# Vilicom

a bai communications company

## Offshore & Industrial Private Networks

8<sup>th</sup> June 2023

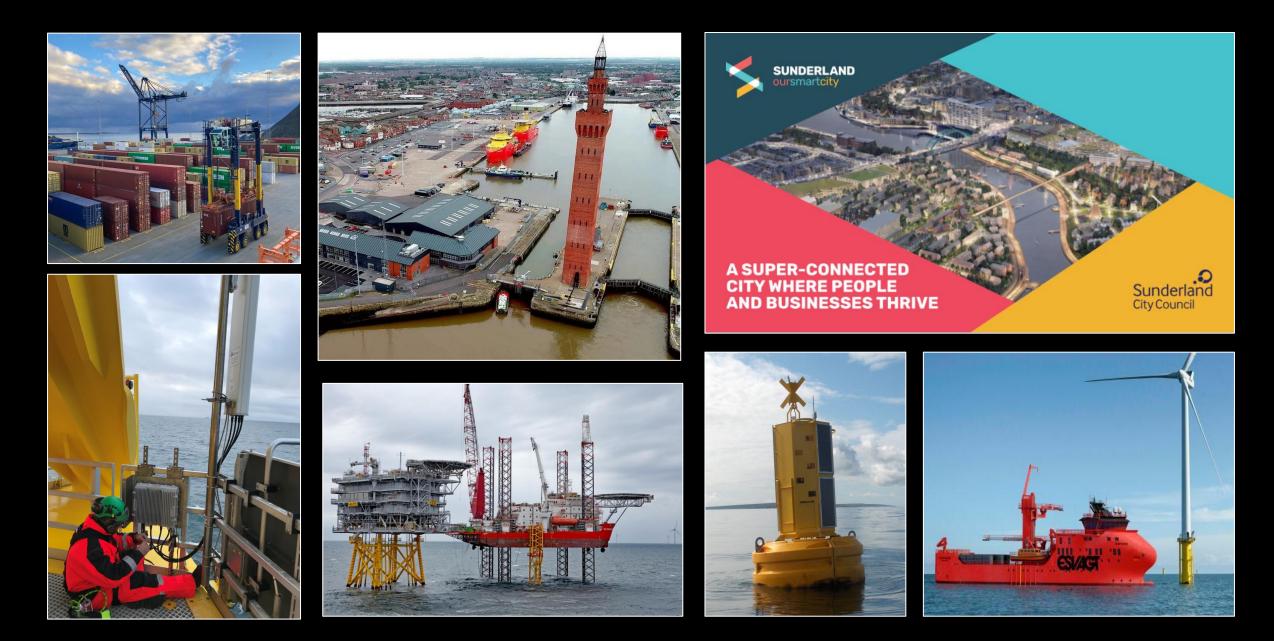
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## Delivering Private Networks Some Key Point

#### Private network solutions must fit the client's environment and constraints



Strong communication and collaboration is needed between the project teams, client, stakeholders and partners



#### Good RF and antenna designs to maximise benefits of networks

#### End User Devices – Important part of design and testing







#### **Pre-staging and factory acceptance testing is a critical step**

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#### **Connectivity Enables Innovation and New Use Cases**

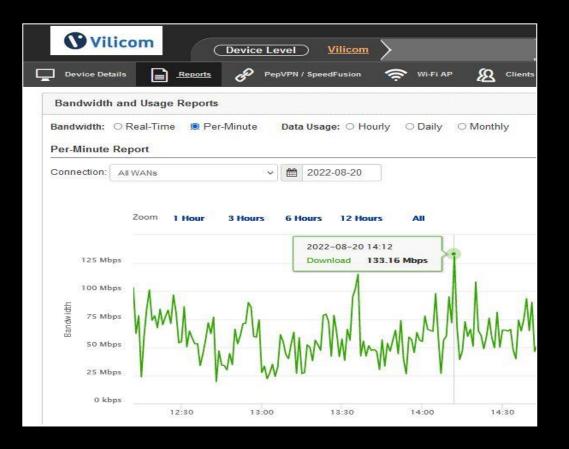
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#### They use a lot of data!





