



# GOV SAT

**A new concept in  
secure communications**



# A new concept in secure communications

## WHO WE ARE

GovSat is a brand operated by LuxGovSat S.A., a public-private joint venture between the Luxembourg government and SES, the world-leading satellite operator. We take an active role in shaping our ecosystem, upstream and downstream, to ensure we provide the best integrated value to our users.

## OUR MISSION

Our mission is to provide secure, reliable and accessible satellite communication services for governments – addressing the demand for connectivity resulting from defence and institutional security applications. The company's first satellite GovSat-1 is scheduled to be operational in the Q4, 2017.



## CEO

**Patrick Biewer**  
Chief Executive Officer (CEO)

Patrick Biewer is the Chief Executive Officer (CEO) of GovSat. He reports directly to the GovSat Board of Directors, and is in charge of all GovSat business activities, building customer relationships with international institutions such as the European Union (EU), the United Nations (UN) and the North Atlantic Treaty Organisation (NATO).

Mr Biewer has held a number of executive positions since he joined SES in 1993 such as Managing Director of SES Broadband Services (SBBS). Mr Biewer is a Luxembourgish national, and was educated in France and the UK. He holds a Master's Degree in Telecommunications and an MBA from the Open University.



## CTO

**Jürgen Espanion**  
Chief Technology Officer

Jürgen Espanion is the Vice President and Chief Technology Officer of GovSat. Taking on this role in February 2016, he is responsible for the secure operation of all GovSat services, as well as the development of governmental and institutional products and services.

Before starting with GovSat, he worked in various positions at SES. Mr Espanion has more than 27 years of experience in the satellite communications industry, during which he has held various positions in the engineering, operations, business development and sales departments, for different international corporations.



## CCO

**Paul Wells**  
Chief Commercial Officer

Paul Wells is the Vice President and Chief Commercial Officer of GovSat. Taking on the role in September 2016 he is responsible for working closely with our customers to develop offerings that match their needs using GovSat-1.

Before joining GovSat he worked for QinetiQ where he created, developed and grew several highly successful businesses in the Communications, Security and ISR domains for Defence, Security and Commercial customers. He also spent time working in Government on creating and delivering highly challenging technical programmes into operational use. He has over 34 years of experience in secure satcoms for Defence and Security applications.



## BOARD



### CLASS A DIRECTORS

**Sasha Baillie**  
CHAIRMAN OF THE BOARD  
Government First Advisor, Ambassador  
Deputy Chief of Staff of the Deputy  
Prime Minister, Ministry of Economy

**Patrick Heck**  
Director of Defence,  
Luxembourg Ministry of Foreign  
and European Affairs

**Marie-Anne Ketter**  
Government First Advisor, Ministry of Justice

**Jacques Thill**  
Government Senior Advisor, Ministry of State



### CLASS B DIRECTORS

**Ferdinand Kayser**  
Chief Commercial Officer

**Philippe Glaesener**  
Senior Vice President,  
Business Development EMEA

**Chris Grogan**  
Senior Vice President,  
Customer Services Delivery

**Pierre Nilles**  
Vice President,  
Finance Support to Products  
& Services



# What we offer

## X-Band

**Frequency band reserved for governments and institutions, ideal for establishing secure and robust satellite communication links.**

### Global beam

Extensive coverage from 50°W to 90°E and 70°N to 70°S

Ideally positioned to address communications within NATO's stated Level of Ambition of a Major Joint Operation

Enables maritime operations over the Atlantic and Indian Oceans

### Multiple-mission beams

High-power coverage over key mission areas

Ideal for establishing critical and secure communications in theatres of operations

Fully flexible and steerable

## Military Ka-Band

**Frequency band reserved for governments and institutions, ideal for establishing secure communications for high throughput or mobility applications.**

### Anchor beam

Extensive coverage over Europe

Ideal for connecting European headquarters to any of the GovSat-1 mission beams

Ideal for interconnecting headquarters or other key institutional or defence sites within Europe

### Multiple-Mission beams

High-power beams to enable high bandwidth applications over small antennas

Ideal for Intelligence, Surveillance and Reconnaissance (ISR) and Communications on the Move (COTM) applications.

