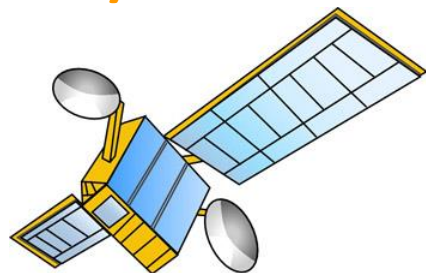
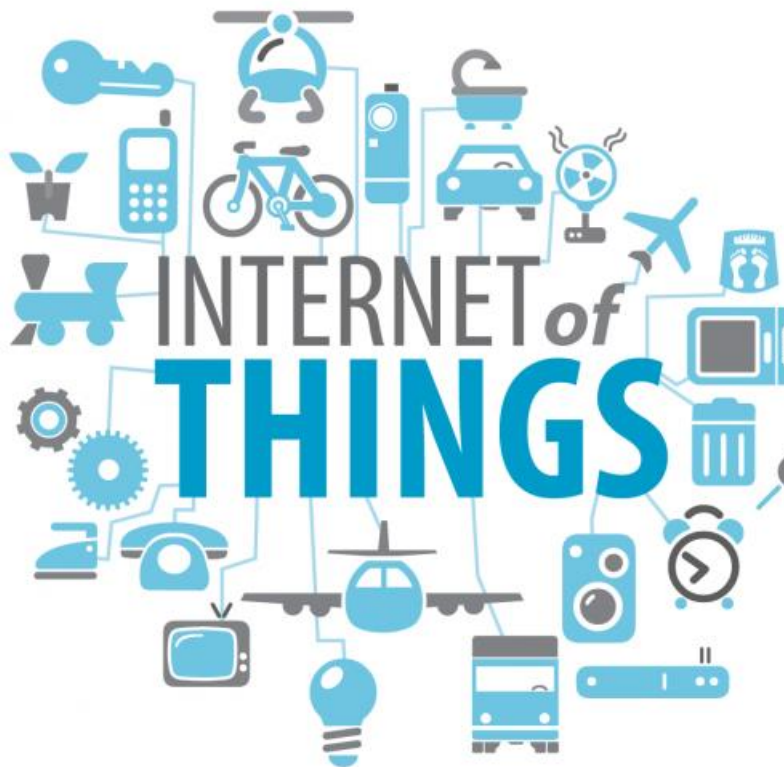


M2M (Machine to Machine) Over Satellite IOT (Internet of Things)



Εκτιμάται ότι μέχρι το 2020, ο τζίρος από τις υπηρεσίες M2M μέσω δορυφόρου θα ανέλθουν στα €5,9 Δισεκατομμύρια.

IOT (Internet of Things) και Δορυφόροι...

INDUSTRY CHALLENGES



More Data



Pressure on Portability



Δυναμική Αγορά



Συνδεσιμότητα Οπουδήποτε

- Καταναλωτές
- SOHO/SME
- Επιχειρήσεις
- SCADA
- Internet Connectivity
- Tele education
- Telemedicine
- Tele working
- FNG/SNG
- Contribution
- Distribution
- Direct-To-Home
- Cellular Backhaul
- IP Backhaul
- IP Trunking
- Fiber Restoration
- Government Networks
- ISR & Border Security
- Disaster Recovery
- MWR



