







About Us

Connect Roads operates and maintains the A50 from Sawley Interchange at the eastern end of Derby Southern Bypass to Meir Interchange at the western end of the Blythe Bridge Bypass.

The concession commenced on 1st July 1996 as part of the Government's Private Finance Initiative (PFI). The contract runs until 2026 and has included the construction of the A50 Doveridge Bypass.

The contract was let by Highways England, on behalf of the Secretary of State, the highway authority for the route.

In partnership with our maintaining agent contractor, Balfour Beatty, Connect Roads undertakes all the maintenance requirements along the route.

Working on behalf of its client, Highways England, Connect Roads also identifies and delivers local network enhancement schemes

A50 Annual Report Year 20 — April 2016

Welcome



We have completed the twentieth year of our 30-year concession contract with Highways England, which sees us two-thirds of the way through the concession period.

We are proud that many of our staff on the A50 have worked with us for a long time, with many developing and progressing their careers within the business over this time. This serves us, our client, Highways England, and the communities within which we serve extremely well in respect to consistency and local knowledge.

Once again in this year's report we not only report on what we are required to do in respect to our performance, but also provide a flavour of the added value work which we pride ourselves on implementing to improve the route and experience for road users. Whilst the face of our client has changed, and the demands of road user customers have evolved, we continue to provide a dedicated service using a highly knowledgeable local team to meet the ever changing needs of the route.

We hope you enjoy the read

Mark Mageean Regional Operations Director



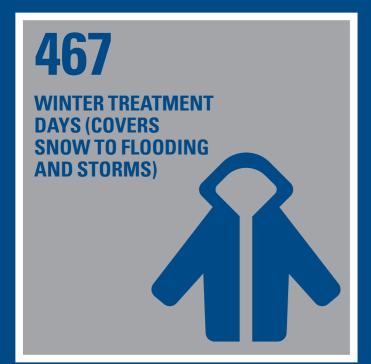
If you'd like to contact us please send an email to connect@ connectroads.com

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A50 Safety A50 Safety

Focus On Winter

Winter is always a busy period for Connect Roads. Last winter again saw extreme weather across the UK including widespread snow, storms and flooding. The priority of the team is to keep the roads open, the traffic moving and most importantly road users and road workers safe. The statistics below give you an idea of the scale of our winter operations across all six of our road projects.



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SEVERE
WEATHER
DESKS





1NSTANCES OF MINOR FLOODING
NUMBER OF OCCASIONS OF MINOR FLOODING TO NETWORK
DURING EXTREME RAINFALL THIS SEASON WHERE THE
DRAINAGE CANNOT COPE WITH THE INTENSITY OF THE RAIN
AND TRAFFIC MANAGEMENT IS REQUIRED TO MANAGE
TRAFFIC PAST THE FLOOD



Supporting Road Worker Safety

OUR 6TH YEAR OF PARTICIPATING IN BRAKE'S NATIONAL ROAD SAFETY WEEK





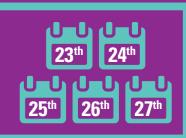
RAISING AWARENESS OF ROAD WORKER SAFETY WAS OUR TOP PRIORITY

WE VISITED THREE SCHOOLS AND HELD ASSEMBLIES ON ROAD SAFETY



WE INTERACTED WITH 2,000 MEMBERS OF THE PUBLIC AND 1,500 SCHOOL PUPILS

ONCE AGAIN WE TOOK OUR ROAD SAFETY ROAD SHOW AROUND THE UK WITH NINE EVENTS IN FIVE DAYS



ZERO HARM OBJECTIVES MET

- 1. PUBLIC AWARENESS OF ROAD WORKER SAFETY RAISED
- 2. SAFETY MESSAGES FROM ROAD WORKERS SHARED ON TWITTER
- 3. HGV DRIVERS TARGETED AT SPECIFIC LOCATIONS
- 4. BALFOUR BEATTY EMPLOYEES
 ROAD WORKER SAFETY
 AWARENESS RAISED



04

Planned Major Maintenance

Each year we identify specific locations for maintenance schemes. During 2016 the following significant schemes will be executed:

A50 Adding Value

The majority of our major maintenance interventions are undertaken overnight or at weekends to minimise delay and disruption to road users. Further details of all planned lane and road closures, and associated diversions routes can be found at www.highways.gov.uk/traffic-information (Refer to the Current and Planned Roadworks tab).



