

Thales Alenia Space 2012

Orbits from 400, 20 000, 36 000 km and beyond

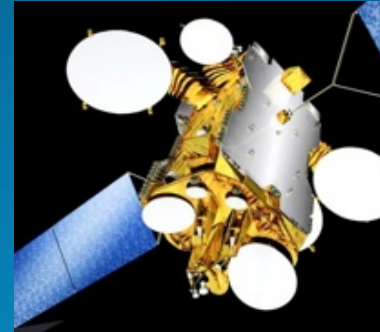
OBSERVATION



NAVIGATION



TELECOMS



SCIENCE



Space
in a few words

Contribution of satellites

- Global coverage & without limit
- Broadcast, multicast & points to points
- Strong Services, direct access
- Easy, fast to deploy
- In complement of other systems
- Right on time, low cost
- Cooperation Driving

An Answer to Political, Economical, Social, Technological & regulation needs:

- Public sector
- independence , sovereignty , security,
- ecology, security of citizens, employment

Private sector

- Innovations, technologies,
- competitiveness, development,
- standards, export

Dual Infrastructures and services



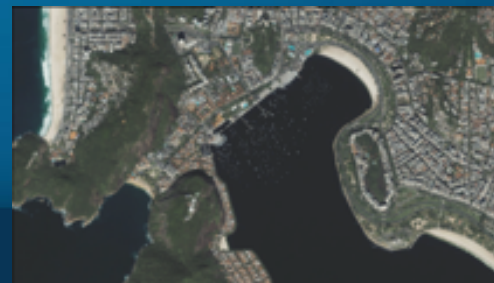
Telecoms, mobility
TV Broadcasting
Digital Radio

Prevention, Crisis
Management
Security Defense



Navigation
Localization

Meteorology
Environment



Observation

A Global Offer



We design, build and deliver end-to-end space systems for telecommunications, observation, navigation and exploration

A Global Offer from Equipment to End-to-End Space Systems

A joint venture between two leaders: A unique combination of expertise covering the full value chain

Thales: 67%
Finmeccanica: 33%



Finmeccanica: 67%
Thales: 33%



Equipments

Payloads

Satellites

Systems

Services

Key Figures

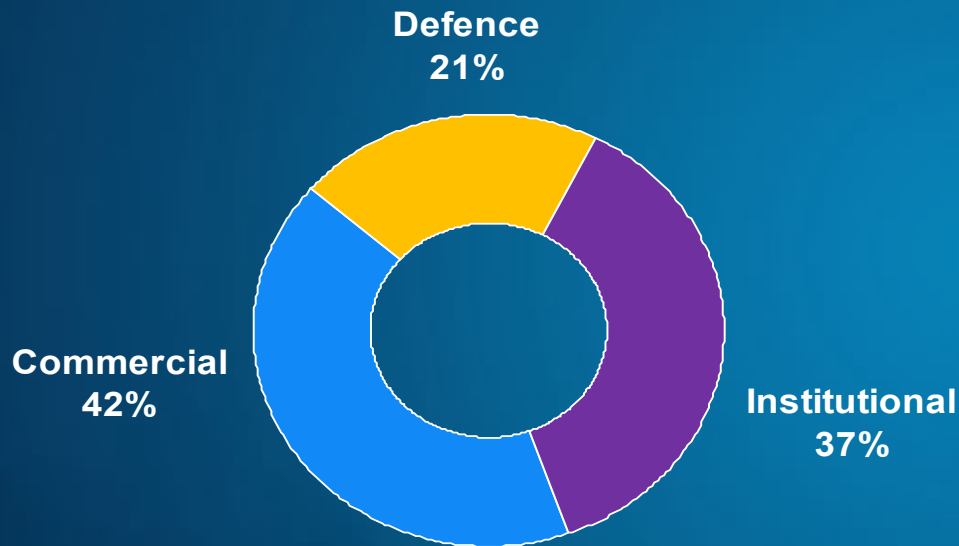
- 7500 Employees
- 10 sites in 5 countries
- 2 Bn€ Sales in 2011



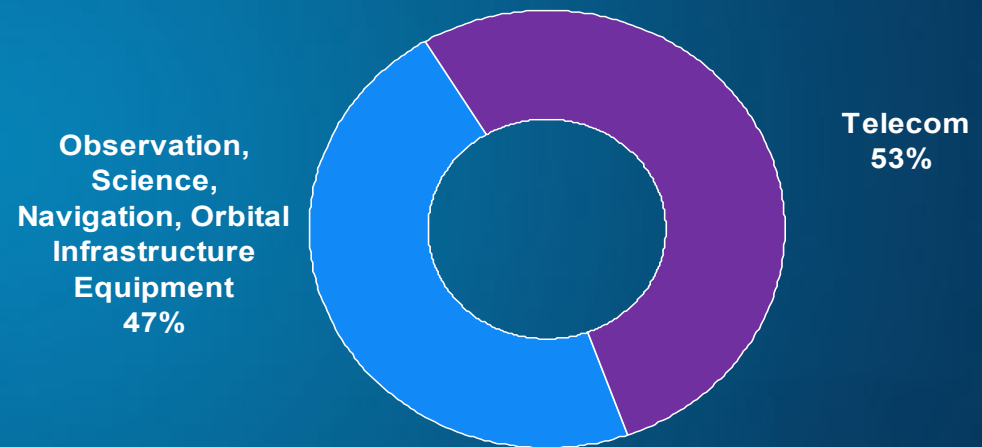
A Strong Industrial Presence in Europe
Commercial Representation in Multiple Countries

Business Breakdown 2011

Breakdown per customer profile



Breakdown per activities



A balanced Portfolio of Competence
Addressing a Large Customer Base

A committed partner to deliver cutting-edge solutions

Telecommunications



Fixed / Mobile
Broadband
Dual / Military
Secured

AMC 21, Amos 4/5, Arabsat , Arsat-1, Athena-Fidus, Ciel 2, EuropaSat, Express MD1/MD2, Globalstar , Hispasat , Iridium Next, Kazsat 2, Koreasat 6, Loutch 5/6, Nilesat 201, O3B, OverHorizon 1, Palapa-D1, RascomStar-Qaf 1R, Satcom BW 2a/2b, Sicral 1B, Sicral 2, Syracuse 1/2/3, Thor 6, Turksat 3A, W2A, W3B, W3C, W3D, W7, W6A, Yahsat 1A/1B, Yamal 401/402

Observation



Climate Change
Meteorology
Oceanography
Intelligence
Surveillance

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

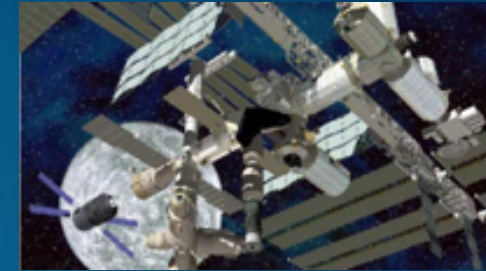
Navigation



Localization
Aeronautical Communications
Data collect

EGNOS, Galileo, MTSat...

Exploration/Science



Planetology
Fundamental physics
Astronomy
Human spaceflights
Space transportation systems

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

A world player in each of the space markets

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
- A long track record in developments of partnerships with other manufacturers
- Flight proven credibility for Constellations : Globalstar 1st & Second Generation + O3b
- Prime for Iridium Next, the world's biggest low-earth orbit satellite constellation

Mastering cutting-edge technologies
to deliver first class solutions

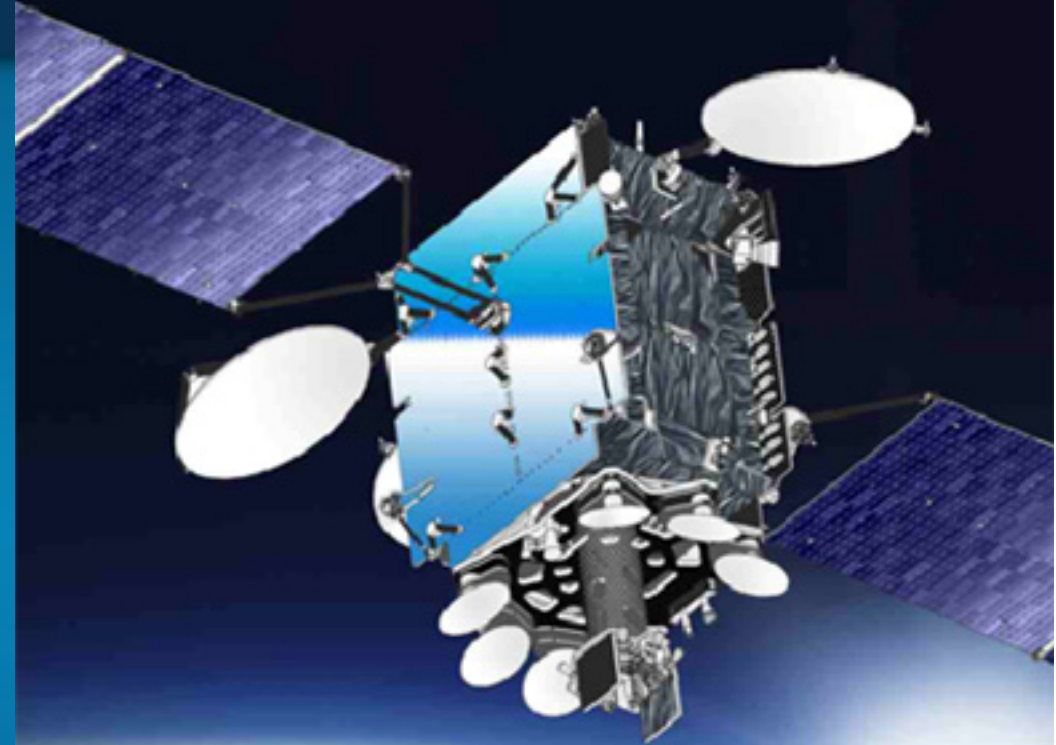


Space-based defense systems

**Thales Alenia Space is experienced
in all fields of military space**

- Athena-Fidus and Sicral 2
- Outsourcing of the Syracuse system
- 2nd generation of Cosmo-Skymed
- Helios / CSO MUSIS intelligence system.
- CERES electronic intelligence
- Spirale Follow-On for early warning.

**Ready to serve the new needs
of Europe and their Allies**



Shaping Navigation Systems in Europe

LOCALIZATION

Galileo

- End-to-end system design and integration leader
- Ground Mission Segment prime

Prime of EGNOS, the cornerstone of Galileo

- Satellite based augmentation system
- Aeronautical Positioning Integrity service opening in 2009
- Mobile telecom. operators location server

AERONAUTICAL COMMUNICATIONS

- Air traffic Management

POSITIONING DATA COLLECT

- Maritime cooperative surveillance (AIS)
- Argos

Linking technology
to markets



Climate Change Monitoring

- More than 35 years of expertise
- Contribution to almost every European climate-related mission
- Partner for worldwide agencies: ESA, Eumetsat, CNES, ASI, NASA, NOAA, JAXA, CSA, KARI.
- World leadership in operational oceanography based on Poseidon radar-altimeters success
- At the heart of GMES (Sentinel 1 and 3 series)
- Prime contractor for meteorological satellites since more than 30 years: Meteosat, MSG, MTG.

Key player in the Observation of the Earth's Climate & Environment based on Optical and Radar Top of Class Capabilities



Understanding and Exploring the Universe

Contribution to major European Exploration missions

- Huygens prime, Rosetta, Mars & Venus Express
- Prime contractor for Herschel & Planck
- Prime Contractor for ExoMars : European Premiere in landing/search for life on Mars
- Prime Contractor for ESA atmospheric re-entry technology demonstrator and ESA experimental vehicle
- Strong position in enabling technologies for human and robotic exploration

Key European Partner for International Cooperation



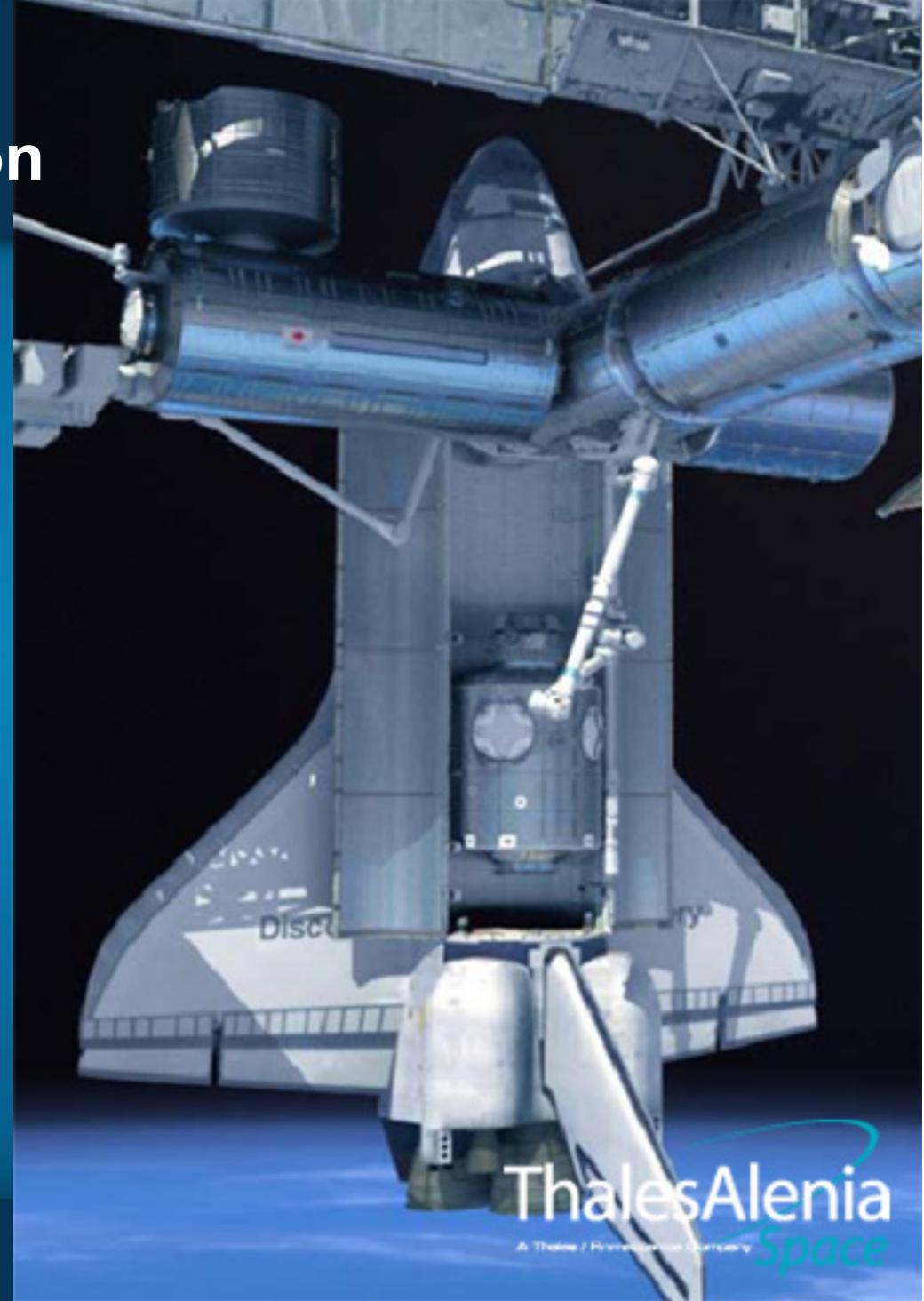
International Space Station

TODAY

- The largest industrial provider after Boeing
- 50 % of the pressurized volume of the ISS
- ESA's ATV cargo + COTS program

TOMORROW

- Extension of the ISS activities to 2020 and beyond
 - Ready to provide more ATV and more Cygnus
 - IXV expertise to develop a Cargo Return Vehicle



Serving Customers Throughout the World

Globalstar
Intelsat
Iridium
JPL
NASA
O3b
OverHorizon
SES Americom
Sirius Radio
XM Satellite
Radio
Worldspace

Nahuelsat
Star One

Asecna
Globacom
Rascom
Vodacom

ASI
CNES
French MoD
DLR
ESA
Eumetsat
European commission
Eutelsat

France Telecom
Italian MoD
Hispasat
Inmarsat
SES
Telenor
Turksat

Gascom
JSC "ISS"
Krunitchev
RSCC
RKK Energia
Gazprom

Mitsubishi
NEC/Toshiba
APT
ADD
CASC/CAST
Chinasat
Indosat
KT
ShinSat
Sinosat
Telkom

Arabsat
IAI
Nilesat
Spacecom
Yahsat

ISRO

APPENDIX

Launches 2011/ 2012

2011

TELECOMMUNICATIONS

- W3C
- Yahsat 1A
- Globalstar 2
(3 batches of 6 satellites)
- Arabsat 5 C
- Kazsat 2
- Loutch 5A
- Express MD2
- Amos 5

OBSERVATION / SCIENCE / NAVIGATION

- Pleiades-1
- Saral
- Sadko
- Galileo IOV (FM1&FM2)

INFRASTRUCTURE

- ATV2 Kepler
- PMM
- STS134

Expected in 2012

TELECOMMUNICATIONS

- Apstar 7
- Yahsat 1B
- Telkom 3/Express MD2
- Globalstar 4th batch
- Yamal 402
- W6A
- Amos 4
- Loutch 5B
- Apstar 7B

