

# Skills and Digital

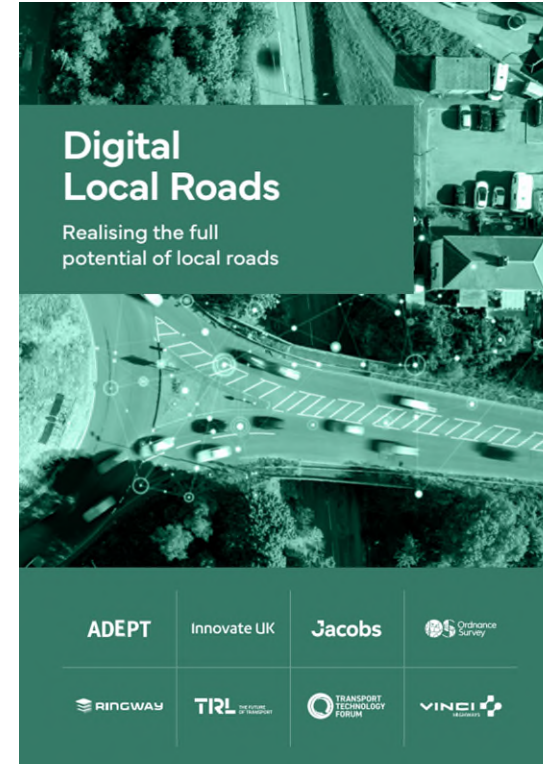
Tuesday 17 September 2024

**Emily See – Highways Market Director**  
**September 2024**

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# Can digital really save you money?

**Amey**

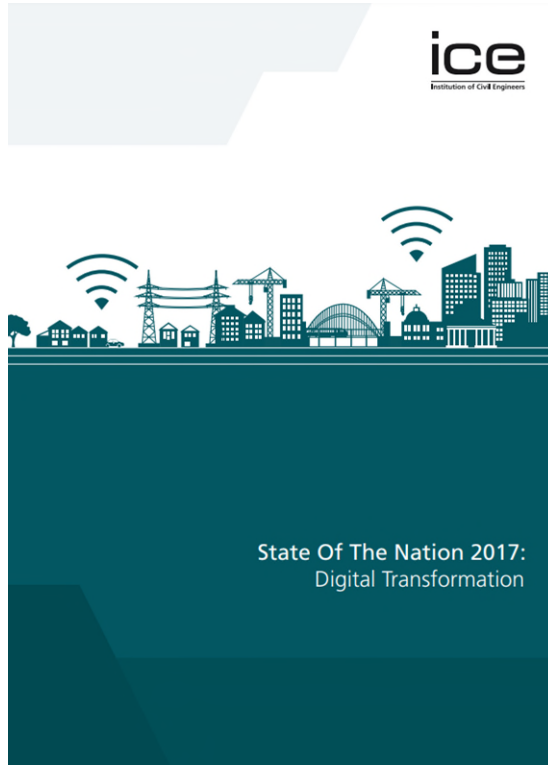




**“Digital innovation has the potential to revolutionise our highways system, improving roads, network management and user experience.”**

**“Extensive work is going on in transport innovation and smart cities, but there is a risk that this will progress slowly and in a piecemeal, fragmented way across the 150 Local Highways Authorities.”**

