SNUG 2025

REVOLUTIONISING THE EASTERN BUSWAY PROJECT WITH ADVANCED ITS

AGENDA

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Pete and Paul give their apologies for not being here, Paul is popping wheelies on his motorbike across Turkey and Pete is setting land speed records in Bolivia.

INTRODUCTION

For more than 20 years, TSL has been at the forefront of New Zealand's traffic systems and smart transport technology.

We provide a true one-stop-shop capability, combining civil works, installation, maintenance, and cutting-edge technology to deliver safe, efficient, and future-ready transport networks.

Through exclusive partnerships with leading international suppliers, TSL ensures that NZ customers gain access to world-class, innovative products and solutions.

Together with our partners, we're creating smarter, safer networks for Aotearoa.

SERVICES

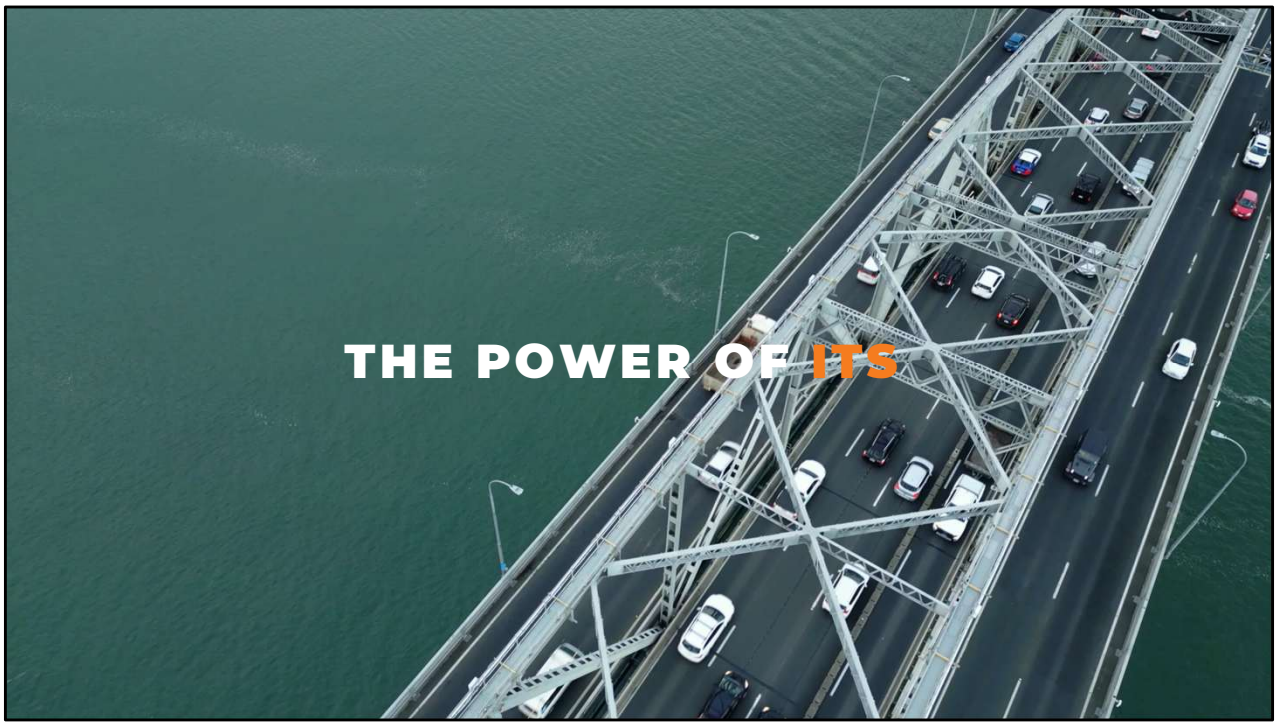






WHAT IS THE EBA PROJECT?

