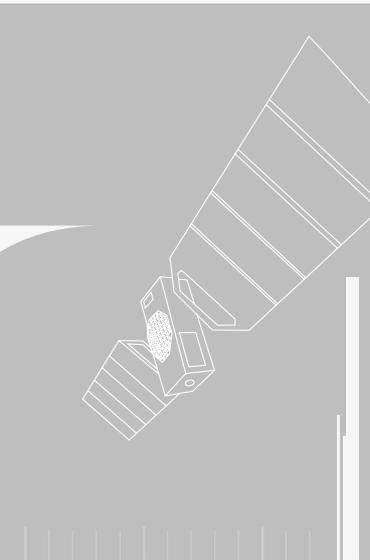


GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS)



Today's use of GNSS has far outgrown its originally intended military role. It is standard equipment on civil airliners, and is becoming widespread in the maritime world and terrestrial transportation industry. In the mass market it is the basis of advanced car navigation, and it is becoming increasingly popular as personal outdoor recreation equipment. GPS's atomic clock timing signals synchronise energy networks, cellular phones and communication networks carrying financial transactions between the world markets. SatNav Systems' numerous uses include mining, off-shore industries, fisheries, robotics, precision agriculture, civil engineering, science and environmental protection, and telemetry and tracking for high value asset management services. Quite soon, mobile phones will be fitted with navigation chipsets, opening the way to a wide range of new location based, value added services.

However, present systems have their limitations:

They do not fully meet all civil users' requirements in terms of performance and availability, particularly in urban areas where most of the potential users are located.

INFOMOBILITY
TRANSPORT CELLULAR PHONE

GALILEO



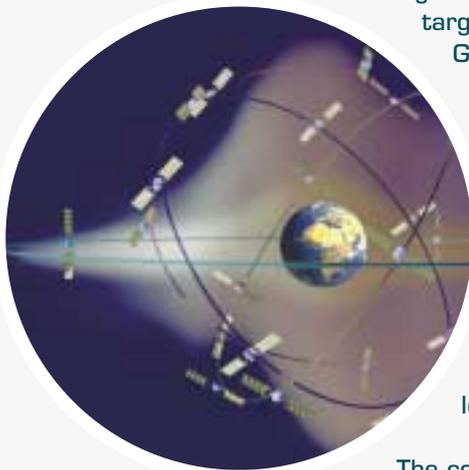
Galileo is the future European GNSS. It will be civil-run and will offer seamless global coverage, providing state-of-the-art positioning and timing services. The target is 2008 for initial operations.

Galileo services will include:

- an open access service, targeted at mass market users, at least equivalent to the GPS civil service (single & dual frequency).
- a commercial service, with value added data.
- a high level performance Safety of Life service, providing integrity warnings when fault occur in the system.
- a Public Related service, ensuring a continuity of service for public users.
- Search & Rescue service with a return communication link from the SAR operator.

Galileo will be interoperable with GPS, and will be complemented by local elements that will enhance the services for specific local users.

The co-existence of 2 complementary, interoperable GNSS will pave the way for the progressive replacement or complement of all navigation aids by satellite navigation solutions. It will further boost Satellite Navigation applications and services.



