Thales Spain:
- Since 1967
- Over 1,000 employees
- Offices in 11 cities
- 4 Production Centers
- Joint Ventures: Thales Alenia Space España (67%) and Sociedad Anónima de Electrónica Submarina SAES (49%)

Key information

Transport

Thales has a leading position in transport control systems thanks to its over-70-years’ experience in Spain and its relevant contribution to the modernization of the Spanish railway network and its participation in high-speed projects.

Defense, Airspace and Security

Thales España works with the Spanish Armed Forces contributing its technology for communication, optronics, surveillance radars, air navigation aids, minehunting Sonar, solutions for unmanned aerial vehicles, drone detection and neutralization, and ground systems, among others. Also, Thales supports the system maintenance of the most modern airplanes and helicopters.

Space

Thales Alenia Space España has over 30 years’ experience in Spain designing and delivering innovative solutions to the space market. Leading the satellite segment in Spain, its systems have contributed to the equipment of over 600 satellites, probes and spacecraft in missions involving communication, navigation, Earth observation and Solar System and universe exploration, for space agencies and satellite operators worldwide.

Identity and Digital Security

Companies and governments rely on Thales for the security offered in their billion digital interactions with their citizens. Our identity management and data protection technologies help banking institutions exchange funds, people travel across borders, energy be more efficient and more. Over 30,000 organizations use Thales solutions to verify the identity of people and objects, authorize access to digital services, analyze large amounts of information and encrypt data.
Thales in Spain:

**About Thales**

Thales is a global leader in advanced technologies, investing in digital and “deep tech” innovations – connectivity, big data, artificial intelligence, cybersecurity and quantum computing – to build a confident future crucial for the development of our societies. The Group provides its customers – businesses, organisations and governments – in the defence, aeronautics, space, transport, and digital identity and security domains with solutions, services and products that help them fulfil their critical role, consideration for the individual being the driving force behind all decisions. Thales has 81,000 employees in 68 countries. In 2020 the Group generated sales of €17 billion.

Thales España leads the market in technological solutions for the security of critical infrastructures and is the global excellence center for railway signaling, space and smart surveillance, and has the Competence Center for Identity and Biometric Systems.

Over 40% of our total production is mainly exported to Northern Africa, the Middle East and Latin America.

Thales España employs more than 1,000 people, with offices in the main cities within the country. It is part of Sociedad Anónima de Electrónica Submarina (SAES) for the Defense sector.
State-of-the-art Production Centers

Production center for software development for railway transport - Madrid

The production centers located in Leganés and Madrid are entrusted with the production, development, testing and acceptance of software for ERTMS systems, interlocking, traffic control centers and maintenance centers and with the specific development adapted to each railway project and operator.

It is part of the excellence center for railway signaling, with a long history in software for the latest electronic interlocks and for level 1 and level 2 ERTMS systems, both for Spanish and foreign railway operators or in cooperation with other units within Thales.

Production and Maintenance Center. Leganés - Madrid

Our Production and Maintenance Center for defense and airspace products and solutions has several test, repair and detection systems, climatic chambers, laser engraving systems, a calibration lab and testbeds.

This National Security Office-classified area has an expert team in:

- Tactical Radiocommunication: 12,000 PR4G radios sold in Spain in the last 30 years. The Production and Maintenance Center has maintained and repaired its different versions, adapting them to the needs of the Spanish Armed Forces.

- Avionics: In Leganés we provide maintenance and repair services to the Display Keyboard Unit (DKU) of the NH90 helicopter for all branches of the armed forces worldwide. Since 2011 Thales has delivered more than 600 newly built units, which means over 75,000 labor hours of our engineers and technicians specialized in developing and improving this sophisticated piece of equipment. Thales’s Production and Maintenance Center in Leganés also has the capacity to repair equipment, introduce upgrades or supply spare parts —1,300 units have been delivered to date, which will grow to 1,500 by 2023.

Customization Center for Banking and Payment Services. Parets del Valles - Barcelona

Parets del Valles is home to the leading production center in card customization technologies for banking institutions and other transport or retail organizations.

The Customization Center has experience not only in incorporating technology for the digital security, but also for ensuring reliability in the physical environment for data management. Thales Group has over 30 similar centers globally, but the center in Barcelona excels worldwide for its design, prototyping and production capacity, as it can produce over 1 million cards per month.

