**Category: Best use of technology to benefit the environment**

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| 1 | **MHA+ member name** |
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|  | via East Midlands in partnership with Nottinghamshire County Council |
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| 2 | **other partners involved in the development of this product/project/nomination** |
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|  | Nottinghamshire County Council, ORIS Materials Intelligence, Jordan Road Resurfacing and Breedon |
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| 3 | **Please provide a brief description of what was done.** |
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|  | ORIS Materials Intelligence supported Via East Midlands and Nottinghamshire County Council (NCC) in assessing a range of maintenance treatment options for a maintenance scheme. Leveraging digital optioneering tools, the project evaluated cost and carbon impacts across multiple scenarios. |
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| 4 | **Please provide a brief overview of what were the benefits of the digital deployment** |
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|  | Cost savings – smart materials optioneering can provide tangible cost and carbon savings on projects; Central database – providing a verified carbon calculation methodology; Autodesk integration – the plugin supports integration with AutoCAD, eliminating inputting errors; Software as a Service – offers ease of access, and reduced IT support costs. |
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| 5 | **Please provide a brief overview of why you should win an award** |
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|  | The solution brings together pavement engineering and cutting-edge software. The tools within the platform have provided NCC and Via with the opportunity to consider material cost savings and carbon reduction during the early design stage of a highway project. By leveraging the system’s AI powered tools, it is possible to assess the carbon impacts of projects and measure progress over time. Winning an award would recognise the journey that Nottinghamshire and Via EM have been on to leverage technology to drive change, improve productivity and efficiency whilst conserving resources to deliver a high-quality Highway Service for the residents of Nottinghamshire |
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| 6 | **Please provide any other information that you feel needs to be included in the submission** |
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|  | Nottinghamshire County Council has made a pledge to be Carbon Neutral by 2030 and Via East Midlands as a Council owned Company has a responsibility to reduce its carbon emissions (Scope 1, 2 and 3) and to target projects and initiatives that can support this policy. Our previous approach lacked the ability to evaluate the carbon impacts in the early design stages. This led to missed opportunities in supporting our sustainability targets. Valuable information is also prepared during the design stage can now benefit from being centrally recorded and accessible. |
|  | The ORIS Materials Intelligence software allows for carbon assessments on highway schemes and modelling to compare low-carbon material alternatives. What makes the system appealing to us is that it works in conjunction with AutoCAD which eliminates the manual handling and the prospect of doing a similar exercise with a spreadsheet or alternative system using carbon factors etc. Not only would this reduce work, but it would remove the risk of inputting errors through manual input. |
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| 7 | **Please provide contact details** |
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|  | Peter Wells |
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| 8 | **Please provide other contact details** |
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|  | [peter.wells@viaem.co.uk](mailto:peter.wells@viaem.co.uk) |
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