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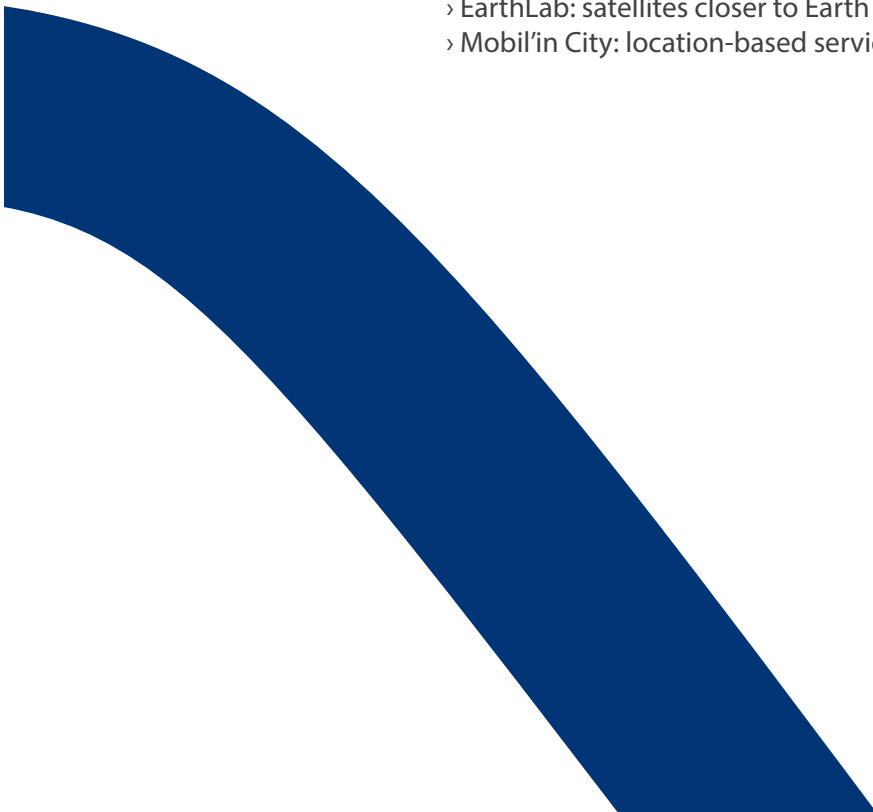
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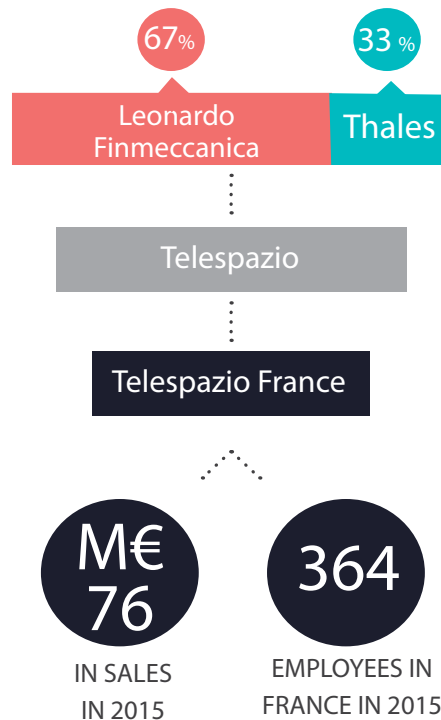
TELESPAZIO FRANCE,

LEADING THE WAY IN SATELLITE SERVICES

As a key player in space infrastructure operations for more than 30 years, Telespazio France supplies value-added satellite services and applications for geoinformation, navigation and telecommunications.

Telespazio France is the French subsidiary of Telespazio, a joint venture of Leonardo and Thales.

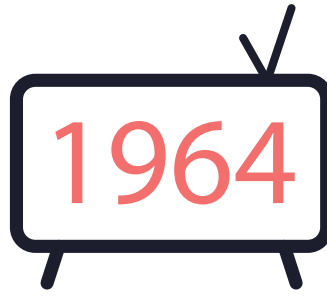
Based in Toulouse and chaired by Jean-Marc Gardin, Telespazio also has facilities in Paris, Bordeaux, Kourou and Libreville.



