

سهيل سات Es'hailSat

الشركة القطرية للأقمار الصناعية Qatar Satellite Company

Space to deliver your vision

COMMITMENT TO INNOVATION
EXTENDS BEYOND ITS SATELLITE FLEET



Es'hailSat is a private joint stock company wholly owned by the Qatar Investment Authority (QIA). Headquartered in Doha, Qatar, is a prominent player in the satellite industry. Established in 2010, the company has been at the forefront of managing and developing Qatar's space presence, leveraging cutting-edge innovations to provide advanced satellite services globally.

With a vision of becoming a truly global satellite operator and service provider, Es'hailSat has embraced modern advancements in the industry. By harnessing state-of-the-art technology, the company offers independent, high-quality satellite services that cater to the evolving needs of broadcasters, businesses, and governments across the Middle East, North Africa, and beyond.



COMMITMENT TO INNOVATION EXTENDS BEYOND ITS SATELLITE FLEET

The company has embarked upon the evaluation and incorporation of emerging technologies such as satellite constellations (NGSO), Earth Observation (EO) analytics and Direct-to-Device (D2D) enabling it to meet the increasing demand for data-intensive applications, including broadband internet services, video streaming, and telecommunication solutions. By adopting new technology, Es'hailSat aims to significantly expand its capacity and coverage capabilities, ensuring seamless connectivity for users across the Middle East and North Africa (MENA) region and beyond.

Es'hailSat's satellite fleet, strategically positioned at the 25.5° East and 26° East hotspot locations, features both Ku-band and Ka-band capacity. This combination of frequency bands empowers Es'hailSat to deliver the most advanced and sophisticated services to the region. These services encompass a wide range of applications, including broadcast, telecommunications, and broadband, catering to the diverse needs of broadcasters, businesses, and governments.

2013

The launch of its first satellite, Es'hail-1

Positioned at the 25.5° East orbital location. This groundbreaking satellite revolutionized the broadcast landscape in the region, empowering key broadcasters such as beIN SPORTS and Al Jazeera Media Network with enhanced coverage and superior transmission capabilities.

2018

Introduced its second satellite, Es'hail-2

Positioned at the 26° East orbital location, Es'hail-2 not only expanded the company's service portfolio but also capitalized on modern satellite industry innovations. These include advancements in satellite technology such as improved power efficiency, and enhanced data throughput, allowing Es'hailSat to deliver even higher quality and more reliable satellite services to its growing customer base.

Vision

World-class operator

Es'hailSat aims to be a world-class satellite operator who effectively contributes to the success of Qatar's National Vision 2030 by adding a new dimension to the diversifying economy.

Mission

Advanced satellite service provider

Es'hailSat will provide advanced satellite services to strategic stakeholders and commercial customers, who value broadcasting and communications independence, quality service and wide geographical coverage.

As the satellite industry continues to evolve, Es'hailSat remains at the forefront, leveraging modern innovations and technologies to meet the ever-growing demand for advanced satellite services. With integrity, reliability and focus on continuous development as our core values, Es'hailSat is poised to shape the future of satellite communications, driving connectivity, and bridging the digital divide across the globe.





BROADCAST

With the launch of Es'hail-1 (2013) and Es'hail-2 (2018), Es'hailSat started providing much-needed facilities for the growing demand for broadcast services (particularly HD and Ultra HD TV) across MENA.



Our satellites operate from the key orbital positions of 25.5°/26° East, covering the entire MENA region.

And our Broadcast Services now bring scalable technology platforms and solutions to the broadcast community through our state-of-the-art Teleport in Doha, Qatar.

Supporting multi-channel operators as well as single-channel operators in the broadcast sector.

- **DTH / Broadcast Distribution**
- **Broadcast Contribution Services**
- **Playout and Media Services**

TELECOMS

Es'hailSat provides high-quality end-to-end solutions for Internet & Data connectivity to satisfy the business needs of our corporate customers.