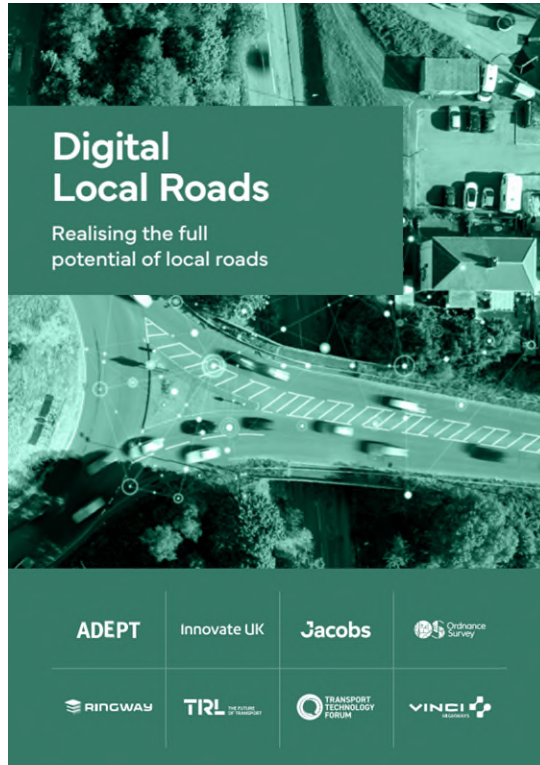




**“Digital transformation, which includes digital delivery and smart infrastructure (or cyber-physical infrastructure solutions), is a more cost-effective way of adding value to infrastructure than traditional approaches.”**

**“However, the infrastructure sector has been slow to engage with the uptake of new digital technologies compared with other industries.”**





**“As we look to strengthen our economy, in a sustainable way for both people and place, the role digital technology can play is becoming more obvious.”**

**“However, alongside the benefits they identified a corresponding range of barriers that could delay or prevent the benefits being realised.”**





REPORT

The condition and maintenance  
of local roads in England

Department for Transport

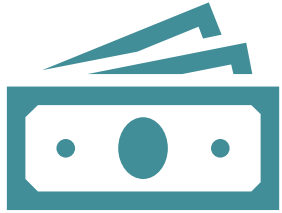
SESSION 2024-25  
HC 117

**DfT's data do not allow it to understand how the funding that it provides for local road maintenance improves the condition of local roads**

