



Midlands Highway Alliance Plus
MHA, MSIG, WMHA: Moving Forwards Together

Carbon Reduction and Value

Wednesday 22 June 2022

Creating better places and spaces – excellence in public realm delivery

Stuart Townsend & Philip Reid, Eurovia





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1. Excellence – making savings

Stuart Townsend, Contracts Manager



2. The next steps - Automation

Philip Reid, Digital Operations Manager

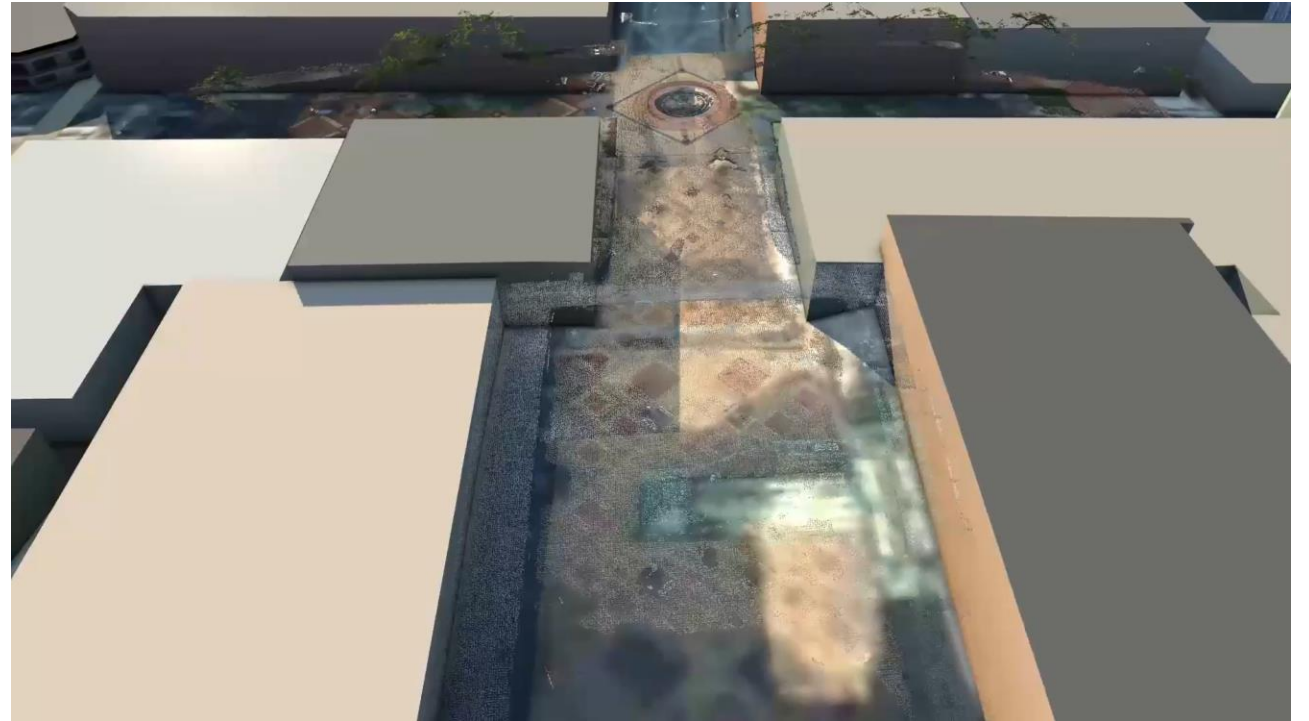


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Public Realm



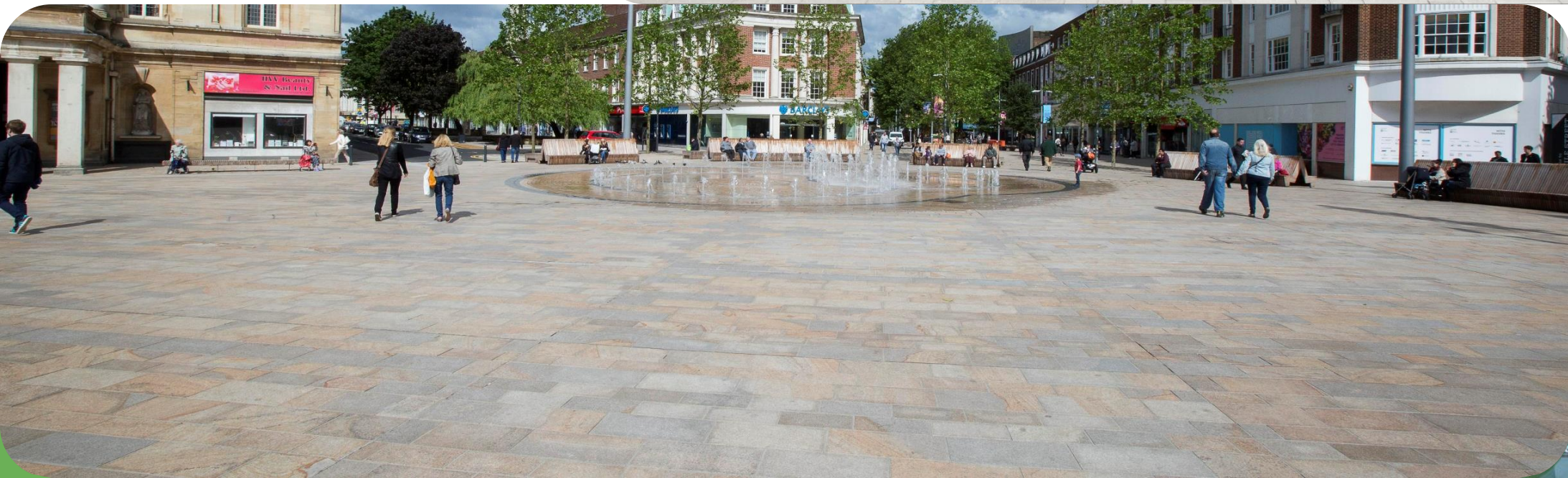
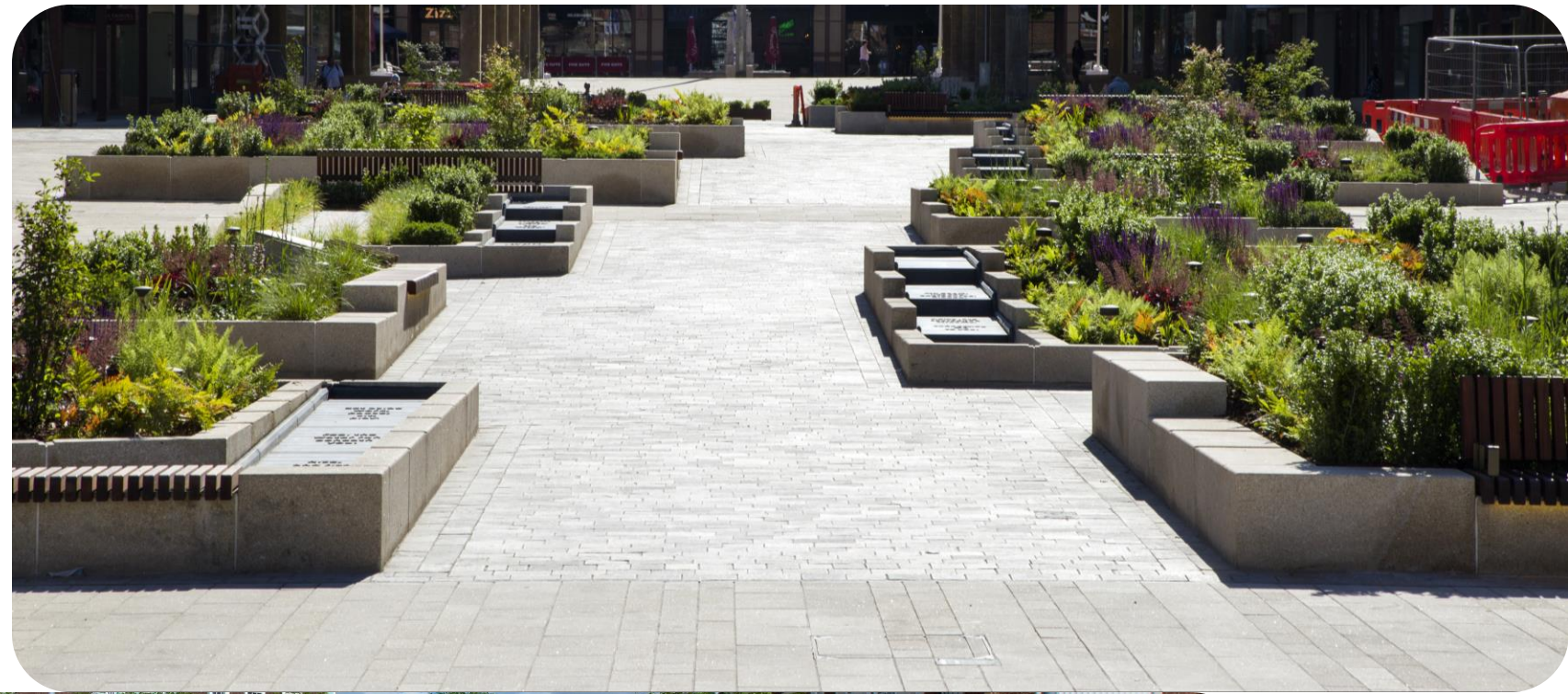
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MHA

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Savings in Coventry

- Reduction in material, equipment, people & overhead costs of **£2.6m** or **19%** of the agreed TC of **£13.8m**
 - Proposing Asphalt in lieu of reinforced concrete foundation - **£1.8m**
 - Excavation depths and advanced GI - **£250k**
 - Alternative paving materials - **£180k**
 - Plant room location alternative - **£44k**
 - Future proofing ducting - **£330k**
 - Mains Power - **£27k**
 - Alternative Compounds - **£99k**



Savings in Wolverhampton

- Reduction in material, equipment, people & overhead costs of **£4.3m** or **37%** of the agreed TC of **£11.9m**
- Through:
 - Proposing Asphalt in lieu of reinforced concrete foundation - **£3.5m**
 - Using thinner paving units (100mm in lieu 180mm) - **£244k**
 - Value Engineering the Foundation depths - **£554k**

Full Carbon Savings not yet assessed but expected to be significant against all aspects, through a reduction in emissions and virgin material use.