10 TB of data is equivalent of over **3,300 hours** of steaming HD video on Netflix in a month

#### GIGAWAVE customers typically using 10TB a month.



## OFFSHORE WINDFARM

1.7 Million tonnes of CO<sub>2</sub> saved per year





Powering 950,000 UK homes



100 x 9.5MW Vestas turbines – 204m high



295km<sup>2</sup> square area 22km offshore 40% of Scotland's Electricity

#### Moray East Private 4G Network

Offshore Network Nodes vRAN Open RAN Technology 4x4 MIMO Macro RRUs vRAN DU

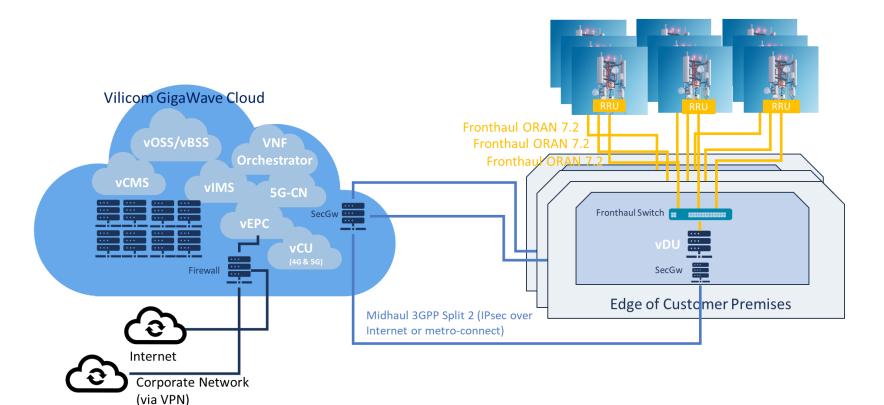




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Onshore Substation Private Network Core (EPC) vRAN CU

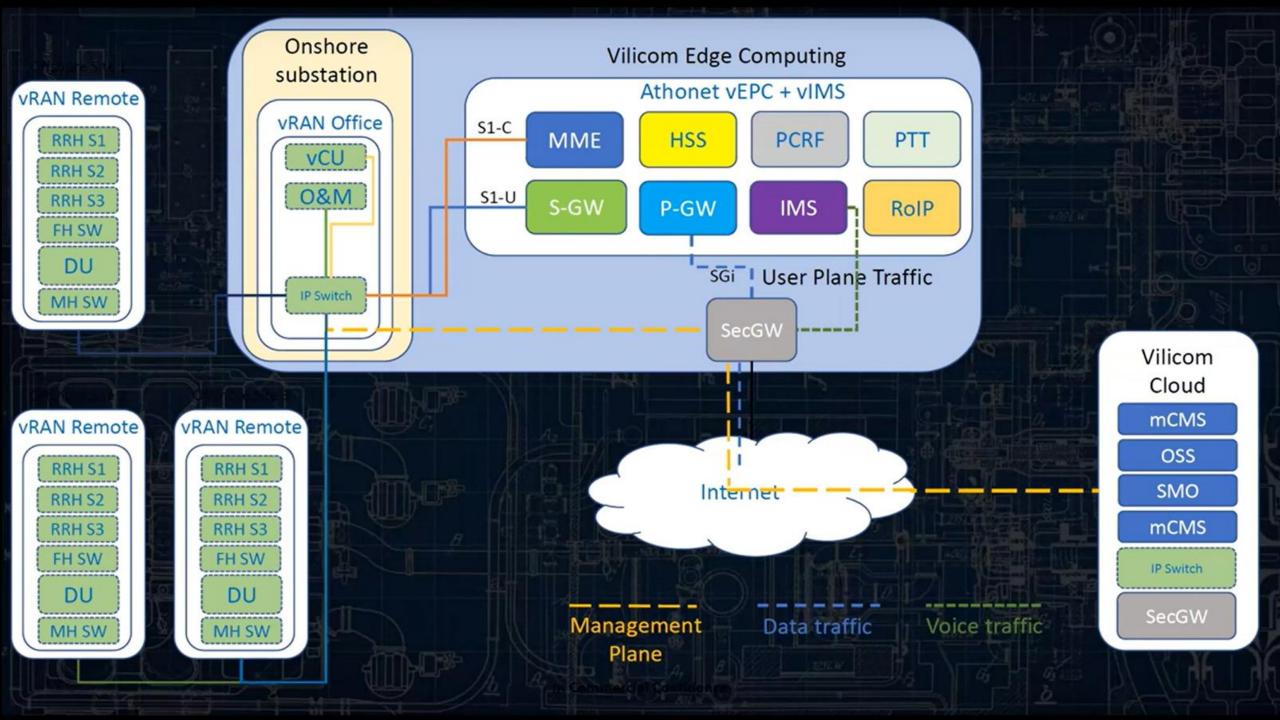
#### **Delivered using Vilicom's GIGAWAVE Platform**