VSAT



BROADCAST



CELLULAR BACKHAUL & TRUNKING



GOVERNMENT & DEFENSE

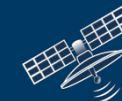
FLEXIBILITY, SCALABILITY, EFFICIENCY

HS-2



Ku band

HS-3



Ku band
Ka band
S band

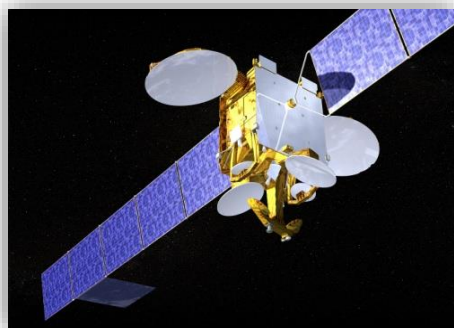
HS-4



Ku band
Ka band

Η Ρόλος της Ελλάδας και της Hellas Sat

Hellas Sat 2



Manufacturer

Airbus Defense & Space

Model

Eurostar 2000+

Launch Date

12 May 2003

Expected lifetime

15 years

Coverage

Europe – S.Africa – Middle East

Payload

30 transponders

Hellas Sat 3



Manufacturer

Thales Alenia Space

Model

Spacebus 4000C4

Launch Date

December 2016

Expected lifetime

15 years

Coverage

Europe – S.Africa – Middle East

Payload

47 transponders

Intelsat /Europasat S Band Payload

Hellas Sat 4



Manufacturer

Lockheed Martin

Model

A2100

Launch Date

April 2017

Expected lifetime

15 years

Coverage

Europe – S.Africa – Middle East

Payload

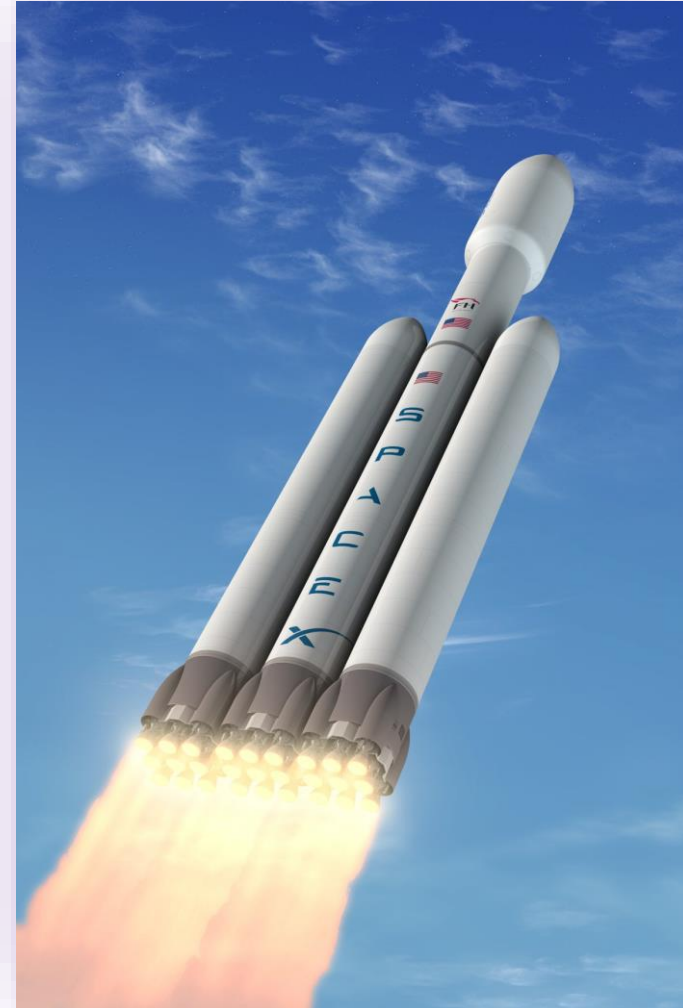
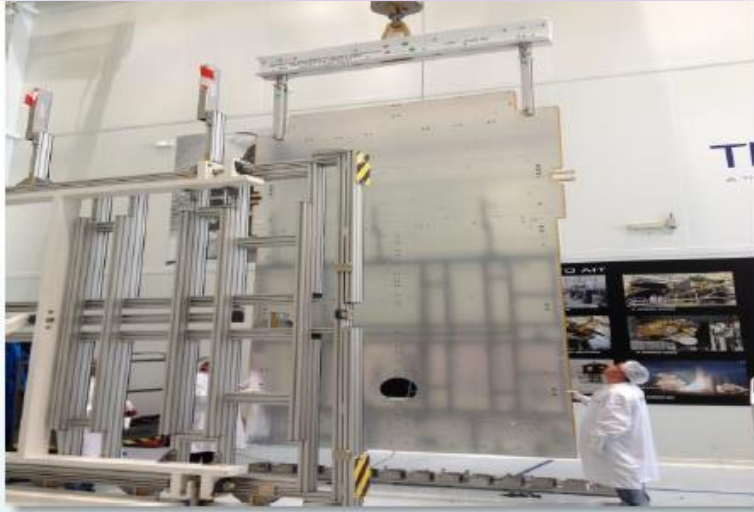
34 transponders

