

# SABER Thematic Network

## Workshop #6

### Panel 2 - Digital Divide and very high speed services: meeting the DAE 2020 objectives

September 2013



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# A dual challenge

**Technology: need to evolve ground, platform and payload technologies to reduce cost of bit-per-second while increasing throughput (competition outside Europe is already progressing)**

- By deploying hybrid ecosystems using Ka/Ku/C band satellites/payload for delivery of next generation converged broadband and broadcast services to consumers equipped with smart CPE devices across the EU
- By increasing performance at ground level (gateway and personal antennas levels): more efficient signal modulation, error corrections, filtering etc.
- By increasing the on-board payload performance and capacity and optimizing spectrum use
- By reducing the overall cost of the mission (satellite and launcher)

**Market: market environment and public frameworks must encourage operators investment**

➔ Need for European public support and accompanying measures on both fronts, as done outside Europe

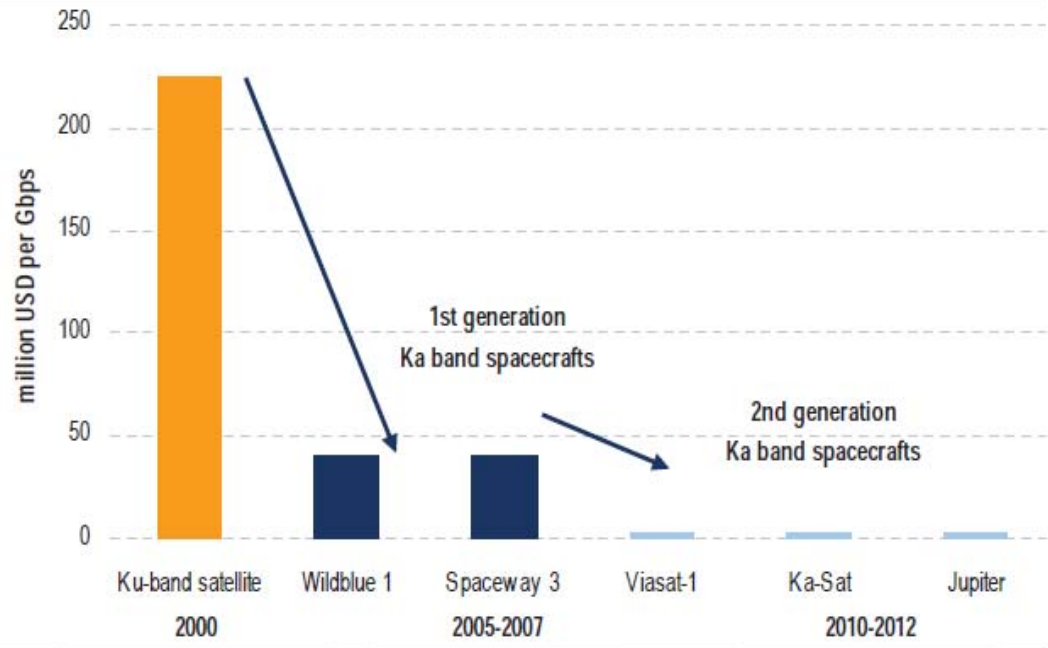
April 10th , 2014



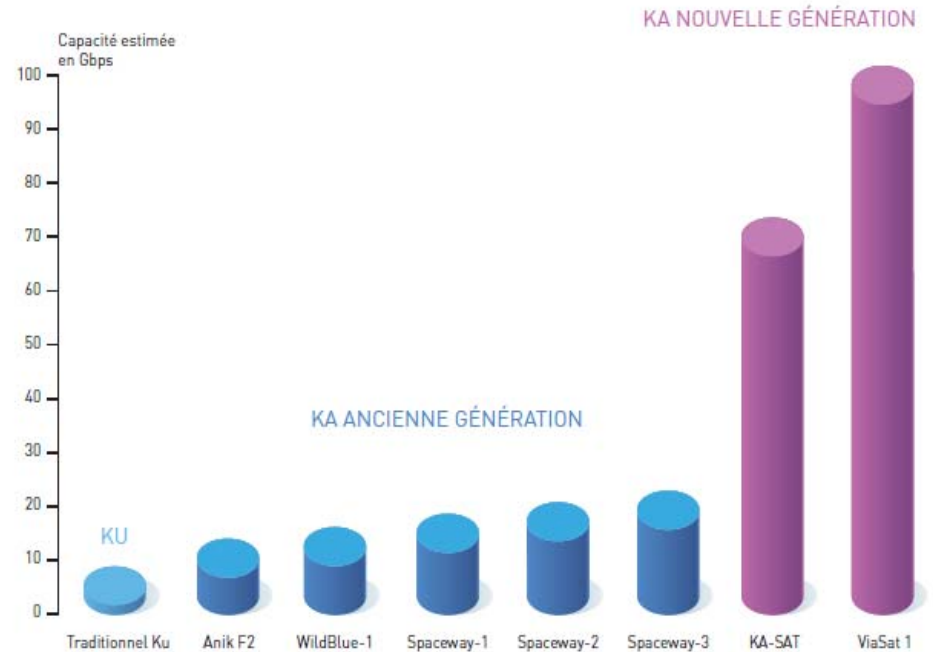
# The recent satellite broadband technology (r)evolution

Drastic performance evolution in the last years thanks to multi-beams payload and frequency re-use technique: High Throughput Satellites (HTS).

- Already 50 Mbps subscription offers towards professionals



Source: IDATE



**To meet the Digital Agenda 2020 objectives:** necessary to investigate next generation HTS systems providing a further order of magnitude improvement (Terabit/s satellite capacity) at viable economical conditions.



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