

# DEMOLITION ZERO - INTRODUCTORY SESSION

4<sup>TH</sup> AUGUST 2021 - MEETING STARTS AT 12.30



# AGENDA

TOPIC	PRESENTER
Introduction and purpose of this session	Howard Button
NFDC update - wider industry collaboration to reduce carbon	Howard Button
Construct Zero Framework document – Possibilities for Demolition Zero	Howard Button / Members
<b>Initial Discussion Topics:</b> <ul style="list-style-type: none"> <li>• <i>‘Red diesel versus HVO’</i> – member opinion to steer NFDC standpoint</li> <li>• <i>‘Refurbishment versus demolition – the reality’</i></li> <li>• <i>‘Recycling is past - re-purposing and re-use is future’</i></li> <li>• <i>‘What are you doing to champion carbon change?’</i></li> </ul>	Members
Demolition Zero Working Group	Howard Button



90 MINUTES

# INTRODUCTION

## THE CASE FOR CHANGE...

- Pan-industry sustainability targets & expectations:  
“collective action to address the challenge of climate change and achieve net zero carbon emissions in the UK by 2050.”
- Speculation on demolition industry carbon impact
- Need for industry leadership on key issue – NFDC has become a ‘CZ Partner’
- Carbon responsibility = credibility, social value & reputational benefits

## THE PURPOSE OF THIS INTRODUCTORY SESSION...

- Share information on current situation
- Prompt initial discussion amongst the membership
- Highlight top issues for NFDC to address
- Record member interest for ‘demolition zero’ working group
- Start defining realistic NFDC deliverables





# NFDC UPDATE – INDUSTRY COLLABORATION

## WHO NFDC IS ALREADY WORKING WITH

- RIBA
- Construction Leadership Council (CLC), BEIS, DEFRA
- BUILD UK
- Related Industry Associations
- EDA / EU Ministers
- Green Construction Board (GCB)
- CIWM (C&D Forum)

## WHO WE SHOULD ALSO BE WORKING WITH

- **YOU!**
- Members' insights, case studies & best practice to reduce carbon footprint

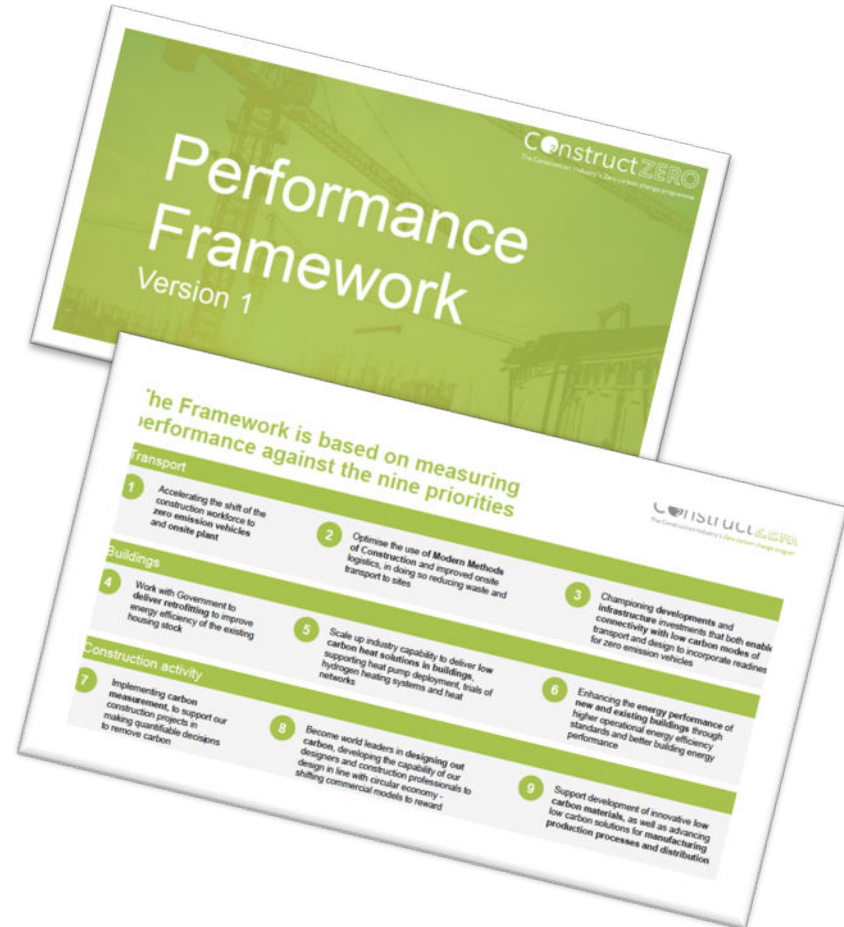
**OUT NOW** – Construct Zero Performance Framework Document v1



# CONSTRUCT ZERO FRAMEWORK DOCUMENT

## WHAT IS IT?

- A 40-page document which sets out how the construction sector will commit to, and measure its progress towards, net zero.
- Produced through consultation with the industry – **NFDC is now a ‘CZ Partner’**
- Sets out 9 priorities for the construction industry to reduce its carbon emissions.
- **How do these priorities translate to demolition?**
- **What should our (realistic) sector-specific priorities be?**