S Y N E R G Y

THALES NAVIGATION - THALES

GEO SOLUTIONS - THALES

TELEMATICS

THALES AVIONICS - THALES

COMMUNICATIONS



THALES AIR TRAFFIC MANAGEMENT



THALES RESEARCH



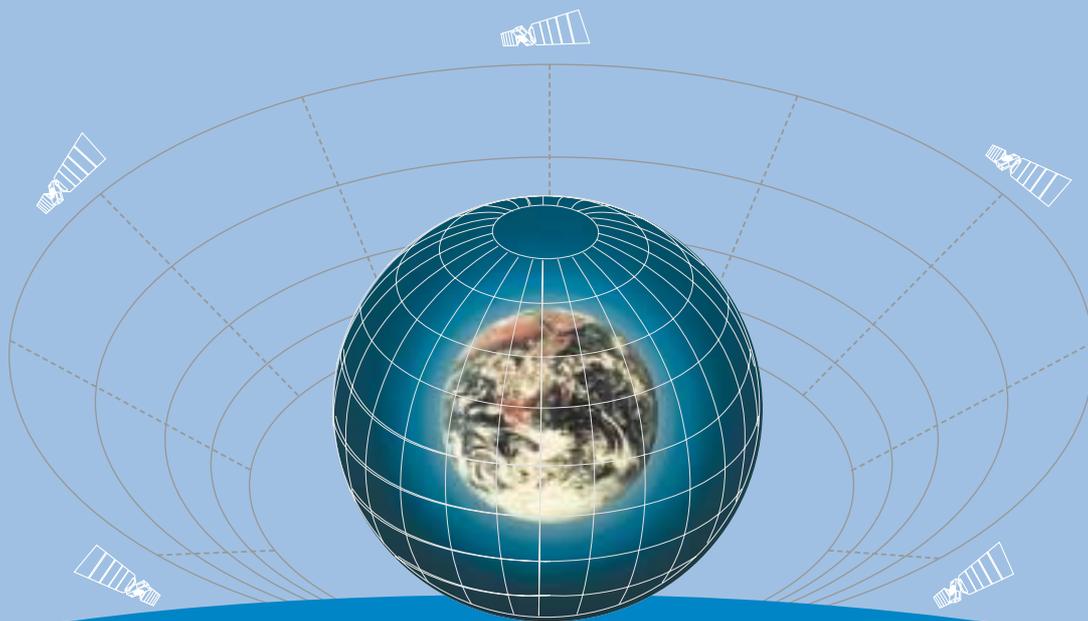
Our commitment

We will continue to earn our customers' trust by providing a complete range of high-tech products and high-quality service.

