SA Coastal Councils Alliance – 2022 Coastal Forum

Regional Benefits of coastal infrastructure investment

Case Study –Whyalla's Circular Jetty

Justin Commons
Chief Executive Officer

UNEARTH WHYALLA

Introducing Whyalla's Multi Award Winning Circular Jetty…

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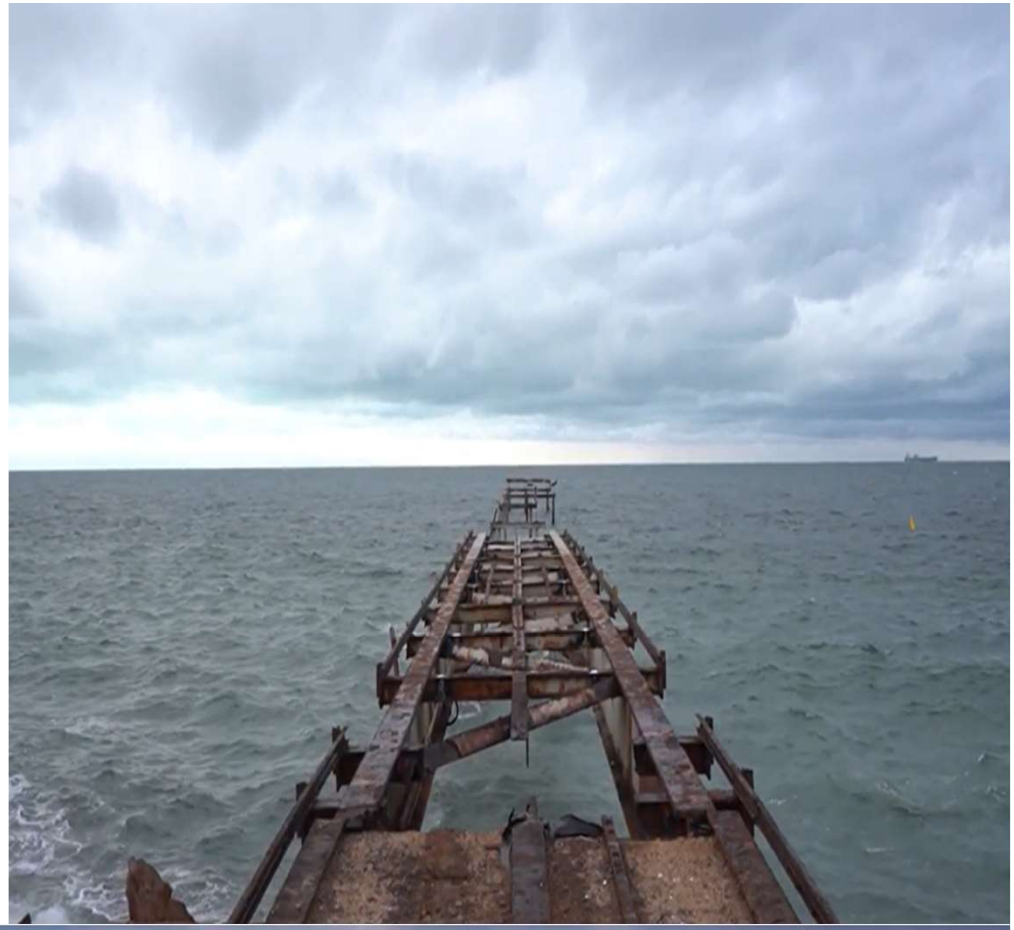
THE WHYALLA JETTY OF OLD

Demolition of the 40+ year old jetty, commenced on 11 September 2019.

Council ensured as much of the former jetty as possible was recycled, rather than going to waste.

All of the structural steel – which was originally manufactured at the Whyalla steelworks in the 1970s – was recycled back through the operations from which it came, ensuring a 'full circle' journey for this important piece of infrastructure.



COMMUNITY ENGAGEMENT

Extensive community engagement, regarding the community's needs for a new facility, enabled Council to formulate designs that reflected the community's priorities and goals.

This ultimately led to the innovative circular design, providing a unique experience for both locals and tourists. Other key aspects identified through consultation were inclusive access, additional length and width, shelter, seating, lighting and windbreaks, all of which were incorporated.

Further linking the jetty to the local community, is the shape and colour, which blend with the natural environment to create a seamless connection / integration with the surrounding foreshore.

This will be further enhanced as it is meticulously integrates into Council's broader Foreshore Master Plan, making the entire foreshore area a destination of choice.

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KEY ELEMENTS TO THE BUILD

This landmark project was built using high-quality, high-strength materials – including locally-made Whyalla steel – ensuring it is built to last for at least the next 80 years.

Local residents were actively consulted to guide the project from inception through to delivery to ensure community aspirations and needs were fulfilled.