Group Figures › 632 M€ in sales in 2015 and 2.500 employees around the globe

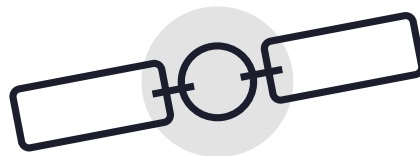
MORE THAN **200** LAUNCH CAMPAIGNS FROM THE 3 PADS AT THE GUIANA SPACE CENTRE

MORE THAN **60** SATELLITES SUSTAINED WITH THROUGH-LIFE SUPPORT SERVICES



FIRST LIVE SATELLITE TV BROADCAST
IN 1964 FROM THE TOKYO OLYMPIC

Five years later, pictures of Man's first steps on the Moon were broadcast live. Much later, the world's first radar Earth-observation constellation (COSMO-SkyMed) entered service: throughout its history, Telespazio has been a prime mover behind game-changing advances and ground-breaking technology disruptions.



THE WORLD'S FIRST
GEOINFORMATION
CLUSTER



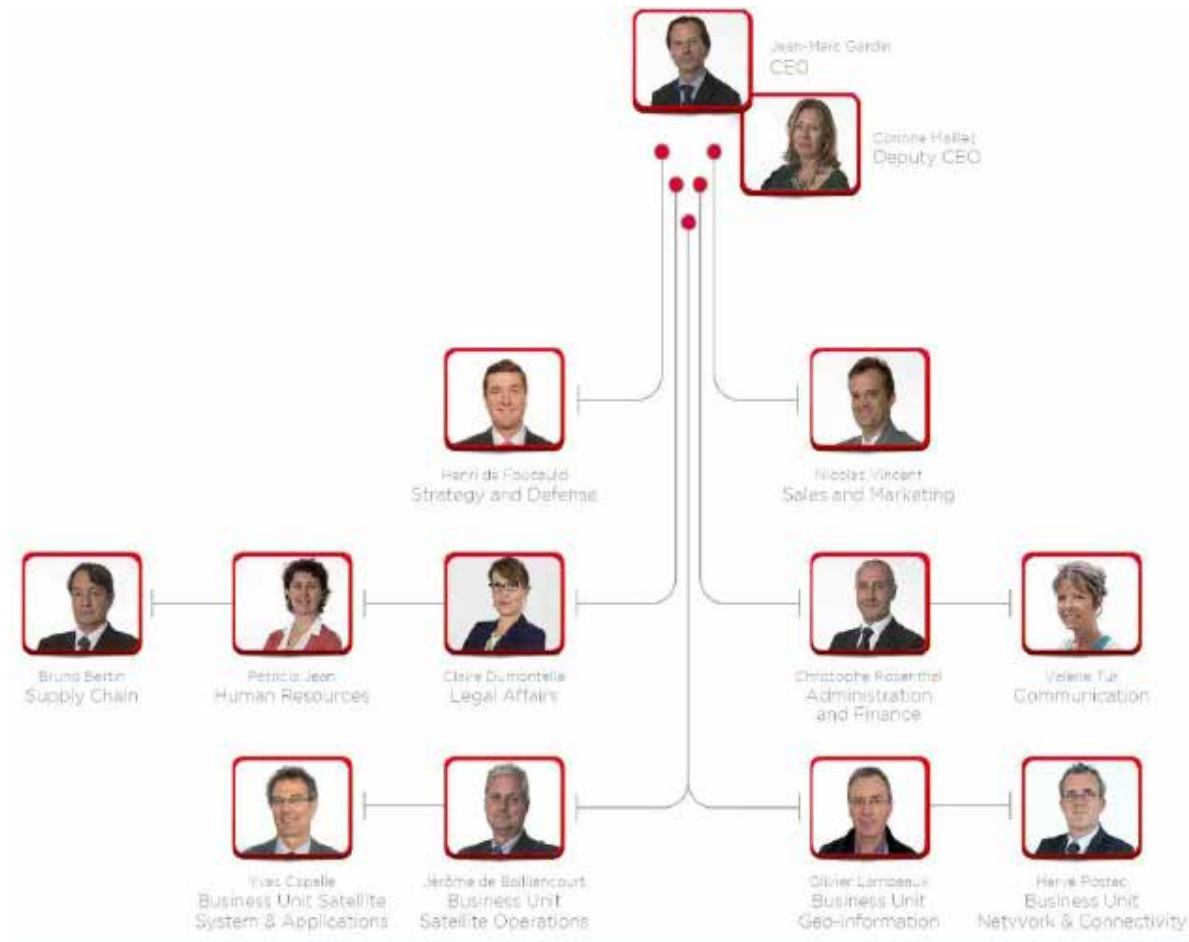
A LOCATION-BASED SERVICE
PLATFORM LEVERAGING
GALILEO FOR URBAN
MOBILITY



PROVEN SOLUTIONS FOR PROFESSIONALS
IN DEMANDING MARKETS SUCH AS
RETAIL, ENERGY, INDUSTRY AND LOCAL
GOVERNMENT

EXPERT, RENOWNED GOVERNANCE