Providing high-power coverage over the Mediterranean Sea



## Teleport Services

Facilities accredited to handle up to EU NATO secret facilities

Secure hosting capabilities for user equipment in secured areas (including hosted nations capability)

Military Ka-Band anchor station and uplink services for full or fractional transponders

Terrestrial VPN/MPLS connectivity to landline connectivity at user sites

# Security for Institutions and Defence Applications

## Institutional Security Applications

GovSat-1 satellite capacity for institutional segment applications, including:

- Civil-military inter-agency collaboration
- Strategic and tactical networks
- Emergency response
- Disaster recovery
- Protection of natural resources
- Remote government offices

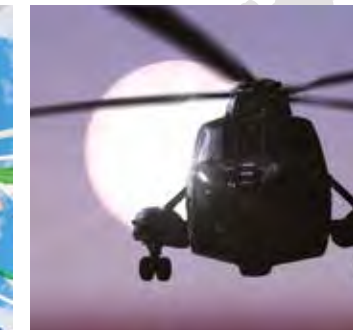
## Defence Applications

GovSat-1 satellite capacity for defence segment applications, including:

- Remote army operations (Mission to HQ communications)
- Communications on the move (COTM)
- Communications on the pause (COTP)
- Maritime operations
- Aero operations (ISR)



- Encrypted telemetry & control
- Anti-jamming
- Security accredited facilities
- Frequencies reserved to government and defence use
- Security cleared experts and operations





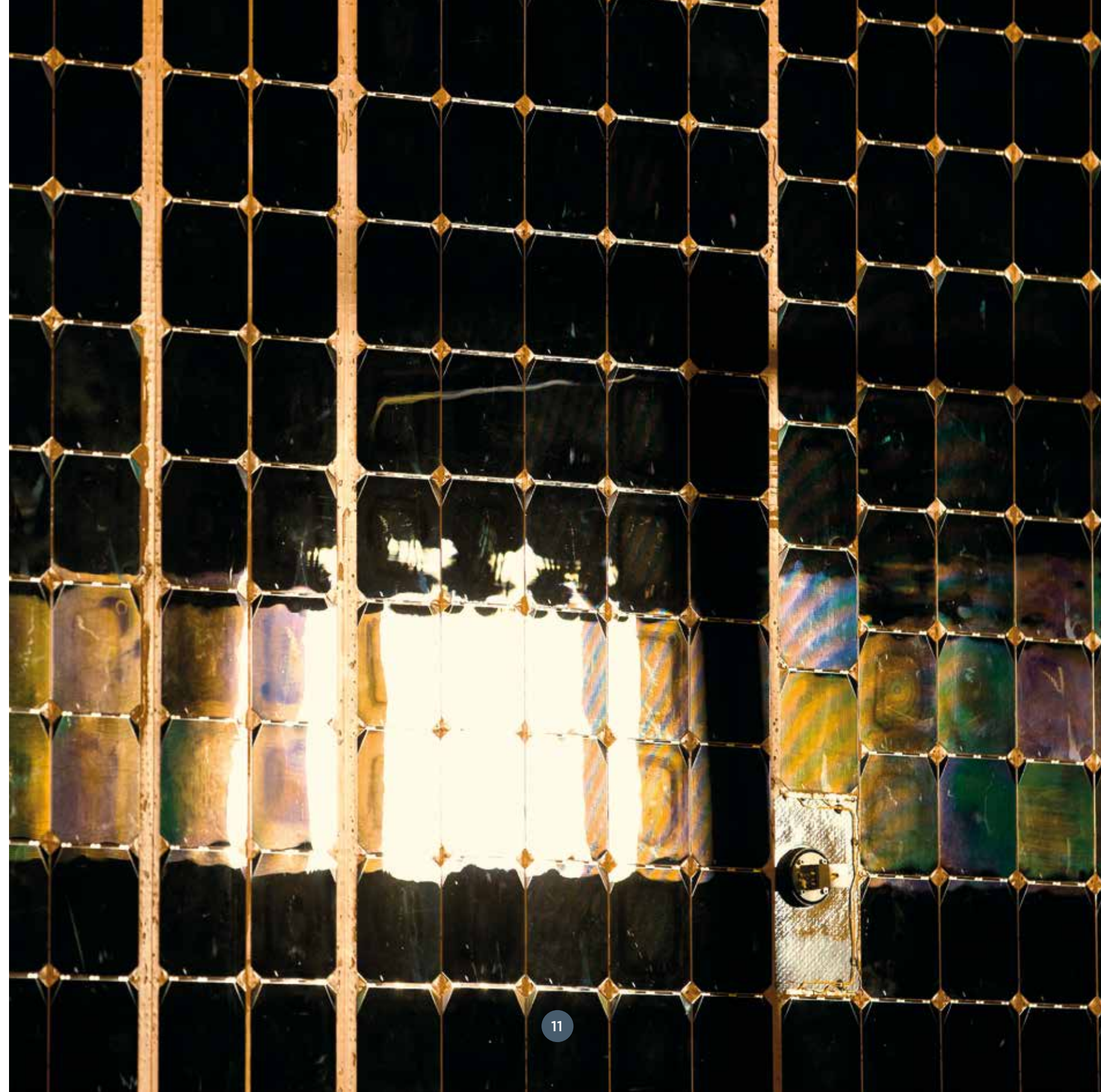
# GovSat-1



Introducing a new type of geostationary satellite aimed exclusively at government and defence users. GovSat-1 is a multi-mission satellite that offers X-Band and Military Ka-Band capacity.