# CONSTRUCT ZERO – PRIORITIES

PRIORITIES	COMMITMENT	DETAIL
TRANSPORT	<b>1. ZERO EMISSION VEHICLES AND ONSITE PLANT</b>	ACCELERATING THE SHIFT OF THE CONSTRUCTION WORKFORCE TO ZERO EMISSION VEHICLES AND ONSITE PLANT
	<b>2. MODERN METHODS OF CONSTRUCTION</b>	OPTIMISE THE USE OF MODERN METHODS OF CONSTRUCTION AND IMPROVED ONSITE LOGISTICS, IN DOING SO REDUCING WASTE AND TRANSPORT TO SITES
	<b>3. CHAMPION PROJECTS THAT ENABLE LOW-CARBON TRANSPORT MODES</b>	CHAMPIONING DEVELOPMENTS AND INFRASTRUCTURE INVESTMENTS THAT BOTH ENABLE CONNECTIVITY WITH LOW CARBON MODES OF TRANSPORT AND DESIGN TO INCORPORATE READINESS FOR ZERO EMISSION VEHICLES



- RELEVANCE TO DEMOLITION?
- CURRENT DEMOLITION IMPACT IN THESE AREAS?
- CURRENT MEMBER EFFORTS TO REDUCE EMISSIONS IN TRANSPORT? (We're talking about red diesel/HVO shortly...)
- FUTURE GOALS / LEGISLATION FOR REDUCING CARBON IN TRANSPORT FOR DEMOLITION?

# CONSTRUCT ZERO – PRIORITIES

PRIORITIES	COMMITMENT	DETAIL
BUILDINGS	<b>4. DELIVER RETROFITTING</b>	WORK WITH GOVERNMENT TO DELIVER RETROFITTING TO IMPROVE ENERGY EFFICIENCY OF THE EXISTING HOUSING STOCK
	<b>5. CAPABILITY FOR LOW CARBON HEAT SOLUTIONS</b>	SCALE UP INDUSTRY CAPABILITY TO DELIVER LOW CARBON HEAT SOLUTIONS IN BUILDINGS, SUPPORTING HEAT PUMP DEPLOYMENT, TRIALS OF HYDROGEN HEATING SYSTEMS AND HEAT NETWORKS
	<b>6. ENERGY PERFORMANCE – NEW &amp; EXISTING</b>	ENHANCING THE ENERGY PERFORMANCE OF NEW AND EXISTING BUILDINGS THROUGH HIGHER OPERATIONAL ENERGY EFFICIENCY STANDARDS AND BETTER BUILDING ENERGY PERFORMANCE



DISCUSS

- RELEVANCE TO DEMOLITION – PRIORITY 4 ONLY?
- IS PRIORITY 6 AN OPPORTUNITY FOR MEMBERS WITH STRIP-OUT WORK?

# CONSTRUCT ZERO – PRIORITIES

PRIORITIES	COMMITMENT	DETAIL
CONSTRUCTION ACTIVITY	<b>7. CARBON MEASUREMENT</b>	IMPLEMENTING CARBON MEASUREMENT, TO SUPPORT OUR CONSTRUCTION PROJECTS IN MAKING QUANTIFIABLE DECISIONS TO REMOVE CARBON
	<b>8. LEAD IN 'DESIGNING OUT' CARBON</b>	BECOME WORLD LEADERS IN DESIGNING OUT CARBON, DEVELOPING THE CAPABILITY OF OUR DESIGNERS AND CONSTRUCTION PROFESSIONALS TO DESIGN IN LINE WITH CIRCULAR ECONOMY - SHIFTING COMMERCIAL MODELS TO REWARD MEASURABLE CARBON REDUCTIONS
	<b>9. LOW CARBON MATERIALS &amp; SOLUTIONS</b>	SUPPORT DEVELOPMENT OF INNOVATIVE LOW CARBON MATERIALS, AS WELL AS ADVANCING LOW CARBON SOLUTIONS FOR MANUFACTURING PRODUCTION PROCESSES AND DISTRIBUTION



- CARBON MEASUREMENT IN DEMOLITION – WHAT ARE WE DOING NOW? WHAT COULD WE BE DOING?
- WE ALREADY WORK IN LINE WITH CIRCULAR ECONOMY IN DEMOLITION – WHAT ELSE CAN WE DO TO REDUCE/DESIGN OUT CARBON?
- LOW CARBON ALTERNATIVES FOR PROCESSES & DISTRIBUTION IN DEMOLITION?



# DEMOLITION ZERO – MEMBER DISCUSSION

**RED  
DIESEL  
VERSUS  
HVO**

- **IS HVO A GREENER ALTERNATIVE?**
- **WHAT ARE THE STATISTICS ON EMISSIONS?**
- **WHAT IS THE COST IMPACT OF MAKING A CHANGE?**

(MEMBER REFERENCES: BRADLEY DEMOLITION, RYE DEMOLITION, KELTBRAY, OTHERS?)