Co-led by Chairman & CEO Jean-Marc Gardin, also Deputy CEO of the Telespazio Group, and Deputy CEO Corinne Mailles, Telespazio France's management team boasts a wealth of high-level experience in space and its applications.



TELESPAZIO

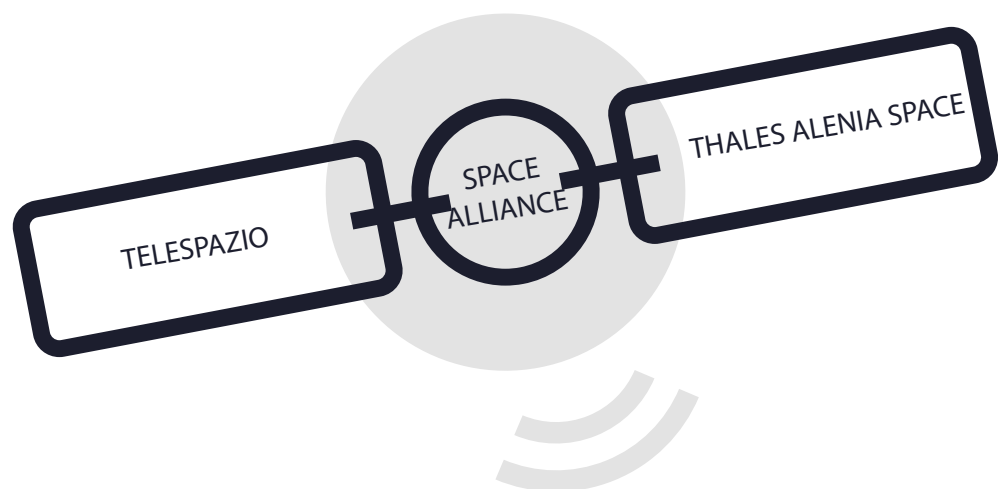
AT THE HEART OF THE SPACE ALLIANCE

In 2005, French firm Thales and Italian firm Leonardo-Finmeccanica merged their space businesses within the Space Alliance, a partnership between Thales Alenia Space, a world leader in space infrastructures, and Telespazio, a major supplier of space services.

The intent of the Space Alliance is to pool the two firms' talents and resources to offer optimized integrated solutions. The Space Alliance has unique potential to move into vertical markets, spanning the entire value chain from conception and fabrication to operations and services.

Together, Thales Alenia Space and Telespazio present an unmatched value proposition geared to growing demand for turnkey solutions.

The Space Alliance underpins combined offerings embracing systems and services for businesses and civil and military customers.