If you'd like to contact

us about any of these

planned works please

email connect@

connectroads.com





A50 Sustainability

A50 Our People

Research and Innovation Update

Connect Roads positions itself at the core of highways research and innovation. Collaboration with the Centre of Innovative and Collaborative Construction Engineering at Loughborough University moves to its last stage this year with two Engineering Doctorate (EngD) projects being completed. Connect Roads is also partnering with Derby University to progress a third research project, focusing on how to eradicate the miss-use of lay-bys (defecation, litter, etc.) on Trunk Roads.



Theodoros Stylianides



Vivi's EngD project, in collaboration with the Engineering and Physical Sciences Research Council (EPSRC), focuses on road worker safety on highways and the risk associated with hard-shoulder incursions. Its purpose is to develop a management tool for the deployment of works, according to the safest traffic and weather conditions at a specific location and time: this will enable highway operators to address this issue in a more systematic way. Sensor-based systems have been installed on the M1-A1 Link Road to continuously monitor hard-shoulder incursions. A range of specialist subcontractors and suppliers — such as NavTech Radar and Clearview Intelligence – have been engaged, while Highways England has also actively supported and contributed to the project through the provision of two radar detection units. Vivi is presenting this work at an international conference in July and has also published hard-shoulder risk analysis work in the Journal of Safety Research and the Journal of Transport and Health.

Theo's EngD work is similarly nearing the implementation stage. Looking at the deterioration of Highway Filter Drains (HFD), a new management system is being proposed around a strategic framework that highlights condition evaluation and deterioration projection. The project aims to outline a holistic maintenance management system that defines investment requirements and prioritises work while considering in-service and hand-back requirements. In the past year Theo has published findings and proposals in the ICE Infrastructure

Asset Management Journal, presented HFD asset management thinking to the East Midlands Chartered Institution of Highways and Transportation, and will soon be traveling to Portugal to attend the International Conference of Transportation Geotechnics. Working with our external collaborators (PTS Limited) and adopting elements from the research work, on-site HFD non-destructive evaluation was recently undertaken on the A50 Blythe Bridge bypass. Theo proposed the use of Ground Penetrating Radar (GPR) as a cost-efficient means to collect condition data for the many km-spanning HFD asset. The A50 presented an excellent opportunity for on-site validation and an air-coupled GPR unit was used to study the deteriorated characteristics of in-service HFD sections

the University of Derby to undertake a study with the aim of changing the behaviour of a small, but significant number of road users who perceive it as acceptable to use lay-bys as toilets. Phase one of the study has been completed and consisted of data collection, evaluation of key drivers of behaviors and subsets of intervention approaches,. From this a road-map for phase two was developed and methods to change behavior proposed. This consists of developing a number of strategies to dissuade people from this hazardous practice. The study has led to interest being shown from many parties, including other operators and Highways England, for whom it recognises this is an issue across its whole Trunk Road network.

In its latest research Connect Roads has instructed

Theo Stylianides

Asset Manager

How long have you worked on the A50?

4 months!

What do you enjoy about your job?

A few things in fact; in no particular order of importance: Exploring and evaluating the dynamic nature of road networks, looking at how ageing and renewal rules are defined, the fact that every challenge is an opportunity, the systems approach in managing pavement assets, the complexity of our modelling and how that translates to decision making and life cycle cost establishment for 5, 10 or even more years of planning horizons.

What do you do in your spare time?

I play the guitar (quite badly) and I spend time in basketball courts. I invest some time in a deep corner of Loughborough University Civil Engineering laboratory and I read fantasy novels. A lot of them.

Do you have a message for road users?

That is straightforward I guess! Be safe! People are unpredictable and often make mistakes. Share the road, think ahead when driving, show courtesy and respect all road users and road workers.