Leveraging state-of-the-art facilities at the Es'hailSat Teleport and Broadcast Centre, Es'hailSat is able to provide a wide range of services and solutions tailored to the needs of our telecommunications customers.

- Very Small Aperture Terminal (VSAT)
- Cellular Backhaul
- Maritime/Oil & Gas
- IP Trunking – IP over Satellite Transit (iPOST)

GOVERNMENT

For government users, Es'hail-1 enables mission-critical communications that can be established quickly and securely.

Es'hail-1 carries a multi-transponder Ka-band mission dedicated to these users with coverage across the whole MENA region.

This makes it possible to establish secure and dedicated telecommunication services including:

- Broadband internet access,
- Corporate networks, and similar services using small fixed or mobile antennas.



TELEPORT

Es'hailSat's world-class Teleport built on the outskirts of Doha, Qatar, provides hosting services with a Tier-4 certified infrastructure.

Tier-4 Teleport

The Es'hailSat state-of-the-art Tier-4 certified Teleport of the massive 50,000 sqm built in Doha provides a range of teleport services including back-up studios for TV channels and disaster recovery.

Antenna Hosting

Es'hailSat has a large antenna farm that can host an extensive number of antennas of various sizes.

Adequate space has been allocated for the expansion of the antenna farm if needed in the future.

Partial cabinet

If you want the peace of mind offered by a colocation facility, but don't require a full cabinet or suite, Es'hailSat colocation services offer options ranging from single rack unit, quarter cabinet or half cabinet, with the ability to expand your space as needs grow.