Thales Alenia Space España. Tres Cantos - Madrid

Located in Madrid’s Technological Park and with over 250 professionals, our lab in Tres Cantos is a leading hub for space innovation in Spain. This center designs, prototypes and produces both satellite transponders for Earth observation missions and other no-gravity experiments, software platforms for telecommunication systems, and space exploration probes and robots requiring the most precise, flexible and powerful instruments for remote data processing.

Thales Alenia Space devotes a significant part of its annual resources to R&D+i, thus its leading position in designing new-generation space sensors allows for a much quicker and deeper understanding of the universe.
Innovation

Thanks to the integration of activities of Gemalto, Thales España has strengthened its innovation capabilities.

Inventing today the products of tomorrow, creating value for our clients, allowing for efficient teamwork, and nurturing the passion for innovation —those are the flagships of Thales’s innovative spirit. An open innovation ecosystem and a creativity culture shared by the entire Group contribute to making the world a safer place and are the pillars of Thales’s business success.

Thales represents a critical mass of researchers in Spain. Our solid commitment to investing in R&D+i resources with over 580 professionals and 8 centers in 4 regions allow us to lead the generation of avant-garde technologies in multiple application areas.

Current R&D+i capabilities and lines are focused on railway transport, defense and security, card customization technologies for banking institutions and other transport or retail organizations, advanced biometrics and identity verification, and content protection and licensing.

In our mind, innovation success is based on perfectly understanding our clients’ current and future needs, on the power of creativity and imagination and on the ability to transform technological progress into practical realization.

Thales’s approach to innovation spans across the entire service life of a new product or service: from research to development, from launch to production, from installation to operation. Maximizing service quality and our clients’ satisfaction is our priority.
Business areas

TRANSPORT

Land transport networks (city and intercity, and high-speed railway lines) are essential to guarantee economic prosperity and well-being in a more and more populated world.

Thales is committed to providing its clients with technological solutions and services that allow them to operate their infrastructures with better capability, efficiency and safety. Our innovative end-to-end solutions foster smooth passenger and freight transport by means of quicker, safer and simpler journeys at a lower cost. These solutions have proved to produce business benefits, including significant energy savings and better capacity.

Thales has a leading position in transport control systems thanks to its experience in Spain for over 70 years and relevant contribution to the modernization of the Spanish railway network and participation in high-speed projects.

Thanks to its international experience and its technological qualification in all transport automation aspects, Thales leads the following global markets:

Railway signalling:
- ETCS train control system.
- Electronic interlocks.
- Track equipment.

Monitoring and communication:
- Rail Traffic Management System.
- Monitoring system.
- Communication: backbone, mobile, wireless network.
- Security and video surveillance.
- Passenger information and comfort.

Ticketing systems:
- Interoperable ticket management, including nation-wide systems.

Thales España has the necessary technical means and a qualified team able to lead transport automation projects across the world, regardless of their size.

Digital Transformation for Transport

Our digital technologies satisfy the needs of the railway industry in all our activities:
- Self-driven train and metro.
- Connected infrastructure for predictive maintenance.
- Data-based decision making.
- AI-based security solutions.
- State-of-the-art ticketing systems.
- Digital platform to support ‘as service’ business models.

Railway system protection against cyberattacks thanks to the latest cybersecurity solutions, included as a standard feature in all Thales railway systems.
Thales provides the Armed Forces with a wide range of fully integrated equipment, systems and services to meet new interoperability demands and C4ISTAR capabilities (command and control, communications, computers, intelligence, surveillance, target acquisition, and reconnaissance).

Thales España works with the Armed Forces contributing technology for communication, optronics, surveillance radars, air navigation aids, mine hunting Sonar, solutions for unmanned aerial vehicles, drone detection and neutralization, and ground systems, among others. Also, Thales supports the system maintenance of the most modern airplanes and helicopters.

Thales has ISR (intelligence, surveillance and reconnaissance) capabilities, thanks to the multiple sensors it has designed for missions involving maritime search and rescue, border control against illegal trafficking, support to sea and land forces, or intelligence missions, among others.

**Digital Transformation for Defense**

Digital technologies represent a powerful lever for Thales's teams to not just invent and develop new products and solutions for the world today, but also prepare for a future driven by data, self-operating systems and immersion technologies. This is the core of our value proposition: take our clients beyond what is currently possible while solving some of their most burning needs today.

