



# ABOUT AVANTI

# **WE ARE THE LEADING HIGH-THROUGHPUT SATELLITE CAPACITY PARTNER IN EUROPE, MIDDLE EAST AND AFRICA**

With over 15 years of commitment to deliver reliable and highly secure satellite capacity, we extend and guarantee coverage for defence missions, enterprise solutions, critical public services and telecom operations.



A satellite is shown in space, with a network of lines extending from it to the Earth's surface. The satellite has a central body with two large solar panels and two smaller antennas. The lines are thin and numerous, creating a dense web of connections over the Earth. The Earth is shown as a curved horizon with a blue and white atmosphere, and the background is a dark blue space filled with stars.

## A UNIQUE SET OF ASSETS & CAPABILITIES

We offer our customers dedicated fixed and flexible-beam satellite connectivity, using the latest Ka-band technology, with extensive coverage across Europe, the Middle East and Africa.

Our hybrid network and managed services deliver seamless integration with your networks, giving you and your customers the world's most reliable satellite connectivity.

# SIGNIFICANT CAPACITY IN KEY GEOGRAPHIES

Across our HYLAS fleet, more than 70% of our coverage is over sub-Saharan Africa, which makes us the no. 1 high throughput ka-band satellite company in Africa.

HYLAS 3 steerable cluster can add extra capacity across new markets, including Africa and Europe.

In addition to leading capacity, the company also enjoys a technological advantage, with steerable beams, military grade encryption, well suited to address the needs of prospective customers in the region.



# STEERABLE COVERAGE

Immediate and flexible access to Ka-band capacity.

Our steerable beams, available on HYLAS 2, HYLAS 3 and HYLAS 4, provide immediate Ka-band capacity wherever you may need it across Africa, the Middle East, Europe and the Americas. Our beams operate in civilian and government frequencies and can be moved with initial or full steering rights.