**"We received responses from 37 local authorities (25% of the 153 local authorities in England)."**



# Competing Priorities



**Financial  
Pressures**



**Decarbonisation**



**Public  
Expectations**



**Skills  
Shortage**

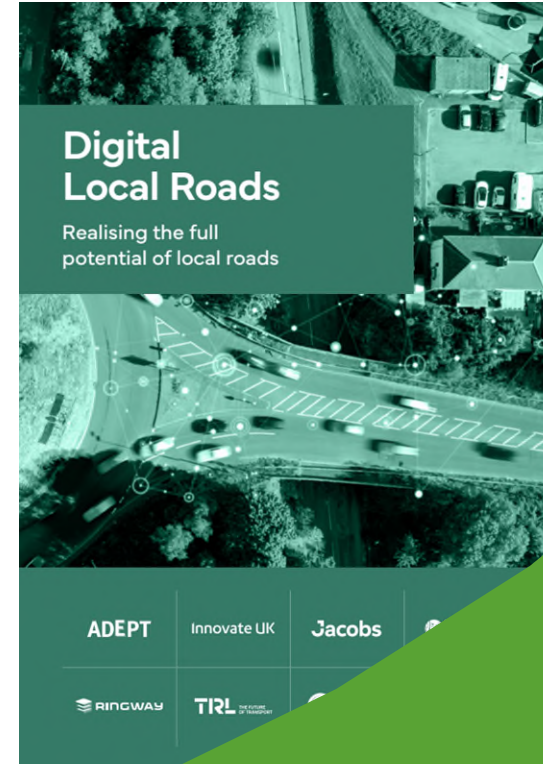


**Climate  
Resilience**



**Digital**







## Controversial Statement:

**Are we focusing on the wrong thing?**

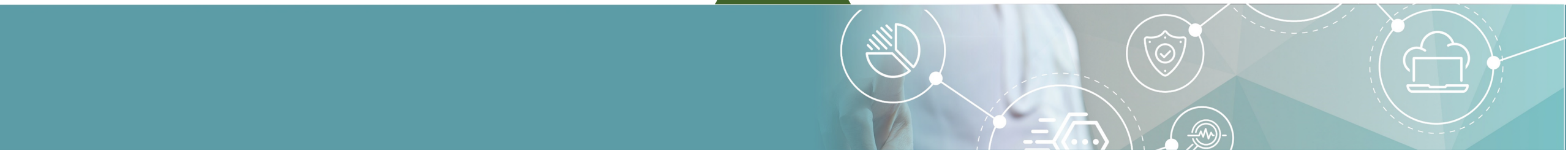


**Blue Sky  
Thinking**

**Practical Steps**

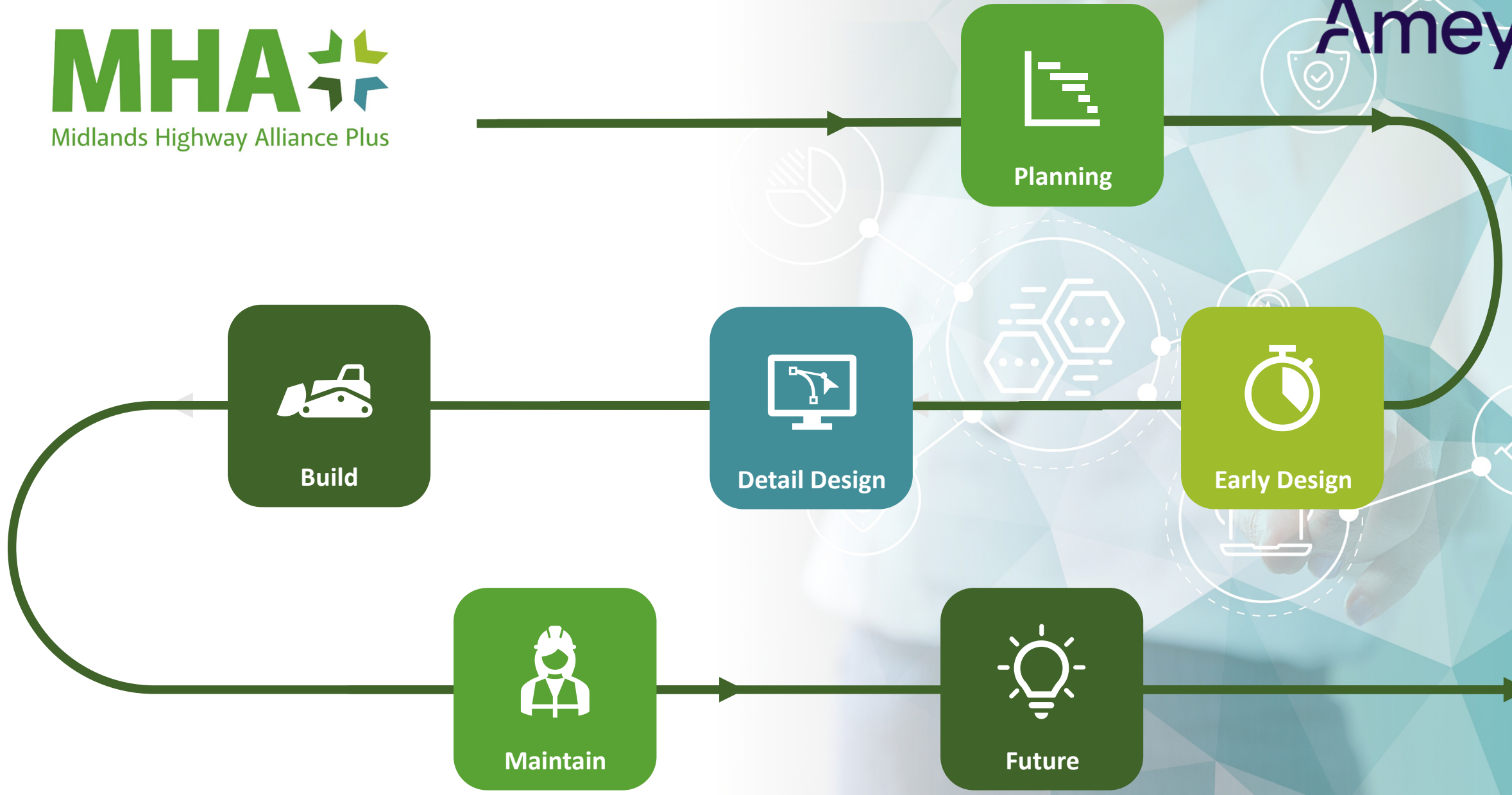


**Reality**



# Practical Steps for Digital Highway Asset Management





Funding Applications

Business Cases

Strategy Development



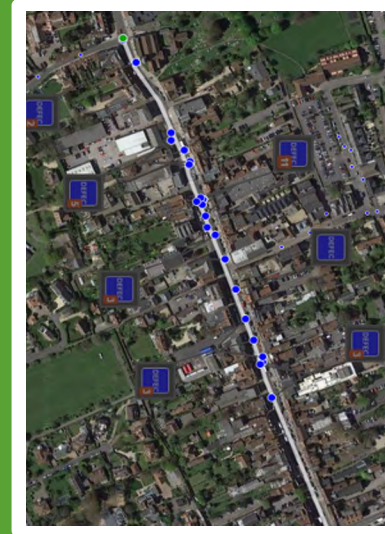
Use Existing Data