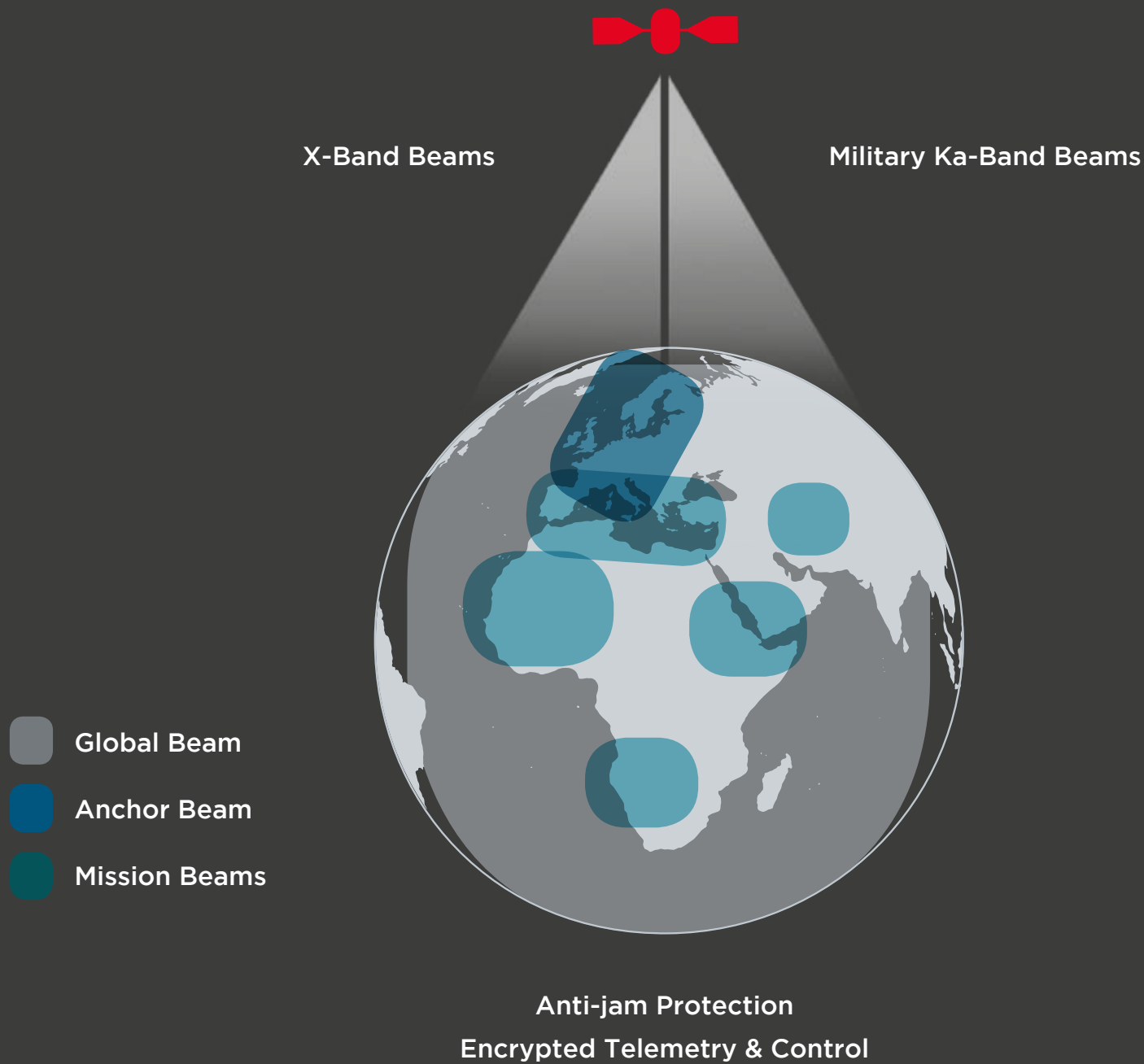
It is a highly secure satellite with encrypted command and control and anti-jamming capabilities. We lease satellite capacity on a non-preemptable basis, and our users have full control over the management of their services.