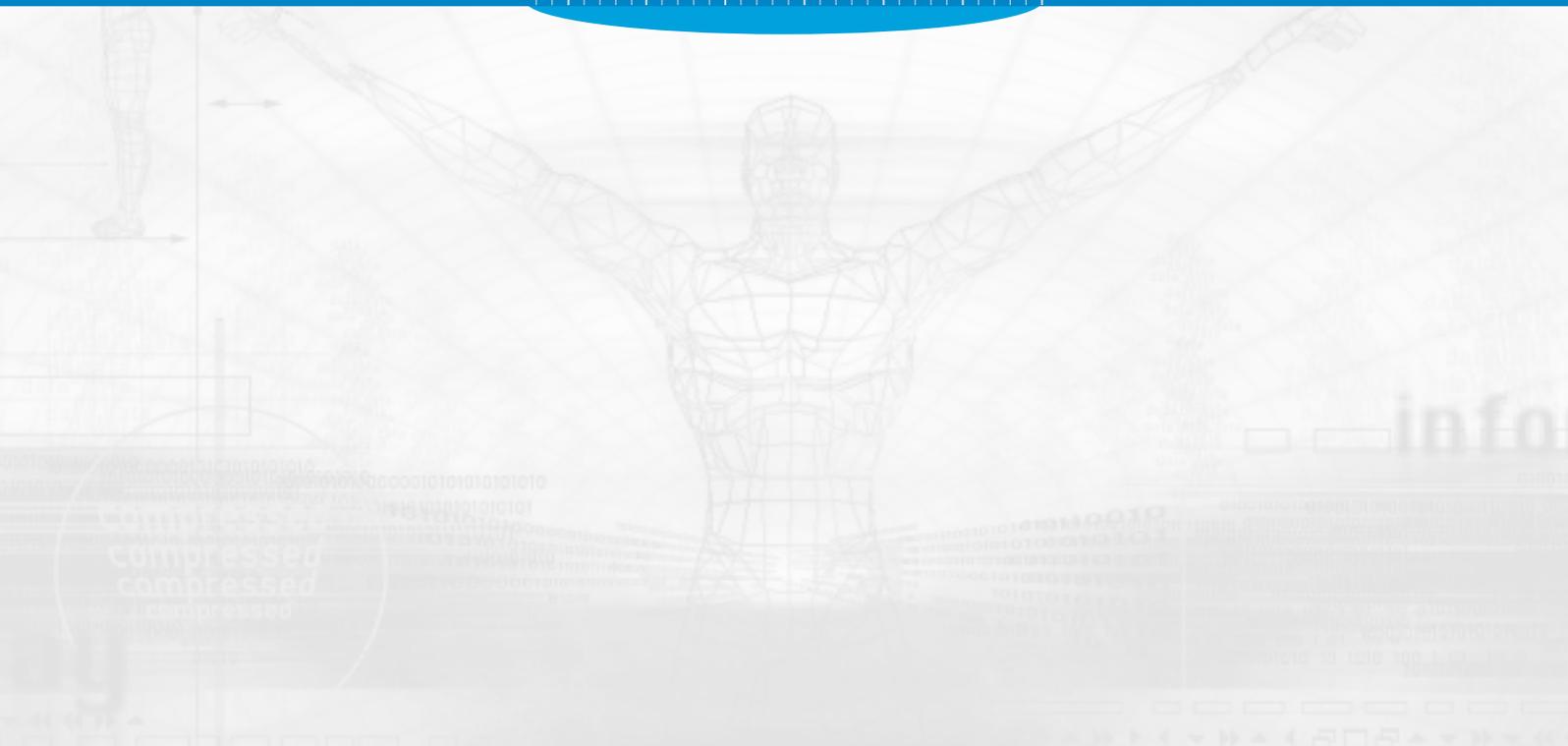
Galileo Programme Unit

173 Boulevard Haussmann - 75415 Paris Cedex 08 - France - Tel : + 33 (0)1 53 77 89 90 - Fax : + 33 (0)1 53 77 84 93

THALES



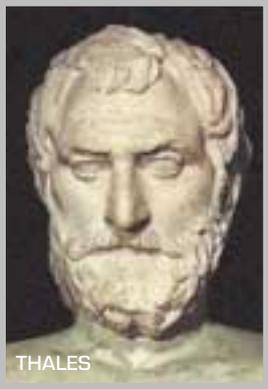
THALES, AT THE CENTRE OF GALILEO PARTNERSHIP



THALES AND GALILEO - THE ESSENCE OF NAVIGATION EXCELLENCE



GALILEO



THALES

Thales - The philosopher and founder of Greek astronomy.

Galileo - The man who redefined the way we look at the stars.

The heavens have guided man for thousands of years, allowing him to navigate a clear and safe path across the world. Today, man's ingenuity has devised artificial orbiting satellites that take the science of navigation to hitherto unattainable levels. Such capabilities allow man once again turn his gaze in wonder to the heavens as satellite navigation reaches down to touch all our lives.

Organisations whose roots personify excellence in navigation technology now come together to meet the challenge to move navigation science forward once more and so provide safe and precise global navigation for everyone.

Thales - The leader in high technology navigation service provision.

Galileo - Europe redefines the standards for satellite navigation services.

GALILEO

THALES

THALES, the largest European GNSS company: experience and expertise

- 3rd largest GNSS receivers manufacturer (defence, aeronautics, maritime, professional and mass markets). Thales leading GNSS receiver brands are Thales Navigation and Magellan.
- World leader in satellite navigation and telematics services provision.
 - Thales Telematics provides fleet management and asset tracking through combined GPS/GSM applications.
 - Thales Navigation operates the largest and highest performance DGPS commercial network (Skyfix and Landstar).
 - NavSol, a Thales-Hertz joint-venture provides satellite based car navigation for Hertz customers in the US.



Thales GNSS assets for professional and consumer markets are grouped in the Positioning Based Solutions Business Group, which has GNSS market revenues in excess of 500 M€ and 2000 highly skilled engineers.

- Leader in integrity provision through SBAS development participation (EGNOS), through GBAS development and aeronautical receivers.
- Leader on aeronautical satcoms, NavAids and Air Traffic Management.
- Security & secure data transmission core business.
- Outstanding large system capability.
- Extensive PPP experience around the globe.

THALES value to GALILEO: user-driven skills and vision

Thales is the sole stakeholder with a world wide dimension, which can provide access to the downstream markets.

- Thales has the capability to ensure the programme's commercial success through end-to-end involvement.
- Thales has outstanding system capability, including safety critical aspects.

Thales has set-up the first Galileo prototype receiver (under an ESA contract).





The GALILEO downstream market

The Galileo programme success will reside in the future Galileo market penetration. Thales believes that Galileo represents an excellent potential for the downstream industry.

With like minded companies having a strong interest in downstream markets, Thales has created Galileo Services - a non-profit organisation.



The Galileo Services mission is:

- to promote the downstream industry's role in the Galileo programme.
- to promote a Galileo end-to-end vision, supported by a user driven approach.
- to foster R&D for Galileo based services, and establish open, non-proprietary standards.
- to stimulate the Galileo market development.



the Industry must embrace