A perfect example of the engineering complexity of the build, was the fact that the jetty was built using an out-from-shore method, while also consisting of 50 uniquely-shaped concrete sections.

Due to the off-set circle in the middle of the design, almost every piece is different and had to be designed, built, delivered and installed to exact specifications and in its exact location. Each section also had only 10mm tolerance (in order to fit onto four fixed pins in the framework below), so precision was paramount, meaning the engineering had to be first-class.

Problem solving and negotiation were critical in the design, approval and construction of this asset. Jetties are rarely built, meaning there are no 'industry standard' specifications for how they should be designed and constructed. This created numerous problems which needed to be tackled, negotiated and solved.

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MAXIMISING COMMUNITY/REGIONAL ECONOMIC BENEFITS

- Design with climate change in mid – New jetty 1.5 meters higher than previous jetty
- Maximise useful life of asset – change in materials (eg glass fibre reinforced rods as opposed to steel) and design (eg individual panels) doubled useful life
- Maximise functionality/appeal (eg: Lighting, all access)
- $7.8m cost spread across life of jetty – less than $10 per ratepayer per year
- About 100,000 visits in its first year, with visitor numbers peaking at nearly 3000 per week
- Multiple (state and national) awards
- Coverage from various media and social platforms reached tens of millions of people, showcasing Whyalla to the world
- Catalyst for development – Foreshore MP + Hotel

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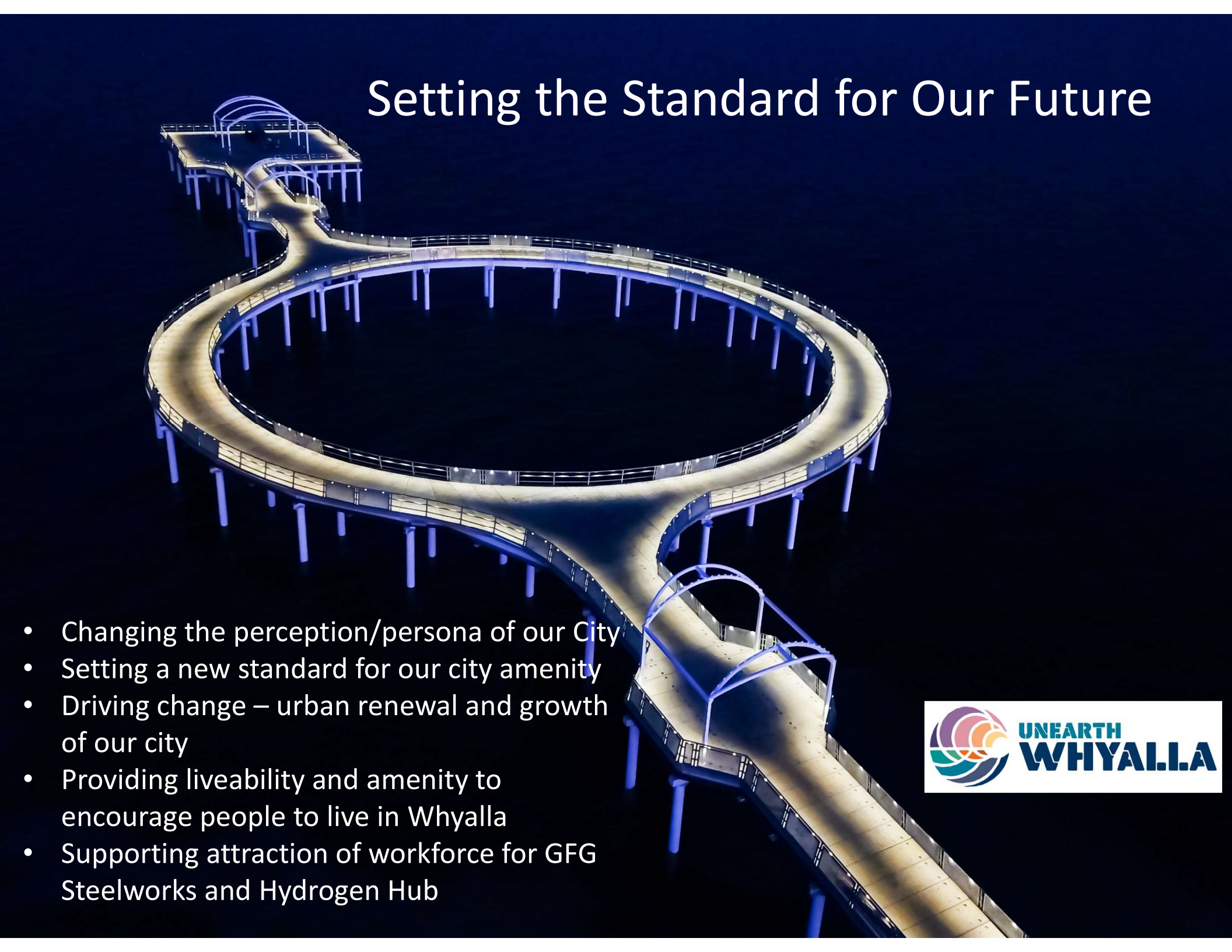
Setting the Standard for Our Future