54 Ka Beams KACST/TAQANIA SPACE

Ο Δορυφόρος HS3/IS-Europasat



Ο Δορυφόρος HS3/IS-Europasat



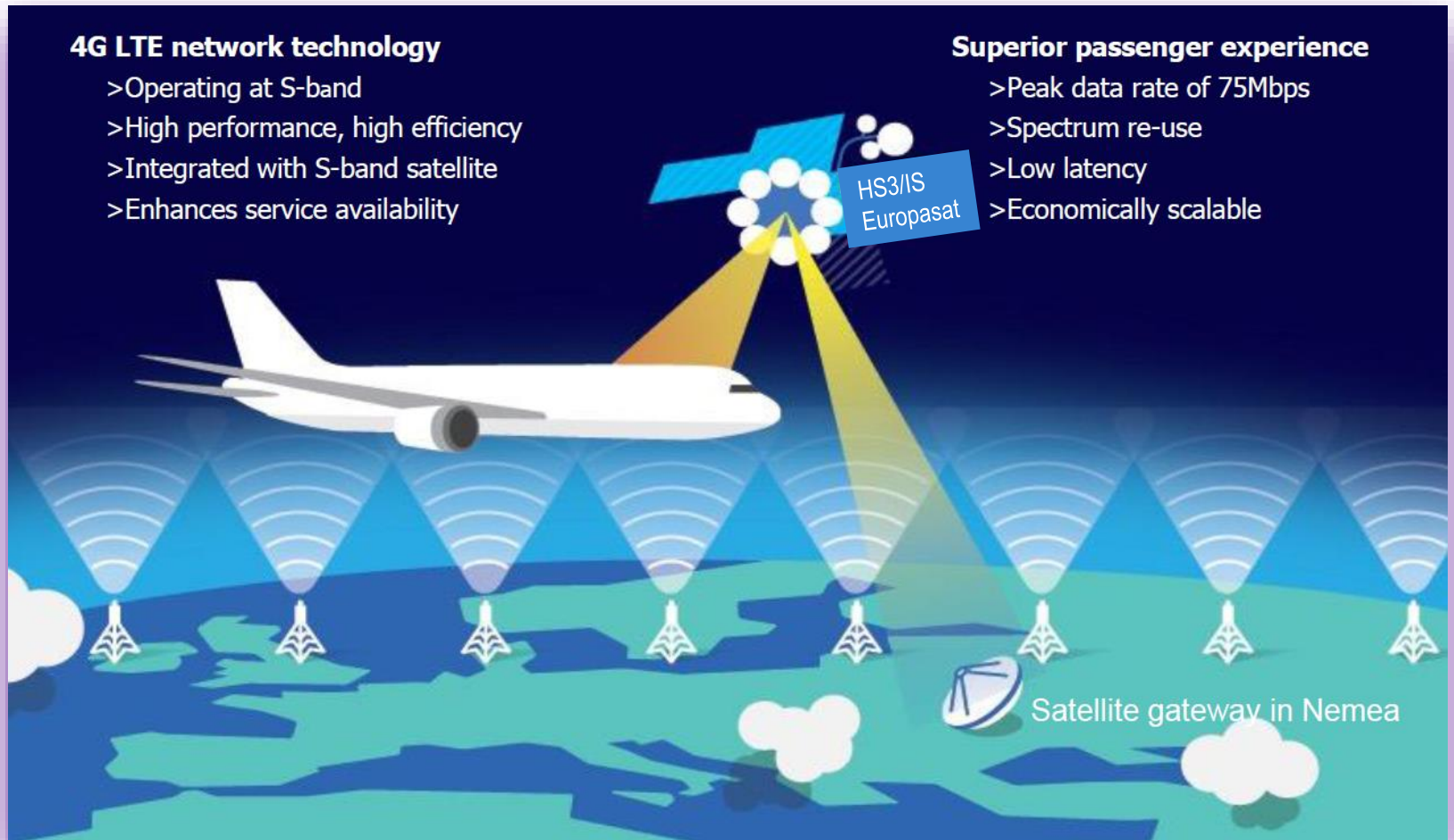
Ο Δορυφόρος HS3/IS-Europasat Inmarsat Payload

