

AWTG Smart City: Enhancing Railway Connectivity in the UK Through 5G Innovation

Industry

Transportation

Location

United Kingdom

Partner

AWTG

End User

England's Connected Heartland Railways

Reference

Overview

The England's Connected Heartland Railways (ECH-R) project, a major initiative backed by the UK government's 5G Innovation Regions program, is revolutionizing rail and rural connectivity. With the aim of delivering a high-performance 5G solution, AWTG selected Airspan as its RAN partner to lead this project. Through the deployment of Airspan's AirSpeed 1900 Outdoor Small Cells, the initiative will provide seamless mobile broadband coverage for passengers, enhance efficiency for operational teams, and extend trackside connectivity for rural communities.



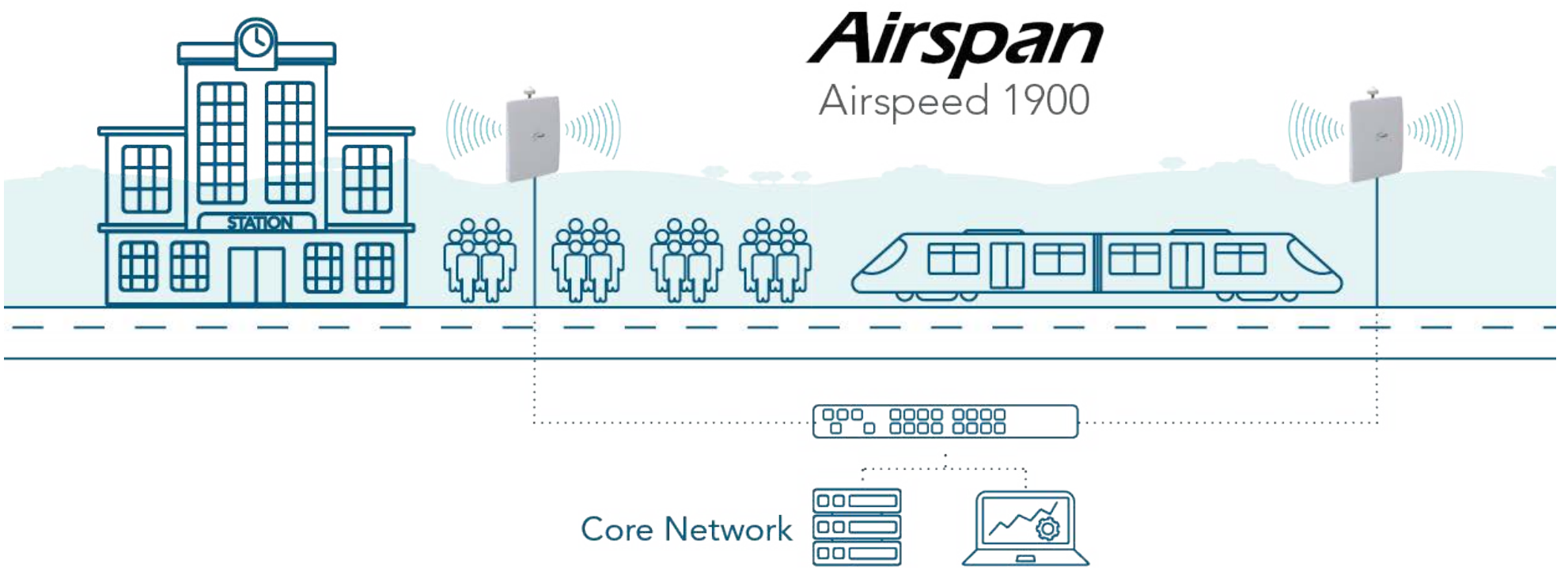
Challenges



One of the core challenges of the ECH-R project was ensuring reliable, high-speed connectivity within the complex environment of a major transport system. Traditional mobile networks often struggle to provide low-latency, high-bandwidth service in crowded and dynamic settings, especially where real-time monitoring, onboard diagnostics, and seamless communication are critical. Additionally, extending broadband access to underserved rural communities required overcoming significant infrastructure gaps.

Solution & Benefits

The deployment of Airspan's AirSpeed 1900 Outdoor Small Cells offers a transformative solution that meets the diverse needs of the ECH-R project. This advanced 5G network ensures fast, uninterrupted connectivity for travelers while optimizing operational efficiency through real-time data and communication systems for railway teams. Moreover, the network extends coverage to rural communities along the rail line, providing Fixed Wireless Access (FWA) that helps bridge the digital divide. In all, this 5G network enhances the travel experience while also supporting the project's broader goal of advancing wireless connectivity to drive innovation and economic growth within the region.



Laying the Foundation for 5G Software and Hardware

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