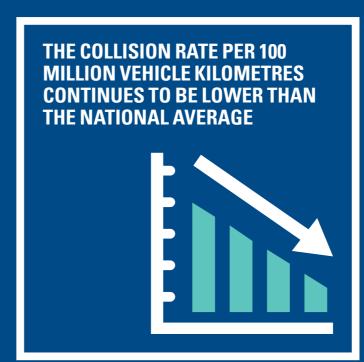
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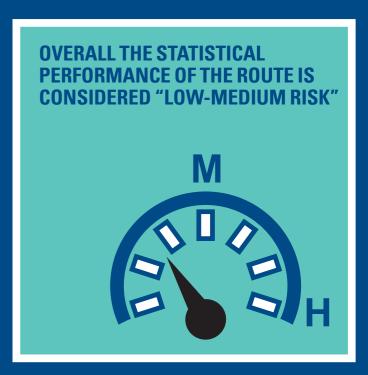
Performance Monitoring

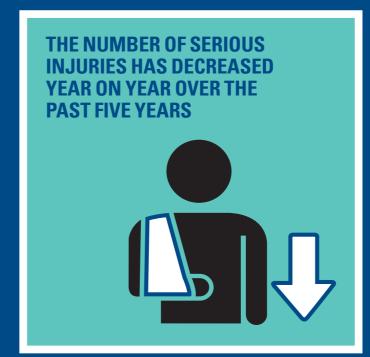
Various performance indicators are reported to our client as follows:

Customer Satisfaction	Target	Actual	
Number of enquiries received in the year	_	131	
Number of complaints received in the year	-	13	
Number of complaints received in the year requiring corrective action	-	0	
Complaints requiring corrective action that were closed within 15 working days	95%	100%	
Response to Emergency Incidents			
Emergency incidents for which an immediate response was required in year	_	105	
Call-outs to emergency incidents achieved within the response time defined in the contract	100%	100%	
Average response time achieved for ISU call-outs compared to the response times defined in the contract	<65%	43.75%	
Network Availability			
Peak availability	98.5%	99.95%	
Off-peak availability	98%	99.94%	
Night time availability	98%	99.92%	
Street Lighting Outages			
Category 2 (high and medium) outages fixed within target time	100%	100%	
Reactive Maintenance			
Response to Category 1 defects within contractual requirements	100%	100%	
Category 1 defects repaired in 7 day response time	100%	98%	
Category 1 defects repaired in 28 day response time	100%	100%	
Average time for repair of 7 day Category 1 defects	5 days	5.4 days	
Rolling 12 month % of Category 1 '24 hour' defects which remain open and overdue	_	0%	
Rolling 12 month % of Category 1 '7 day' defects which remain open and overdue	-	0%	
Rolling 12 month % of Category 1 '28 day' defects which remain open and overdue	-	0%	
Number of Man/Hours worked in the year	_	53,515	
Number of 'RIDDOR' reportable incidents in the year	-	1	
Number of minor injuries in the year	-	1	
Number of reported incidents of ice on the network in the year	_	0	

Road Safety Performance

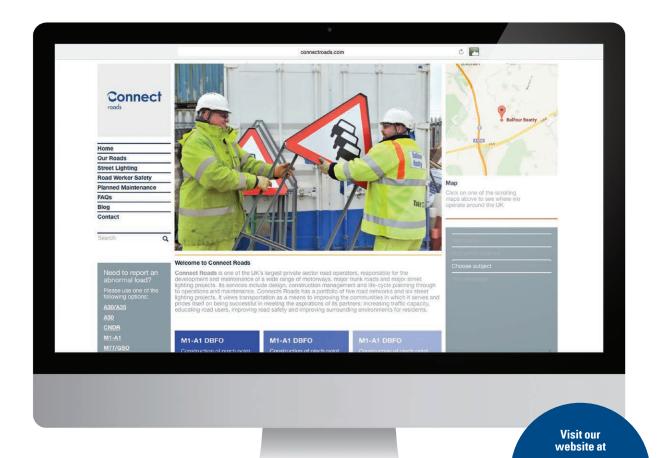








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connectroads.com

for our latest news and updates on planned maintenance

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Connect

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