

HIGH THROUGHPUT SATELLITES: VERTICAL MARKET ANALYSIS & FORECASTS

2017 Edition | A Euroconsult Executive Report

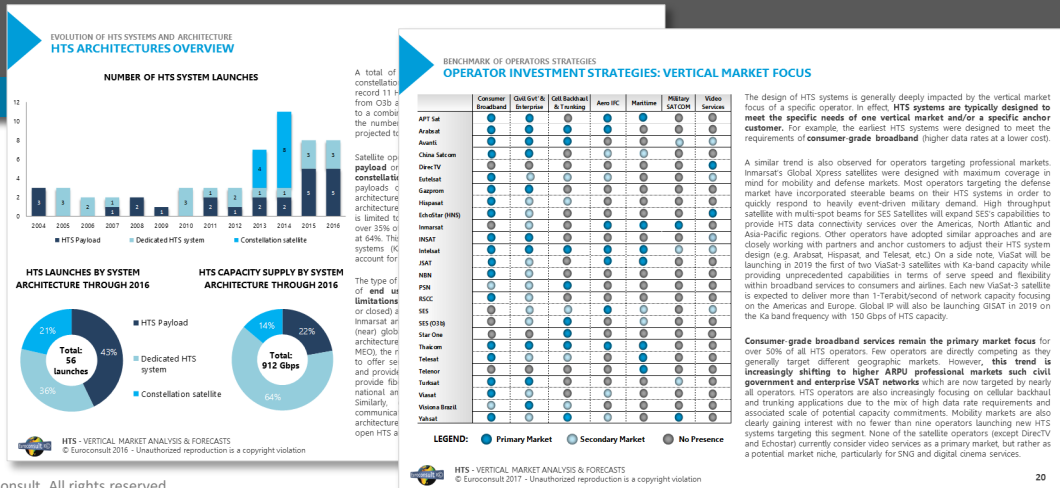
A vertical market analysis of major drivers, strategic issues and demand take-up for HTS

- ✓ **Over 70 pages**
- ✓ **Graphs & tables incorporated into every page**
- ✓ **Comprehensive digital files**
Including all forecasts in Excel files
- ✓ **Thousands of data points**
- ✓ **Price starting at € 4,000**

The total committed investment from the 30 satellite operators in HTS systems has reached nearly \$19 billion. Compared to the 36 launches of GEO-HTS systems over the past decade, another ~100 GEO-HTS systems are expected to launch from 2017 to 2025, at an average of 11 launches per year. Of these ~100 GEO-HTS systems, roughly 60 have yet to be officially contracted and are still open to the market.

After relatively low net additions of HTS supply in 2015 and 2016, due in part to slippage of launch schedules, capacity supply is now set to more than double to nearly 2,000 Gbps by 2018, reaching roughly 3,600 Gbps by 2020. Nevertheless, the growth in GEO-HTS is to be overshadowed by the emergence of NGSO constellation projects. NGSO-HTS constellation projects are building momentum, promising massive volumes of capacity supply, low latency and global (or near-global) coverage. While it is highly unlikely that all will come to fruition, NGSO-HTS projects such as the continued expansion of SES' O3b fleet of MEO satellites, OneWeb, SpaceX, Telesat and LeoSat would combine to account for over \$20 billion of required investment capital and add upwards of 40 Tbps of supply.

Total HTS capacity lease revenues are forecasted to reach more than \$6 billion by 2025, generating over \$36 billion in aggregate revenues over the period. As a sign of strong underlying and elastic demand, this impressive revenue growth is expected to be achieved despite the confluence of factors combining to drive capacity prices substantially lower, including growing supply, long-term bulk contracts and an increasingly commoditized market for telecom network services.



ABOUT HIGH THROUGHPUT SATELLITES

HIGHLIGHTS OF THE EXECUTIVE REPORT:

- ✓ Highlights the evolution of HTS systems & architectures over the last decade
- ✓ HTS system launches & order forecast
- ✓ Impact assessment of LEO constellations
- ✓ Identifies & assesses the HTS investment plans of all satellite operators
- ✓ Projected take-up profile by frequency band of each vertical market
- ✓ Bottom-up vertical market forecasts/projected market take-up by region and system type (GEO-HTS Ka, GEO-HTS Ku, NGSO-HTS) until 2025; regions include:

North America • Latin America • Europe • Russia & Central Asia • Middle East & Africa • Asia Pacific • Oceans

- ✓ Vertical markets include:

Consumer Broadband • Civil Government & Enterprise Networks • Military Satellite Communications • Cellular Backhaul & Trunking • Aero In-Flight Connectivity • Maritime Communications • Video Services

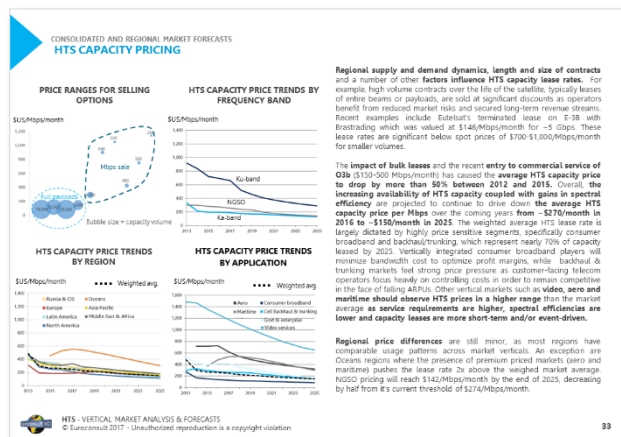
METHODOLOGY:

Analysis, data and estimates found in the report rely on two complementary approaches:

- In-depth analysis containing interviews with over 20 primary stakeholders from around the globe.
- Secondary research includes a review of hard-to-obtain public information. Further, we relied heavily on our continuous research of the satellite sector from recurring publications, including reports such as Satellites to be Built & Launched, Satellite Communications & Broadcasting Markets Survey (SCBMS), and Aero IFEF.

