familiar				
mechanisms for implementation.				
9. Engagement and Market Stimulation				
Governments aim to engage more businesses in the retrofit initiative. The construction sector sees the				
scheme as stimulating retrofit demand and promoting supply chain growth				



# Perceived challenges & potential barriers/risks



What if employees aren't interested?

Authorities



How do we make it fair to those who aren't homeowners?



What happens to the loan if I leave the employer providing the scheme?



How do we ensure consistent quality of delivery without making certification onerous?



How do we minimise administrational complexity, quality assurance and attractiveness to homeowners?







# Summary

#### What did we learn?

### A. Unique Value of RSS Scheme:

**Intensified diverse routes for delivering** value from an RSS scheme with additional benefits that are harder to deliver with other retrofit programmes for the home-owner able to pay sector.

### **B. Leveraging Past Experiences:**

There exists a **vast reservoir of insights and in place mechanisms and services f**rom other retrofit pilots that can be instrumental in crafting an effective RSS scheme.

### C. Detail-Oriented Planning:

For a successful pilot and subsequent rollout, **attention to detail** is crucial. It is vital to **define clear** roles, responsibilities, manage cash flows, and establish robust risk management mechanisms.





## **Conclusions**



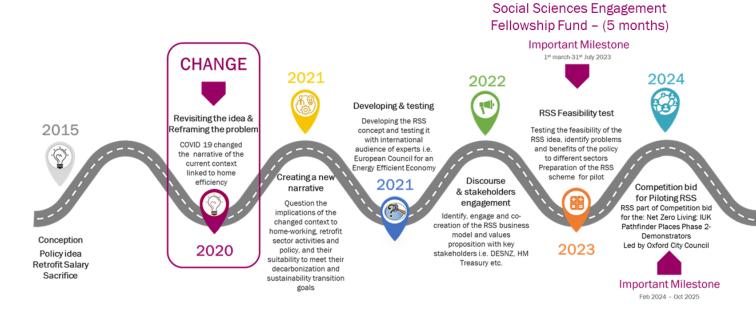






- Context and time
- Identify the change
- Discourse and novel narratives
- Engagement with stakeholders & project partners

### **Retrofit Salary Sacrifice scheme**



### Next steps

Planning and developing the routes for delivering the RSS pilot - the Net Zero Living: IUK Pathfinder Places Phase 2 - Demonstrators Competition bid





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# Thank you

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