



Enzen Australia launches first-of-its-kind digital solution to transform Tasmania's infrastructure

Virtual Tas, a new joint venture with 42-24, will drive economic growth in the Australian state and accelerate the country's transition to smarter, more sustainable energy systems.

Adelaide, 15 June 2022. Enzen, the global knowledge enterprise specialising in energy and water, has collaborated with a Tasmanian state-owned enterprise to launch Virtual Tas – a joint venture entity that will develop, refresh and serve a 4D digital twin of the entire state's above ground infrastructure, built and natural environments.

Developed in partnership with 42-24, a subsidiary of Tasmania's electricity supplier TasNetworks, Virtual Tas is a first-of-its-kind innovation in Australia. It's based on Enzen's Digital Reality Platform, a cloud-based, AI-powered, unique, end-to-end geospatial analytics solution that generates intelligent insights of utility assets in real-time.

Virtual Tas has established a 10-year foundation customer partnership with TasNetworks to provide digital twin services that will enable it to transform its asset management and improve economic and community resilience to natural disasters like bushfires and flooding, plus enhance the quality of power supply to Tasmanians, all in a sustainable and affordable way. It will also drive economic growth in the state by giving its businesses and communities access to the data so they can make smarter infrastructure decisions.

Ian McLeod, Head of Smart Energy and Water at Enzen Australia and Board Director of Virtual Tas, said: "Some elements of the technology have been used for specific purposes within Australia and worldwide, but this will be the first time a whole state has been captured at such high resolution for the specific purposes of supplying high quality data and services across multiple business sectors enabling greater cross-sector collaboration."

James Bangay, Head of Digital at Enzen Australia, said: "The energy transition demands real-time visibility of operations and deeper real-time knowledge of the interdependence between all infrastructures. Virtual Tas integrates a range of data sources and digital solutions, including Light



Detection and Ranging (LiDAR), satellite data, aerial footage, high resolution photography, Big Data modelling and real-time sensed data from Internet of Things LoraWAN networks.

“The outcome is a virtual world view of spatial data at high efficiency and low-cost. The Virtual Tas model can be replicated across different utilities and states in Australia, and will help accelerate the country’s transition to the smarter energy systems of the future.”

Sean McGoldrick, CEO of TasNetworks and Chair of Virtual Tas, said: “Virtual Tas will transform the way we run as a utility. We expect this project will touch every part of our business, from asset management to vegetation management, travelling and making sure our people are safe. It will help to ensure our network is reliable and that we are delivering efficiently and affordably for our customers.”

The development of Virtual Tas will provide the opportunity to deliver safer and more resilient communities at the same time as providing a positive economic impact to GSP of between \$160-\$320m over ten years. Enzen has also received \$2.6m in federal funding from the National Recovery and Resilience Agency’s Preparing Australian Communities grant programme to deliver a disaster risk reduction and community resilience application using annual data and modelling provided by Virtual TAS.

Kelly Walker, Leader of 42-24 and Board Director of Virtual Tas, said: “This is about helping to build a better Tasmania, protecting and saving lives and working smarter. It’s about Tasmanians having the best data models in Australia for preventing and tackling natural disasters, safely exploring our island, and building more efficiently. In recent years, we’ve seen the devastating impact of fire and flood across Australia. The kind of detailed 4D models achieved by Virtual Tas will become a key weapon in how we prevent, plan, rescue and fight back into the future.”

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For more information contact:
Ian McLeod, Director of Smart Energy, Enzen Australia
E: ian.mcleod@enzen.com
T: + 61 407 034 216



About Enzen

Enzen is a global, professional, knowledge enterprise that focuses on gaining, refining and sharing expertise in the energy and utility sector. It provides strategic advisory and execution of outcome-driven solutions to over 250+ leading businesses, governments, non-governmental organisations, and not-for-profits.

Enzen aspires to make energy and water accessible, affordable and sustainable for all through innovative models, technology and applications. We work with customers across the value chain to deliver sustainable and lasting improvements to their efficiency and performance, increasing their value to their customers and owners.

Our goal is to support large consumers of energy and water and improve the sustainability of resources by increasing efficiency and optimising existing operations. Besides this, we develop the commercially successful use of renewable resources to deliver a transformative advantage for our customers.

Enzen is unique in providing a wide range of strategic advisory, engineering services and solutions from end-to-end for the power, water, gas and renewable energy sectors, supported by our specialised and unique Centres of Excellence. It's this focus on sector expertise, experience, insights and learning that means we define our employees as 'knowledge practitioners'.

The business, founded in 2006, has grown to over 4,000 knowledge practitioners and developed across the globe. Enzen now has a presence in Australia, Africa, India, Portugal, Spain, Turkey, the UK and the US and is working on projects in more than 44 countries. Visit enzen.com.