4G LTE network technology

- >Operating at S-band
- >High performance, high efficiency
- >Integrated with S-band satellite
- >Enhances service availability

Superior passenger experience

- >Peak data rate of 75Mbps
- >Spectrum re-use
- >Low latency
- >Economically scalable



Ο Δορυφόρος HS3/IS-Europasat Inmarsat Payload

Inmarsat's state-of-the-art and custom-designed S-band satellite, will provide multi-beam pan-European coverage

For onboard communication, the high-speed connection will be available via Wi-Fi

Over 50Gbps total network capacity

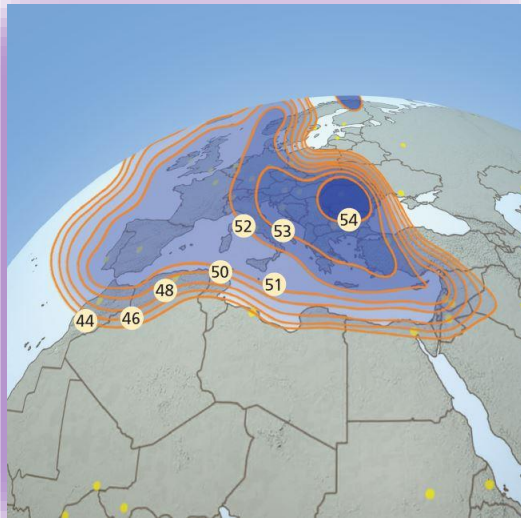
Deutsche Telekom's LTE-based ground network ensures the most efficient use of S-band satellite frequencies (2 x 15MHz)

