



Aging Assets 2024



A Civil Engineering Contractors Association conference

Aerospace Bristol • 24 October 2024

Kindly sponsored by:

**Sir Robert
McALPINE**

Welcome

Thank you for joining us at the first Aging Assets conference, arranged by the Civil Engineering Contractors Association.

We wanted to bring this event together in recognition of the clear shifting direction that we are seeing in terms of the future of investment in our nation's transport networks. Where historically transport construction would have been meant building new roads and railways cutting across the country, our future will see companies and clients working together to optimise a network that largely already exists.

In its second National Infrastructure Assessment last year, the National Infrastructure Commission set out its priorities for long-term investment in our roads (right). In doing so, it highlighted the fact that the overwhelming majority of improvements that it expected to see are to address weaknesses of existing network assets, rather than the building of new connections.

Similarly, in its PR23 Final Determination for Network Rail's 2023 periodic review, the Office of Rail and Road flagged up an increase in spending on the sustainability of core assets.

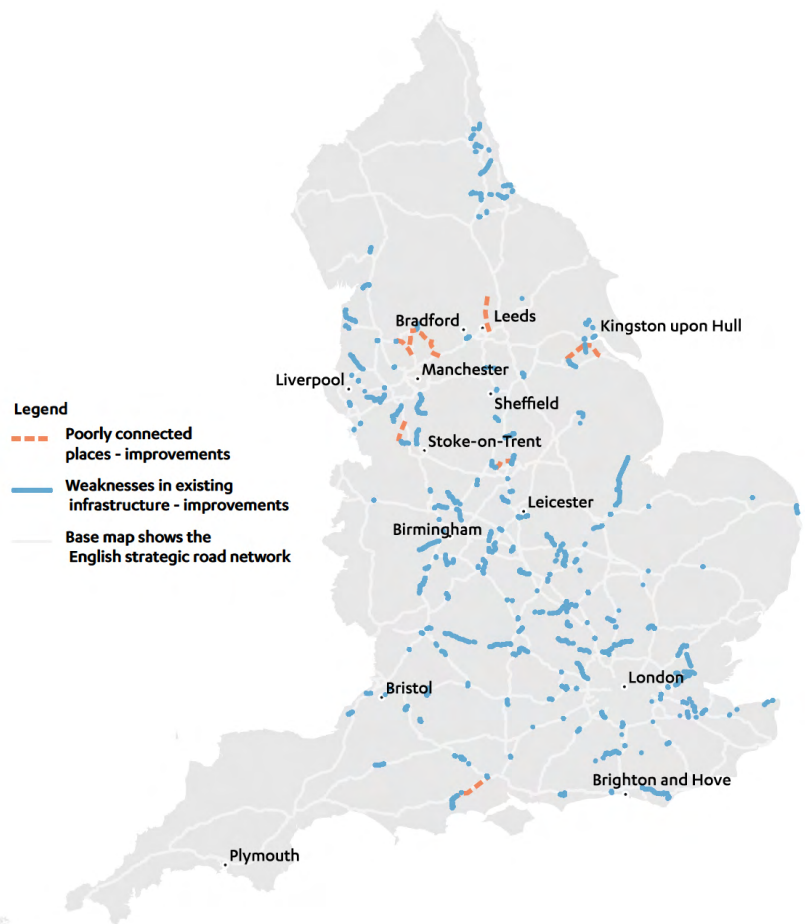
This new focus not only seeks to ensure that we address failing structures and maintain networks in a way that ensures they can be used for decades to come, it also addresses the increasing need for infrastructure resilience in the face of the impacts of climate change.

But a changing market may also require change from industry – with new demands for skills, innovation and delivery models. We know that transformation can best be fostered where industry works together. We hope that today can see the launch of a new Aging Assets community, that works together to meet these new challenges head on.

Thank you all for attending, and to our sponsors Sir Robert McAlpine for ensuring that the event could be free and open to everyone from across the sector. I hope it proves to be the start of a brilliant new community.



Alasdair Reisner, Chief Executive
Civil Engineering Contractors
Association



A handwritten signature in black ink, appearing to read 'Alasdair'.

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Agenda



09.00 - 10.00 | Registration & Networking Breakfast

Attendees check in and enjoy a light breakfast while networking with other professionals, under the wings of the iconic supersonic airliner Concorde.

