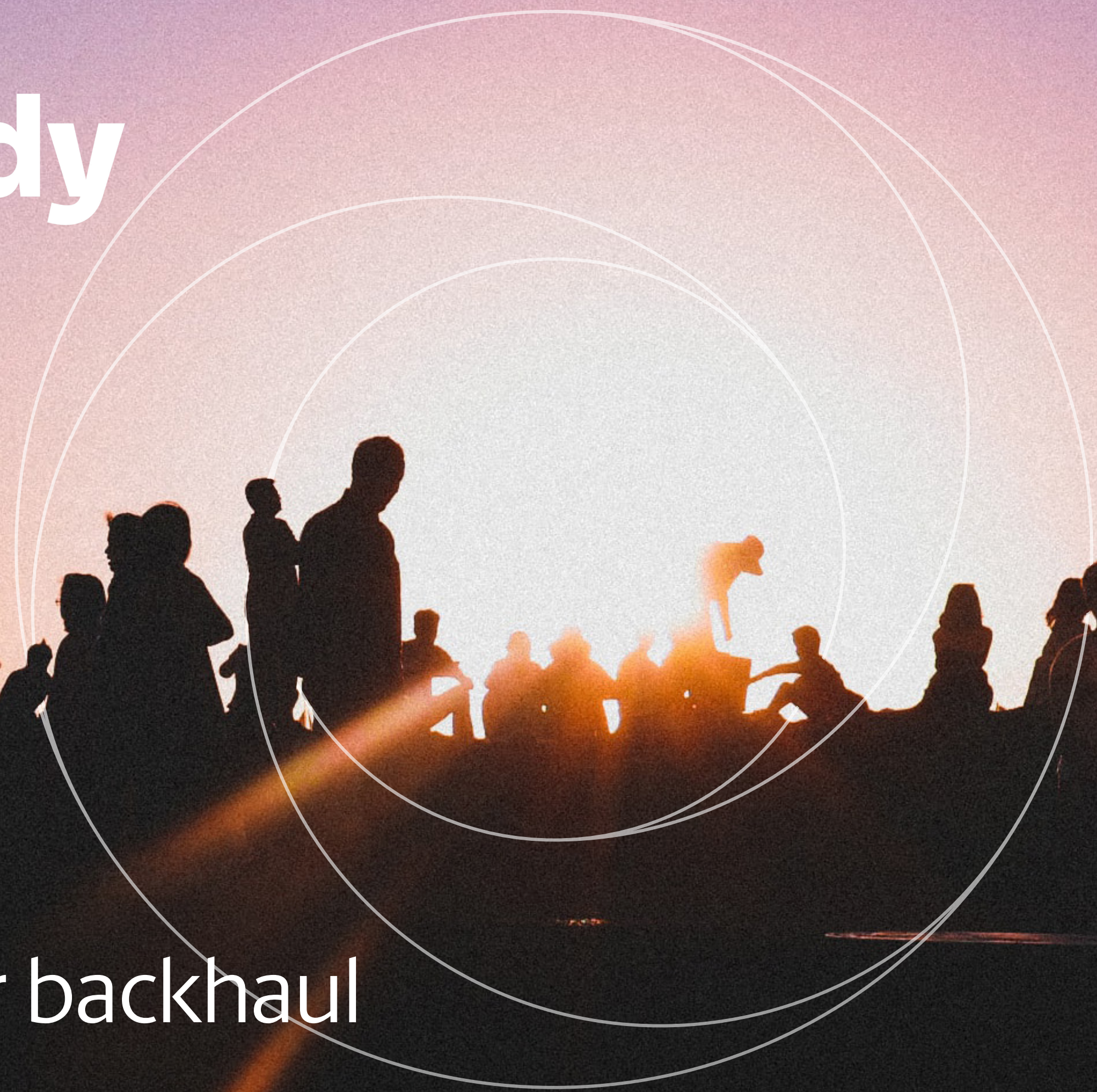OneWeb   Brdy

USE CASE

Space-based connectivity for cellular backhaul
Enabling digitisation, and the Industry 4.0

Photo credit:
Rita Vicari

Connection everywhere changes everything   OneWeb

Global LEO networks remove barriers to better connectivity.

Space-based Connectivity for Cellular Backhaul

Connectivity that connects people and things to each other, and to applications in the cloud.

Even the most remotely-located businesses and organizations rely on connectivity to operate effectively, communicate with partners and suppliers, and serve customers. Today, mobile carriers need to connect customers worldwide, across every industry, and in some of the most far-flung places on earth.

However, mobile internet penetration worldwide remains at about 50%. Around 3 billion adults, located mainly throughout Asia and Africa, are unconnected. These end-users and their organizations typically live outside of 3G or 4G signal range, with high speed backhaul options.

For mobile carriers, LEO satellite connectivity offers a new way to extend their networks into underserved regions, as well as add capacity to existing networks to meet increasing demand. By providing reliable, flexible backhaul, LEO satellite connectivity can help bridge the digital divide, by providing connectivity to remote locations, and delivering greater network resilience in locations where additional capacity is required.

Connection everywhere changes everything   OneWeb

Remote and rural communities are affected by the cost of building terrestrial networks.

Connectivity challenges

Bringing terrestrial links to remote and rural areas to extend network coverage can often be cost-prohibitive. Compared to urban and suburban locations, remote and rural connectivity faces barriers in the form of large geographical distances between coverage area, and nearest service PoPs, complex terrain, and obstacles like forests, mountains or lakes.

In addition, the low population density of rural locations, and socio-economic factors potentially imply that the average revenue per mobile cell site will be much lower than in urban environments. Backhaul becomes more expensive when it comes to operating rural base stations versus the costs of base stations in urban environments – often around double the price, and amounting to as much as 20% of TCO.

Connectivity solutions

LEO satellite connectivity can lower the financial hurdles that exist for providing rural coverage, by overcoming the geographical, and distance factors through the availability of ubiquitous connectivity across all locations at a cost effective price. This allows base stations in remote locations to have the necessary backhaul to deliver a service that adds value to the lives of end customers.

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Enhanced opportunities

Targeting universal coverage

LEO satellite broadband can play a vital role in increasing the reach and resilience of connectivity to improve online access for people in the most far-flung places and drive universal connectivity goals. LEO satellite connectivity now presents a credible alternative for demanding customers, both business and consumer. The possibilities and opportunities for operators to unlock long-term value using LEO satellite connectivity and backhaul are huge.

Driving digital inclusion

LEO satellite connectivity and backhaul can enable networks to reach locations in rural America, LATAM, rural Europe, Africa and Asia currently without access to the connectivity solutions that add value to their lives. It can also improve overall capacity and reliability for places already connected.

Cost-effective primary or backup connections

OneWeb's architecture for delivering LEO satellite connectivity and backhaul offers the possibility for network sharing, where two or more operators locate their RAN equipment on a single mast, meaning third-party tower companies can spread costs out over multiple operator tenants. This presents significant CAPEX reduction opportunities. Whether as a primary or backup connection, LEO satellite offers big possibilities.

Protect critical business operations with more resilient network solutions.

Enhanced and new applications

Enhancing user experience
Making access easier to global coverage and low latency from the most remote locations

Connecting the unconnected
Bringing the internet and a wealth of opportunities to citizens, companies and governments in the most remote locations.

Protecting business and revenues
Gives the power and control to keep businesses operating should primary networks fail.

Supporting remote operations
Remote operations far from corporate HQs need backup connectivity to support operations in an emergency.

Augmenting connectivity
Ensure company sites, no matter how remote, can offer a complete range of services to customers.

Enabling digital transformation
Providing the connectivity needed to support access to applications hosted in distributed cloud environments.

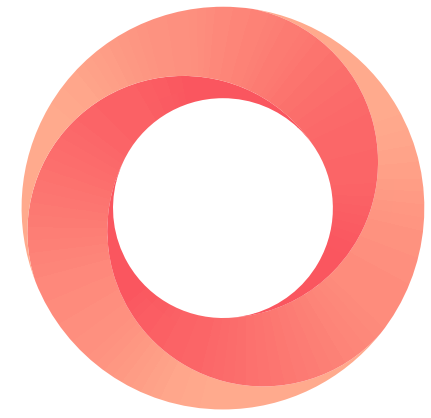Connection everywhere changes everything OneWeb
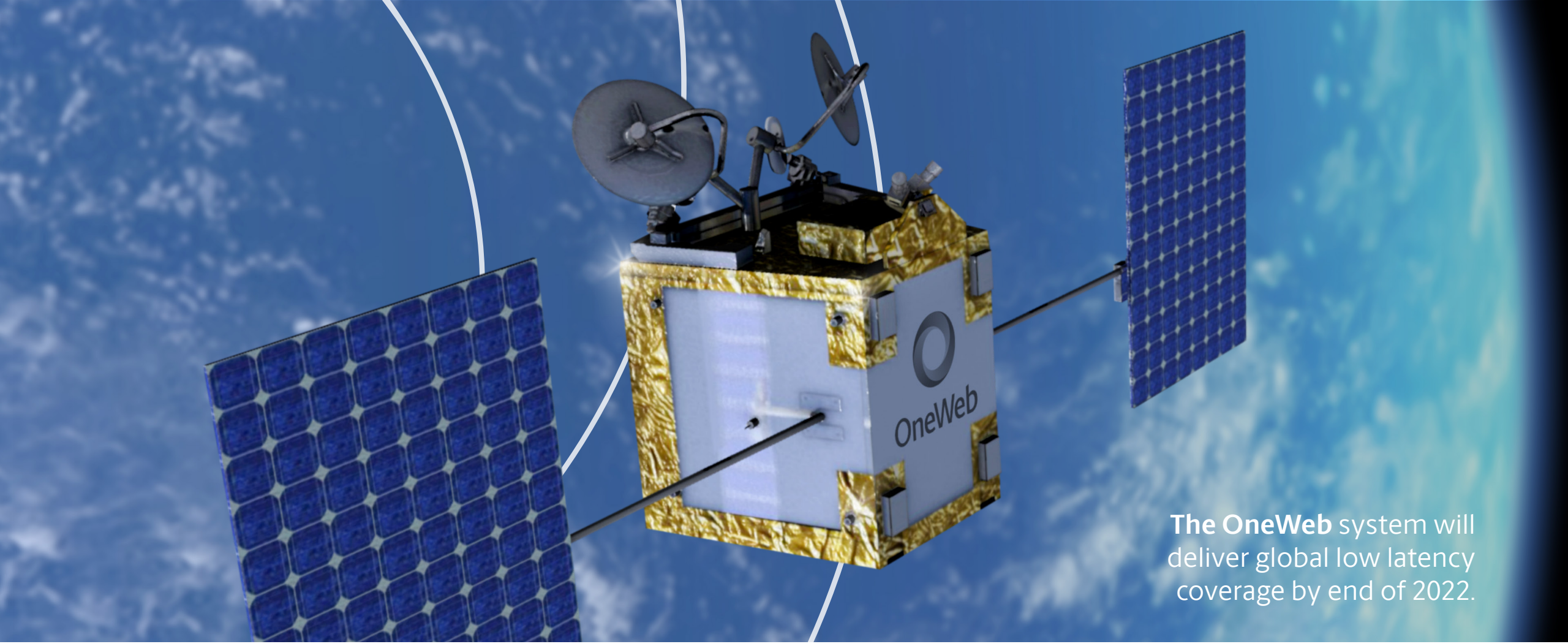
The OneWeb system will deliver global low latency coverage by end of 2022.

Global space-based connectivity made easy

OneWeb LEO satellite connectivity gives companies across all industries flexible, scalable, and reliable connectivity plans needed to enhance existing communications solutions and support network operators and service providers around the world.

Access OneWeb's connectivity with a new class of user terminals that bring function, design, and easy-to-use LEO technology together, using tools that allow the centralised management of the end-to-end service. Hardware that is simple to order, deliver, install, and maintain, for primary, backup, and hybrid network solutions, meeting the demands of communication networks and customers everywhere.

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OneWeb

Global space-based connectivity

Connection everywhere changes everything

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