Private Data Center Suite

If you are looking for your own dedicated, customizable, end-to-end data center solution, Es'hailSat can provide Dedicated Data Center Suites.

This option offers customers the benefit of managing their own metered power, environmental controls, and connectivity, with a higher level of privacy, security and flexibility as well as dedicated infrastructure options for maximum control.

Full Rack

Full Rack is another aspect of our colocation services and is a cost-effective solution for housing your equipment in individual locking cabinets. Your cabinets, provided by either our company or yours, will be accessible 24x7 only to authorized personnel.

QATAR AMATEUR RADIO SOCIETY

In order to promote and foster space technology development in Qatar, Es'hailSat has initiated the development of new technology for the Qatar Amateur Radio Society.

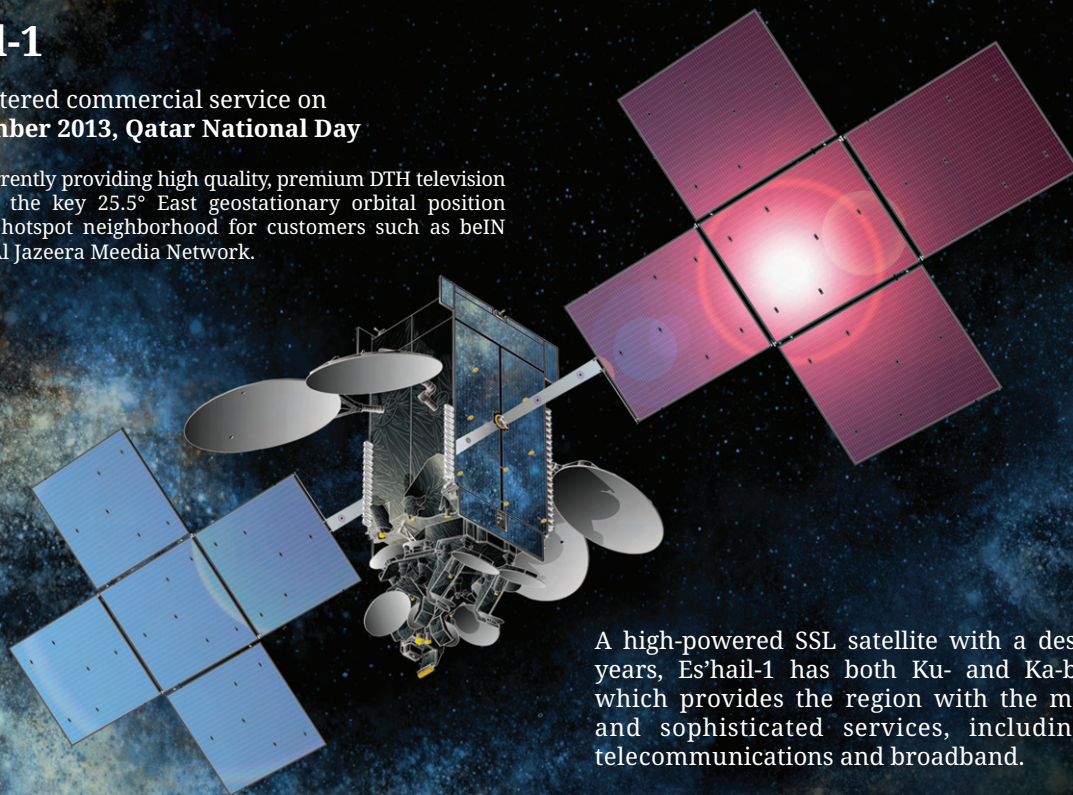
With the provision of two transponders on the Es'hail-2 satellite for an Amateur Satellite Radio payload, this ground-breaking project is providing an exciting new phase of activity for radio amateurs in the 21st century. Es'hail-2 provides the first Radio Amateur Satellite Corporation (AMSAT) geostationary communication capability that connects users across the visible globe in one single hop and in real-time. It also allows the AMSAT community to validate and demonstrate their DVB standard.