10.00 - 10.10 | Opening Remarks



Alasdair Reisner
Chief Executive
Civil Engineering Contractors Association

10.00 - 10.25 | Morning Keynote Address: "The Future of Infrastructure Management in the UK"



Lilian Greenwood MP
Minister for Roads and Local Transport
Department for Transport

10.25-11.10 | Discussion: Challenges and Opportunities in Managing Aging Infrastructure



Jason Hones
South West Director
National Highways



Paula Claytonsmith
Chief Executive
LCRIG



Tony Gates
Executive Managing Director -
Infrastructure
Sir Robert McAlpine



Steve Davies
Concrete Repair Association

11.10-11.25 | Coffee Break

11.25-11.50 | Case Study - Scheme Delivery Framework



Dave Williams
Divisional Director
VolkerLaser

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11.50 - 12.10 | Workshop - Meeting the Resource Challenge

Presentation of proposals for a new Aging Assets Community - interactive session with Slido, discussing best practice and strategies for collaboration.

12.10 - 12.35 | Case Study - Delivering a more resilient rail in the South West



Richard Watts
Rail Sector Director
BAM Nuttall



Yan Sayles
Senior Project Manager - Western
BAM Nuttall

12.35-13.30 - Lunch Break and Exhibition Visit

Lunch, accompanied by the opportunity to visit the Aerospace Bristol museum

13.30 - 13.55 | Afternoon Keynote - The ORR View of Aging Assets



Rachel Gittens
Deputy Director of Strategic Road Network
Office of Rail & Road

13.55 - 14.25 | Panel Discussion: Policy for Aging Infrastructure



Simon White
Managing Director
Core Highways



Sara Zuin
Senior Policy Advisor
Chartered Institute of Highways and
Transportation



Dr Ian Lancaster
Director
Asphalt Industry Alliance



Matthew Crouchman
Technical Director
Buro Happold / ACE

14.25 - 14.55 | Concrete Repairs - A19 Structures



John Drewett
Group Marketing Director
Concrete Repairs Ltd

14.55 - 15.00 | Closing Remarks & Future Directions

Summary of the day's discussions and insights, and a look at the next steps for managing aging infrastructure assets in the UK.

15.00 | Post-Event Visit

Opportunity for attendees to visit the restoration hangar for a guided tour on how Aerospace Bristol is bringing its own assets back into use.

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Case Study

Replacing the A533 Expressway Bridge

The Aging Assets conference has been possible thanks to the kind sponsorship of Sir Robert McAlpine. Here they provide details of a project that they were involved in that highlights many of the themes being discussed at the conference.

The A533 case study highlights the successful replacement of the A533 Expressway bridge over the M56 in Cheshire, a project undertaken by the AmeySRM joint venture, on behalf of National Highways.



The existing single span post-tensioned bridge, built in 1971, had deteriorated in recent years requiring intervention measures such as strand monitoring and temporary propping. It was a vital connection for people living and working on both sides of the motorway. The new bridge, a 67-metre two-span steel and concrete structure, was constructed to provide a single two-lane carriageway and a combined footpath and cycleway.

Problem Identification and Solution

The primary challenge was to replace the existing bridge without causing significant disruption to the local communities and the 100,000+ daily road users. It also carried essential internet and water services to hundreds of thousands of residents in Cheshire and Merseyside, necessitating a creative engineering solution to minimise disruption.

Innovative Construction Approach

To address these challenges, the Integrated Project Team decided to build the replacement bridge deck offsite and move it into position over a single weekend. This approach reduced the programme of work by 12 weeks, resulting in shorter

roadworks, less disruption, and reduced costs. Collaborative planning sessions between technical designers and the construction team ensured that all internal stakeholders supported the plan. The National Highways Operations division contributed to the design, ensuring minimal disruption during future maintenance.

Community Engagement

The project team prioritised early engagement with the community and key stakeholders to ensure everyone was informed about the project. They used a 3D visualisation and an innovative animated diversion route map to help road users understand the need for the closure and the expected traffic disruption. The team also ran a colouring competition with a local primary school to raise awareness of the closures. Key external stakeholders, such as Halton Borough Council, MAG Airports for John Lennon Airport, Cheshire Oaks McArthur Glen outlet village and Mersey Gateway, were kept well-informed.

