# **Avanti Communications**

Helping Military and Government Users Achieve Information Advantage Across Europe, the Middle East and Africa



### **AVANTI COMMUNICATIONS**

- Private satellite owner and operator.
- Fleet of Ka-band satellites
- High capacity Mil/Civ Ka steerable beams
- 100+ fixed beams covering EMEA
- Private network of gateways and terrestrial ring main.
  - 10 years experience delivering Ka-band commercially.
  - First commercial owner/operator of HTS Ka spectrum satellites.
  - Provider of capacity and services to:
    - US and European Governments and militaries;
    - Mobile Network Operators; and
    - other Satellite Industry operators.

## **AVANTI PROVIDES**

**Higher capacity** – 10 to 20 times more capacity than Ku satellites, and 5-10 times more capacity than other Ka providers on like-for-like terminals.

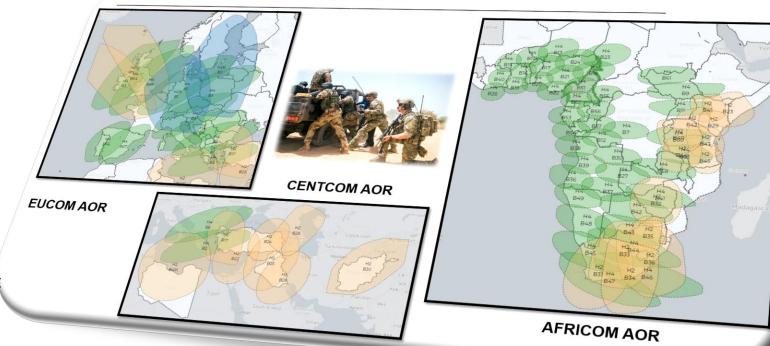
**GEOGRAPHIC FOOTPRINT** 

**Agility** - Ability to stand up new operations in new beams in days, not weeks.

Interoperability Widest range of in-use terminals accredited for use on Avanti network.

#### Resilience

Overlapping matrix of fixed and steerable beams offering contingent duplication



Low SWaP dishes – High strength, high efficiency beams generating the greatest capacity to the smallest terminals.

**Contingency** – Primary bearers can be switched in extremis for contingent backhaul to provide operational resilience.

**Lower cost** – The most competitively priced military capability on the market due to efficiencies generated by use of tightly focused spot beams which concentrate power and re-use spectrum

**Sophisticated service offering** –Flexible contracting geared to the tempo and nature of military operations (switch-on/switch-off; transfer airtime bundles between theatres; operational pauses etc).

#### **RECENT SOLUTIONS – ALL CIRS**

- Libya: ManPack services to Tripoli, Misratah & Benghazi
- Mali: 2 x 360/360Mbps solutions (2 x nations)
- Nigeria: 20 x Manpack/Flyaway (20x >10/10Mbps)
- Libya/Syria/Lebanon: Maritime COTM (4/4Mbps)
- Burkina Faso: Manpack MOB (40/40Mbps) and FOB (8/8Mbps)
- Niger: Fixed (300Mbps/50Mbps)
- Iraq/Syria: ManPack (<20/20Mbps) and COTM services (<4/4Mbps)</li>
- Afghanistan: Fixed & Manpack (<20/20Mbps) and COTM services (<4/4Mbps)</li>
- Iraq/Afghanistan: Manned Airborne ISR (20/20Mbps)
- ECONUS: Maritime COTM (30/10Mbps)



## **AVANTI Ka HTS - CAPACITY**



TERMINAL	MAXIMUM DOWNLINK	MAXIMUM UPLINK
DKET 3400	425Mbps / 850Mbps	425Mbps / 850Mbps
GD 2.4m	300Mbps	50Mbps
Gigasat FA100	184Mbps	155Mbps
Connect 100	106Mbps	43Mbps
Tampa 65 / Hornet 65	102Mbps	37Mbps
GetSat Millisat (on the move)	34Mbps	10Mbps
GetSat MicroSat (on the move)	8Mbps	8Mbps
GetSat Nano-H (on the move)	2Mbps	2Mbps
Gigasat ULV-45	76Mbps	44Mbps
Swarm 45	15Mbps	15Mbps
TERMINAL	MAXIMUM DOWNLINK	MAXIMUM UPLINK
ThinKom Ka2517	260Mbps	50Mbps
Rantec 12" Ka	66Mbps	14Mbps
Viasat GAT-5510 (G12)	61Mbps	28Mbps
Viasat GAT-5530 (KuKa2)	75Mbps	30Mbps
Viasat GAT-5518 (G-18)	83Mbps	30Mbps