Es'hail-1

Es'hail-1 entered commercial service on
18th December 2013, Qatar National Day

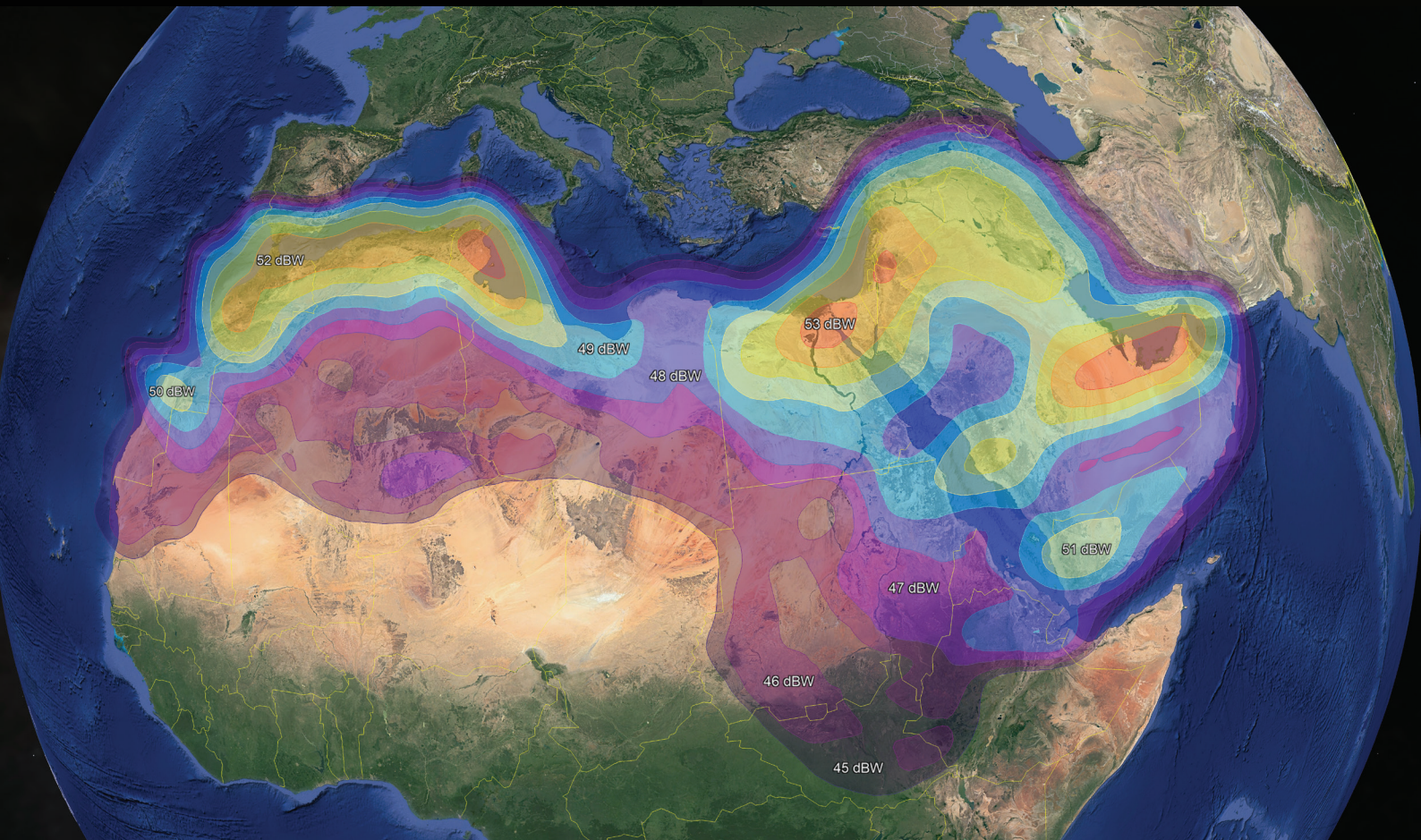
Es'hail-1 is currently providing high quality, premium DTH television content from the key 25.5° East geostationary orbital position broadcasting hotspot neighborhood for customers such as beIN SPORTS and Al Jazeera Meedia Network.



