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Huddlesden
Corner Shop
Ice Creams • Cakes
Grand Buns

POST
OFFICE

Huddlesden Corner Shop
& Newsagents

Corner
Shop

POST
OFFICE



Vegetation Management ○

**Delivering
services
above, below
and beyond**

MULTEVO®



Civils ○

**Delivering
services
above, below
and beyond**

MULTEVO®



Highways ○

**Delivering
services
above, below
and beyond**

MULTEVO®



Plant & Maintenance ○

**Delivering
services
above, below
and beyond**

MULTEVO®



**One Machine
Endless Applications**



Plant & Maintenance

MULTEVO®



Winter



Local Authorities



Forestry



Utilities

UNIMOG

The powerful professional for
professionals



Plant & Maintenance

MULTEVO®



Cleansing



**Winter
Maintenance**



**Highways
Maintenance**



**Vegetation
Clearance**

 **WILLE MACHINES**

**A resilient and versatile all-
year-round solution**



Plant & Maintenance ○

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Resilience Requires Adaptability

The Oxford Dictionary defines resilience as the capacity to withstand or to recover quickly from difficulties.



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Urban Search & Rescue (USAR)

What did resilience mean for National Resilience?

Context

- Merseyside Fire & Rescue assumed lead role for National Resilience on behalf of the Home Office
- Responsibility for assurance, training and long-term capability management as part of National Resilience
- Specialist capabilities include response to flooding, terrorism, contamination events as well as urban search and result as well as high volume pumping



NFCC
National
Resilience



**MERSEYSIDE
FIRE & RESCUE
SERVICE**



MULTEVO®

Urban Search & Rescue (USAR)

What did resilience mean for National Resilience?

Benefits

- All terrain four wheel drive
- High flow hydraulics multi-tool carrier
- HVP 6,000 lpm without loss of flow
- All terrain forklift to demount modules
- Compatibility with existing transport modules
- Deployment for debris removal
- Heavy duty armour-sealed tyres preventing punctures
- Hydraulic tipper, winch and power tool accessories



NFCC
National
Resilience



**MERSEYSIDE
FIRE & RESCUE
SERVICE**



MULTEVO®

Urban Search & Rescue (USAR)

What did resilience mean for National Resilience?

Outcomes

- 1) Deploy as a self-propelled base pump where high volume pumps cannot access
- 2) Integrate into Fire & Rescue high volume pump operations
- 3) Utilise to improve USAR cross-capabilities (debris removal, clearance, forks etc.)
- 4) Utilise to reduce capability gaps from national risk register



NFCC
National
Resilience



**MERSEYSIDE
FIRE & RESCUE
SERVICE**



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Aviation (Gatwick Airport)

What did resilience mean for the Airport Sector?

Context

- Aging fleet of over 55 small ATV vehicles with snow ploughs and mini de-icers
- Fleet rationalisation required to reduce labour, training and maintenance costs
- Required a more effective 'back to black' finish around the head of stand
- Adaptability perceived as increased risk – focus on the task at hand



"We were looking for something compact and manoeuvrable which could access the whole of the stand area for efficient clearance" Airfield Operations Safety Standards and Training Manager at London Gatwick Airport.

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Aviation (Gatwick Airport)

What did resilience mean for the Airport Sector?

Outcomes

- Essential advantage was 3-in-1 'back to black' solution
- Developed a patented snow plough and brush combination unit to the front of the unit
- Improved de-icer efficiency and capacity in order to do more with less
- Articulated manoeuvrability improved effectiveness around aircraft and vehicles
- Reduced fleet from 55 to 24 whilst improving operational delivery



"We were looking for something compact and manoeuvrable which could access the whole of the stand area for efficient clearance" Airfield Operations Safety Standards and Training Manager at London Gatwick Airport.