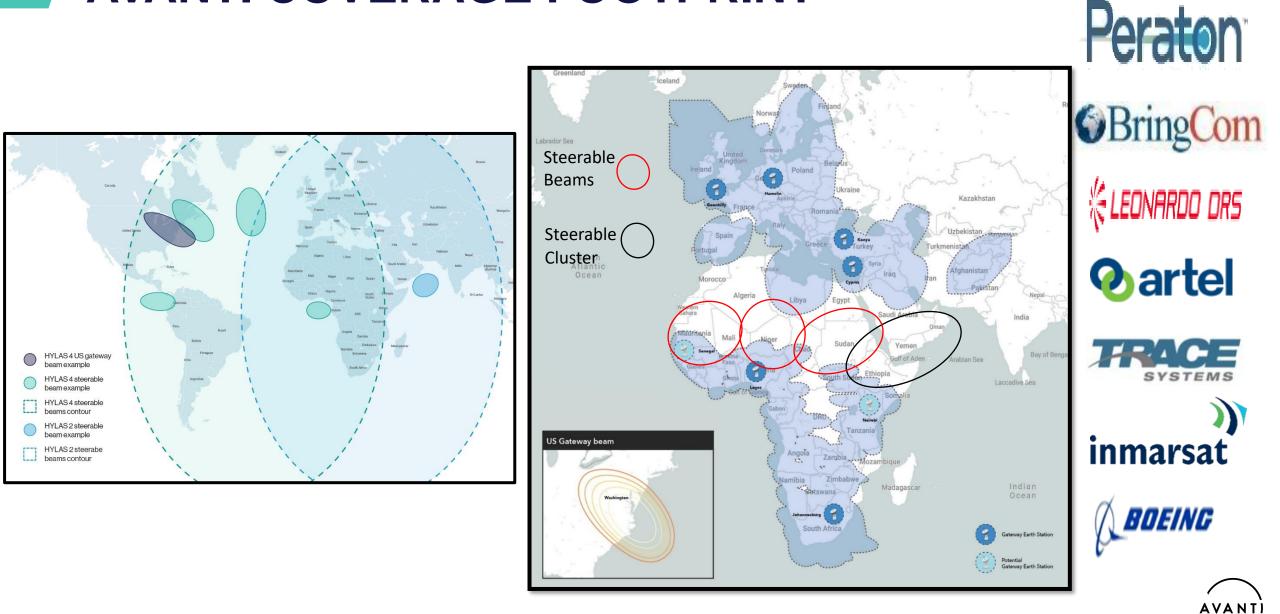




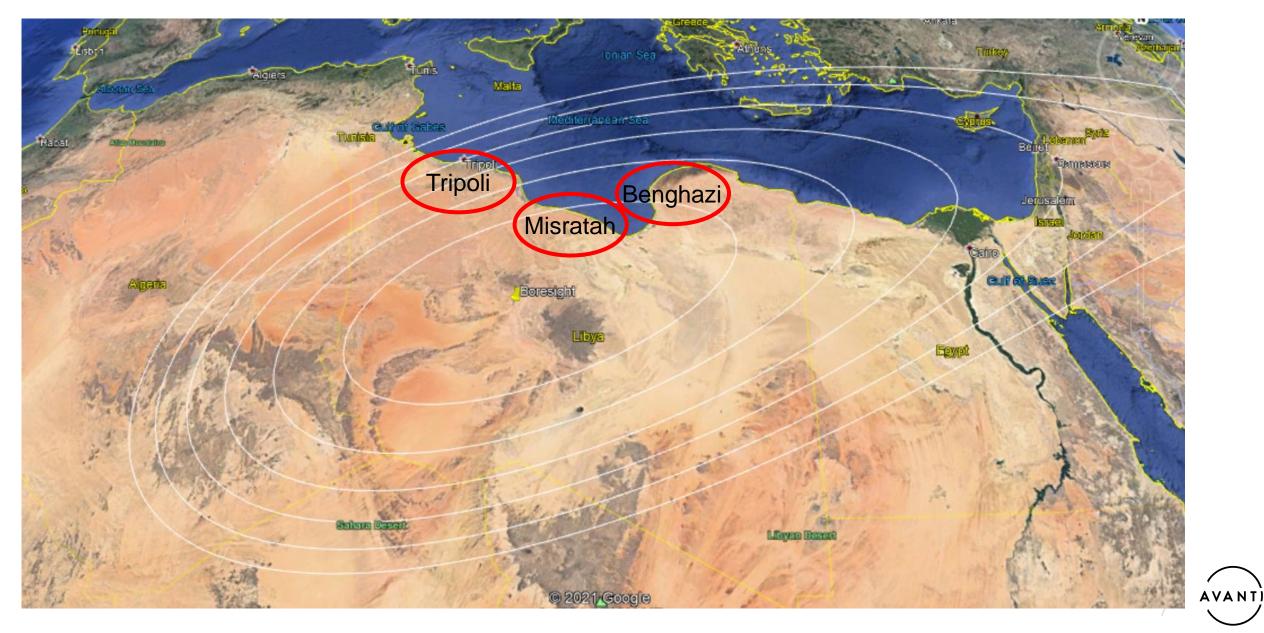


avantiplc.com

### **AVANTI COVERAGE FOOTPRINT**



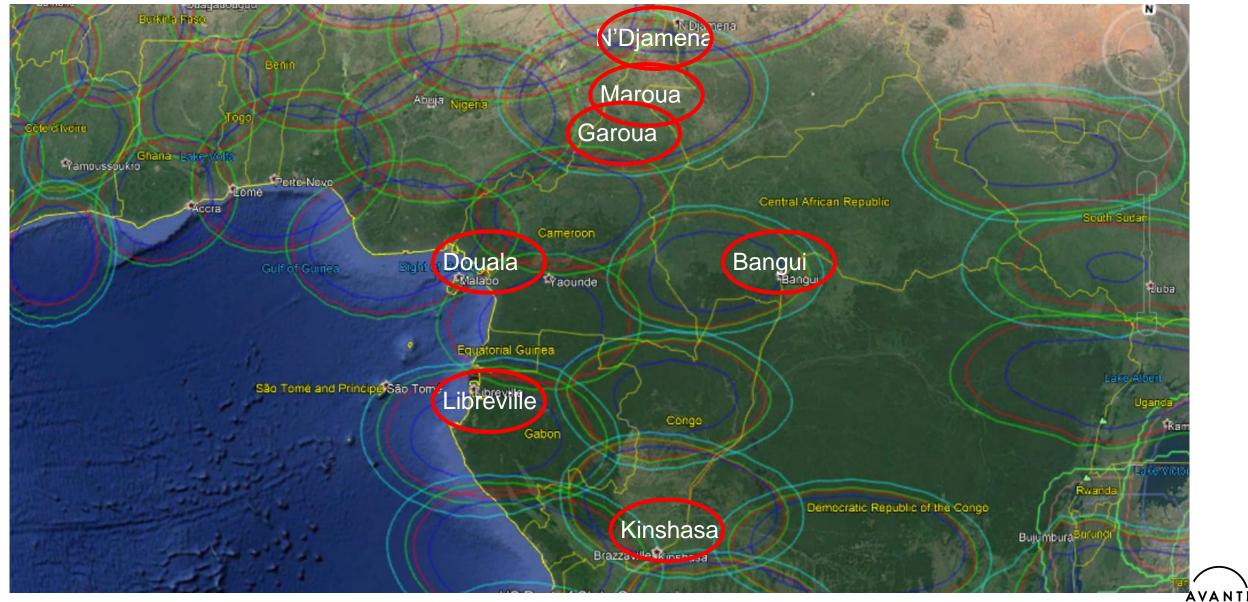
#### **NORTH AFRICA**



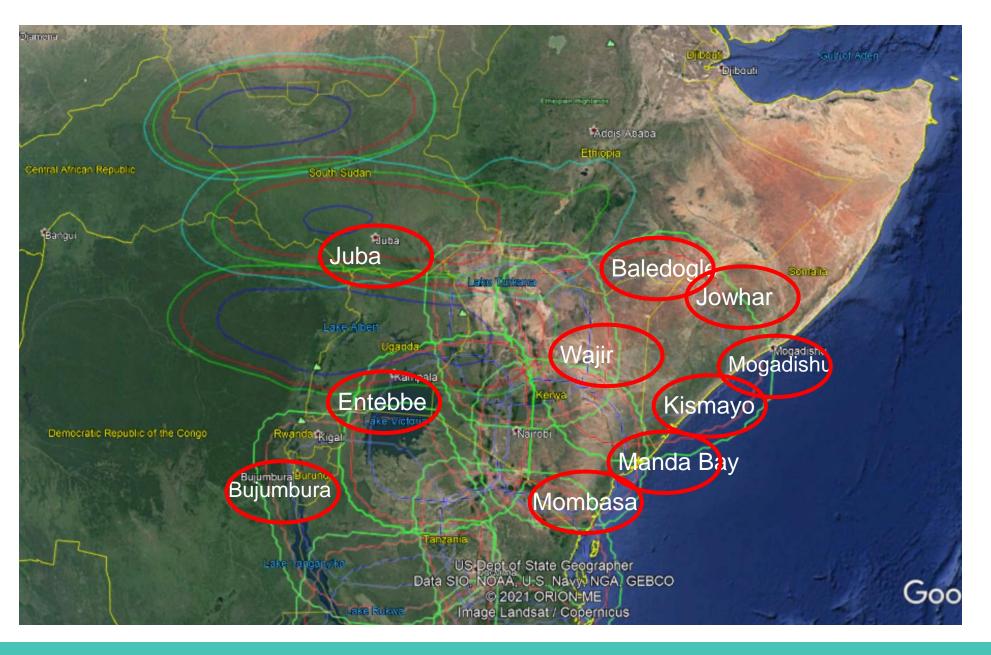
#### **THE SAHEL**



### **WEST AFRICA**



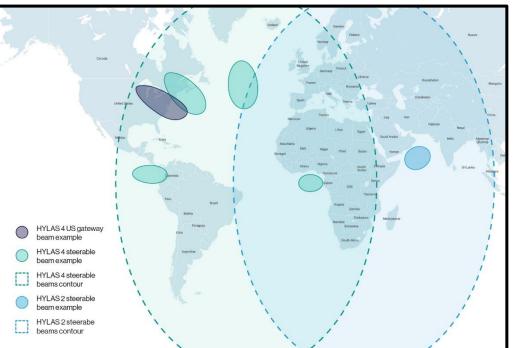