Ο Δορυφόρος HS3/IS-Europasat Hellas Sat Payload

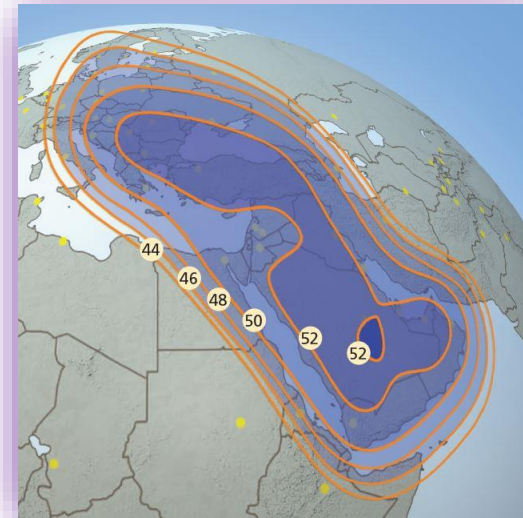


12 FSS

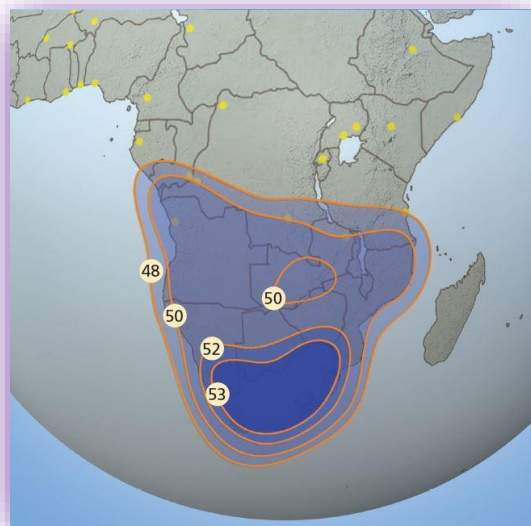
20 BSS



6 FSS



9 FSS



Ka

Ka to S Band

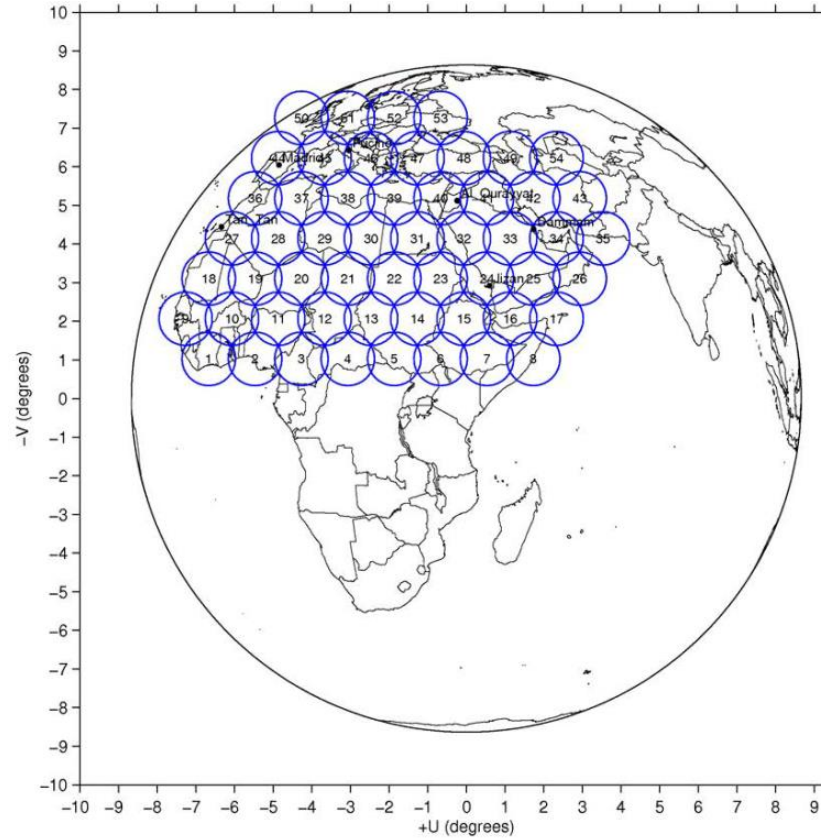
Ka to Fss
South Africa



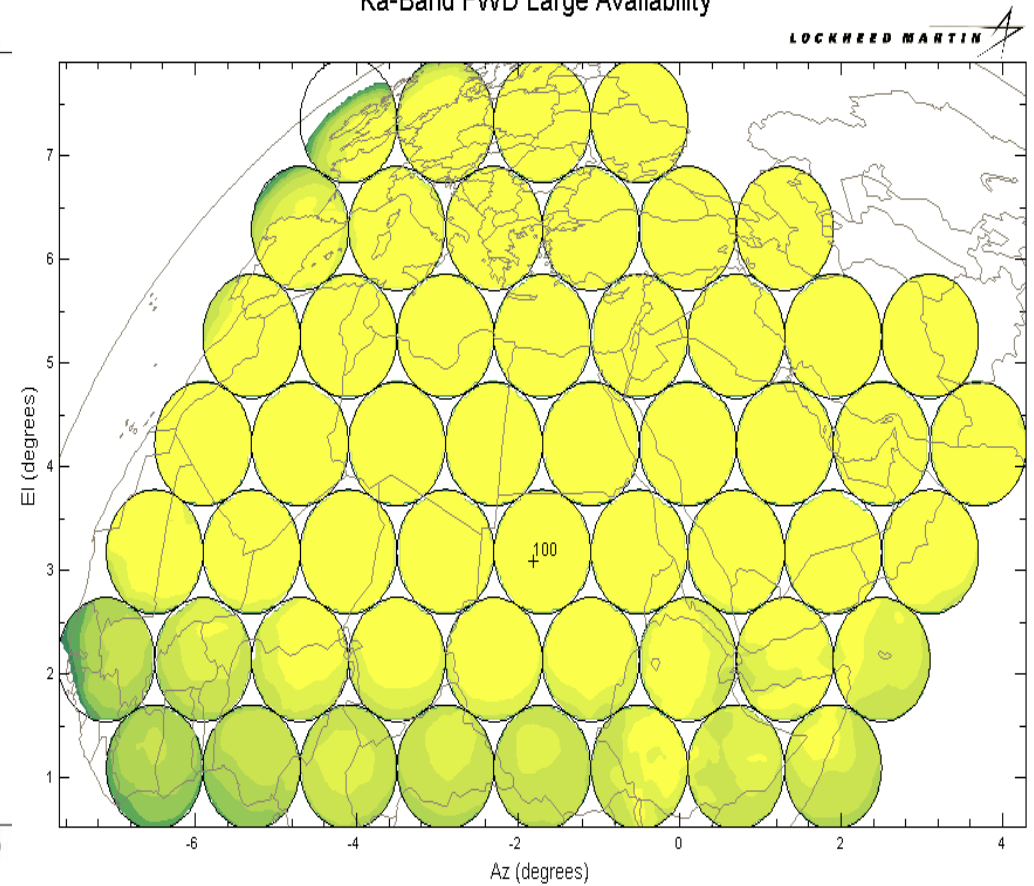
Ο Δορυφόρος HS4/SGS1



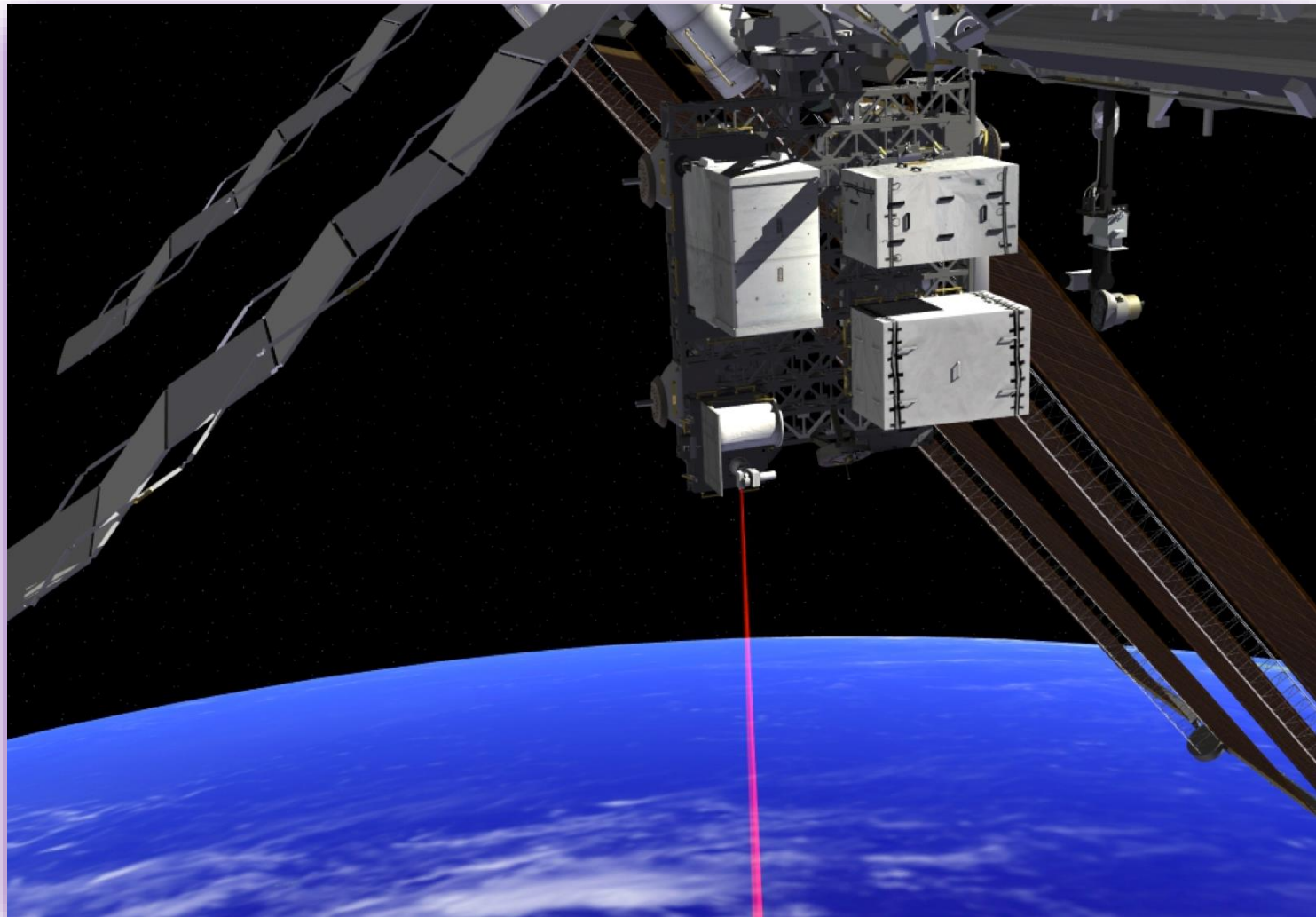
Ο Δορυφόρος HS4/SGS1 Κα Payload



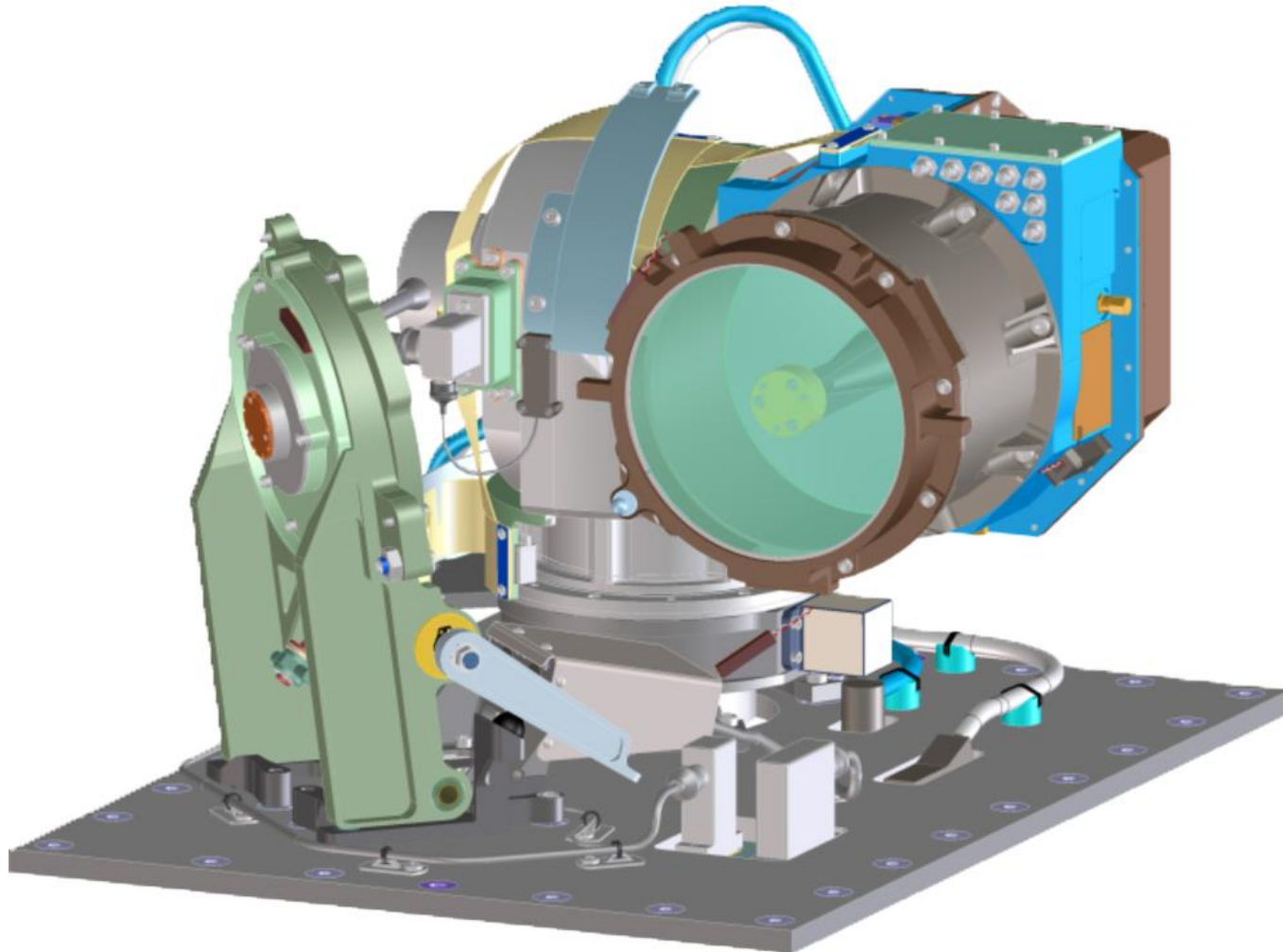
Ka-Band FWD Large Availability



Ο Δορυφόρος HS5 – The Future Q/V Spectrum and Optical Links