"**MORE** THAN JUST A RAPID TRANSPORT PROJECT"



Smart thinking coupled with some smart tech has had such a positive impact on the public so easily and so quickly

ITS AT THE EASTERN BUSWAY

- EB2 : 8 intersections
- EB3R: 4 intersections
- EB3C: 9 intersections
- ATC Controllers at each
- 16 traffic radars installed over 6 intersections
- Total of 82 PTZ, ANPR & fixed cameras to be installed
- 20 x UPS cabinets combining communications equipment
- 10km of fibre

OVERVIEW

A combined total of 21 intersections will be delivered, each equipped with ATC controllers, UPS units providing 4–6 hours of runtime, 82 cameras, 10 km of fibre, and 16 traffic radars. The TSL team have gone above and beyond in delivering this infrastructure for the Eastern Busway project team. Traffic radars were deployed in areas where loops would have been disruptive or impractical to install, particularly given the ongoing road layout changes. This is another clear demonstration of why radar is the superior option in temporary environments—allowing rapid, simple reconfiguration of detection programs whenever lanes are shifted.

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SEAMLESS TRACKING

"FUSION"

DEVELOPMENTS

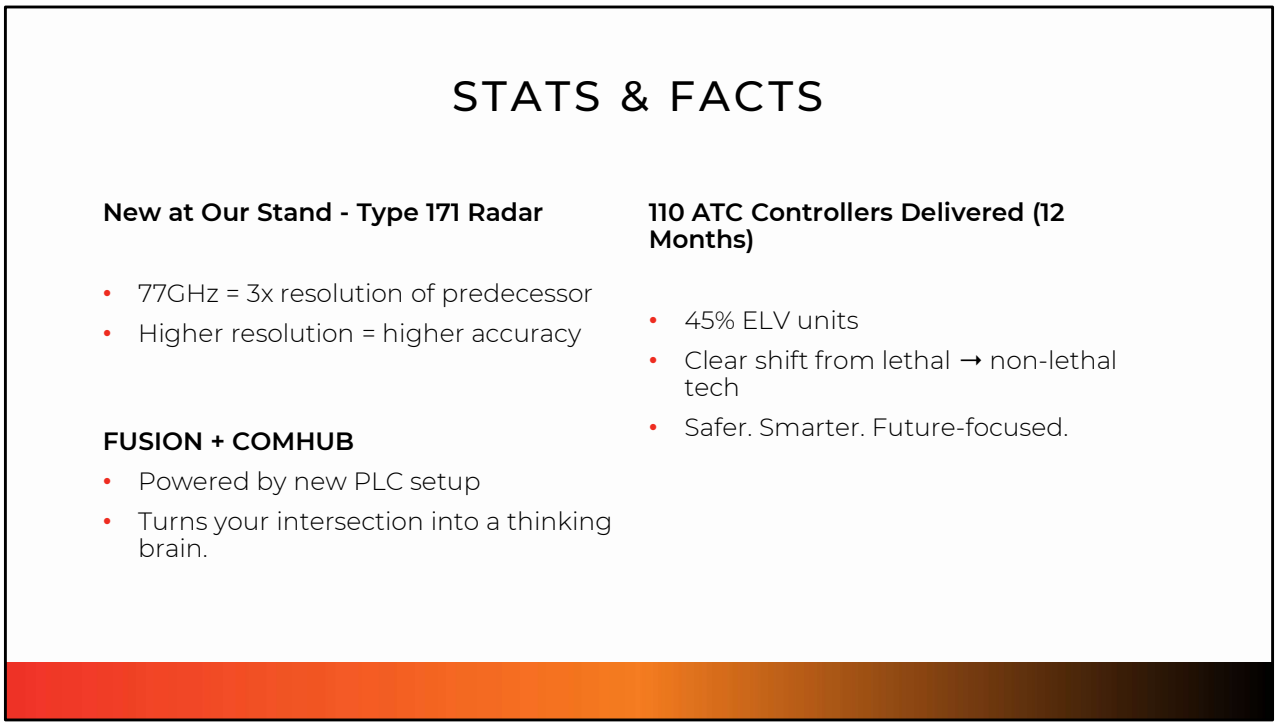
SmartVMS, developed on behalf of Smart City leveraging our electronics and software engineering capabilities.