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Resilience for Roads

Reactive v Proactive

Impact of Innovation



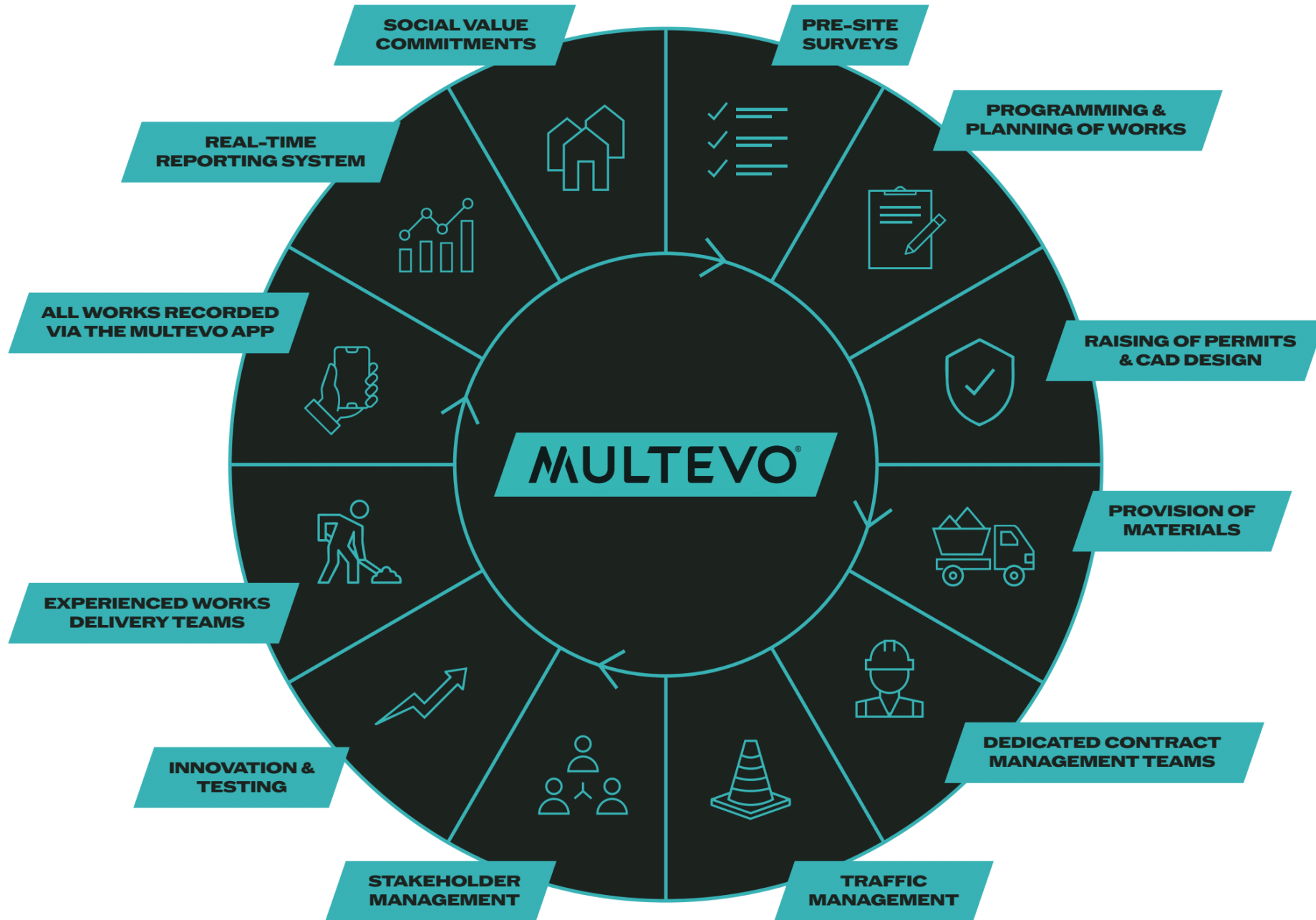
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Helping to buck the trend by delivering differently

End-to-end process



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Shropshire Success

The outcomes of implementing a fix-first-time turnkey solution

Outcomes

- 75% reduction in cost of repairs
- Saved £1.4M per annum
- From 90% temporary to 90% fix-first-time
- Potholes numbers remain around 2k
- NHT Public Satisfaction increased by 25%
- DfT Special Recognition Award Winners