Ο Δορυφόρος HS5 – The Future Optical Links Tbps Technology



Satellite operations center



Hellas Sat operates 2 satellite operations centers (SOC) in Athens and Cyprus

The primary SOC in Athens is manned 24/7

A complete back up SOC facility located in Cyprus ready to take over satellite control in case of problem in prime SOC

Uplink facilities in Greece and Cyprus

Network operations center



Hellas Sat operates the Network operations center from its newly owned facilities in Athens

A new NOC facility to start operations by end of 2015 to monitor services the uplink of DTH platforms

Both NOCs are 24/7 and ensure the highest level of customers' support

Teleports



Hellas Sat owns 2 Teleports feature climate controlled co-location facilities where customers can safely and conveniently house their equipment and up-link facilities

Leveraging HS Teleport facilities customers can reduce their investment in earth station equipment while focusing on their core business of delivering services to their clients

Οι Συνεργάτες μας



Leading and Supporting Hellenic Companies to Space



Hellas Sat.
From the
heart of
Europe to the
rest of
your world.

Hellas Sat 2 @ 39° East



Coming soon!
Hellas Sat 3 & 4

Ευχαριστώ

Direct to Home
Satellite News Gathering
High Definition Television
Pay Per View
Free to Air
Pay TV
Interactive Service
Distance Learning
Video Conferencing
Tele Medicine
Internet Access
Internet Backbone Connectivity
Multicasting
Info-Kiosks
VoIP
VSAT Networks
DVB-RCS



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Our world. Your world.