Helping our customers master every decisive moment

Thales Spain
Overview

Over 81,000 employees

68 Countries Global presence

1 bn € Self-funded R&D*
* Does not include externally financed R&D

Sales in 2020 17 bn €
Our Customers’ Big Ambitions Make the World Go Round

GOVERNMENTS

INSTITUTIONS

CITIES

COMPANIES
From the Bottom of the Oceans… to the Depths of Space & Cyberspace

Digital Identity and Security

Ground Transportation

Defence and Security

Space

Aerospace
Thales’s Mission

Sensing & data gathering

Data transmission & storage

Data processing & decision making

We help customers master decisive moments by providing the right information at the right moment

Digital Identity and Security

Defence and Security

Aerospace

Space

Ground Transportation
Key Digital Technologies

- Connectivity
- Big Data
- Artificial Intelligence
- Cybersecurity

Over €7bn invested in digital for the last 5 years
Thales in Spain – Overview

Turnover in 2020

268 m €

Approx. 1,500 employees

Work sites:

11 in Spain
1 in Turkey
1 in Egypt

Thales Spain companies

Thales Ulaşım
- Turkey
- 51% Thales Spain GRP, SAU
- Established in 2009
- Railway activity in Turkey since 2002

Thales Programas de Electrónica y Comunicaciones
- Former Amper Programas established in 1989
- 100% in 2015 after acquiring 51% to Amper Group
- Specialized in Communications, Command and Control Systems & Electronic Equipment for Defense

Digital Identity & Security
- Digital security company.
- Former Gemalto, acquired by Thales in 2019.

Thales Joint Ventures

(*) TAS 100%

- Digital security company.
- Former Gemalto, acquired by Thales in 2019.

Export 37%
Domestic 63%
Defence 3%
Transport 59%
Dish 10%
Space 28%

Thales Alenia Space
- 67% Thales – 33% Leonardo
- Revenues: 75.6 M€ in 2020

SAES
- Acquisition of 49% in 1992 by TUS
- Rest 51% Navantia and Indra
- Specialized in underwater battlespace electronic equipment

Domestic 63%
Export 37%
Transport 59%
Dish 10%
Space 28%

Thales Sistemas de Seguridad
- Security company
- Established in 2010 to comply with legal requirements

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(*) TAS 100%
Digital Identity and Security: Bringing Trust and Confidence to the Connected World

- Digital identity management
- Secure identity documents
- Identity verification
- Biometrics
- Physical and digital payment credentials
- Digital banking security
- Mobile and IoT security and connectivity
- Multi-modal authentication
- Data encryption
- Cloud security
- Software license protection

3,000+ financial institutions rely on us to protect their payment and banking services

100+ eSIM deployments with mobile operators and OEMs worldwide

200+ government programs deployed for civil identity, biometrics and law enforcement

$1 trillion interbank fund transfers per day protected with our data encryption platforms.

11.5 year contract to produce the new UK ePassport

Managing identities and protecting data for Billions of people and things every day.
Protecting the entire digital service cycle – whatever the sector

Authentication
- Digital Ids:
  - Personalized smartcards
  - Token issuance
  - Biometric registries
- Multimodal authentication (risk, token, biometric)
- AFIS, Live facial recognition
- Active protection

Identity verification

Data encryption
- Key management
- DP on demand
- HSM, HSE
- Software monetization

Cryptographic account deletion

Digital Ids:
- Personalized smartcards
- Token issuance
- Biometric registries

Thales
Building a future we can all trust
Serving six main markets – but present in many more

- Banking & Payment
- Enterprise Security
- Government
- Mobile
- Internet of Things
- Software Monetization

**DIS Spain**

14 Reference in borders worldwide
+ Document readers in more than 60 borders and visa management projects
Defence and Security: Protecting and Preserving Security at the Highest Level

- State protection
- City and Critical infrastructures protection
- Critical information systems and cybersecurity
- Connected collaborative combat
- Communications, command & control systems
- Mission services and support
- Protection and mission / combat systems
- Surveillance, detection and intelligence systems
- Big Data powered Intelligence, Electronic Warfare and Cyberdefense systems
- Smart sensors
- Training & Simulation

Over 50 countries protect their populations and territories with Thales defence systems.

More than 800,000 Thales tactical radios are in service in over 50 countries. + than 15,000 in Spain

Thales systems and equipment represent almost 25% of the total value of the Rafale combat aircraft.

340m people travel each year via airports secured by Thales.

Mexico City: the most advanced urban security project in the world. Crime rates have been reduced by 56% in the last 10 years.

Cybersecurity solutions for 9 of the top 10 internet giants.
Aerospace: Make Flying Safer, Easier and More Efficient

1bn passengers use Thales in-flight entertainment systems every day.

Over 160 Air Traffic Management control centers around the world are equipped by Thales. Between them, they cover more than 40% of global airspace.