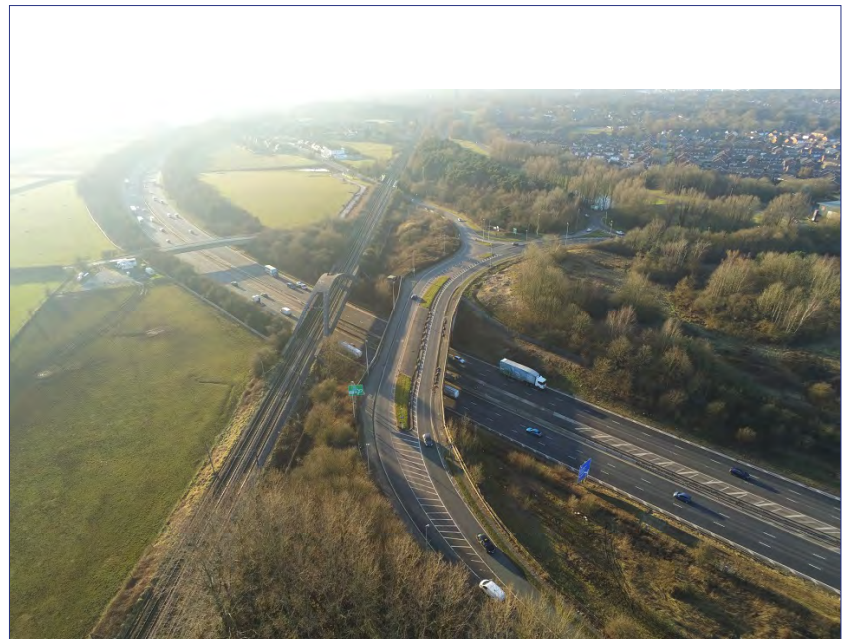
Social Value and Community Benefits

The project team allocated £25,000 to eleven grassroots community projects local to the site as part of the Strong Foundations Grants for 2022. At the A533 topping-out ceremony, official cheques were presented to several organisations, celebrating community involvement. The project team also supported mock interviews and career events at local schools and colleges, furthering their positive impact on the community.

Engineering Excellence

The bridge replacement involved jacking up and installing the new 1,200-ton bridge deck using Self-Propelled Modular Transporters (SPMTs). The team dealt with a technically challenging 6% slope along the route from where the bridge deck was manufactured to the final location. The motorway was closed for 57 hours but reopened a day early, thanks to the efficient work of the crew members.

In conclusion, the A533 project exemplifies how innovative engineering solutions and effective community engagement can successfully address complex infrastructure challenges while minimising disruption and maximising benefits for the local community.



The A533 project recently won CECA North West Project of the Year over £5 million. It was also ICE North West Constructability Award Winner, CIHT North West Project of the Year above £5m, CIHT North West Best Practice Highly Commended for the Customer Engagement, and International Green Apple Environmental Award for Sustainable Development.

Video: Watch as the new A533 Expressway Bridge is rolled into position:

<https://youtu.be/If86e0D7Vbw?si=OLDbYSljkoLEN5ua>

Video: Watch the demolition of the old A533 Expressway Bridge:

<https://youtu.be/QiibJ8CaQeg?si=Ih7ZqXBLIVtqQUxQ>

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Aging Assets

Conference Information

Getting to the Conference

Aerospace Bristol is located on Hayes Way, adjacent to the historic Filton Airfield, where every British Concorde made her maiden flight.

Aerospace Bristol
Hayes Way
Patchway
Bristol
BS34 5BZ

Parking at Aerospace Bristol

Aerospace Bristol is not within Bristol's Ultra Low Emission Zone (ULEZ). It offers free parking for all visitors and event guests, however, as a charity, donations are welcomed from guests.

