

achieve digitalisation



Empowering communities for a digitalised world

Climate change and extreme weather events are requiring all utilities to adapt. The global energy transition demands urban and rural infrastructure work more efficiently than ever before, delivering reliable life essentials to communities at low-cost and with low emissions.

Fundamental to this is achieving superior visibility of infrastructure networks, so utilities can maximise asset performance in the most sustainable way. Also crucial is understanding more deeply the interdependence between cross-sector systems, from power, water and gas to agriculture, transport and waste.

Enzen's Digital Reality Platform (DRP) is a unique, cloud-based, Al-powered, end-to-end big data environment that works seamlessly with both spatial

and time series data, generating intelligent insights of all above-ground infrastructure in real time.

Applicable to myriad use cases across government, utilities, councils, business, forestry and farming, Enzen's DRP lowers cost, risk and outages, reduces carbon emissions, improves network resilience and enables communities to create prosperous, connected societies that thrive in a technology-enabled world.



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A unique asset inspection solution for multiple sectors

Our solution integrates a range of data sources and digital technologies, supplying high quality data and services across multiple business sectors enabling greater cross-sector collaboration.

The DRP features Light Detection and Ranging (LiDAR), AI, satellite data, high resolution photography, Big Data modelling and real-time sensed data from Internet of Things (IoT) LoRaWAN® networks.

Through this combination, utilities can achieve improved visibility of asset condition and more effective management of assets' surrounding environments, including vegetation.

The outcome is a virtual world view of spatial data at high efficiency and low cost, enhancing the performance of electricity infrastructure, ensuring more reliable power for citizens and mitigating the risks caused by natural disasters.

Moreover, the DRP can drive economic growth by giving businesses and communities access to the data so they too can make smarter infrastructure decisions.



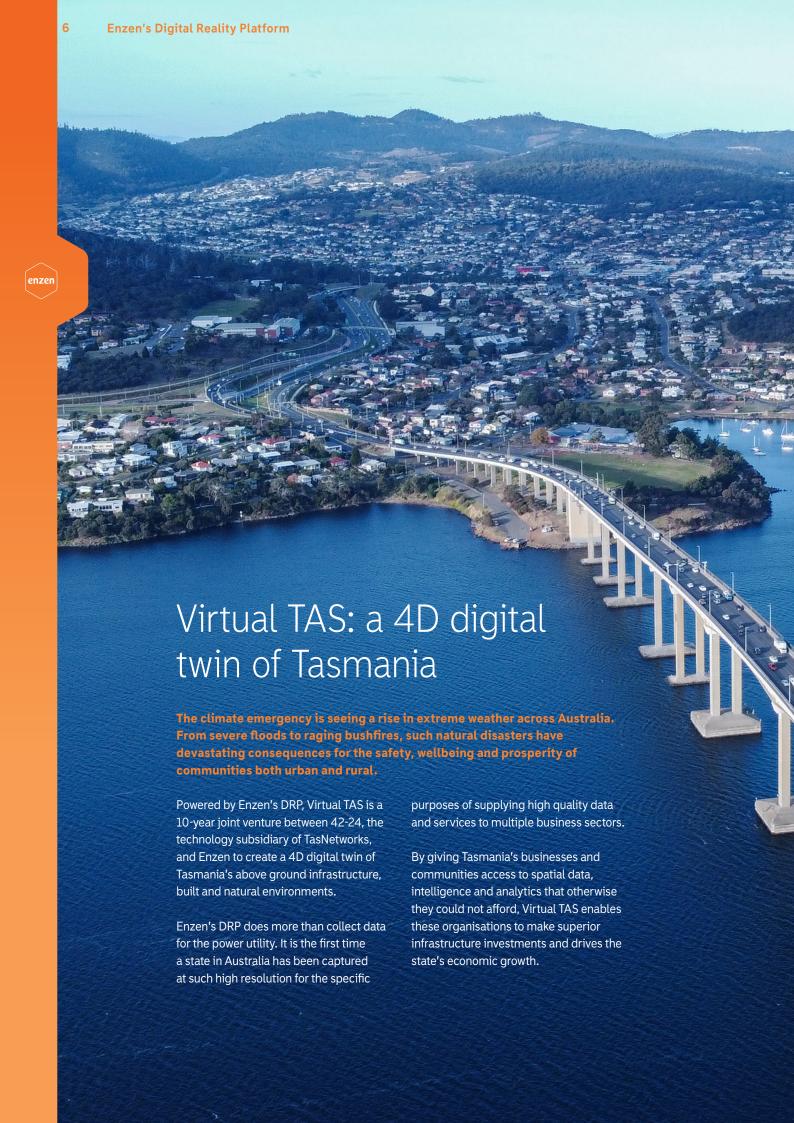
Applications and use cases

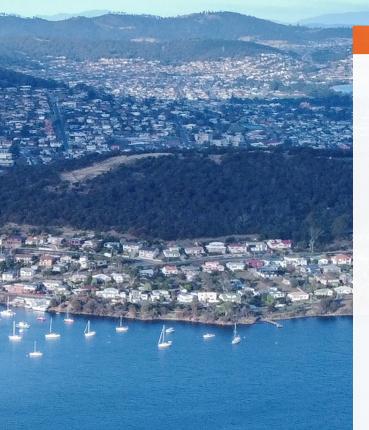
- Safety management
- Water management
- Energy / demand management
- Network / outage management
- Asset management
- Network design
- Disaster resilience and response
- Environmental management
- Vegetation management
- Waste management
- Access management
- Customer services
- Smart metering
- Smart lighting
- Smart parking
- Livestock and crop management
- Asset / material tracking











CASE STUDY

Driving sustainable agriculture in Tasmania

Through Virtual TAS, we are supplying spatial data to agricultural technology innovator Agronomeye, which will use it to build digital twins of individual farms in Tasmania.

This will deliver dynamic insights for the state's farmers on everything from infrastructure and water to biodiversity and carbon farming projects, while enabling them to access new revenue streams like carbon credits.

In a further indication of Virtual TAS's potential, the National Recovery and Resilience Agency's Preparing Australian

Communities grant programme has funded Enzen to deliver a disaster risk reduction and community resilience application using data and modelling provided by Enzen through the vehicle of Virtual TAS.

As the Australian utilities industry focuses on becoming more customercentric. Enzen's DRP is a clear demonstration of how the public and private sectors are using digital innovation to deliver real value for consumers and businesses, creating smarter, more sustainable infrastructure solutions in Tasmania for the long-term.



To learn more about Enzen's Digital Reality Platform, contact:

Australia

James Bangay -Global Leader of Digital Reality james.bangay@enzen.com

UK ·

Srikanth Arya Global Head of Digital srikanth.arya@enzen.com

Virtual TAS

Ian McLeod Director of Smart Energy and Water Enzen Australia ian.mcleod@enzen.com

enzen

nzen Australia 1 King William Street Adelaide SA 5000

Australia

The Hub

Central Boulevard Blythe Valley Park

Solihull

B90 8BG

United Kingdom

enzen.com

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