#### **HORN OF AFRICA**

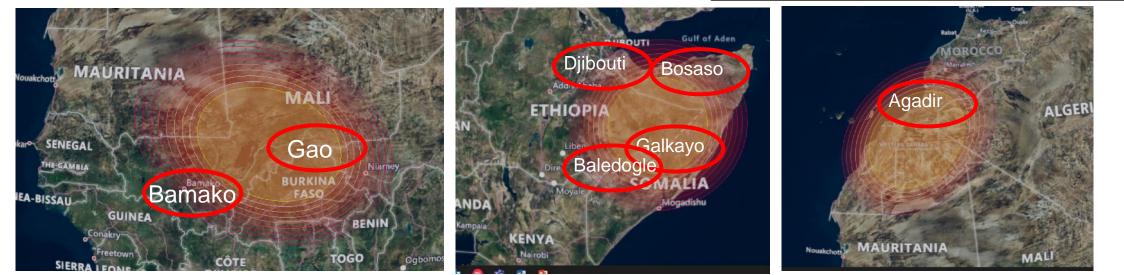


AVANTI

## **AVAILABLE STEERABLE CAPABILITY - SUMMARY**

- 5 x High Throughput Steerable Beams delivering up to 3Gbps per beam (920MHz).
  - 460MHz FWD and 460MHz RTN.
- 1 x 8 Beam Steerable Cluster (Hylas 3) delivering up to 1 GBps per beam (330MHz)
- Beams able to operate in CIV or MIL Spectrum
- Able to operate Direct to GES or in Loopback (H2 & H4)
- Hylas 4 beams can utilise a dedicated Gateway beam into USA





#### Helping Military and Government Users Achieve Information Advantage Across Europe, the Middle East and Africa

Contact - Avanti: <u>Donald.walker@avantiplc.com</u> <u>Tim.Owens@avantiplc.com</u>