Capacity leases are offered to governments and institutions on a full or fractional transponder basis (MHz). Our 24/7 secure operations are staffed by operators and experts with the security clearance needed to support our users.



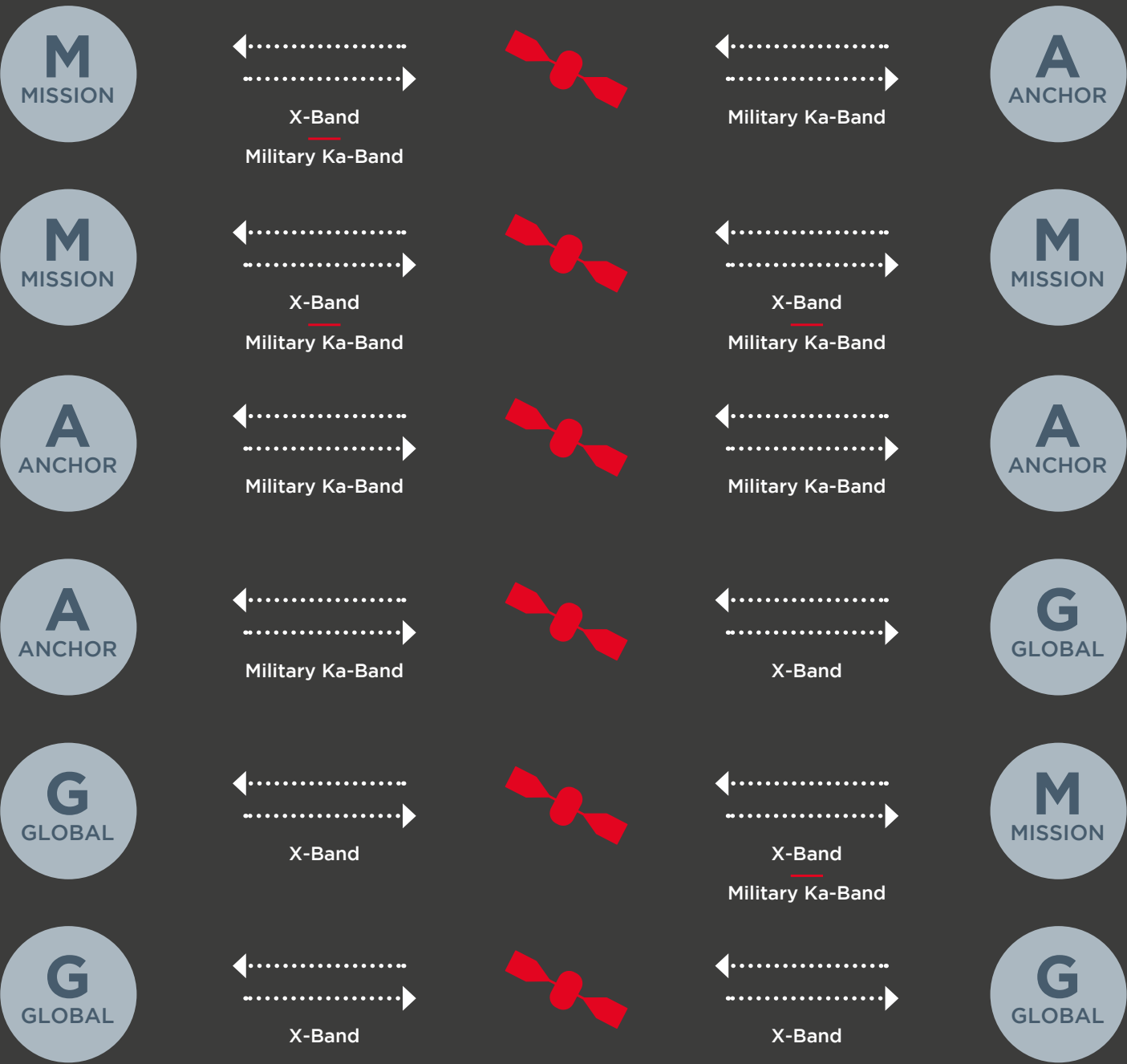
# X-Band and Military Ka-Band Coverage

Fixed and High-Power Steerable Beams



Note: Footprints are for illustrative purposes only.