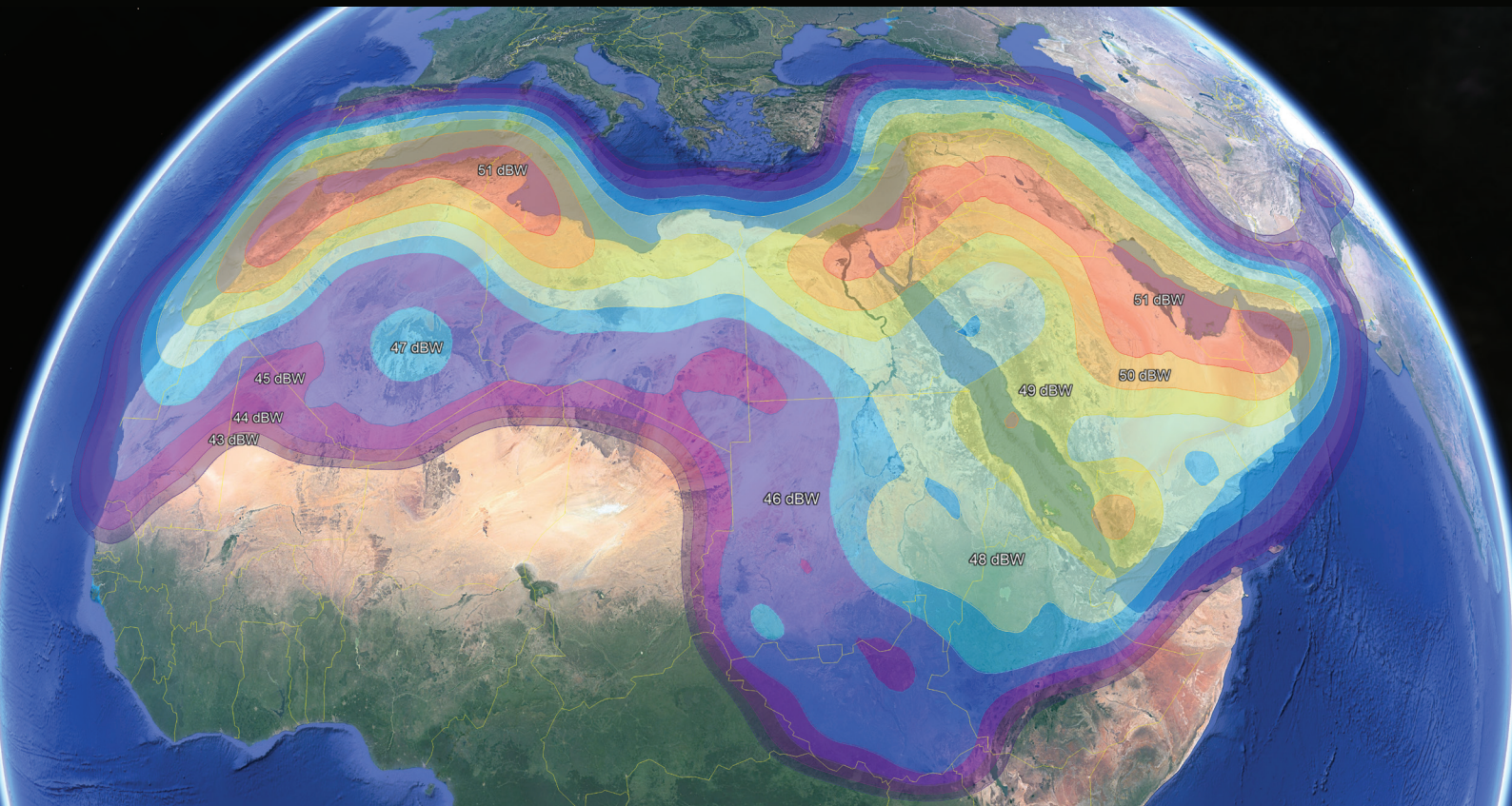
A high-powered SSL satellite with a design life of 15 years, Es'hail-1 has both Ku- and Ka-band payload, which provides the region with the most advanced and sophisticated services, including broadcast, telecommunications and broadband.

