Thales Alenia Space to Build Iridium NEXT Constellation
We design, and build satellites and space systems for telecommunications, observation, navigation and exploration.

A Global Offer …
From One Equipment to Large Scale End-to-End Space Systems
Serving Customers Throughout the World

And now Iridium
Key Figures

• A joint company between Thales (67 %) and Finmeccanica (33 %)
• 7200 Employees
• 13 sites in 5 countries
• € 2 Billion Sales in 2009

Strong Industrial Base across Europe Commercial Presence Worldwide
Business Breakdowns (2009)

Breakdown per Customer Profile

- Defence: 21%
- Commercial: 39%
- Institutional: 40%

Breakdown per Activity

- Observation, Science, Navigation, Orbital Infrastructure Equipment: 49%
- Telecom: 51%

Well Balanced Business and Customer Portfolio
A committed partner to deliver cutting-edge solutions

A world player in each of the space markets

Telecommunications
- Fixed / Mobile
- Broadband
- Dual / Military
- Secured

Observation
- Climate Change
- Meteorology
- Oceanography
- Intelligence
- Surveillance

Navigation
- Localization
- Aeronautical Communications
- Data collect

Exploration/Science
- Planetology
- Fundamental physics
- Astronomy
- Human spaceflights
- Space transportation systems

Arabsat, APT, Chinasat, CNES, ASI, DGA, Eutelsat
Globalstar, Hispasat, Intelsat, Indosat, O3B, SES, Nilesat, Rascom, , Star One, Telenor, Türksat, Yahsat...

Meteosat/MSG, Jason, Calipso, COSMO-SkyMed, Sentinel 1&3, Envisat, ERS, GOCE, Helios, IASI, Pleiades, SPOT...

EGNOS, Galileo, MTSat...

Herschel, Planck, Exomars, Alma, Corot, Cassini-Huygens, Node 2&3, Columbus, Cupola, MPLM, Automated Transfer Vehicle (ATV), ...
A Forefront Position in Telecommunications

- A complete offer from system design to equipment
- Networking satellite solutions and satellite delivery services
- Flexible payloads for all missions in all frequency bands
- A high-performance Spacebus platform family, proven in orbit, for GEOs: more than 70 Spacebus already ordered
- A long track record in developments of partnerships with other manufacturers

Flight proven credibility for Constellations: Globalstar + O3b
And now: Iridium NEXT

Mastering Cutting-Edge Technologies to Deliver the First Class Solutions
For Iridium NEXT, Thales Alena Space delivers:

- Unrivaled expertise in smart payload design and satcom systems integration
- A proven track record in cost-effective, high-volume production of constellations
- A strong background in structured financing
- Long-standing experience in large-scale contracts requiring short lead-times and effective risk management
- Proven ability to work through international partnerships
- A major role by U.S. space industry (40%)
Iridium NEXT

Iridium NEXT constellation at a glance

66 active + 6 spare satellites in Low Earth Orbit

9 spare satellites on ground

Mass: 796 kg, Power: 2kW, Orbit: 780 km

On-board processing for telephony and call routing via satellite network

Full backward compatibility with Iridium Block 1

L-band active antenna (primary)

Intersatellite links

Based on Thales Alenia Space’s LEO platform

Flexible launches in batches of 4 to 12 satellites
See you in 2015 for the first launch