INSTITUTE OF HIGHWAY ENGINEERS

A Carbon Calculator for Local Authorities

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Who we are;

- Neil Levett – Main Board Director, IHE
- Richard Whitaker – Business Manager, NY Highways

Firstly, How did this project come about?

Background

Not a new idea!

At the last count there were 52 different counting tools available/being developed

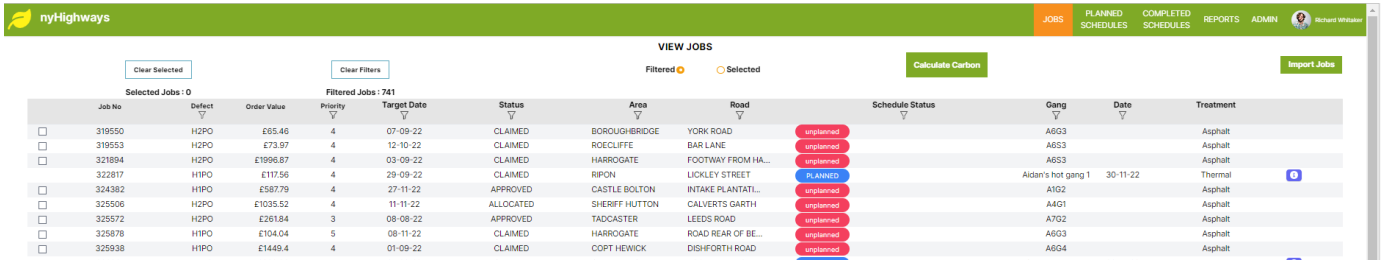
LCRIG Innovation Fund

- Won £20k of funding in Nov 2021 to develop a carbon counting tool
- Original plan was to run using Power BI software
- Through development this changed to a Web based platform

You mentioned that there are other Carbon Counting tools.
What makes this one different?

What makes this one different?

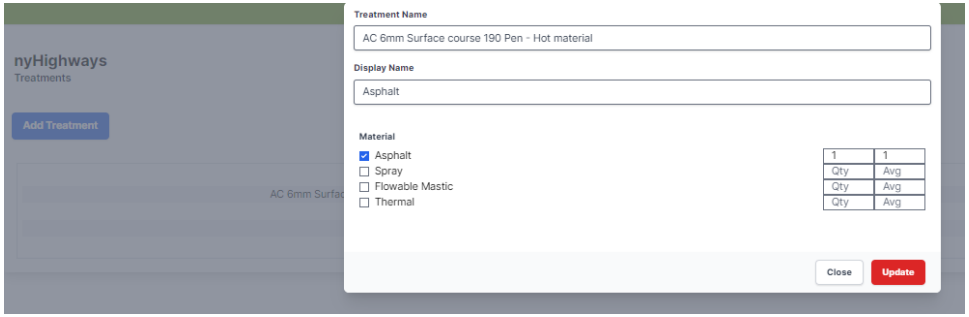
- Simple to use
- Plans carbon spend as well as counting actual used when work has been undertaken
- Uses information from the LA Asset Management system (Live data)
- For maintenance activities not just big schemes
- Standardises method of calculation aligned to Adept/FHRG & National Highways



Local Authorities use different Asset Management System and those that use the same one operate it differently.
How does your system cope with this?

Configuration

- Easy to configure for different LA needs
- System is configured to accept the data rather than the other way around.
- Easy to add new suppliers and treatment types
- Easy to change the baseline treatment
- Reporting panel to meet local need



So you have the Data in the system, what does it do?

