

DEFENCE AND SPACE

Eurostar Neo



AIRBUS

What is Eurostar Neo?

THE MOST MODULAR REFERENCE OF GEO TELECOMMUNICATION SATELLITE BY AIRBUS

Since the first launch in 2022, Eurostar Neo offers increased efficiency, performance and competitiveness, from a cost and schedule perspective compared to any GEO platform on the market.

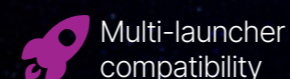
It draws on all the strengths, experience and unique in-orbit heritage of the Eurostar family.

The spacecraft design, from payload accommodation to equipment options, is based on a single imperative: providing the widest range of choices to deliver the most responsive, and flexible solution to customer needs.



“Eurostar is the most tailorable and reliable solution to your needs”

Design to mission and smart modularity



5 Capacity to fire up to 5 thrusters simultaneously

15 years
Extended operational life, often exceeding 15 years

6.8t
From 3 to 6.8 ton launch mass

Electric Orbit Raising

Most optimised and reduced orbit raising duration

Up to 2,700
Payload mass

12m
Capacity to embark 12m unfurlable reflectors

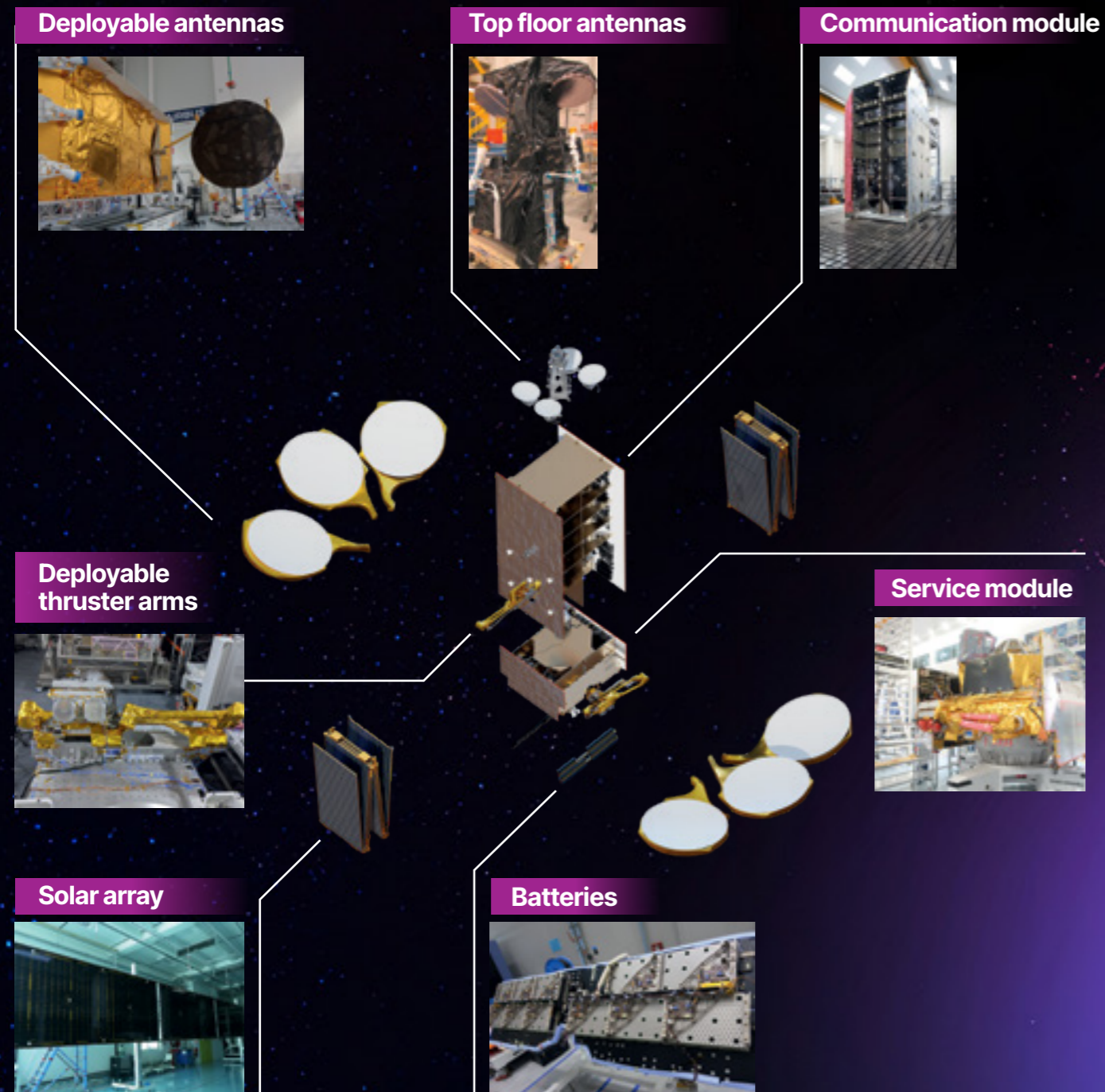
6x2.6m
Antennas fully customisable to customer's need with up to 6 deployable reflectors of a diameter up to 2,6m