**CONSTRUCT ZERO TRANSPORT  
PRIORITIES – TOWARDS ZERO  
EMISSIONS**



**CONSTRUCT ZERO  
'CONSTRUCTION ACTIVITY'  
PRIORITIES – LOW CARBON  
MATERIALS/SOLUTIONS**

# DEMOLITION ZERO – MEMBER DISCUSSION

**REFURBISH  
VERSUS  
DEMOLISH**



**CONSTRUCT ZERO BUILDINGS  
PRIORITY: 'DELIVER  
RETROFITTING'**

- **LESS DEMOLITION WORK FOR FUTURE?**
- **REDUCE CARBON/ENVIRONMENTAL IMPACT OF DEMOLITION WORKS? DEMONSTRATE & PUBLICISE?**
- **HIGHLIGHT THE CHALLENGES OF REFURBISHING OLD BUILDINGS**
  - **SAFETY? ASBESTOS? WORKFORCE CAPABILITY FOR HAND-STRIPPING? MORE?**

# DEMOLITION ZERO – MEMBER DISCUSSION

**RECYCLE  
VERSUS  
REPURPOSE  
/ REUSE**



CONSTRUCT ZERO TRANSPORT  
PRIORITY: 'REDUCE WASTE,  
REDUCE TRANSPORT'



CONSTRUCT ZERO  
'CONSTRUCTION ACTIVITY  
PRIORITY: 'DESIGN OUT  
CARBON/WASTE'

- **DEMOLITION INDUSTRY EVOLVED IN LINE WITH CIRCULAR ECONOMY**
- **SHARE & PROMOTE LEADERSHIP IN REDUCTION OF WASTE FOR SECTOR**
- **WHAT OTHER/ADDITIONAL GOALS ARE IMPORTANT FOR THE DEMOLITION INDUSTRY?**
- **REMEMBER DRIDS? THIS HAS BEEN ON OUR AGENDA FOR MANY, MANY YEARS**

# DEMOLITION ZERO – MEMBER DISCUSSION



## EFFORTS TOWARDS CARBON CHANGE

- **WHAT ELSE IS THE DEMOLITION SECTOR DOING TOWARDS CARBON CHANGE?**
- **WHAT SHOULD OUR REALISTIC ‘DEMOLITION ZERO’ FRAMEWORK INCLUDE?**



# WILL YOU JOIN THE WORKING GROUP?

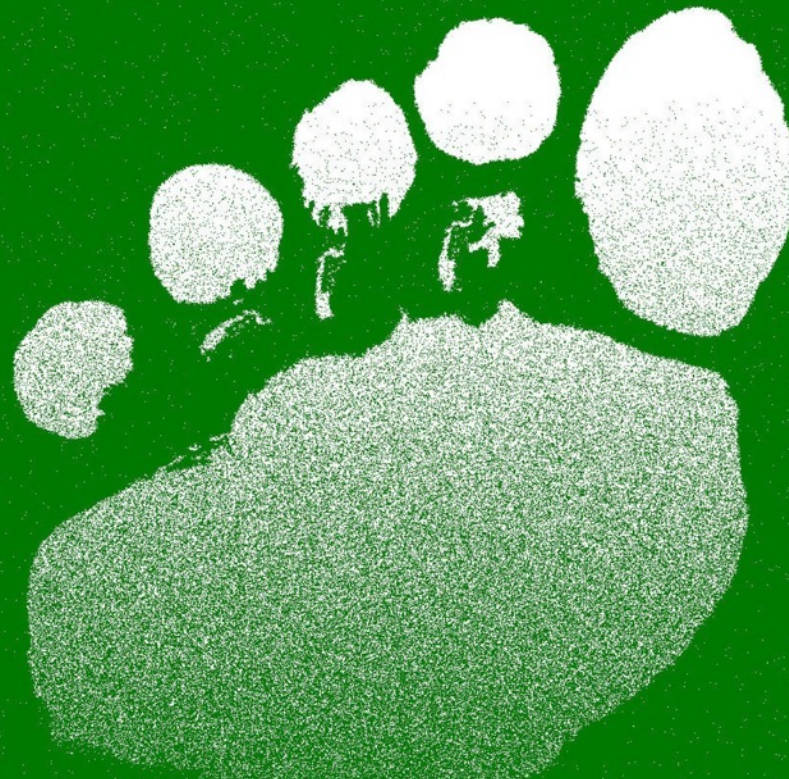


## YOUR COMMITMENT:

- ACTIVE PARTICIPATION IN DISCUSSION & SHARING BEST PRACTICE
- ZOOM MEETINGS ONCE PER MONTH
- CONTRIBUTE TO PRODUCTION OF DEMOLITION ZERO FRAMEWORK DOCUMENT
- 'CHAMPION' NFDC MEMBERS & INDUSTRY EFFORTS TO REDUCE CARBON – SHARE FAR & WIDE

# DEMOLITION ZERO

THANK



YOU