Condition



Traffic Data



Mobile Data

Community Engagement

Site Visits

Optioneering



Early Design

**Make It Visual**



Contract Design

Contractual Engagement

Detailed Plans

## Engage With Industry Initiatives



Detail Design



Surface  
Treatment

Reconstruction

Recycling

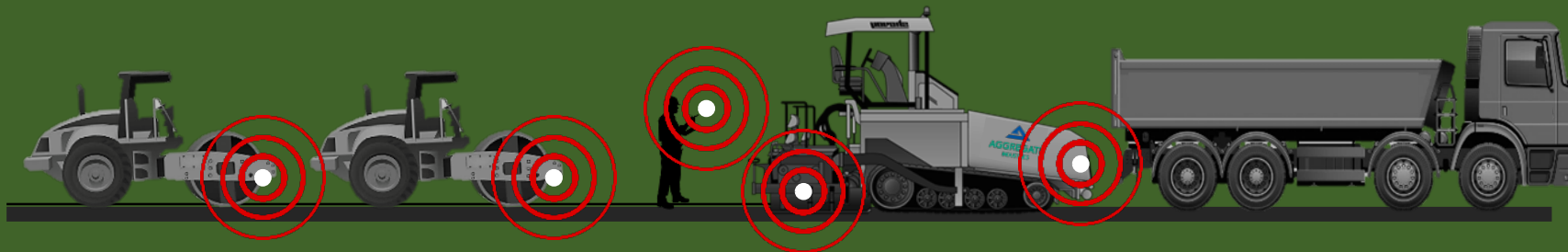


Build

Digital As Built



**BD51 SMR**





Routine

Preventative

Reactive



Remote Monitoring



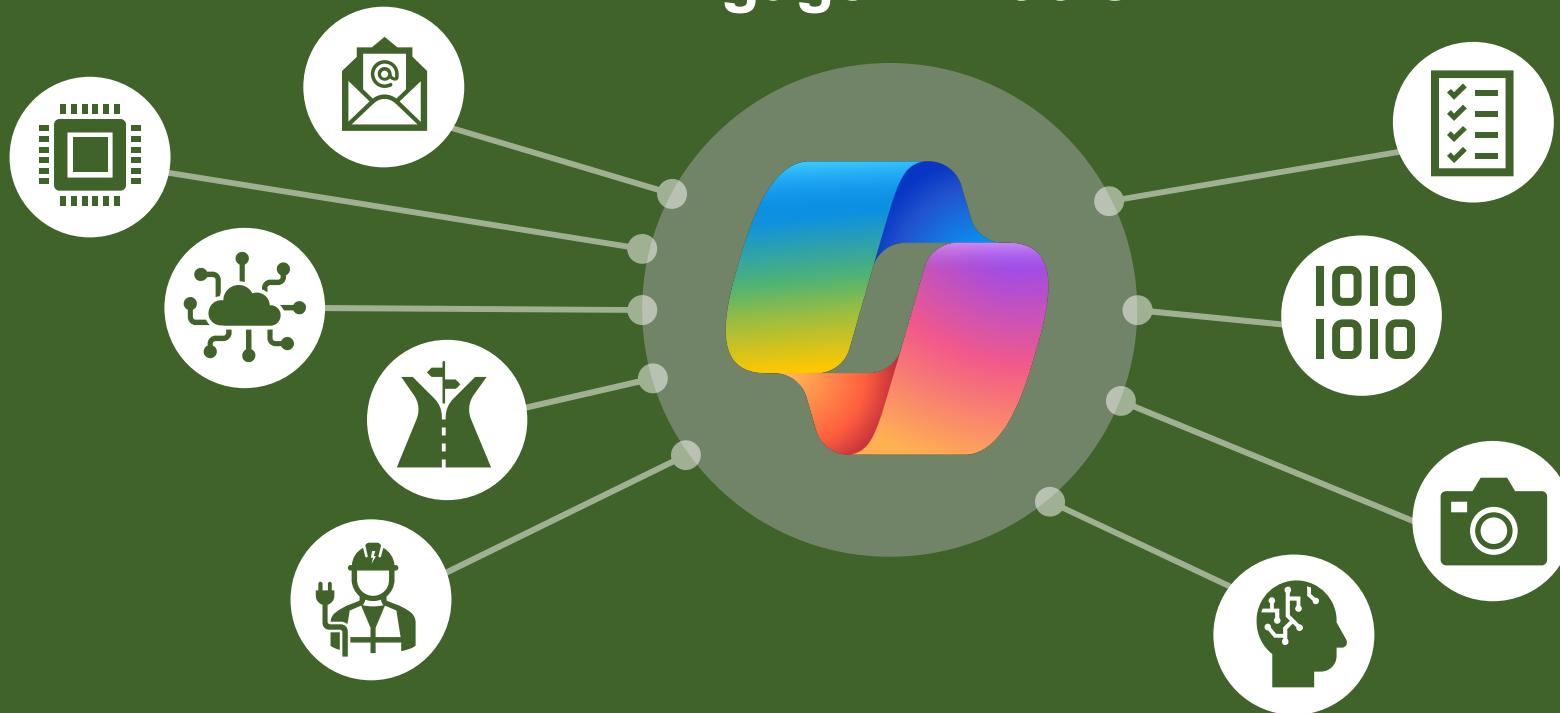
Maintain

Innovation

Climate Resilience

AI

**Engage AI Tools**





Amey



**BLUE SKY  
THINKING IS  
IMPORTANT**

Expands  
Perspectives

Stimulates  
Creativity

Encourages  
Experimentation

Boosts  
Innovation

Challenges the  
Status Quo

Enhances  
Collaboration



# Can digital really save you money?

**Can digital really save you money?**

# What Does Digital Do?



**Efficiency**



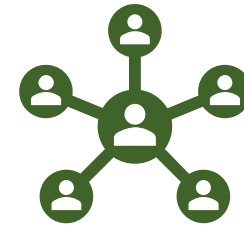
**Public  
Satisfaction**



**Safety  
Improvements**



**Attracts Talent**



**Collaboration**



**Environment**





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# Any Questions?

The Amey logo is displayed in a dark blue, sans-serif font. The background of the slide features a teal and white geometric pattern with various icons such as a pie chart, a shield with a checkmark, a laptop, and a bar chart, all connected by a network of lines and dots. A hand is visible in the background, interacting with the network.