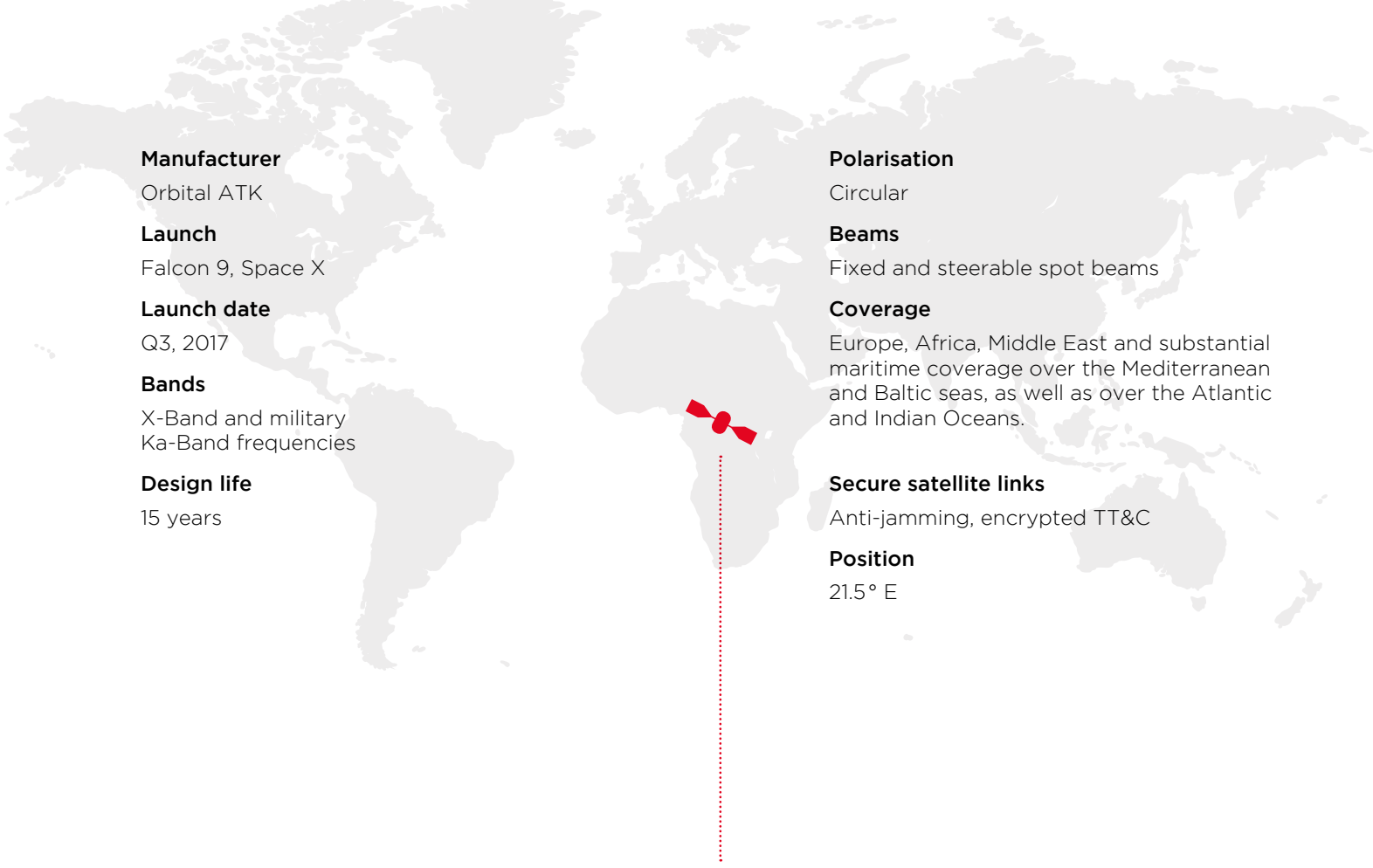
Flexible Connectivity





# GovSat-1

## Technical Specifications



**Manufacturer**

Orbital ATK

**Launch**

Falcon 9, Space X

**Launch date**

Q3, 2017

**Bands**

X-Band and military  
Ka-Band frequencies

**Design life**

15 years

**Polarisation**

Circular

**Beams**

Fixed and steerable spot beams

**Coverage**

Europe, Africa, Middle East and substantial maritime coverage over the Mediterranean and Baltic seas, as well as over the Atlantic and Indian Oceans.

**Secure satellite links**

Anti-jamming, encrypted TT&C

**Position**

21.5° E

180°W 160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0°W 21.5°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E 180°E







## **Luxembourg**

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