## FULL STEERING RIGHTS

- Gives you the ability to move the beam(s) at any time within the agreed term

## INITIAL POINTING RIGHTS

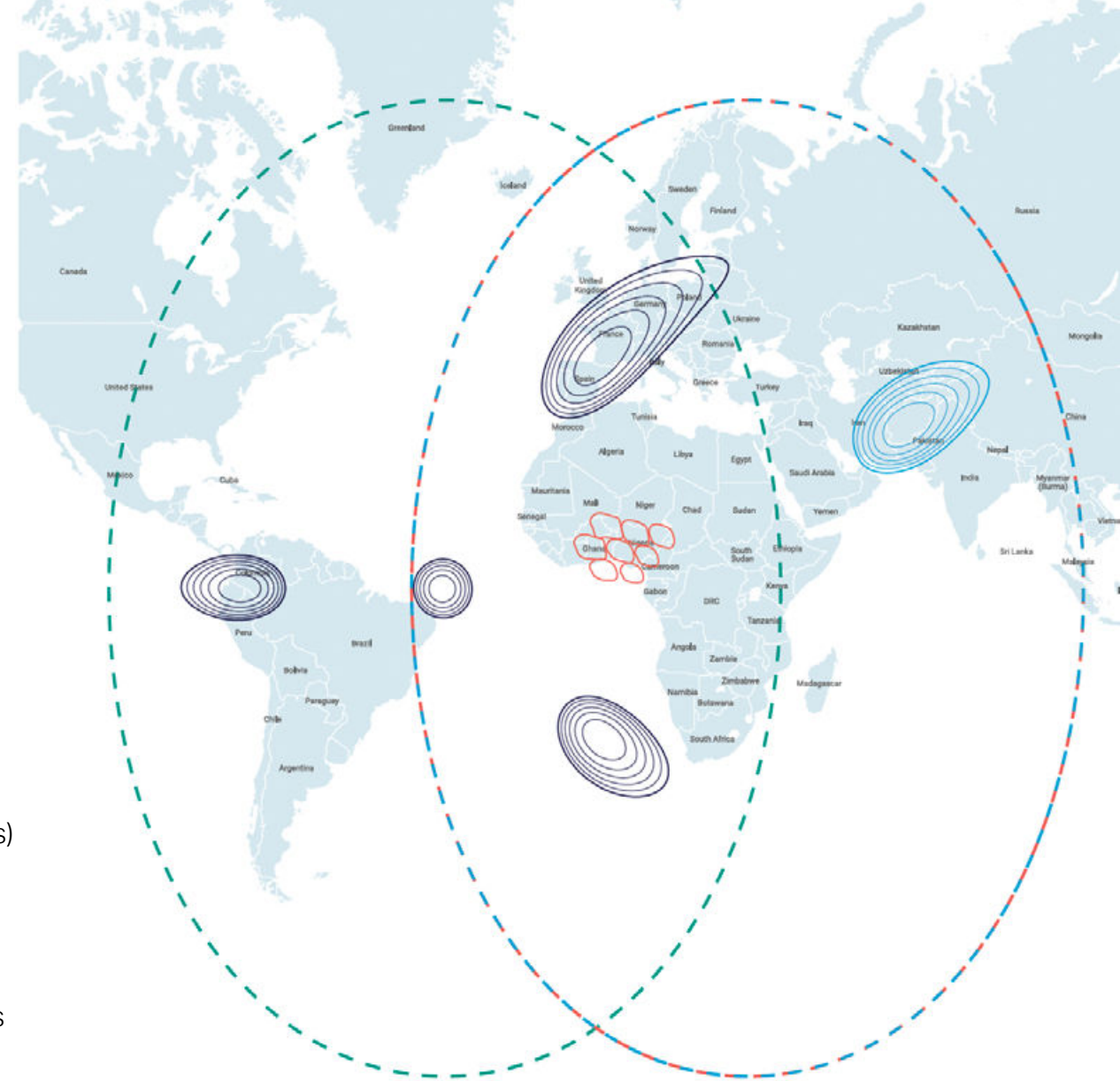
- You can nominate a single location where the beam(s) stay(s) fixed for the duration of an agreed term

## CAPACITY ANYWHERE & FULL CONTROL

- Anywhere visible from the satellites within the Earth's disk. User control via secure API
- 10 to 20 times more capacity than Ku satellites

## REAL-TIME TRACKING

- MACH 1 speeds
- 10 minute SLA for cross continental moves



 HYLAS 4 steerable beams contour

 HYLAS 3 contour

 HYLAS 2 steerable beam contour

 HYLAS 4 steerable beam coverage examples

 HYLAS 3 steerable cluster coverage example

 HYLAS 2 steerable beam coverage example

4 steerable beams

8 beam cluster

1 steerable beam

# OUR TECHNOLOGY

## KA-BAND

- Up to 10 times more capacity than Ku-Band
- Lower cost due to smaller spot beams efficiency
- Smaller dishes which are easy to install and cost-effective

## NETWORK & OPERATIONAL SECURITY

- UK MoD Cyber Essential Plus and List X accreditable at GES
- Private WAN to international PoPs Accredited ISO 27001

## CARRIER GRADE

- Secure & resilient network
- On-time service delivery and service-level guarantees

## INFILL CAPABILITY

- Hub hosting at our GES
- Network backhaul to PoPs
- Integration with 3rd party or private networks