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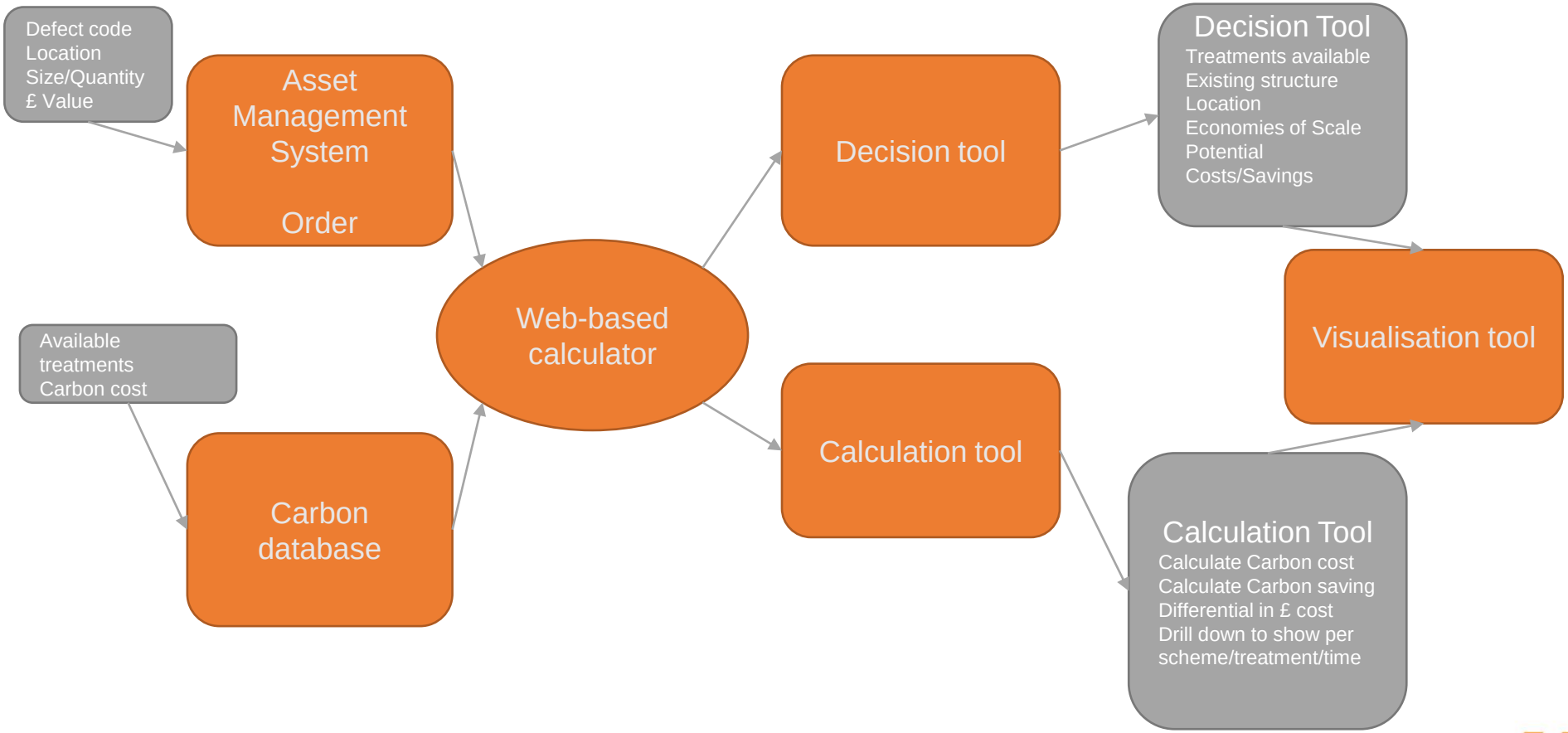

It looks good so far, What are the next steps?

Next Steps

HELP required……

- Need Local Authorities to help test the configuration module
  - Support already from Lancashire, Blackpool and Blackburn but need for more
- Add their data to check the system
- Feedback on their experiences and help put the development plan together

- Release through LCRIG members for other Local Authorities to use

And what are your plans to develop the system further?

Future Development

- Development will include Artificial Intelligent Learning to improve the accuracy of the calculations –Further funding won from Innovate - uk
  - Mileage of vehicles from telematics
  - Data from suppliers (originating depot)
- Validated against standard counting methodology – NH to release standard methodology
- Business Plan is to fund the upkeep of the website by suppliers and keep procurement simple for LAs
- Captures the Carbon saving which could be traded in the future
- Calculations will support Climate Emergency data requirements

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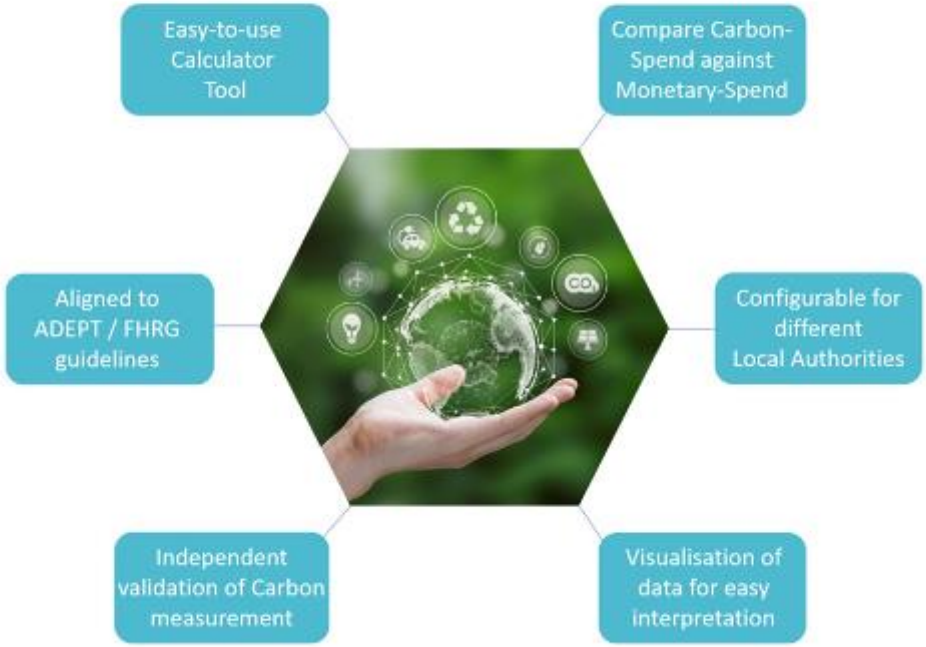
CARBON CALCULATOR TOOL

Transforming business processes for Net Zero targeting



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Thank you

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