In the defense sector, the different platforms (airplanes, helicopters, unmanned aerial vehicles, satellites, warships and ground assets) are now interconnected and equipped with multiple sensors that gather vast amounts of information. For a better understanding of the tactical situation and a quicker response, platforms will become increasingly collaborative in the coming years. Thanks to large-scale platform interconnection, units can coordinate more efficiently, and decisions can be made locally or at command and control centers. Systems are evolving to allow for improved connectivity and provide greater autonomy and a smarter support to decision-making.
SECURITY AND DIGITAL IDENTITY

Over 30,000 organizations, companies and governments have entrusted Thales and our solutions for verifying the identity of people and objects, authorizing the access to digital services, analyzing large amounts of information, and encrypting data.

Following the acquisition of Gemalto in early 2019, Thales has built up our existing digital assets to become a new leader in digital security.

Identity and Biometric Solutions

We provide identity verification solutions through various channels, covering the process end to end — safe data collection, analysis, processing, storage, and deletion. We can also provide the necessary document readers, as we are a leading expert in biometrics.

In Madrid’s Identity & Biometry Systems Competence Center more than 50 professionals are fully devoted to advanced biometrics. They work around the clock to develop new features, customize algorithms, and adapt capabilities to the needs and projects of many governments, security agencies, and similar entities.

We lead this area worldwide as regards to our recognition capacity, failure rate and response speed.

Banking and payment services

We are a technological partner for the Spanish banking sector. We produce and customize cards as well as strengthen authentication and identity verification methods in digital channels.

We help over 3,000 financial institutions, retailers, and other stakeholders to navigate the rapid evolution of financial services by offering them various payment methods for physical and digital transactions, and software solutions and services intended for online banking and payment, including data encryption and authentication systems.

Mobile Connectivity Solutions

Working with leading telecom operators, we are the country’s main SIM cart provider and SIM (OTA) platform administrator.

In order to guarantee their future position, mobile operators, OEMs and service providers need to focus on a new space within the digital market, reduce operating costs and attract new customers. This can be achieved by creating new fully digital and seamless experiences for their customers. Reliable digital identities are key to secure these experiences and provide clients with multiple ways to access security-sensitive services.

Cloud Protection and Licensing

Thales offers organizations a full portfolio of solutions for data encryption, key management and hardware security modules that provide continuous protection to the sensitive data contained in their databases, applications, storage systems, virtual platforms and environments, with a robust, reliable, and scalable encryption infrastructure.

Our 35 professionals devoted to R&D+i at Alicante’s Digital Identity & Security Center are currently developing Ciphertrust Data Discovery and Classification, a leading piece of software currently used worldwide for identity verification and content protection and licensing from mobile and web devices.

Analysis and IoT Solutions

Thanks to our work with companies, industrial OEMs, consumer OEMs, mobile network operators and cloud service providers, Thales has a holistic view of the different basic components, such as the software, hardware and data combined to build robust IoT ecosystems. In order to leverage the benefits brought by IoT (better client privacy, improved operational excellence, and new income sources through business model innovation), three critical components must be taken into consideration for a prosperous ecosystem: connectivity, reliable security, and an agile monetization framework.
Thales Alenia Space España has over 30 years’ experience in Spain designing and delivering innovative solutions to the space market. Leading the satellite segment in Spain, its systems have contributed to the equipment of over 600 satellites, probes and spacecraft in missions involving communication, navigation, Earth observation and Solar System and universe exploration, for space agencies and satellite operators worldwide.

Thales Alenia Space España is fully committed to R&D+i in Spain, offering solutions throughout the entire value chain: transponders, subsystems, equipment and ground systems. We have delivered over 4,000 components and subsystems, operating fault-free for over 200,000,000 hours in orbit, or the equivalent to 547 945 years!

Thales Alenia Space España has a 2000-square-meter clean area (ISO 8) able to integrate satellite subsystems and panels, and produce over 250 pieces of equipment every year. An optical detection lab (ISO 5) for integrating and testing optical instruments is also available. In 2021 a new large building will be ready to integrate satellite transponders and instruments.

Telecommunications and Navigation

Thales Alenia Space España leads the satellite communications sector. During our extensive experience in this area we have participated in the production of more than 400 telecommunication satellites for over 40 operators on five continents.

Solutions and products:

- Integration of telecommunication transponders.
- Digital transponders: flexible digital processor (Prodige), generative on-board processor (OBP), high-speed setting link (HiLink).
- Radiofrequency equipment: filters and multiplexers in all frequency bands.
- Telemetry and Telecommand Equipment (TTC).
- Ground segment: network management systems (NMS) for ground segment control and network management.

Earth observation

Thales Alenia Space España specializes in Earth observation instruments and in image transmission systems. We have participated in over 120 Earth observation satellites.

