SPACE SECURITY CONFERENCE
Jean-François Bureau – Director of Institutional & International Affairs
A LEADING GLOBAL SATELLITE COMPANY

- Over 30 years of satellite operations
- Fleet of 40 satellites; global coverage
- Continued investment: 5 further satellites to launch
- Operating >1,100 transponders
- Broadcasting >6,000 channels
- Revenues: €1.48bn
- Backlog of €5.9bn, representing 3.8 years of revenues

Data as of 31 December 2015, except revenues which are as of 30 June 2015
DIRECT-TO-USER AND HEADEND DELIVERY

IP backbone | Mobile backhaul | Corporate networks | Disaster relief | Maritime connectivity | In-flight broadband | Satellite Newsgathering | Play-out | TV headends | DTH, broadband | DTT
Unique range of C, Ku and Ka-band resources

DELIVERING GLOBAL COVERAGE
CLOSE TO OUR CUSTOMER BASE
THE SATELLITE VALUE CHAIN

Satellite manufacturers

Satellite launchers

Satellite operators

TV broadcasters, Telecoms, Governments

Consumers and businesses

End users
AT THE FOREFRONT OF INNOVATION

- **2004**: Launch on HOT BIRD of Europe’s **first** HD channel in MPEG-2 DVB-S
- **2010**: KA-SAT, Europe’s **first** High Throughput Satellite designed for broadband
- **2013**: Smart LNB **pioneering** connected TV services by satellite
- **2014**: Europe’s **first** demo Ultra HD channel HEVC encoded, 50 fps, 10-bit colour depth
- **2015**: EUTELSAT 115 WEST B, **first** all-electric commercial satellite
  - EUTELSAT QUANTUM, software-defined satellite **revolutionising** telecom markets
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EMERGING ISSUES: ORBITS MANAGEMENT

- **GEO Congestion: more than 450 satellites**
  
  - **Need for stable rules:**
    - To prevent interferences
    - To shape future satellites according to a future identified regulatory environment
    - To make the best use of the orbit and allow new actors (nations, operators) to join the space telecommunications domain
    - To anticipate new coming and challenging situations: end of life of satellites policies
  
  - **Preserve the benefit of the GEO solutions:**
    - For the end users: extending, diversified and secured services
    - For the operators: coverage and flexibility
    - For the governments: build more extensively upon the mix of state-owned assets and commercial assets
  
- **Secure stable and rational management of the different orbits: space as a common good**
  
  - To prevent interferences between the different signals coming from the different orbits
  - To extend the notion of «debris management» in accordance with the new developments
EMERGING ISSUES : STRENGTHEN SECURITY OF THE SERVICES

- Continuity and security are key to commercial operators:
  - Because it is key to the customers: satellite is not only the back up of the terrestrial infrastructure for the critical times; it is an infrastructure per se, and will be even more
  - Mobility is becoming the standard shaping the level of expectation from the end-users
  - IP and data transfers are unifying most of the satellite services: conventional differences between observation / navigation / telecommunications will increasingly be blurred. As a consequence, the security will be provided by the architecture of a system, not from a « one fits for all » solution

Only a systemic and holistic approach can ensure the expected level of security operators are looking for:

- Expected level of security will continue to increase (cybersecurity in space)
- Because space management will become more complex: more many assets in space; more many activities depending upon space assets; more many interrelated space-based assets and activities
As a Common Good, space will need a strengthened governance: prevention of interferences and collisions will no-longer be sufficient to set up a sustainable governance of the space activities.

The increased number of services provided by space assets will suggest a wider inclusive process to set up rules and practices.

Best practices definition and implementation has demonstrated an ability to prepare for future situations, decide for efficient solutions and guide future investment.

Commercial operators like Eutelsat will be very committed to contribute to such approaches.