Bristol Port Upgraded to Private 5G Network Through Airspan OpenRAN Solutions

Industry
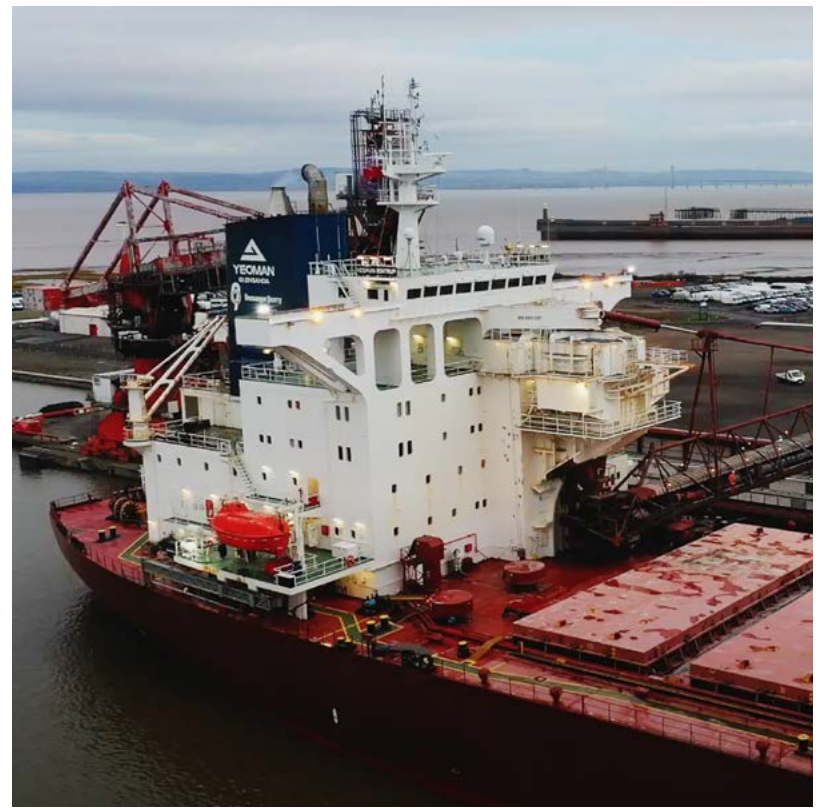Logistics

Location
Bristol, UK

Partner
West of England
Combined Authority

End User
Port of Bristol

Reference

Overview

The West of England Combined Authority led a consortium of 12 partners, including The Bristol Port Company and the University of Bristol Smart Internet Lab to demonstrate how P5G can increase efficiency and productivity for the logistics sector. Airspan, AttoCore, ADVA, Cellnex UK and Unmanned Life are the tech companies included in the project. Combined Authority help businesses innovate, develop workforce skills, and improve sustainability. This project was funded by Department for Digital, Culture, Media & Sport with a total value of £3,979,524.