7-24+kW
Scalable power system to cover a payload power needs up to 24kW



Eurostar Neo in production

EUROSTAR NEO DRAWS ON THE BEST OF AIRBUS' EXPERIENCE, BUILDING ON THE EUROSTAR FAMILY HERITAGE, ONEWEB AND AIRCRAFT EXCELLENCE IN DESIGN AND PRODUCTION



Platform

Communication Module

- Scalable product focusing on optimised payload performance,
- Open I-Frame configuration simplifying payload layout and maximising accessibility for integration,
- Dedicated X-face supporting side antennas.

Service Module

- Full Carbon Fibre Reinforced Polymers (CFRP) primary structure and 1666mm Launch Vehicle Adapter (LVA),
- Supports avionics, power and propulsion systems,
- Equipment, harness and propulsion pre-installed on panel modules,
- Maximum opportunity for parallel integration,
- Common equipment across options.



AIRBUS WAS THE FIRST TO USE FULL ELECTRIC ORBIT RAISING FOR LARGE AND POWERFUL SATELLITES



Payload

MODULARITY AND FLEXIBILITY SOME EXAMPLES



ENEO CM3

- Ku/Ka Multi-Beam HTS Bent pipe mission
- Triple antenna configuration up to 2.6m diameter reflectors



ENEO CM3

- Ku-Band DTH bent pipe mission, UHF hosted payload
- 6 antennas, three 2.2m antennas and three 2.6 m antennas



ENEO CM4

- Ku/Ka-Band DTH bent pipe with complex selectivity
- Double deployment of up to 2.6m diameter reflectors



ENEO CM4

- Flexible payload
- 2.2m Rx User antenna, 2,6 m Tx User antenna and two 1.2 m G/W antennas



