

TIES Living Lab: Accelerating the adoption of MMC and Innovations through cultural change

Wednesday 25 May 2022 10.00am – 4.00pm
Transport for London, 5 Endeavour Square, Stratford E20 1JN

Welcome to our first in-person conference, showcasing a range of the innovative projects to come out of the Government's TIES Living Lab programme, collectively known as the 'Demonstrator' projects.

You will be hearing first-hand from the project teams as well as gain insight from leaders across the transport infrastructure sector, who will share their vision on how the work of TIES Living Lab will support a drive for cultural change in their organisations, so that a clear and lasting legacy is created.

Please be ready to question and discuss how the outcomes of the four physical demonstrator projects: a footbridge designed to fit any station, anywhere, a new generic standard for equipment rooms, the automation of cable route management system designs and cooling panels that tackle the heating issues in tube networks, will help drive a fresh approach to future transport infrastructure projects utilising Modern Methods of Construction (MMC).

With a greater consideration of whole life value from the outset, the TIES Living Lab projects align to the Government's objective to accelerate the wider adoption of MMC. At this event we will provide evidence of the benefits, around the key themes of cost effectiveness, sustainability and productivity.

Agenda

9.30

Registration and tea/coffee on arrival

10.00

Welcome from our host, Antony Oliver



Antony Oliver is former Editor of NCE magazine (The Institute of Civil Engineers journal) and Infrastructure Intelligence magazine (Association of Consulting Engineering journal)

10.10

Keynote address – Welcome to the TIES Living Lab conference (pre-recorded address)



Lee Rowley, Parliamentary Under-Secretary of State for Business and Industrial Strategy (BEIS)

10.20

Reflections of TIES Living Lab and Expectations for Cultural Change



Neil Robertson – CEO of NSAR and TIES Living Lab Programme Director

10.40

The Benefits and Opportunities: Major Infrastructure Project Perspective Senior Leader Panel Discussion Hosted by Antony Oliver



Stuart Harvey,
Chief Capital Officer, TfL



Neil Robertson,
CEO, NSAR



Speaker programme as confirmed at time of print. Others may be present on the day.

11.25

Introduction to the MMC Ava Footbridge project



Anthony Dewar, Network Technical Head, Buildings and Architecture, Network Rail - Ava Footbridge Project Sponsor

11.40

Project Roundtable: the MMC Ava Footbridge

The 'Ava Footbridge' aims to revolutionise the way we approach footbridge design in both manufacture and installation. It focuses on; a pre-approved system for shorter pre-construction time, faster assembly for reduced costs, minimised whole life carbon, minimised negative climate impact, a revolutionary 'plug and play' lift system, a revolutionary dry, prefabricated foundation, and high-quality durable materials. The TIES project partners are Expedition Engineering (lead design), X-Treme Systems (manufacturing) and Walker Construction (assembly), with Network Rail as the primary client.



Eva MacNamara,
Associate Director, Expedition Engineering.



Andrew Davies,
Infrastructure Sector lead,
Hawkins Brown



Noel Lovatt,
Director, X-Treme Systems



Phil Webb,
Managing Director, Walker Construction

12.15

Lunch break and networking

Take the opportunity to view the Ava footbridge augmented reality model.



13.15

Introduction to the MMC Signalling Equipment Rooms, MMC Cable Route Management System and MMC Cooling Panels projects



Kiren Kainth, Project Manager AV and Cooling, TfL and Project Lead for TIES Living Lab Projects 5, 6 and 7.

13.30

Project Roundtable: the MMC Signalling Equipment Rooms

The Signal Equipment Room, managed by TfL and developed by Mavin Powercube, intends to promote a new generic template for modular equipment rooms which are built off-site, reducing future infrastructure investment time, cost and risk.



Peter Jones,
Premises Engineer, TfL



Russell Bartley,
Founder/Director for Client Services, Mavin Powercube



Craig Rides,
Project Director, Mavin Powercube

14.00

Project Roundtable: the MMC Cable Route Management System

The Cable Route Management System (CRMS) has Bryden Wood Technology as the key supplier. They are delivering a digital tool to show how automation can assist with cable route management feasibility analysis and design. It shows the potential to reduce time, financial cost, risk, (especially delivery team safety risk) by using automated CRMS design software as part of the design process.



Phil Langley,
Director, Bryden Wood Technology



Simon Stockley,
Project Manager, TfL

14.30

Afternoon refreshments

14.45

Project Roundtable: the MMC Cooling Panels

The cooling panels have been developed by SRC Infrastructure and are composed of a curved 'radiator' with internal cooling pipework and forced air distribution. The objective is to find out if they can deliver a more efficient cooling output than the Underground's Platform Air Handling Units (PAHU) yet be significantly easier to maintain. With the introduction of a new fleet of Piccadilly line trains from 2025, heat build-up will continue to be an issue, therefore an innovative cooling solution has been developed to negate this and provide chilled air to TfL's customers.



Anthony Adamson,
Portfolio Delivery Manager,
SRC Infrastructure



Vasileios Vernikos,
Executive Director, SRC Infrastructure

15.15

Effective Exploitation of Innovations within Infrastructure Delivery



Sarah Sharples,
Chief Scientific Adviser,
Department for Transport

15.40

Summaries and Q&A session led by Antony Oliver

16.00

Close

Thank you for attending and participating in today's conference. We hope that you have valued this event. We will be following up with an emailed survey for feedback and thank you in advance for taking the time to complete it.

Save the Date

13 July 2022

TIES Living Lab: A catalyst for cultural change in the Construction Sector - achievements, lessons and legacy

Wednesday 13 July – 10.00am – 4.00pm

This is the final showcase event of the two-year programme of TIES Living Lab and it will be the opportunity to bring together the strands of the ten project outcomes to create a clear vision and message on the legacy that this significant programme has created. It will highlight some of the important recommendations for ways of working in future, such as:-

- Communities of Practice – cross-sector subject specialist groups
- Standards Harmonisation across the sector
- Data-sharing and benchmarking
- Adoption of MMC

Most importantly, it will be demonstrating how the TIES Living Lab programmes has created 'proofs of concept' which align to the objectives of the government's Transforming Infrastructure Performance (TIP) Roadmap, the National Infrastructure Strategy and the Construction Playbook. We will hear how partners from across the transport infrastructure sector has benefitted from collaborative working and are now well placed for a step change in their approach to projects going forward.

This will be a hybrid event – taking place at TfL Stratford as well as online. Look out for your invitation, and be sure to put it in your diary.

Further information on TIES Living Lab: tieslivinglab.co.uk

Press Enquiries: Marion@transportpr.co.uk

For news and developments on all the projects you can follow us on:

 **TIES Living Lab**

 tieslivinglab.co.uk