- Multi-modal travel-time display
- Dynamic detour management
- Customer experience improvements
- Promoting public transport

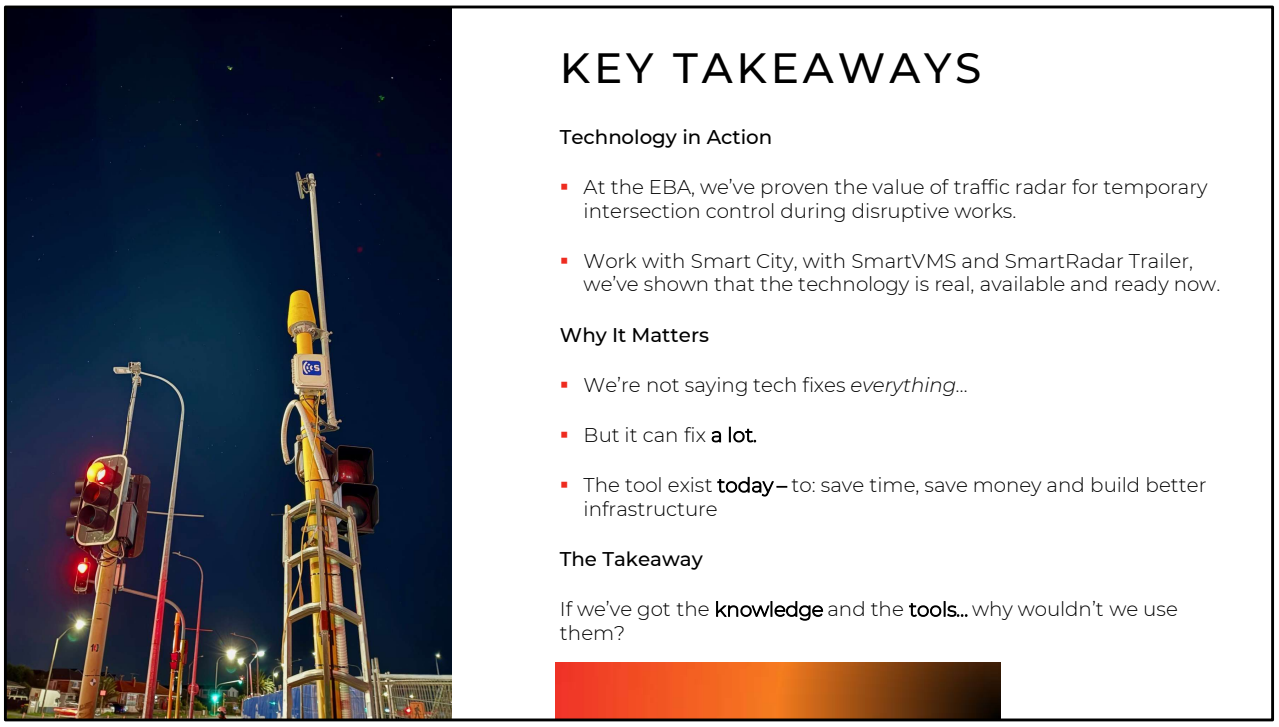
DEVELOPMENTS

SmartRadar Trailer, developed on behalf of Smart City leveraging our electronics and software engineering capabilities.

- Industry first
- 100% solar-powered
- Roundabout turning movements
- Intersection turning movements
- Accurate vehicle classification and speed detection
- Operates under all weather conditions
- Data visualised in real-time through the SmartTraf UI



This year at our stand, we're excited to introduce the new **Type 171 radar**. Operating at **77 GHz**, it delivers three times the resolution of its predecessor—meaning greater precision and significantly higher accuracy.
Alongside the Type 171, we're showcasing **FUSION**, powered by our new PLC setup and **COMHUB**, effectively transforming your intersection into a *thinking brain*.
Over the past 12 months, **TSL** has delivered just under 110 ATC controllers nationwide. Notably, 35% of these were **ELV units**—a strong signal that the sector is moving away from outdated, high-risk technology toward safer, more advanced, and non-lethal solutions.



The work that we've done at the EBA and the utilisation of traffic radar at intersections for temporary control during ever-changing and incredibly disruptive work and the developments we've been involved in with Smart City with respects to SmartVMS and SmartRadar Trailer, shows that the technology is here and it's available. We aren't saying that tech fixes everything, but it can fix a lot and we're in the time where the tools exist. To save time, to save money, to build better infrastructure. So why wouldn't we use them? If we've got the knowledge and tools, we should be doing something with them.
It was a privilege to showcase that to the wider project team at the EBA, and hope you've all learnt something too.


Questions?