Challenges

This huge project involves network connection of three areas – Bristol Port as the primary test zone, St Andrew's Road, a nearby junction which is the secondary and the Gravity Smart Campus which is 45 km away from Bristol. It was also expected that there will be an improvement on the tracking of supply chain, autonomous drone surveillance and road traffic management.
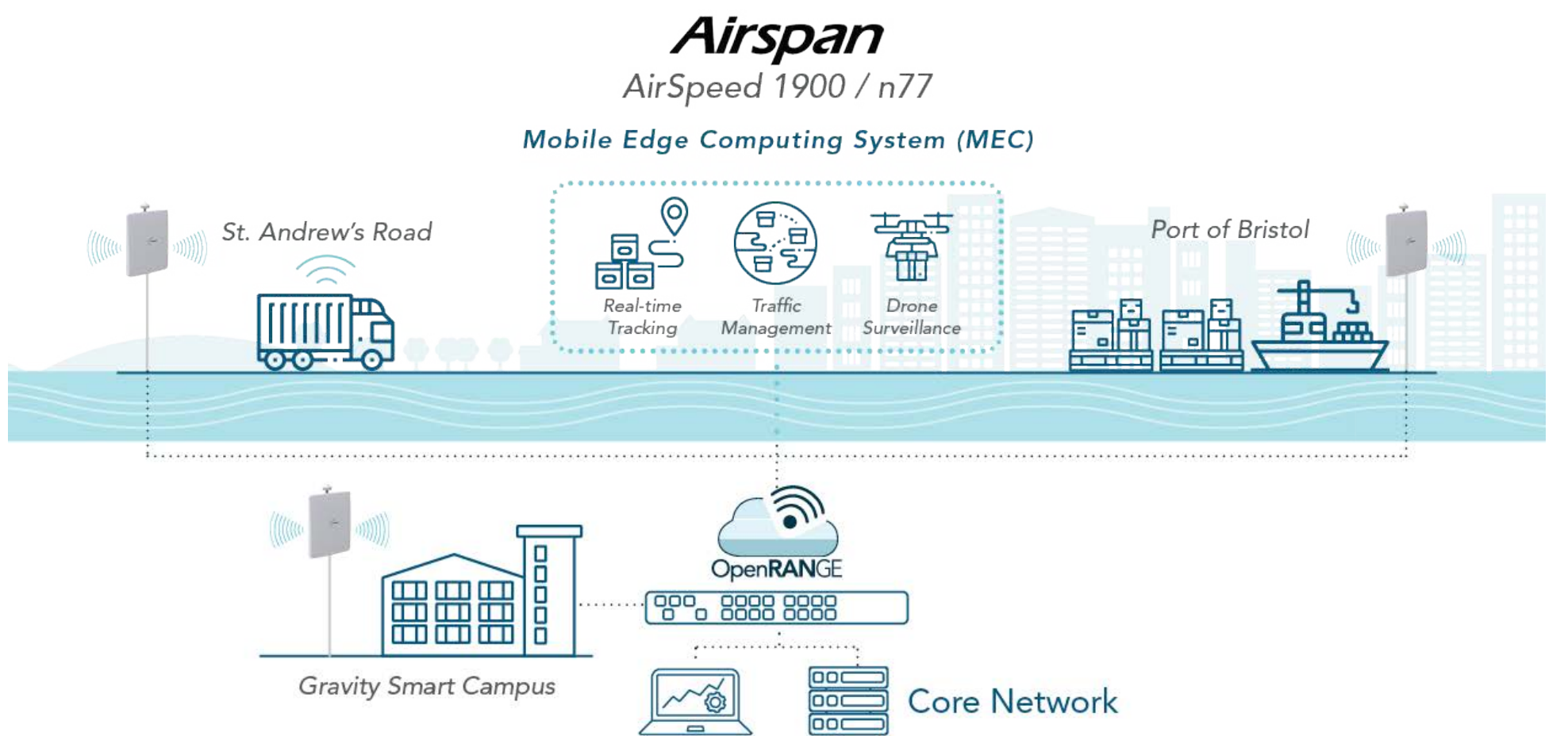
Solution & Benefits

The implementation of Bristol Port's P5G network was based on Airspan's Open RAN architecture which has become one of the highlight of this project. Small cells were deployed on strategic location of the three areas.

This project led to positive results such as more efficient and real-time logistic tracking, improved traffic management and geolocation, and autonomous system especially drone.

This milestone brings more vision for Combined Authority to build smart cities and attract new economic opportunities and jobs by harnessing the advancement of mobile communications technology.

This project is also a testimony for Airpan Open RAN to run Mobile Edge Computing system or MEC, a more advanced framework of cloud computing.

Airspan
AirSpeed 1900 / n77
Mobile Edge Computing System (MEC)

St. Andrew's Road — Real-time Tracking — Traffic Management — Drone Surveillance — Port of Bristol

OpenRANGE

Gravity Smart Campus — Core Network

Our Solutions
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