Solutions and products:

- Observation optical instruments. Specialized in detection electronics, video units, image processing and instrument control. We have an optical detection lab (ISO 5) for integrating and testing observation optical instruments, the only one of its kind in Spain.
- Image transmission subsystems.
- Electronic and radiofrequency units for radiometers and microwave instruments.
- Telemetry and Telecommand Transponders (TTC).
- AI-based image recognition systems.

Solar System and universe exploration

The Sun, Mercury, Venus, Mars, the Moon, asteroids, comets... Thales Alenia Space España participates in ESA and other space agency missions to advance our knowledge of the solar system and the universe. We have participated in over 35 exploration missions.

Solutions and products:

- Leadership and integration of communication subsystems.
- Telemetry and Telecommand Equipment (TTC), data transmission and radiofrequency distribution networks.
- Electronic units to control instruments, sensors, engines, mechanisms for antenna and solar panel deployment and bracing, timepiece distribution, etc.
- Data processing units.
- Radiofrequency sensors for training flights.

Shuttles and Spacecraft

We would not be able to travel to space without shuttles and spacecraft transporting astronauts, supplies and experiments to the International Space Station. Thales Alenia España specializes in communication solutions for shuttles and spacecraft.

Solutions and products:

- Communication equipment for spacecraft: tracking and data relay satellite systems (TDRSS).
- Electronic units for controlling solar panel deployment mechanisms.
- Telemetry transmitters for shuttles.
- Optic fiber communication systems for launch sites.
Commitment to Spain

HUMAN CAPITAL

Thales employs over 81,000 people in 68 countries. Nationality and cultural diversity is a unique advantage of the group, favoring daily exchange and interaction.

As a multinational company, Thales guarantees the highest qualification standards for employees. This ambition is reflected in our continuous recruitment and training policy, which reflects the company’s commitment to standards and practices are shared by all employees in every country.

Thales España attracts the best professionals: mainly self-motivated people who strive for excellence in everything they do.

Our professionals are a basic pillar in the company. We therefore foster their professional development and training, as certified by TOP Employers year after year and our presence in the ranking Best Companies to Work For published by Actualidad Económica, which assesses talent management, remuneration, work environment, social policies and training in the best Spanish companies.
Social Responsibility

Thales develops its business in Spain with responsibility and integrity at all levels and in all areas.

The conduct of all professionals is governed by the Code of Ethics, ensuring honest practices in all countries and in all Group activities. Our ethical commitments involve a continuous improvement process, including more consistent business agreements, specific commitments to our suppliers and the introduction of an alert procedure.

Thales reached the Advanced level of the UN Global Compact, of which it has been a member since 2003. The UN Global Compact has therefore recognized the continuing progress made by Thales in its corporate responsibility strategy. As a result, the Company is committed to managing its business with full integrity and in compliance with the strictest ethical standards. All members of our organization ensure our business goals are responsibly met.

Due to our global strategy and our presence in over 68 countries, Thales is more than a local economic agent. Thales endeavors to be a responsible company within the social and environmental context in every country, being an active member of the society in which it develops its business.

With its industrial and technological expertise, Thales is committed to a sustainable and economically viable energy transition. Moreover, the company affirms its commitment to the protection of the environment with a specific strategy for a low-carbon future. In line with the Paris Agreement’s decarbonisation goal, the strategy is built on three pillars: reducing the Group’s emissions, providing eco-responsible solutions to the customers and supporting the understanding of climate phenomena.

Regarding the specific commitment of Thales España, we have had a defined strategy over the years under the ODD umbrella, focusing on the following main pillars: education, diversity, community support, environment protection and health.

Furthermore, Thales requires its suppliers worldwide to meet human rights protection measures. Each supplier subscribes a compliance questionnaire with the Procurement Department, whereby they commit to adopt the principles of Thales’s Code of Ethics, the UN Global Conduct and the OECD Guidelines, specifically as regards human rights, labor rights, the environment and the prevention of corruption.

In 2016 Thales España was recognized as a Socially Responsible Company. Fundación Alares and Fundación para la Diversidad certify that Thales is a Socially Responsible Company, thanks to its effort in developing Human Resources policies and to the availability of care services to all employees and family members, favoring work-life balance, equal opportunities, diversity management and non-discrimination at work, regardless of the cause.

Thales España’s community engagement is aligned with the Corporate Citizenship Programme, Thales Solidarity, which aims to leverage technology and innovation to serve three focus areas: Education & Professional integration, digital citizenship, environmental protection.

Thales has also signed the Diversity Charter, whereby we commit to participate in external initiatives fostering diversity and inclusion in companies.