Es'hail-1 is the country's first satellite and the Es'hailSat program plays an important role as Qatar works to meet the rapidly growing communications needs in the region.

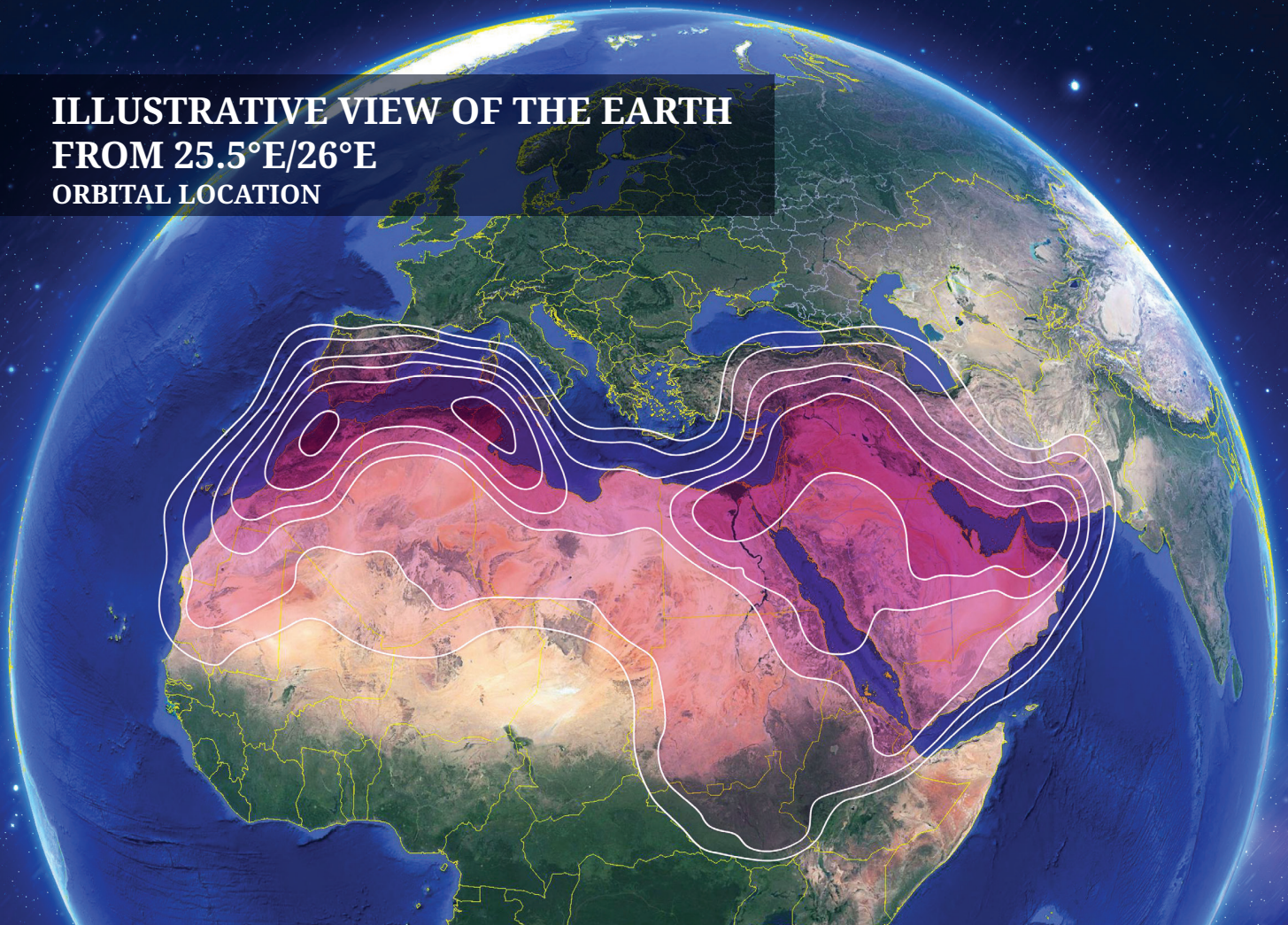
Es'hail-1 KU-BAND COVERAGE (MENA REGION DOWNLINK)



Es'hail-1 KA-BAND COVERAGE (MENA REGION DOWNLINK)



**ILLUSTRATIVE VIEW OF THE EARTH
FROM 25.5°E/26°E
ORBITAL LOCATION**



Es'hail-2

Es'hailSat launched the second satellite on
15th November 2018

This high-powered, advanced satellite has further boosted broadcasting and global connectivity in Qatar, **the entire MENA region** and beyond. Es'hail-2 is manufactured in Japan by MELCO (Mitsubishi Electric Corporation).