OBSERVATION / SCIENCE / NAVIGATION

- METOP B
- Kompsat 5
- SARAL/Altika
- MSG3
- GEOIK2/Sadko

INFRASTRUCTURE

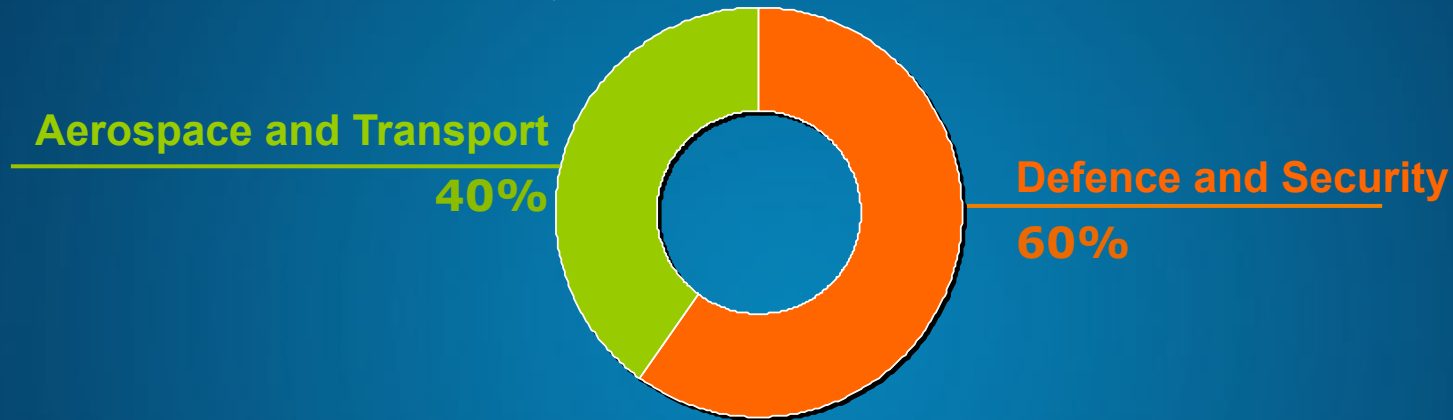
- ATV3
- Cygnus



ThalesAlenia
Space
A Thales / Finmeccanica Company

Our Shareholder Profiles - THALES

A global company with 67,000 employees and €13,2 billion in revenues in 2011



Defence & Security

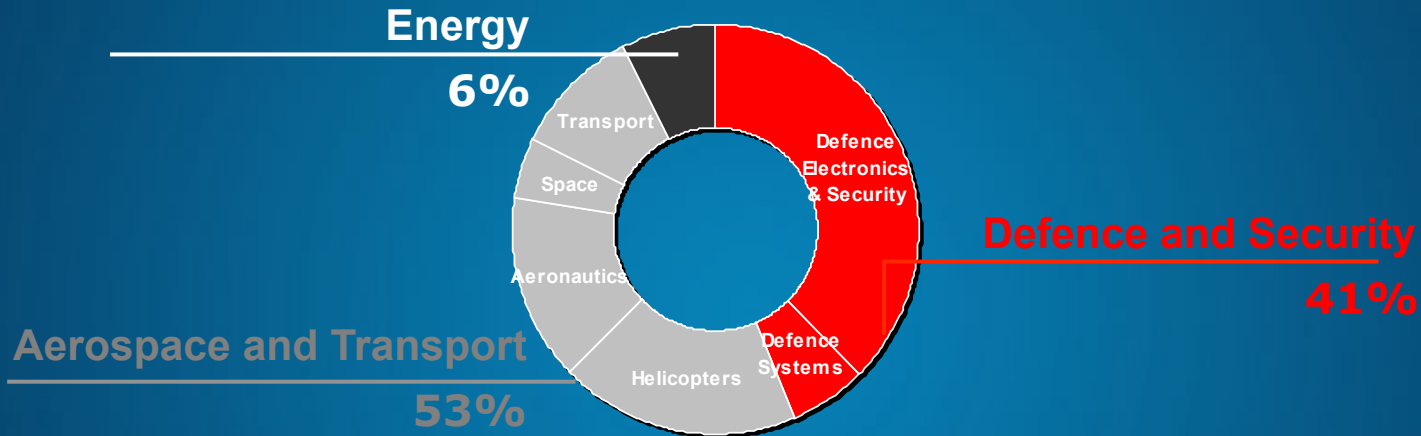


Aerospace & Transport



Our Shareholder Profiles - FINMECCANICA

A global company with 70,000 employees and €17.3 billion in revenues in 2011



Defence Electronics & Systems		Defence Systems	Helicopters	Aeronautics	Space	Transport	Energy	
 E-Scan Radar  MAESA  DIRCM  SDR	 PMR / Public Safety  Cyber Security Services	 Plate Reader and Surveillance  Automation	 UAV  Guided Weapon  Heavy Torpedo	 Tilt rotor  Light Twin  Fly-by-wire	 Advanced Training  Tactical Transport Special Mission	 Earth Observation  Connectivity	 Urban Transport  High Speed	 Green Efficiency and Flexibility