The Space Alliance,
from conception
and fabrication
to operations and
services

A FULL RANGE OF SATELLITE SERVICES

encompassing 4 areas of expertise



SPACE SERVICES AND INFRASTRUCTURES, SATELLITE OPERATIONS

Telespazio France is the historic partner of the French space agency CNES and launch operator Arianespace in mainland France and French Guiana, operating their ground infrastructures and satellites.

Our operations teams have been working at Europe's spaceport in Kourou, French Guiana, for more than 30 years. Today, we have more than 150 experts attached to our French Guiana facility maintaining and operating its ground infrastructures and support equipment.

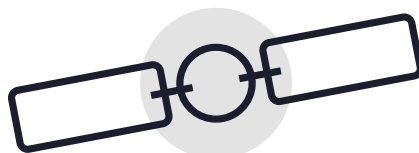


With a 150-strong team on site, Telespazio France is the Kourou launch base's premier industry partner

From launch support to orbital positioning, Telespazio France is tasked with operating the tracking, telemetry and control systems for the Ariane 5, Soyuz and Vega launchers. Telespazio France is also in charge of operating all of the spaceport's telecommunications systems.

In Toulouse, Telespazio France maintains CNES's network of ground stations and performs stationkeeping and mission operations for the vast majority of its satellites, assuring a high level of service.

Our teams have been working with the experts at the Toulouse Space Centre since 1988 to help them accomplish their telecommunications, Earth-observation and science missions, contributing notably to the success of flagship missions such as ATV resupply flights to the International Space Station or the ChemCam instrument on the Curiosity Mars rover.



As the number one industry partner of ESSP (European Satellite Service Provider), the European company in charge of operating EGNOS, the precursor to Europe's Galileo satellite navigation system, Telespazio France is tasked with maintaining and sustaining the signal reception and processing equipment at some 50 ground stations around the globe.

Telespazio France is also, most often working alongside Thales Alenia Space, the operator of trust for the French defence community, for which our operators control several telecommunications satellites in Maisons-Laffitte and sustain the associated anchorage systems, as well as operating the user terminal for radar Earth-observation missions in Creil.



TELECOMMUNICATIONS, NETWORKS AND CONNECTIVITY

Telespazio has been a world leader in satellite telecommunications since the very first live satellite TV broadcasts in 1964. Today, Telespazio France continues to draw on this heritage of innovation and on its expertise in new digital technologies to develop innovative and unique services delivering high added value, notably for the media, retail, energy, construction and oil and gas sectors.

With its seven teleports around the globe, including the world's largest civil teleport in Fucino, Italy, and agreements with every satellite operator, Telespazio offers comprehensive coverage through M2M communication and back-up solutions all over Europe, high-availability broadband in Africa and emergency systems and communications.



Fucino, the world's largest civil teleport, supports satellite communications for Telespazio's customers.

Telespazio France provides effective, reliable, global broadband connectivity solutions where terrestrial infrastructures are lacking or insufficient to meet the needs of local institutions, the military, big corporations and small and mid-tier firms.

Telespazio France develops, deploys and operates satellite solutions to bridge the digital divide, bringing mobile telecommunications and Internet connectivity to underserved areas.

Leveraging its mature VSAT technology, Telespazio France has developed a turnkey offering for institutional, defence and key account customers, allowing them to communicate high volumes of data securely across all of their networks. Telespazio France also offers complementary and innovative solutions through its exceptional network of partners to enable media to deliver and broadcast digital content.

With its resources, expert teams and partners, Telespazio France deploys and operates solutions geared toward any kind of permanent or temporary connectivity.



GEOINFORMATION

Through its involvement in Europe's Galileo, EGNOS and Copernicus programmes, Telespazio France occupies a strategic position in the field of geoinformation, hazard management and security applications and services, as well as providing 24/7 real-time operational services.



Telespazio France offers a range of products and services for monitoring the environment and infrastructures, for mapping and for managing geodata.