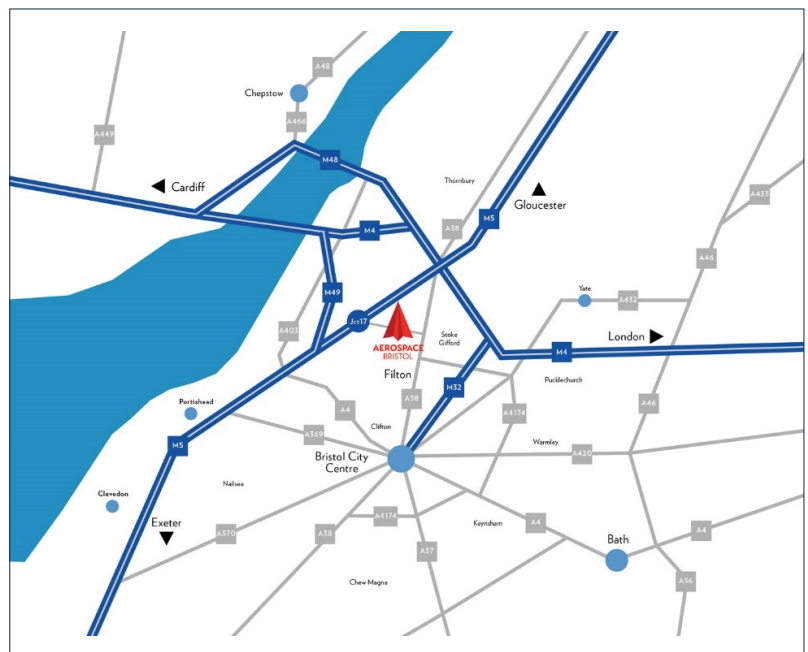
There are two donation points situated in the car park - with the option to donate by cash or card.

Getting There

Please note that the above post code does not take you to the exact location of the museum, so we suggest you check Google Maps before setting out. Alternatively, you can pinpoint our exact location using what3words - search *pilots.factories.chew* to find the museum entrance.

There are brown signs along three routes:

- From M5 junction 16
- From M5 junction 17
- Along the A38 from the Filton Roundabout (by the Air Balloon pub).



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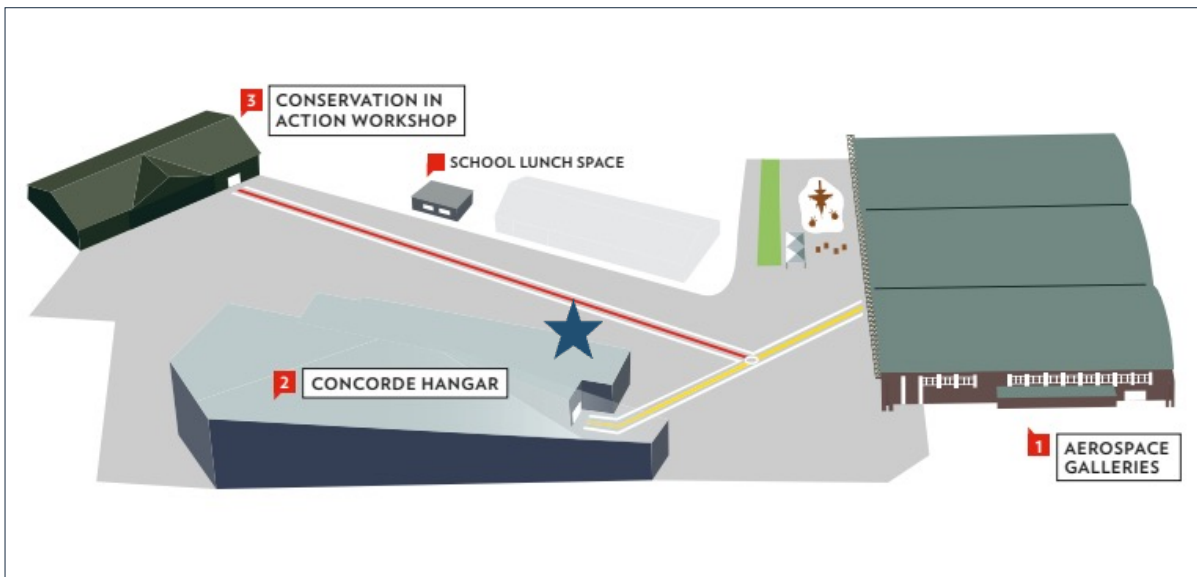


Aging Assets

Conference Information

At the venue

The Aging Assets Conference will be held in the John James Theatre at Aerospace Bristol, illustrated by the blue star on the map below:



Photography & GDPR

It is our intention to record the event and photo- and videographers will be capturing content throughout the day, with the content used in subsequent communications activity by CECA and partners. If you would prefer not to be included in any photo or video content please let the organisers know beforehand.

With thanks to our hosts:

