

THALES ALENIA SPACE

LATVIA-ITALIA COOPERATION WEBINAR

SATELLITE SYSTEMS AND THEIR USE FOR EARTH OBSERVATION

MAY 31TH, 2021



FROM EARTH TO DEEP SPACE...

36000 KM

8000 KM

800 KM

700 KM

400 KM

Date: 30/06/2021

Ref: LATVIA-ITALIA WORKSHOP

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PROPRIETARY INFORMATION
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THALES ALENIA SPACE OPEN

ThalesAlenia
Space
a Thales / Leonardo company

A JV BETWEEN 2 LEADERS

JOINT VENTURE

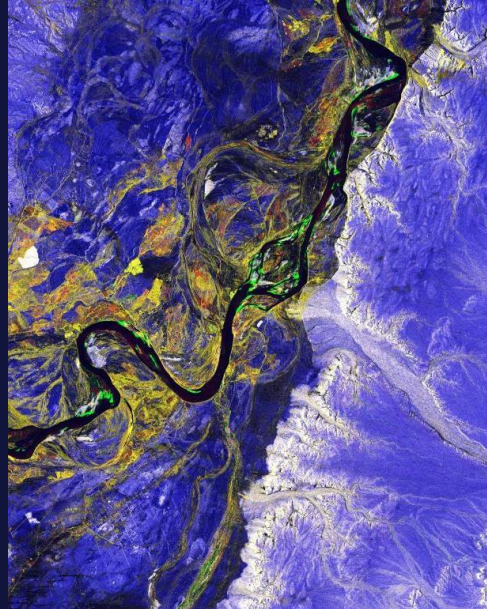
ThalesAlenia
a Thales / Leonardo company **Space**

THALES (67%)
LEONARDO (33%)



Thales Alenia Space teams up with Telespazio to offer a unique combination of expertise covering the entire value chain

System & Services



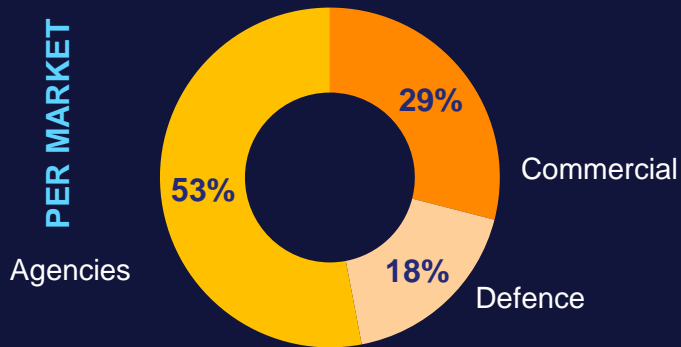
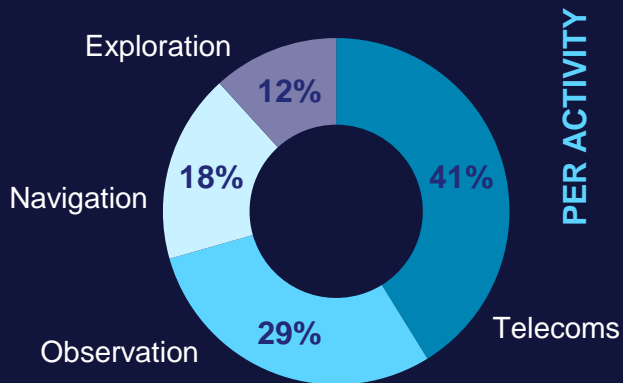
AT A GLANCE

2,15
BN € SALES

7,700
EMPLOYEES

17 SITES
WORLDWIDE

BUSINESS BREAKDOWN



THALES ALENIA SPACE IN ITALY

ITALIAN SITES SNAPSHOT

/// OUR « HUMAN CAPITAL »

2.200 Employees in Italy



TURIN



ROME



MILAN



L'AQUILA



SEATTLE
(Leostella TCC)



BELFAST
BRISTOL
HARWELL
LEUVEN
HASSELT
WARSAW
STUTTGART
CHARLEROI
ZURICH
TOULOUSE
GORGONZOLA
CANNES
TURIN
L'AQUILA
ROME
MADRID



OUR CUSTOMERS



SPACE AGENCIES



COMMERCIAL OPERATORS



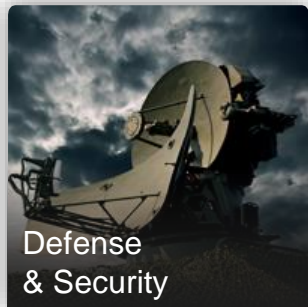
INSTITUTIONS AND DEFENSE



EARTH OBSERVATION



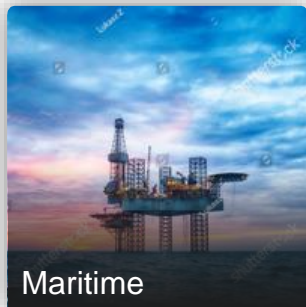
A WIDE RANGE APPLICATIONS ADDRESSED BY TAS SOLUTIONS



Change Detection

Border Surveillance

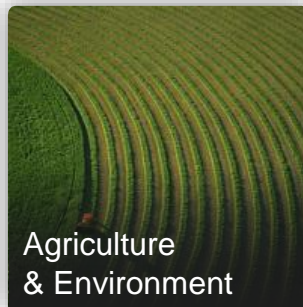
Target Recognition & Identification



Vessel Monitoring

Oil & Gas

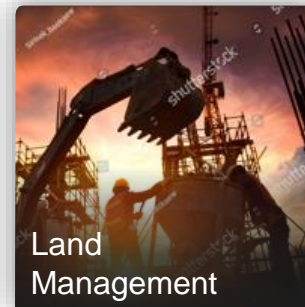
Sea Protection



Agriculture

Forestry

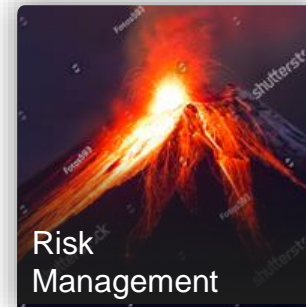
Water management



Cartography

Demography

Soil



Earthquakes

Floodings

Volcanos

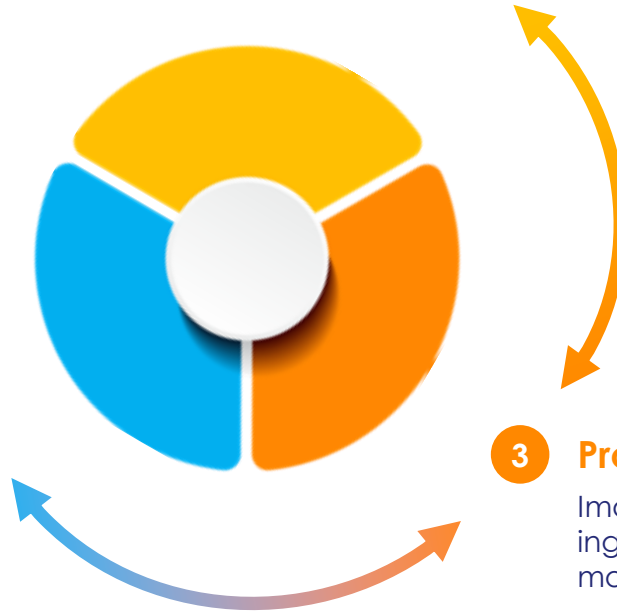
A CONCEPT OF OPERATIONS BASED ON CORRELATED ACQUISITIONS

1 High Revisit

Systematic Monitoring and Change Detection, Early warning & activation of asset 2

2 High Resolution

Build-up Reference layer, Recognition, Identification, Classification. Frequently triggered by the High Revisit System

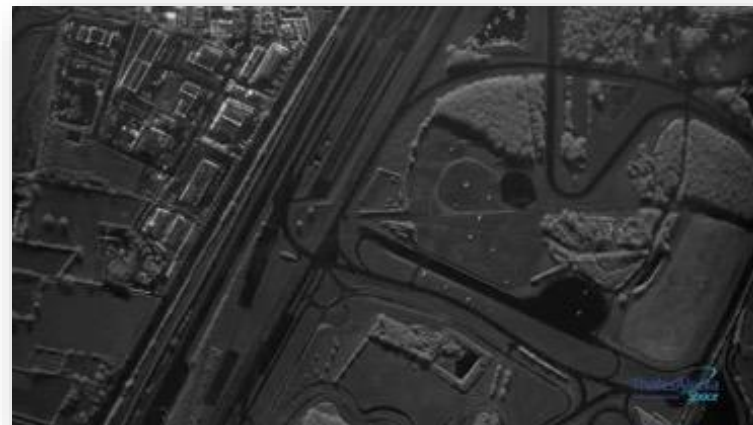
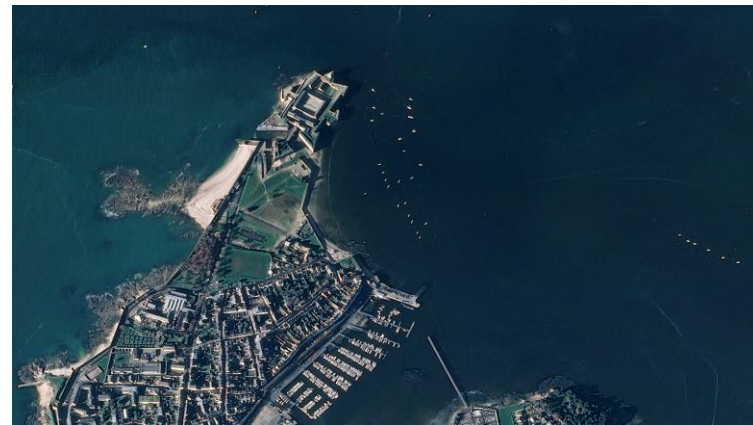