# A RESILIENT GROUND NETWORK

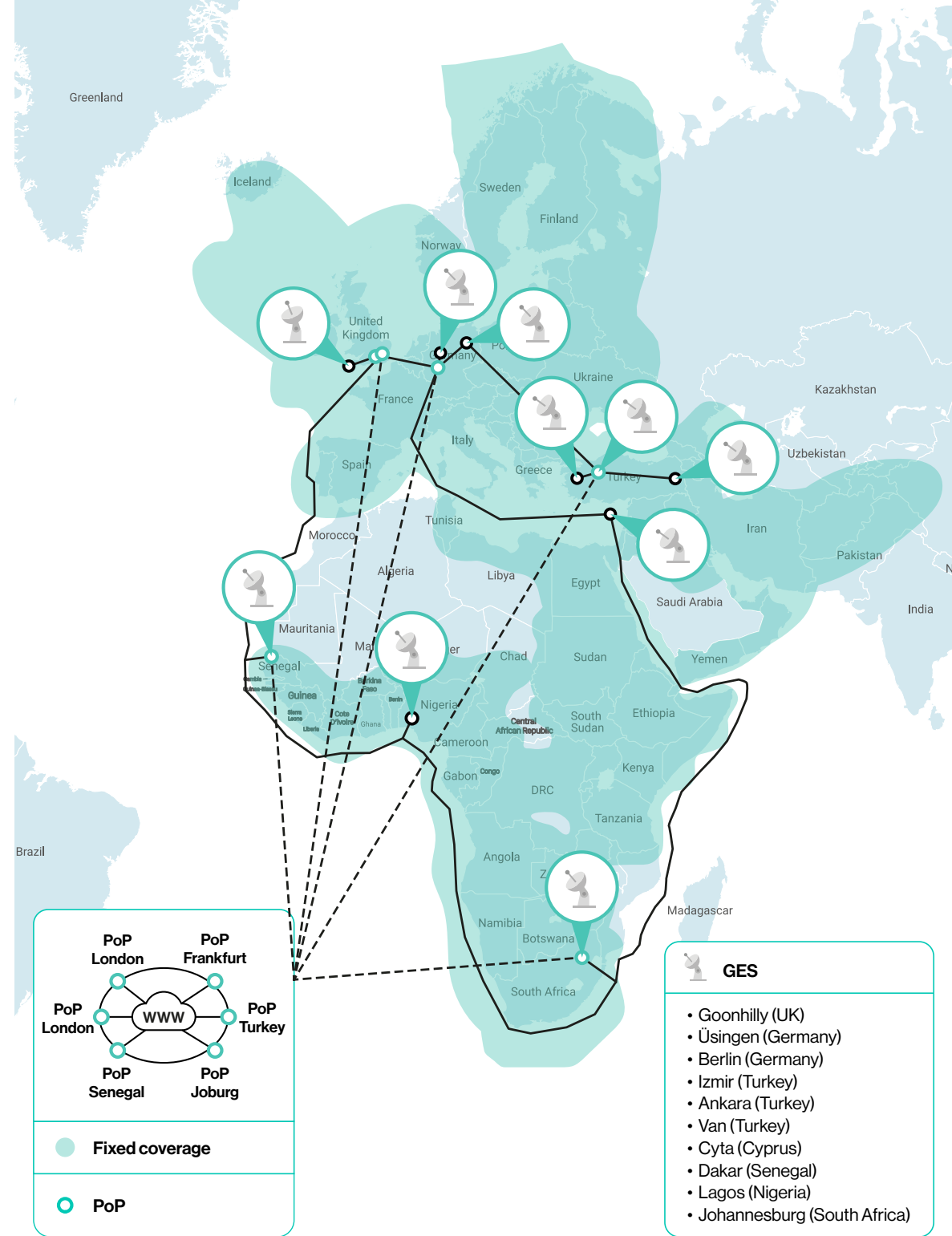
Fully operational and fully regulatory approved ground network

Interconnected via redundant fibre links

Fully authorised operations in Africa

Dual redundant antennas serving all satellites from different ground stations to ensure no single point of failure

99.9% + SLA



\*incl. partner capacity

## OUR MANAGED SERVICES

We provide end to end managed services backed by Service Level Agreements (SLA) for our satellite solutions that cover satellite capacity, terminal installation and integration services, project and inventory management, preventive and corrective maintenance services, NOC monitoring, performance reporting and value-added services. This ensures our customers can focus on their core business while leveraging on our expertise.