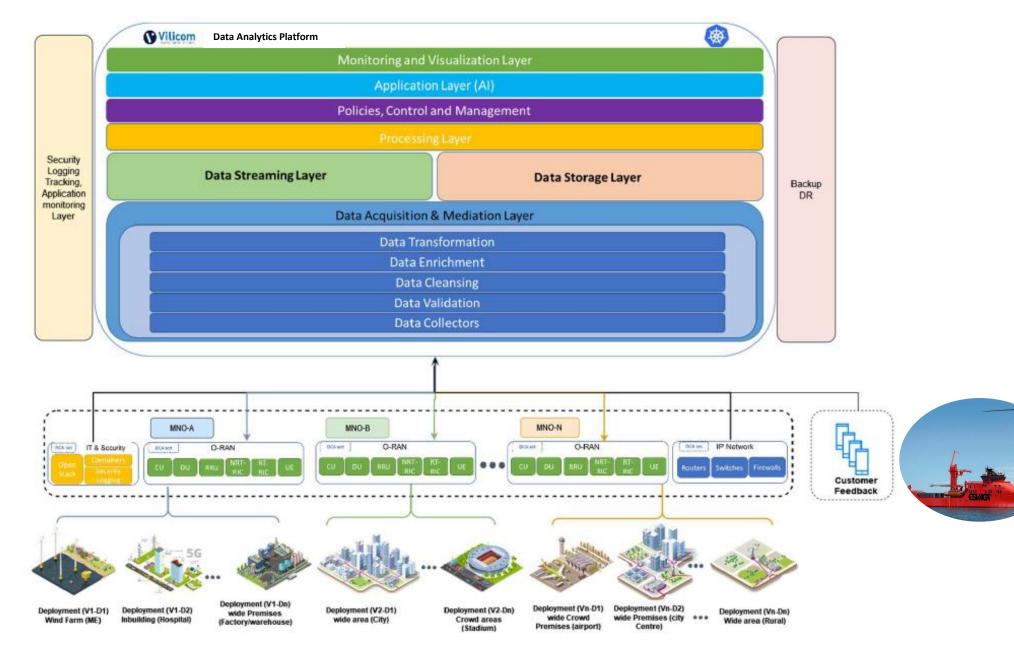
#### **Open RAN Platform**

Commercial Off The Shelf servers (COTS)

