CASE STUDY

Forrestfield Airport Link Signage
Tunnel Digital Displays

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Forrestfield Airport Link Signage
New Signs In FAL Transport Corridor

Digital Displays Go Underground

The new Forrestfield Airport Link (FAL) tunnels that connect the eastern hills area and Perth Airport with the City are now going to be a lot more entertaining with 16 new in-tunnel JCDecaux digital displays to engage rail users.

The underground digital signage is an exciting showcase to add to the stark tunnel architecture as trains travel the 8.5km underground. With the addition of 16 new digital displays, each measuring 4.5m wide by 2.5m high, the screens will combine to create high quality advertising displays for passengers. There's no doubt that innovative digital technologies can transform the user experience through engaging and exhilarating content.

The Yap!digital team offered a turnkey solution to this project. As well as the many safety and logistical challenges, the realities of installing a large, flat, digital screen into a round tunnel should not be underestimated – read on to find out how!

Going under – Tunnel Digital Displays

This project started in early 2021. Our scope included end-to-end technology and audio visual services including engineering, shop drawings, OSHE, hardware, housings, logistics and installation for the FAL project due to open in late 2021/early 2022. The Yap!digital works were integral to other FAL tunnel development works, and as with so many projects, time-critical co-ordination with other trades working in the tunnels presented many challenges - as did operating in an environment with live track testing.

From surveying of the recessed cavities, and sub surface scans of the cavity wall, our designer prepared detailed preliminaries and shop drawings. Following engineering sign-off our project management team developed and OSHE plan including full medicals, D&A and inductions.

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Tunnel Challenges & Innovative Solutions

One of our first and most difficult challenges was to work out how to get the digital screens into the tunnels and moved into position. Innovation drove our solution.

Juggling between a live working site and other trades working in the tunnels, the solution involved specially engineered transport jigs to carry and lift each screen into the cavity wall. The team performed an installation simulation in the factory to ensure the jig methodology was sound. Once the screens were populated into the housings final electrical tests and calibrations were recorded.

The transport cradles and jigs were then used to transport the 16 screens to site. The design of the transport cradles allowed them to be transported from the hiab to the railway track, making use of the Road-Rail-Vehicle (RRV) hiab to transport the screens through the tunnels and then to access each screen location – including lifting each 800kg screen and frame assembly into place. Working with the Track Protection Officer, PTA, Salini, and rail authorities to achieve all 16 installations in our allocated time slot put a lot of pressure on the teams – working tightly scheduled shifts to achieve the deadlines.

With the screens installed during November 2021, but the tunnels not live, another challenge was preservation of the screens pending the go-live date. Again our team designed an innovative solution, by means of the installation of 3mm thick protective aluminium sheeting mounting over the screens.

Project Snapshot

Project: Digital display signage – X-track
Locations: Redcliffe, High Wycombe, Airport Central
Environment: Internal – tunnel
Client: JCDecaux
Date: 2021-2022
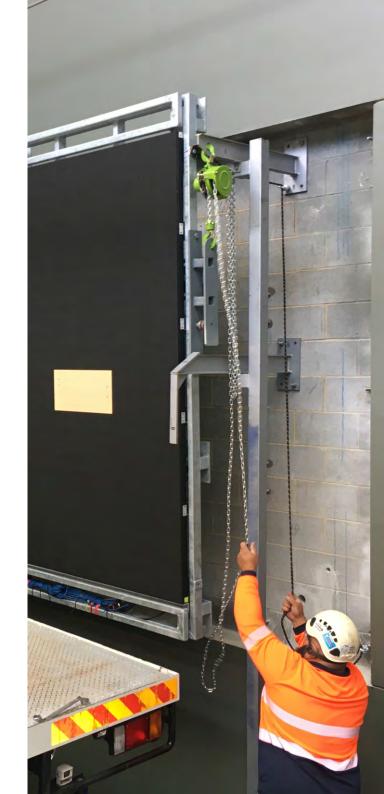Features: Sixteen digital displays - Xtrack – installed in the new FAL tunnels involving innovative installation methodology and precise time management working in the live tunnels.

The Yap!digital Solution

Yap!digital was excited to be chosen to deliver the new JCDecaux digital displays. Based on our track record for complex digital installations in the west, our project management team rose to the challenge. To find out more about our services or read our other digital signage Case Studies, go to www.yapdigital.com.au or get in touch today on 08 9274 5151.

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More About the FAL Project

The $1.86 billion Forrestfield-Airport Link is jointly funded by the Australian and Western Australian governments and will deliver a new rail service to the eastern suburbs of Perth – with three new stations at Redcliffe, Airport Central and High Wycombe.
The rail link, to be rebadged the Airport Line when it becomes operational, forms part of the METRONET vision to create liveable communities connected by world class public transport. The line will spur off the existing Midland Line near Bayswater Station and run to High Wycombe through twin-bored tunnels.
First trains will operate on the new Airport Line in the first half of 2023. For more information visit https://www.forrestfieldairportlink.wa.gov.au/

Static Signage for the FAL Project – Signs & Lines

Parent company Signs & Lines were commissioned for the static signage at each railway station – both internal and external. For more information read our Case Study at:- www.signsandlines.com
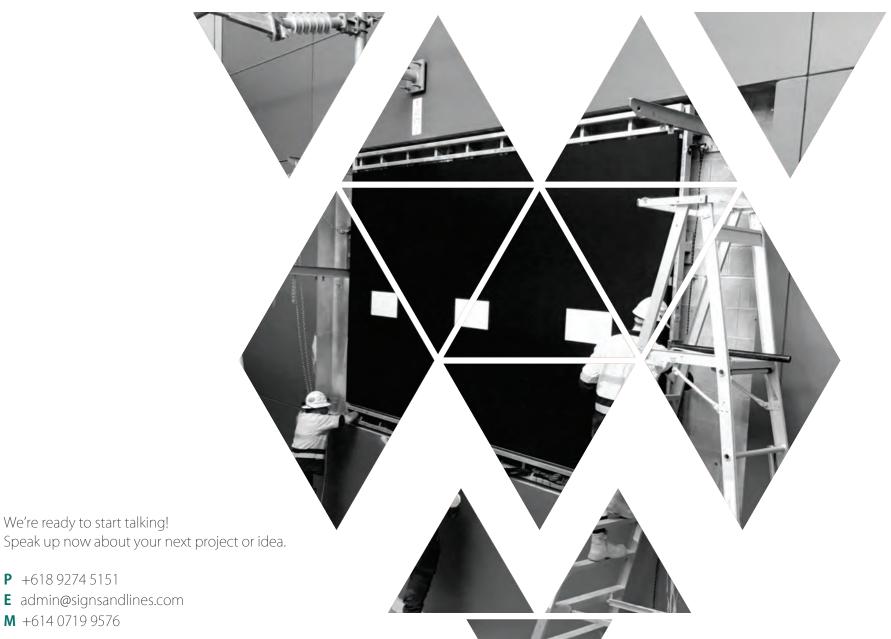
The Final Wrap

The Yap!digital team will give you non-biased recommendations and gear your signage to the future. We are not affiliated to any brands which gives us maximum flexibility to design a solution based on the technology that fits your requirements the best. Find out more at: www.yapdigital.com.au.

OurYap!digital team will also bring you their experience of static and digital signage solutions will ensure that your customers and users have an outstanding experience next time they visit you.

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We're ready to start talking!
Speak up now about your next project or idea.

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