60% of air traffic in China is managed by Thales solutions.

2 out of 3 aircraft in the world take off and land using Thales equipment.

Training & simulation for civil and military helicopters and aircraft.

- Air traffic management
- Training and simulation
- Nose-to-tail aircraft connectivity
- In-flight services
Defence & Aerospace references Spain

Command and Control
- Spanish Army command: SIMACET.
- Battlefield management system: BMS ET.
- Military messaging: SIMENFAS.
- Switzerland: FIS-He (bases and vehicles).
- France and NATO: MIP Gateway.

Avionics
- Display Keyboard Unit for NH-90
- Radio Nextwave for NH-90
- Helmet Display Scorpion for F18
- FAL support A-400M and MRTT

Tactical Communication
- VHF Combat Radios PR4G.
- HF Radios TRC 3600 y 3700.
- Basic Area Network (RBA).
- Mercurio vehicle node and PCBon.
- RETUME: León and Mérida vehicles (UME)

Radio Aids and surveillance systems for Air Navigation.
- > 60% of the radio aids in Spain.
  - VHF Omnidirectional Range: VOR.
  - Multilateration: Málaga.
  - Maintenance ATM-Datalink.

Ground Surveillance Systems
- Gecko family:
  - Army: RG-31 route clearance.
  - Guardia Civil: Mobile Thermal Unit.
  - Guardia Civil: Fixes stations.
  - Asia: Counter UAS system.
  - Horus: Base protection in Africa.

TACAN System
In the air bases of Zaragoza, Talavera la Real, Albacete and Torrejón de Ardoz of the Spanish Air Forces.
Space: Capitalise our Planet’s and Solar System’s Resources

- Telecommunications
- Earth observation
- Science and space exploration
- Navigation
- Orbital infrastructure
- Space transport

All telecom constellations operating today were built by Thales Alenia Space.

Thales Alenia Space has built all the European Meteosat satellites to date, and is driving ambitious programmes dedicated to climate change, environmental monitoring and planet protection.

Central role in civil and military programmes worldwide, through Thales Alenia Space.

Thales Alenia Space is prime contractor for ExoMars, Europe’s first mission to land on Mars.

Thales Alenia Space has supplied 50% of the International Space Station.

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ThalesAleniaSpace.com
Space: Spain

Telecommunications
405 satellites
197 GEO
SPAINSAT NG I y II
SES 17
BANGABANDHU
INMARSAT GX
STAR
ONE
...
4 LEO constellations
ISIDIUM NEXT
GLOBASTAR 1 & 2
O3B

Earth observation
120 satellites
90 LEO
SENTINEL 1, 2, 3, 5, 6
METOP-SG
CAS-500, KOMPSAT 7
SWOT
...
13 GEO
GEO-KOMPSAT 2
MTG, MSG
COMS 1

Science & exploration
35 satellites and probes
(LEO, Near Earth, deep space)
EUCLID
EXOMARS
KPLO
GLXP
PROBA 3
ICON
SOLAR ORBITER
BEPICOLOMBO
GAIA
HERSCHEL, PLANCK
...

Orbit infrastructure
15 space vehicles
(LEO)
ISS
ATV
HTV
CYGNUS

Navigation
15 satellites (M, GEO)
GALILEO
QUASIZENITH
MISAT

565 satellites
420 in orbit
Transportation: Connected Journeys to Transport People and Goods Safely and Efficiently

- **Signalling**
- **Communications**
- **Fare collection**
- **Cybersecurity**

8bn passengers a year benefit from Thales technologies.

In Switzerland, the world’s longest rail tunnel — 57 km — uses Thales signalling systems, making it possible to run trains at up to 250km/h.

The 75 km Dubai metro system — one of the longest driverless metro in the world — is equipped with a complete solution supplied by Thales.

In London, Thales is providing new signalling for 4 lines which make up 40% of the global network.

Over 70% of Spain’s high-speed network — the largest high-speed network in the world — is equipped with systems supplied by Thales.
Transporte Terrestre: Red de Alta Velocidad Española

More than 2,800km of high speed line
- 1,200km equipped with ETCS system
- 645km equipped with LZB system
- 1,200km equipped with Electronic Interlockings
- 470km CTC controlled line
- 1,980km telecommunication systems

- Other systems provided for the high speed railway network:
  - Video surveillance and access control equipment systems.
  - Auxiliary detection equipment.
  - Maintenance central.
  - Axle counter.
  - Electrohydraulic point machines.

- On-board equipment:
  - LZB on-board equipment for 18 trains S-100 and 20 high speed locomotives, 13 S-104 trains, 16 S-122 trains, 29 S-121 trains, 46 S-102 trains and 26 S-103 trains.