ENEO CM3

- Pallet of Ka-Band, UHF antenna and active X-Band antenna

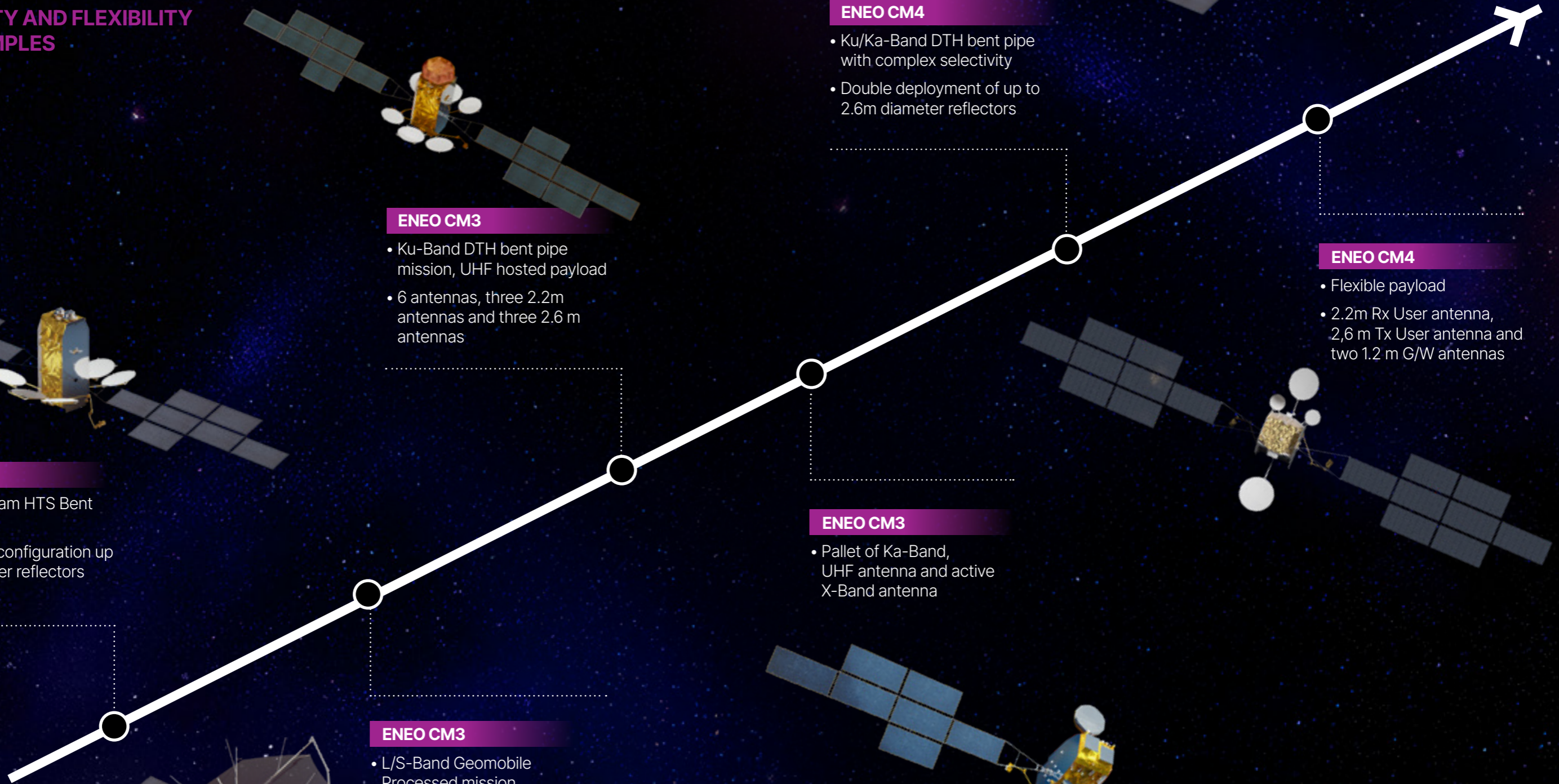


ENEO CM3

- L/S-Band Geomobile Processed mission

FROM 7kW
DC POWER

UP TO 24kW
DC POWER

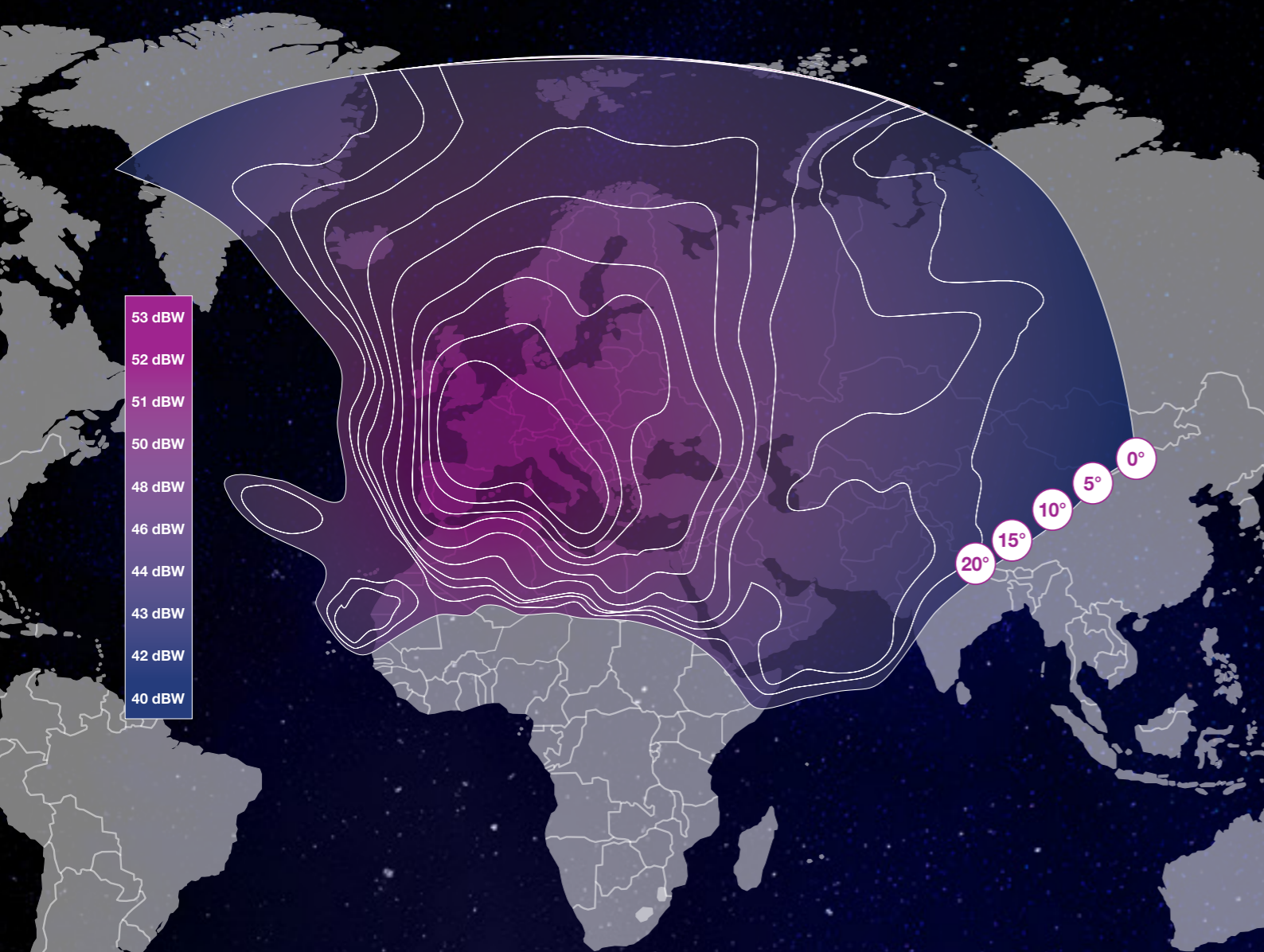


Extensive and continuous coverage

AIRBUS CUSTOMISES PAYLOAD DESIGN TO YOUR COVERAGE AREA NEEDS

Typical bentpipe payload broadcast using up to **80 transponders** in Ku/Ka/X/C frequency bands for multibeam and multi-coverage missions.

EUROSTAR NEO COVERAGE EXAMPLE (for illustration only)