Multi-vendor



#### **Data Analytics Platform**



#### Private 4G Network Designed for Offshore







#### **Connectivity for Construction and Service Vessels**



#### **Connectivity for the Crews**





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### Our Projects



#### Humber 5G Living Lab



Link to wider transport network

 $H \bigstar$ 

GRIMSBY

>>> NET ZERO PORT







>>>



#### **DATA & DIGITAL SERVICES** >>>









#### Hornsea 2 Windfarm

#### Public 4G Network

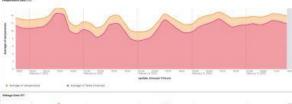


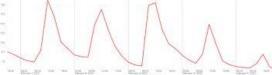
SMARTBAY

#### Solar Powered 5G Private Network for R&D



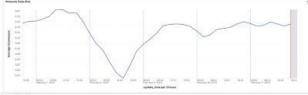


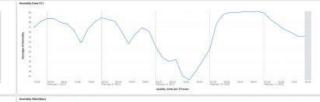


















#### Extreme E - Private 5G Network

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#### Port of Stockholm

#### **Private Network Operation &**

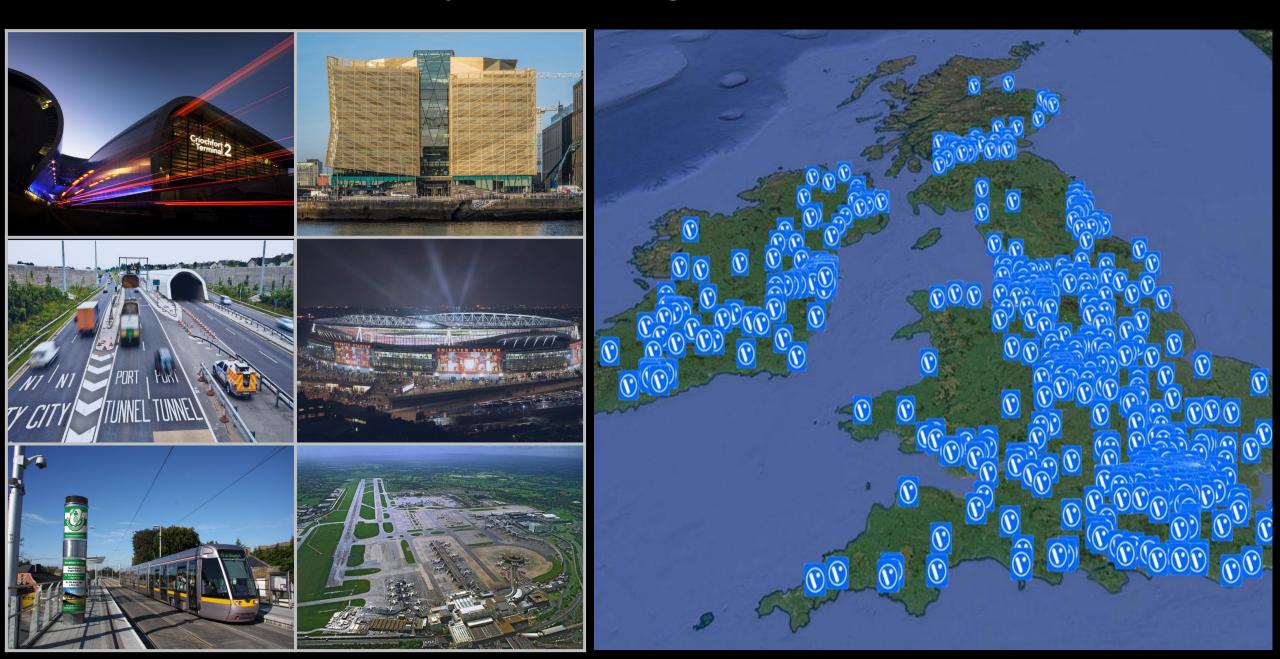
Maintenance Managed Service





## **About Vilicom**

#### **Over 1500 Special Coverage Solutions Delivered**



#### **Projects Delivered in over 20 Countries**

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# NET WORKS

#### **REBRANDING end of June 2023!**



#### Thank you

- Private Cellular Networks offer great connectivity solutions for challenging environments
- Open RAN brings flexibility to meet wide range of client requirement
- Good reliable connectivity enables innovation and new ways of working