REPORT STRUCTURE

ANALYSIS



WHO WILL BENEFIT FROM THIS REPORT:

- ✓ Satellite Operators
- ✓ Banks & Investors
- ✓ Service Providers
- ✓ Equipment Manufacturers
- ✓ Satellite Manufacturers
- ✓ Government Agencies

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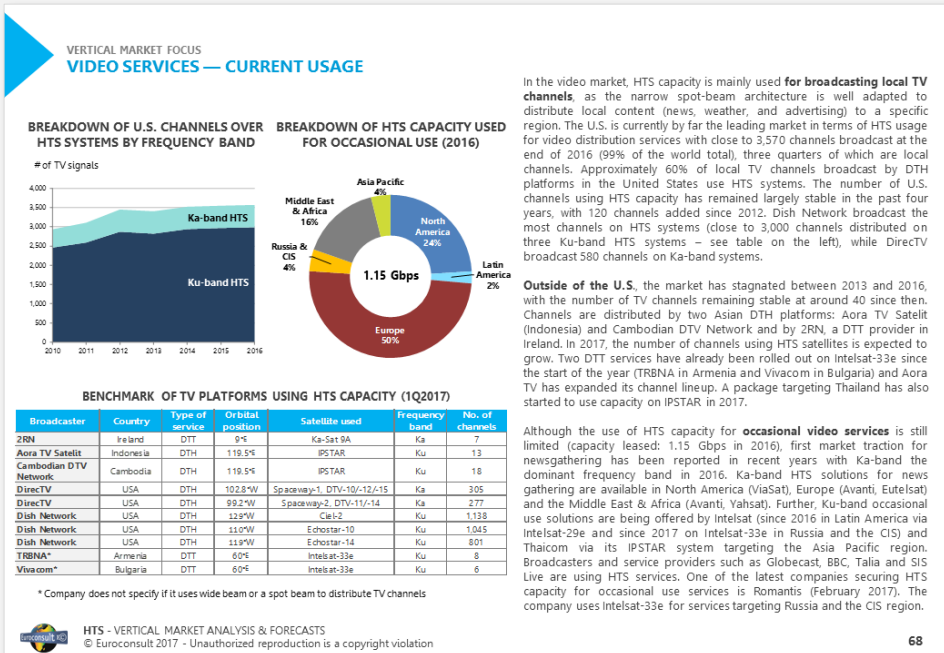
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- ❑ 5G BACKHAUL
- ❑ SMALL CELLS



In the video market, HTS capacity is mainly used for **broadcasting local TV channels**, as the narrow spot-beam architecture is well adapted to distribute local content (news, weather, and advertising) to a specific region. The U.S. is currently by far the leading market in terms of HTS usage for video distribution services with close to 3,570 channels broadcast at the end of 2016 (99% of the world total), three quarters of which are local channels. Approximately 60% of local TV channels broadcast by DTH platforms in the United States use HTS systems. The number of U.S. channels using HTS capacity has remained largely stable in the past four years, with 120 channels added since 2012. Dish Network broadcast the most channels on HTS systems (close to 3,000 channels distributed on three Ku-band HTS systems – see table on the left), while DirectV broadcast 500 channels on Ka-band systems.

Outside of the U.S., the market has stagnated between 2013 and 2016, with the number of TV channels remaining stable at around 40 since then. Channels are distributed by two Asian DTH platforms: Aora TV Satellit (Indonesia) and Cambodian DTV Network and by 2RN, a DTT provider in Ireland. In 2017, the number of channels using HTS satellites is expected to grow. Two DTT services have already been rolled out on Intelsat-33e since the start of the year (TRBNA in Armenia and Vivacom in Bulgaria) and Aora TV has expanded its channel lineup. A package targeting Thailand has also started to use capacity on IPSTAR in 2017.

Although the use of HTS capacity for **occasional video services** is still limited (capacity leased: 1.15 Gbps in 2016), first market traction for newsgathering has been reported in recent years with Ka-band the dominant frequency band in 2016. Ka-band HTS solutions for news gathering are available in North America (ViaSat), Europe (Avanti, Eutelsat) and the Middle East & Africa (Avanti, Yahsat). Further, Ku-band occasional use solutions are being offered by Intelsat (since 2016 in Latin America via Intelsat-29e and since 2017 on Intelsat-33e in Russia and the CIS) and Thaicom via its IPSTAR system targeting the Asia Pacific region. Broadcasters and service providers such as Globecast, BBC, Talia and SIS Live are using HTS services. One of the latest companies securing HTS capacity for occasional use services is Romantis (February 2017). The company uses Intelsat-33e for services targeting Russia and the CIS region.

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