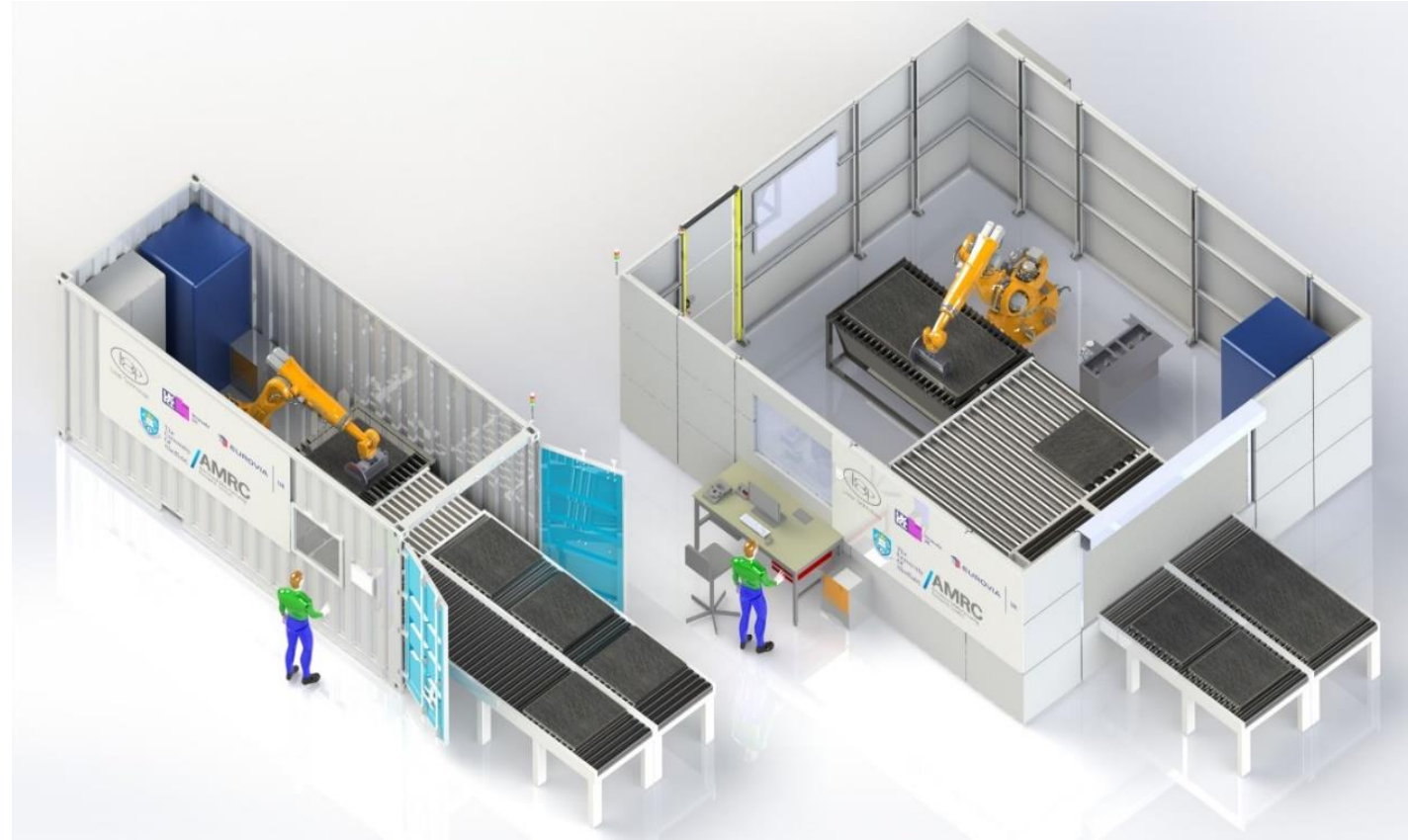
Reducing Carbon

- Reducing rework, increasing quality and longevity of the pavement
 - Increasing efficiency and reducing time on site
 - Decreasing waste through optimization and reuse of offcuts
 - Reducing waste water
-
- Whilst also increasing safety, reducing noise and disruption for the public



The Future

- Robotic Cutting of Paving Units
 - Onsite testing 2022
 - Initial Operational Deployment 2023





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