Key benefits

High performance, payload power up to 24kW and VHTS missions

World shortest Electric Orbit Raising (EOR) duration

Robust design fully customisable to fit any satellite mission

High reliability more than 99.9% availability

Compatible with all launchers

Dual mode: enhanced autonomy in LEOP and On-station

Airbus is the most experienced in electrical propulsion

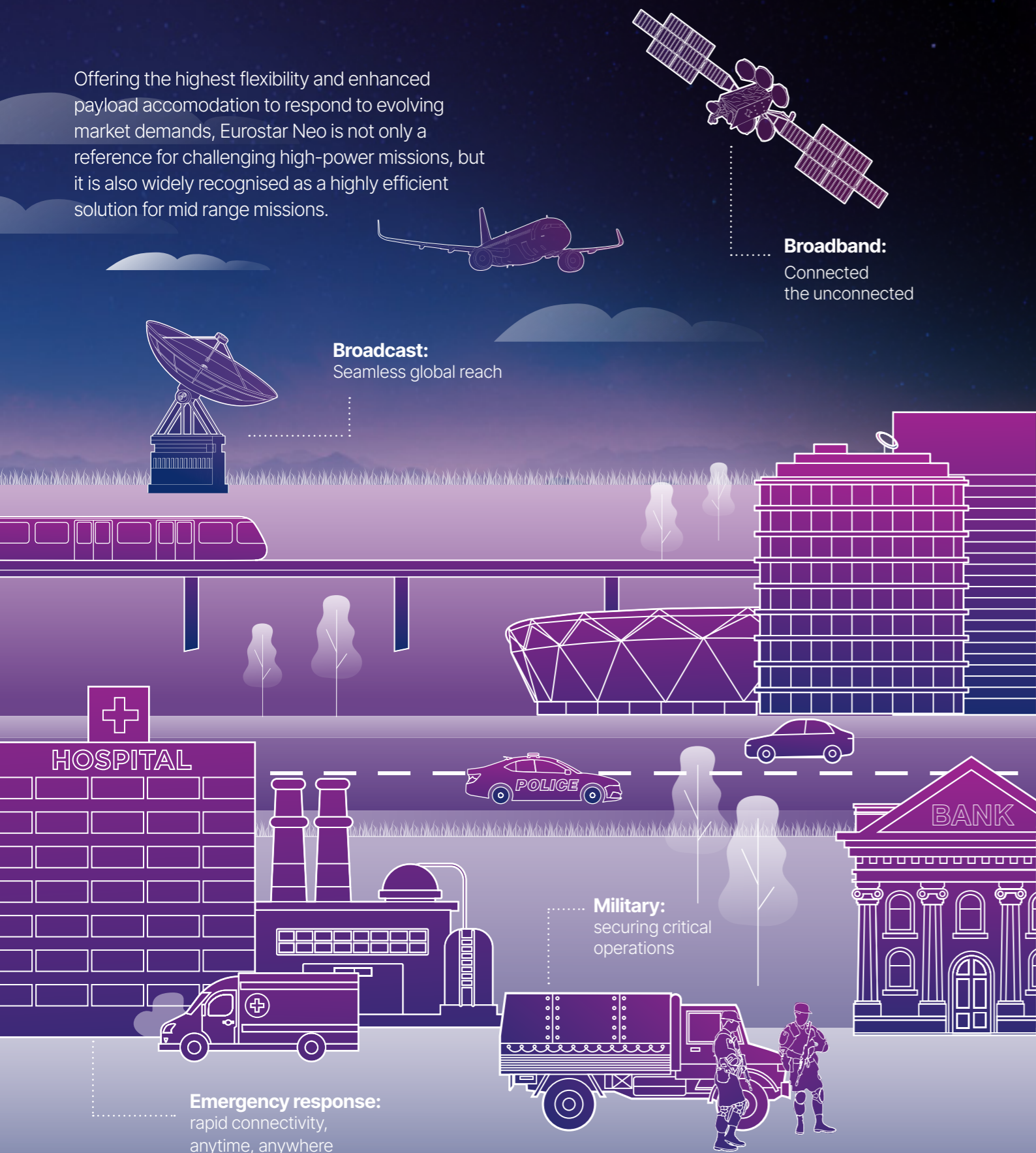
Eurostar family: more than **35 years of heritage**

Enhanced platform beam **pointing accuracy**

Core product innovations payload centric and design-to-manufacture

Use cases

Offering the highest flexibility and enhanced payload accommodation to respond to evolving market demands, Eurostar Neo is not only a reference for challenging high-power missions, but it is also widely recognised as a highly efficient solution for mid range missions.



Europe's largest defence and space company and pioneer in telecommunications



Proven track record of successful deployments



Leader in large satellite manufacturing (up to 24kW)



End-to-end system provider for a seamless integrated solution, easily deployable



77 000 m² cleanroom capacities



Unrivalled LEOP* and in-flight service more than 50 LEOP's from the satellite operations center since 1998



Entire value chain mastered including Ground segment, Satellite equipment, Launchers, Satellite manufacturing...



Airbus Space Academy Operational training center dedicated to our customers

*LEOP Launch and Early Orbit Phase

With Eurostar Neo, gain more than a GEO satellite, partner with Airbus, a trusted leader in the space industry



Systems



Ground segment



End user application



Manufacture and Testing



Launcher

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