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Defect Deterioration

Timeline

PREVENTATIVE MEASURES

LEGAL REQUIREMENT

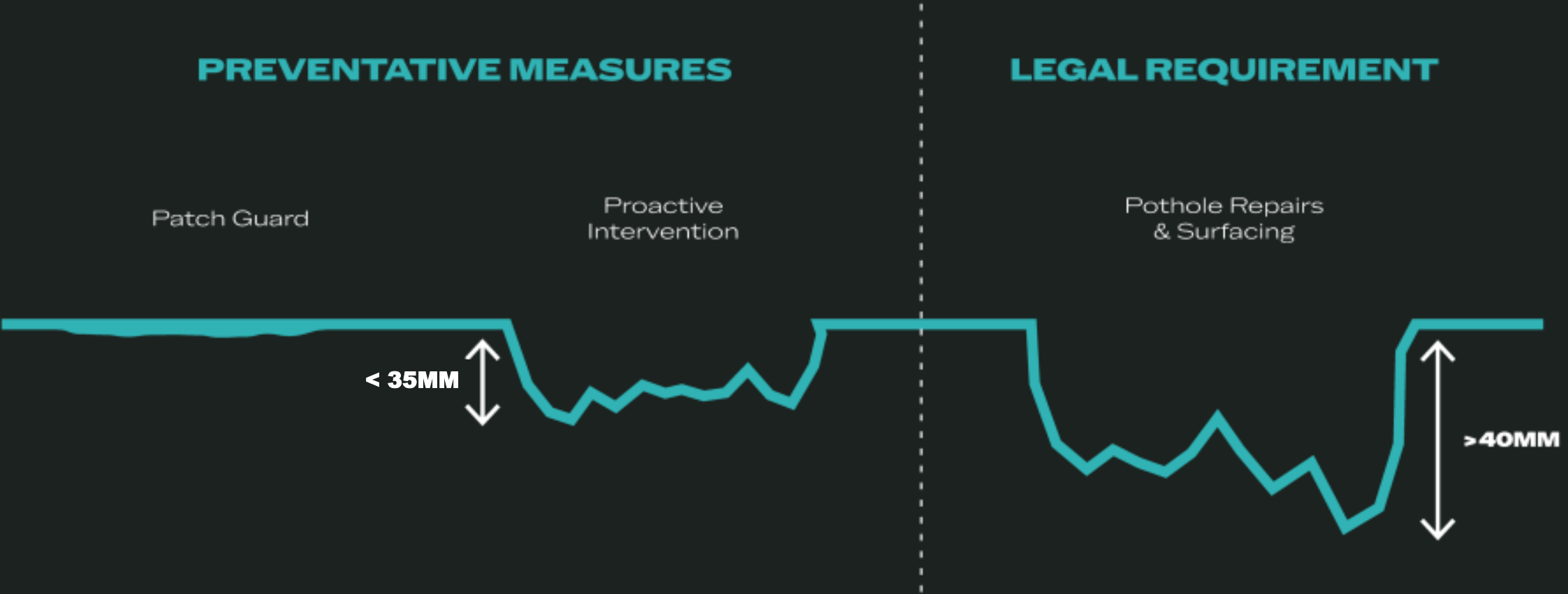
Patch Guard

Proactive Intervention

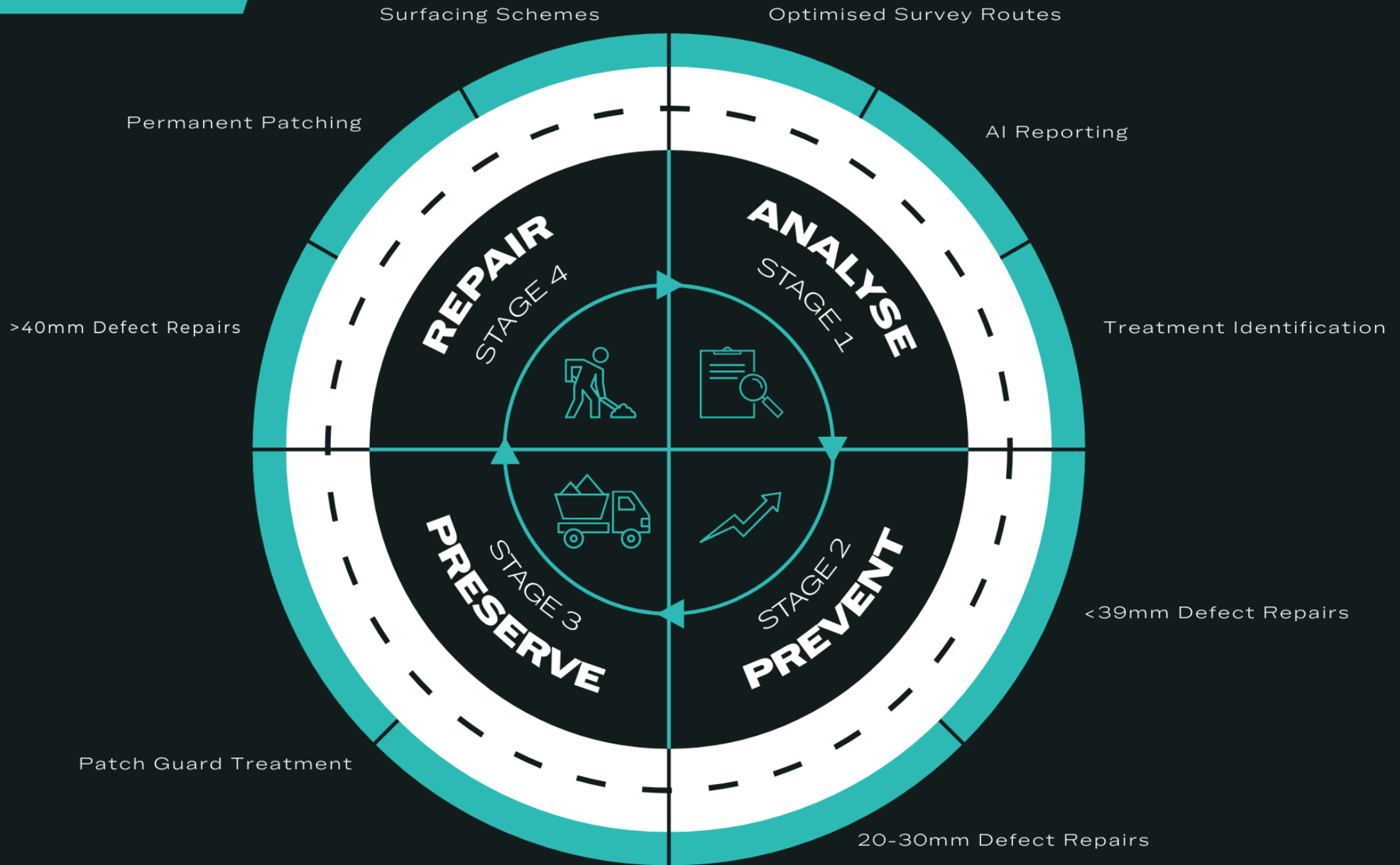
Pothole Repairs & Surfacing

< 35MM

> 40MM



360 Turnkey



Innovation

Implementing better ways of working



**Recycle,
rejuvenate and
repair process
repairs potholes
in-situ recycling in
under 3 minutes**

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Innovation

Implementing better ways of working

**Recycled rubber mastic
is a zero waste low
carbon permanent
repair using recycled
end-of-life tyres
powered by our UK-
first Electric boilers**



MULTEVO®

Innovation

Implementing better ways of working

**The Multihog is
more productive,
precise, safer and
less disruptive
best practice**



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Innovation

Implementing better ways of working



Mobile asphalt recycling system reuses road planings for **low carbon patch repairs**

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Innovation

Implementing better ways of working

**Multi-purpose
machines and multi-
skilled teams
deployed for a whole
place approach**



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Thanks for your time



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