- Maintenance:
  - 1,900 km in 8 contracts
  - 50M€/year.
Ground Transportation references: export references Spain

Turkey
- HSL Ankara - Istanbul
  - Phase I:
    - 236 km double track
    - ETCS Level 1
    - In service since March 2009
  - Phase II:
    - 158 km double track
    - ETCS Level 1
  - Phase IV:
    - 24 km
    - ETCS Level 1
- Cuomavasi Commuter line
- Eskisehir Station
- BaskentRay: Sincan-Kayas
  - 36 km
  - ETCS Level 1 and Level 2
- OCC Ankara
- Maintenance Ankara-Istanbul

Australia
- North West Railway Line (ICS)

Senegal
- Dakar airport railway link.

Greece
- Kiato-Robedefni line

Argelia
- Rocade Nord
- 440 km double via ETCS

Egypt
- Cairo – Alejandria line modernization
  - 160 km
- Extension of Cairo-Alexandria project to Cairo-Benha
- Assyut- Nag Hammadi

Morocco
- CTC Nouaceur – Jorf Lasfar line
- Nigeria
- Ajaokuta-Warri railway modernization
  - 328 km ETCS Nivel 2
- Malasya
- CTC Monorail Kuala Lumpur

Mexico
- Ferrocarril Suburbano de México
  - System I: Cuautitlán-Buenavista
    - 27 km (double track)
    - ETCS Level 1
    - In service since 2008
  - Suburban railway México-Toluca
    - ETCS Level 2

Thales
Building a future we can trust
Thales: A Research and Development Powerhouse

Albert Fert
Scientific director of the CNRS/Thales joint physics unit and winner of the 2007 Nobel prize in physics.


Expertise in a uniquely broad range of technical domains, from science to systems, applied across businesses.

An extensive intellectual property portfolio of 20,500 patents.
Corporate Responsibility: A strategic Choice, Key to Business Performance

Embedded in every business process and day to day work

- Code of Ethics and dedicated organisation.
- Robust policies and internal control.
- Focus on employee training, awareness and ownership.

- Group-wide environmental, social and governance programmes.
- Promoting responsible dialogue with all stakeholders.

- Driving industry-wide initiatives (corruption prevention, best practices).

Member of Global Compact since 2003. Thales has achieved Global Compact Advanced level.

Carbon Disclosure Project. Thales ranked CDP A -

Thales has been ranked nº1 in the Defense/Aerospace sector by the Dow Jones Sustainability Indices (DJSI) Europe and World.
Supporting Diversity and Inclusion Everywhere

Concrete targets for gender equality:
- Women accounted for 32% of new hires in 2018
- 49% of management committees included at least 3 women in 2018

Actively Contributing to the Fight Against Global Warming

- 16% reduction in carbon intensity over the last 3 years
- Commitment to reduce the carbon footprint of our activities and those due to our products and provide innovative and eco-responsible functions and services that enable our customers to reduce their own
- Emissions reduction targets consistent with the 2°C trajectory of the Paris agreement: reduction of direct emissions from operations by 40% and indirect emissions by 15% in 2030

Building Resilient Infrastructure, Promoting Sustainable Industrialisation and Fostering Innovation

- Extremely ambitious R&D policy based on local partnerships (Universities, research institutes, start-ups, etc.)
- €879 million invested in R&D and 350 patents filed in 2018
- 11.2% reduction in energy intensity (TOE/k€) between 2016 and 2018
Thales: Engagement and Accountability

Promoting Just, Peaceful and Inclusive Societies and Institutions
Thales’s solutions and partnership ethos support governments, international organisations and companies in the fight against terrorism, crime and corruption.

Promoting Inclusive and Sustainable Economic Growth, Employment and Decent Work for All
Thales invests in long-term, responsible relationships with employees, suppliers and subcontractors:
- 97.4% of jobs on long-term contracts and 93.1% on full-time contracts
- Responsible Supplier Relations certification since 2012

Making Cities Inclusive, Safe, Resilient and Sustainable
Thales solutions help make cities safer, more attractive and easier to live in:
- The ATSsoft Energy Saving solution significantly reduces energy consumption by metros and trams
- In Mexico City, Thales solutions have cut emergency response times by a factor of 6

Ensuring Sustainable Consumption and Production Patterns
Thales applies eco-design principles in all its industrial processes:
- All new products to incorporate eco-design principles by 2023
- Environmental policies of 84% of Thales suppliers (80% of total purchasing spend) assessed between 2016 and 2018
Engaging for Solidarity

Trust Solidarity, Share Technology

Launch of Thales Solidarity, a Group programme to coordinate the Group’s community engagement initiatives around priority themes and common criteria

3 focus areas
Leverage innovation and technology to serve:

- EDUCATION AND PROFESSIONAL INTEGRATION
- DIGITAL CITIZENSHIP
- ENVIRONMENTAL PROTECTION

Our engagement draws on 3 sources of solidarity:
- Funding projects with high social impact through the Group charitable structure
- Engaging with local communities around Thales locations in all countries of operations
- Encouraging employee engagement through a digital platform