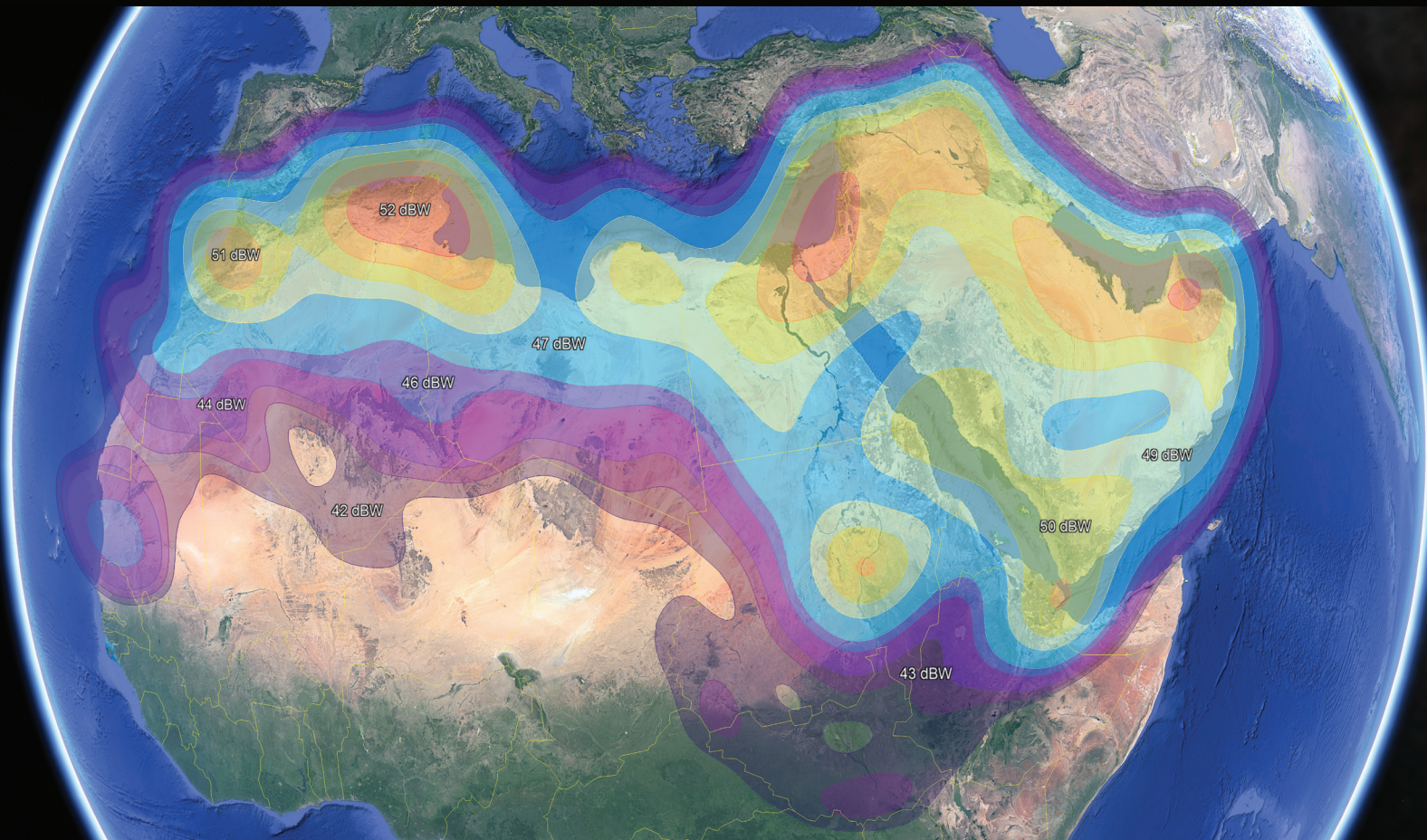
Es'hail-2 has Ku-band and Ka-band capabilities and supports TV distribution, telecoms, mobility and government services to strategic stakeholders and commercial customers who value broadcasting independence, interference resilience, quality of service and wide geographical coverage.

The satellite also provides greater capability for anti-jamming protection as well as redundancy and back-up for Es'hail-1.