- Changing the perception/persona of our City
- Setting a new standard for our city amenity
- Driving change – urban renewal and growth of our city
- Providing liveability and amenity to encourage people to live in Whyalla
- Supporting attraction of workforce for GFG Steelworks and Hydrogen Hub

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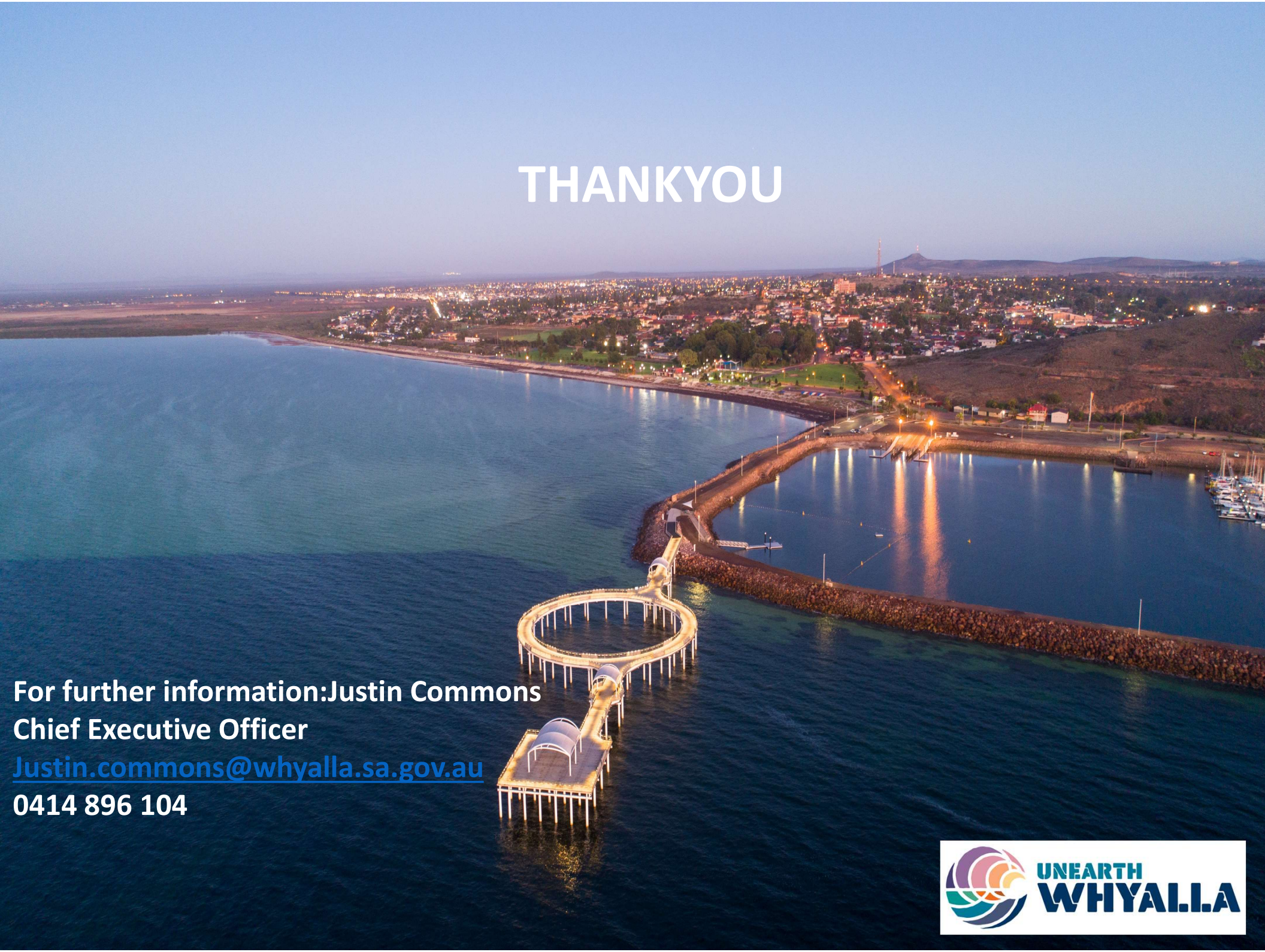
Insert fly-over vid (no audio) – use to talk through design elements

THANKYOU



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