

# Knowledge Bank Overview

17<sup>th</sup> September

















**Introduction to CEDR and the Knowledge Bank** 



**Journey So Far** 



**Demonstration** 



**Feedback and Discussion** 

## Purpose of the Session

Getting early feedback from our trusted 'critical friends' to support the development

## Introduction

A Live Labs 2 theme - paving the way to a low-carbon future through material innovation and collaboration across the highways and local roads sector.

Delivered by North Lanarkshire Council and Transport for West Midlands, in partnership with Amey and Colas



Aims to reduce siloed working and encourage low-carbon material adoption

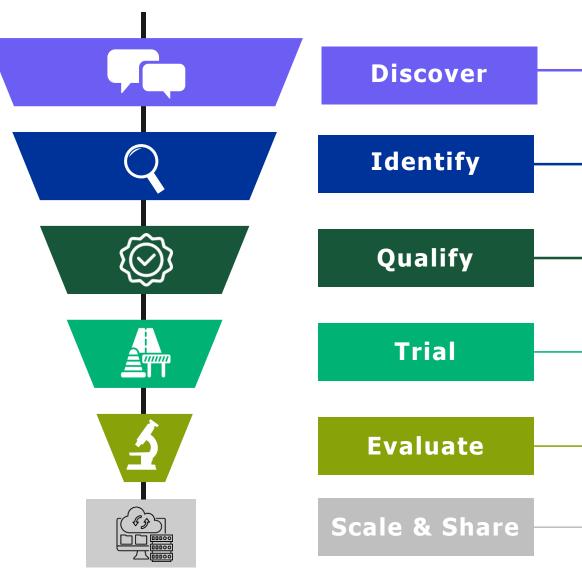


Supported by live testbeds and knowledge bank for LAs





#### **The Innovation Funnel**



#### **Objective**

Discover challenges to decarbonisation

Identify leading lowcarbon materials

Pre-qualify materials

Trial on NLC and TfWM road network

Technical, carbon and scalability evaluation

Embedding as BAU and knowledge bank

#### **Progress**

Behavioural research Consultation with LAs

Innovation Log with 350+ materials Global market scanning completed with Connected Places Catapult

7 innovation series scorecards completed

30 material trials

Carbon profiles created for first trials in FHRG Carbon Analyser

Monitoring & evaluation of first trials underway

















### Intention of the knowledge bank

**Evidence base for local authority** innovation and excellence across the UK Comprehensive menu of options, with carbon, cost and performance consistently measured

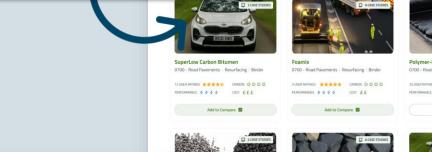
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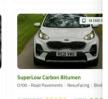
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**Recycled Aggregate** 





SuperLow Carbon Bitumer

Considerations





Carbon Impact

#### \* \* \* \* \* 4 4 22 review

#### Featured Case Studies

Discover sustainable road construction materials that reduce environmental impact while ensuring durability and safety.

Map Satellite

#### BEAR's Bio-Binders

Weatherline Plus | CarbonSink, [+5] Loremipsum dolor sit amet, consectetur adipiscing elit, sed do elusmed tempor incididunt ut labore et delore. ® NORTH WEST TRUNK ROAD NETWORK

#### In-situ Recycling and Warm-Mix in Clackmannanshire

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#### Biogenic Binders in Lancashire

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#### Biogenic Binders in Lancashire

Shell Bitumen | CarbonSink, [+5]

12 USER RATINGS \*\*\*\*\* CARBON © © © 12 USER RATINGS \*\*\*\*\* CARBON @ @ @ PERFORMANCE & & & & COST £ PERFORMANCE \$ \$ \$ \$ COST £££££ Peer reviews and culture of local authority collaboration vsing local roads programme, a three year £30million UK-wide initiative funded by the Department for Transport that a

**Recycled Aggregate** 

PERFORMANCE \$ \$ \$ \$ \$ COST ££££

SuperLow Carbon Bitumen is a gamechanger in road construction. Its impro durability and affordability make it a standour notion. The sleek finish not only looks great but also promotes safer driving conditions. Plus, it's environmentally friend

SuperLow Carbon Bitumen

standout option. The sleek

looks great but also pro-conditions. Plus, it's env

for any paying project

## Journey so Far

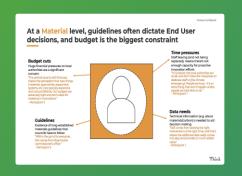


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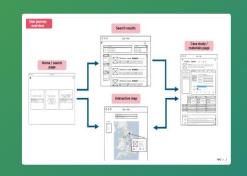
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#### End-User Requirements

Working with Thinks
Insight, we conducted
behaviuoral research with
10 LAs across the country
to assess challenges and
initial design prototypes



## High-level wireframes

Early-stage wireframes and End-User Requirements presented to suppliers



## IT options appraisal and onboarding

Three top suppliers rated against key criteria, and top supplier (Microsoft with Transparity) were onboarded



## Design and development

In-depth designs, development and UAT testing over the last 5 months

## Website demo





#### Minor edits

- Minor feature editing / addition
- Fixing any bugs
- Data cleanse and input



#### Launch

- Launch event and webinar at the end of September
- LinkedIn campaign
- · Press release



#### Phase 2

- Based on your feedback, prioritisation of additional features such as:
  - · AI
  - Mix design tool

### What's Next for the Knowledge Bank



# Questions & Discussion