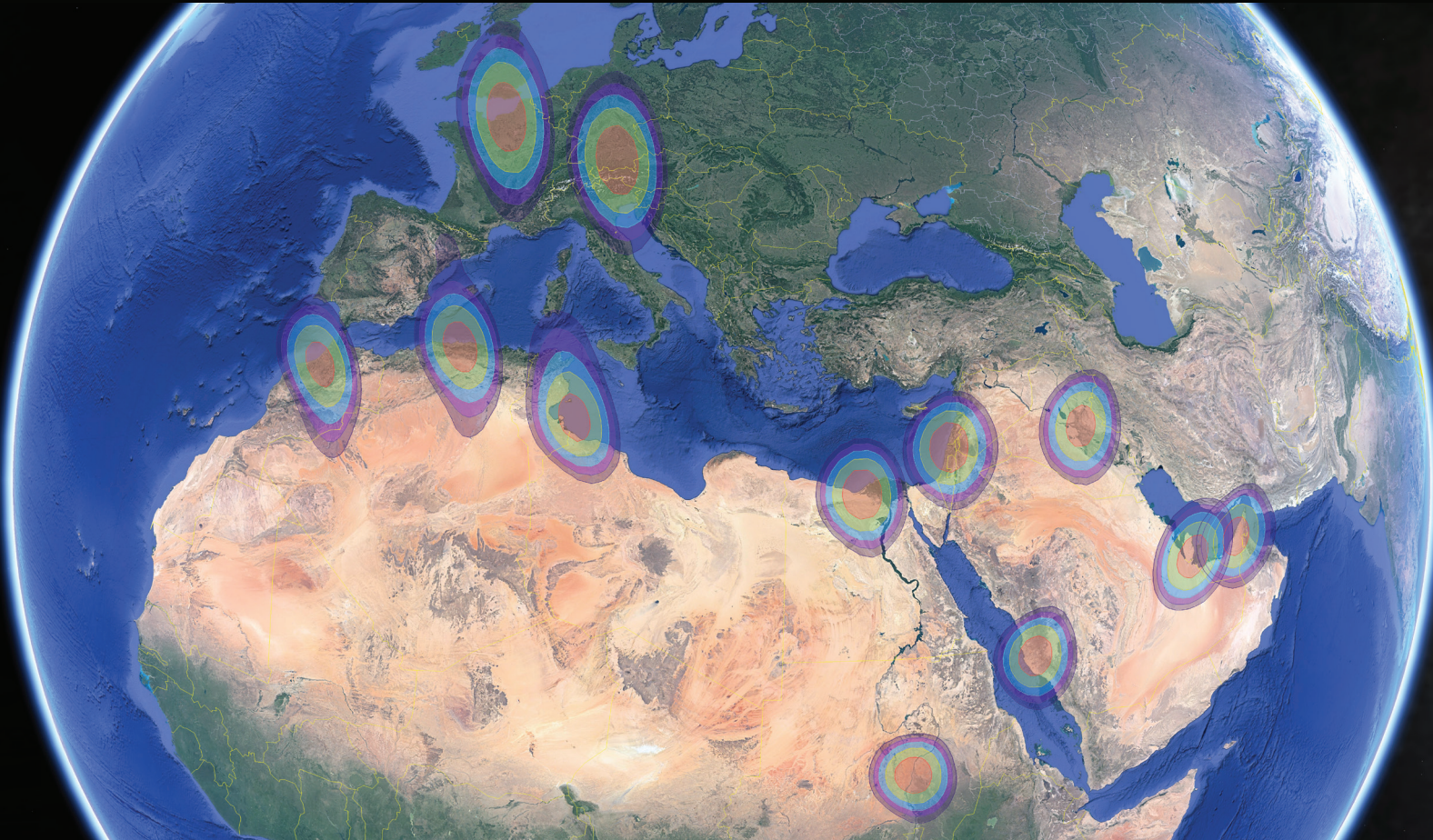
Es'hail-2 also supports the first Radio Amateur Satellite Corporation (AMSAT) geostationary communication capability that connects users across the visible globe in one single hop and in real-time. It also allows the AMSAT community to validate and demonstrate their DVB standard.



Es'hail-2 KU-BAND COVERAGE (MENA REGION DOWNLINK)



Es'hail-2 KA-BAND COVERAGE (SPOT BEAM UPLINK)





Qatar Satellite Company الشركة القطرية للأقمار الصناعية

Property No. 414, Al Markhiya Street No. 380, Area No. 31, Umm Lakhba, P.O. Box 10653 | Doha-Qatar
T : +974 44993535 | F : +974 44993504 | info@eshailsat.qa | www.eshailsat.qa