# OUR FLEET

Owning & operating a fleet of satellites since 2010 by leveraging our team of highly skilled and experienced engineers..



## **HYLAS 2**

HYLAS 2 uses high-throughput Ka-band technology. The spacecraft has 24 fixed beams and one steerable beam, addressing markets across EMEA.



## **HYLAS 3**

HYLAS 3 steerable cluster, currently located at the Eastern Flank of Europe, can add extra capacity across new markets, including Africa and other parts of Europe.



## **HYLAS 4**

HYLAS 4 doubles our Ka-band capacity over EMEA. It has 64 fixed beams serving Africa and Europe and 4 independent steerable beams able to be steered anywhere visible on the Earth's disk from 33.5° W.

An aerial photograph of a city, likely San Francisco, taken from a high vantage point like a hillside. The scene is bathed in the warm, golden light of a setting or rising sun, creating a hazy, atmospheric effect. The city's dense urban landscape is visible, with numerous buildings of varying heights and architectural styles. In the foreground, the dark silhouettes of trees and foliage are visible, framing the bottom and sides of the image. The text "WHAT WE DO" is prominently displayed in the center of the image in a large, white, sans-serif font.

# WHAT WE DO

# WHO WE WORK WITH

We operate across 4 sectors, providing a comprehensive range of services.

## CARRIERS

- Mobile Network Operators
- Network Providers

## DEFENCE & SECURITY

- Defence & Security Agencies

## SATELLITE INDUSTRY

- Satellite Operators
- Satellite Integrators

## EDUCATION

- Schools
- Governments
- Educational Projects

We invested \$1.2 billion in the latest Ka-band technology and shaped it to meet the communications industry.





## **WE CONNECT THOSE WHO PROTECT**

From remote government offices, military bases and outposts to border security and disaster recovery, we provide the latest in secure, resilient and ultra-reliable Ka-band communications.

Our services provide the security governments, militaries and ministries of defence require, and support rapid deployment, usually in areas deprived of established communications, heavy data applications for C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) and Satcom on the move (SOTM).

# HELPING CARRIERS GO THE EXTRA MILE

We offer high-throughput satellite backhaul solutions to fixed and mobile operators, allowing them to roll out their networks in rural areas, reduce black spots, and complement their networks when they are down or when there is a surge in demand.

Our mobile backhaul solution supports 2, 3, 4 and 5G services to stringent SLAs and is used today for mission critical applications, including 4G backhaul for emergency services networks.





## **ENABLING BROADBAND ON THE MOVE**

Staying connected is of utmost priority whether on land, sea or in the air. Avanti's high throughput Ka-band satellite technology allows customers to benefit from our highly reliable connectivity solutions irrespective of their location, opening up a world of endless possibilities.

# PROVIDING IMMEDIATE CAPACITY TO THE INDUSTRY

We provide wholesale capacity for operators that require only the raw components of bandwidth, power and coverage that can integrate into their own service platforms.

Avanti's wholesale capacity is available across our fixed and steerable beam coverage that include gateway and loop-back connectivity.



# EMPOWERING CHILDREN AND COMMUNITIES

Together with our trusted network of partners, we deliver programmes throughout Africa that have an impact on education, gender equality, health, security and ultimately communities.

Be More is part of our DNA.

With our ultra rural connectivity solutions and through our iMlango initiative, we have successfully delivered high speed satellite connectivity to more than 1,000 villages and schools across Africa and to over 180,000 students.

Working closely with governments and project partners, we provide reliable and fast satellite broadband, ICT equipment, eLearning platforms and digital skills training, ensuring teachers and students have access to the latest digital opportunities.





# OUR AWARDS



**Great Place To Work™**  
Certified - Jul 2023 - Jul 2024



**Outstanding Contribution to  
Connect the Unconnected**



**Satellite Company of the year in  
Nigeria – 2021 & 2022**



**Connectivity Champion of the  
Year Award**



**Be More.**



**Be More.**

[www.avanti.space](http://www.avanti.space)