3 Processing & Analytics

Imagery, alerts, production of IMINT, ingestion of data from other sensors (RF monitoring, AIS, etc.)

THALES ALENIA SPACE: AN OUTSTANDING EXPERIENCE IN EARTH OBSERVATION SYSTEMS

- A Worldwide key player for state-of-the-art observation solutions for civilian and defense users
- Sole supplier of European Defense Optical and SAR Systems
- Supplier of advanced systems for the international Defense market (e.g. Morocco, UAE, Korea)
- Wide portfolio of products

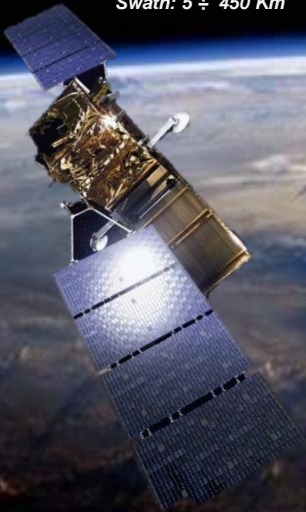


OUR PRODUCT PORFOLIO - SAR

Portfolios conceived for an increasingly demanding market

HP-R – High Performance

Resolution: Sub-meter ÷ 30 m
Swath: 5 ÷ 450 Km



HE-R1000 High Efficiency

Resolution: Sub-meter ÷ 15 m
Swath: 5 ÷ 60 Km



HR-R– High Revisit Radar

Resolution: <1 m ÷ 10 m
Swath: > 3 ÷ 30 Km

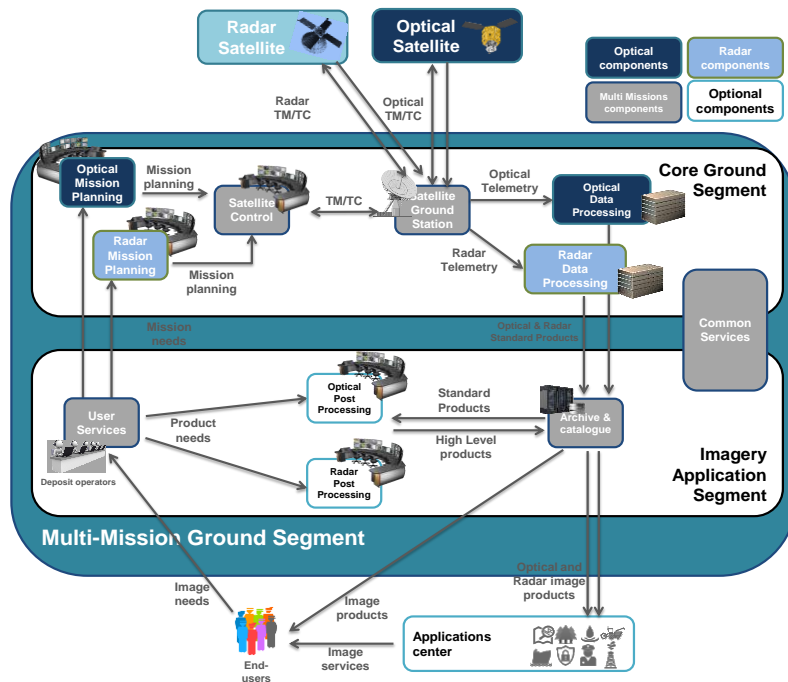


PROCESSING & ANALYTICS

Imagery, alerts, production of IMINT, ingestion of data from other sources,

Multi-Mission Advanced Ground Segment

- Compatible with different sensors
- Cyber-secure, Cloud-based
- Compatible with Big-data & machine learning IMINT tools
- Highly automated to minimize manned operations
- Single archive / catalogue
- System optimized to Customer needs



THANK YOU