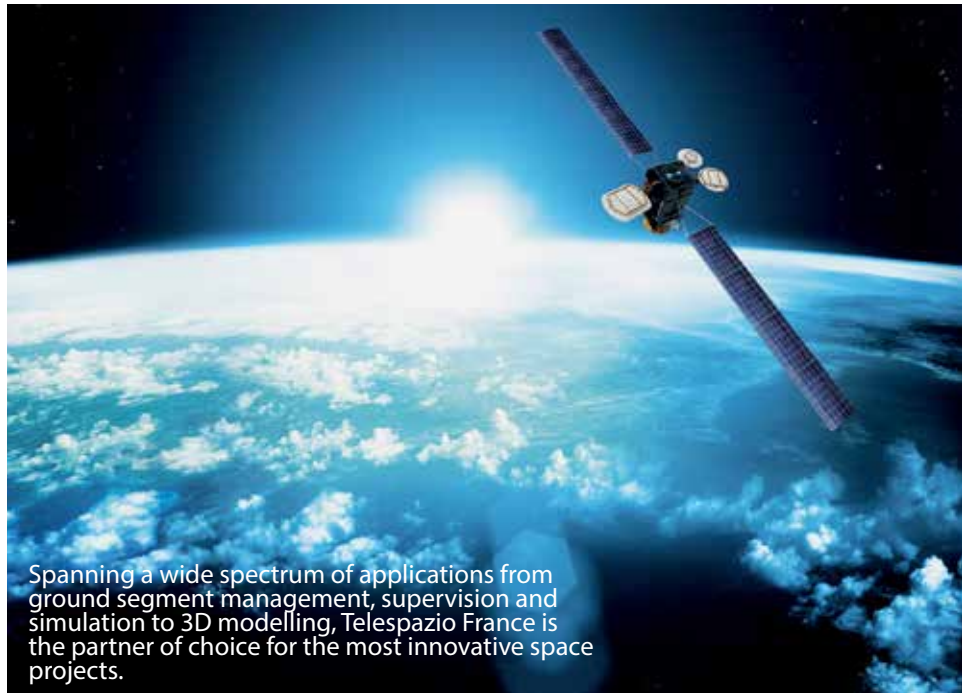
Telespazio France's full portfolio of services gives businesses and government agencies unrivalled resources for monitoring their regions of influence and interest, meeting their needs without having to call on outside expertise and integrating seamlessly and easily with their methods and tools.



SATELLITE SYSTEMS, APPLICATIONS AND NAVIGATION

To meet market demand and ready for new digital capabilities, Telespazio France is able to draw on its expertise and a library of tried-and-tested solutions.

Telespazio France develops unmatched professional visualization, simulation and supervision software solutions for the aerospace and defence markets.



Built around innovative software applications supporting mobile platforms and developed from user requirements using agile engineering methods, these turnkey, customizable solutions are designed for complex environments and situations where security and reliability are paramount.

Telespazio France is one of the few market players able to conduct end-to-end development of 3D simulators of orbital satellites and subsystems, and for maintenance training (like, for example, the virtual maintenance tool developed for the NH90 helicopter on behalf of NAHEMA, the NATO Helicopter Management Agency).

Telespazio France uses this software expertise and the experience it has acquired from the GPS, EGNOS and Galileo satellite navigation systems to develop and operate dedicated platforms for businesses and government that deliver high levels of precision and availability.



BROAD EXPERTISE AND INNOVATION

delivering new value-added-services

In recent years, Telespazio France has been converging its areas of expertise to develop a range of value-added bespoke services that can be customized to provide strategic operational solutions. Leveraging its legacy of innovation and driven by the ambition it has nurtured from the outset, Telespazio France is working to bring the benefits of satellites to the widest number.

Connectivity solutions

for retail networks and industrial facilities

Telespazio France deploys communication solutions geared to the strategic challenges of retail service delivery and industrial facilities.

Telespazio France has built a portfolio of turnkey services around mature VSAT technologies that allows retail customers and industry to transmit very large amounts of data securely and simultaneously across their networks.

This cutting-edge technology supports reliable updating of prices and special offers, computers and loyalty cards, and broadcasting of in-house radio and advertising material. This solution is also easily installed, requiring no more than a small satellite dish antenna. It has already been adopted by a leading European retailer, proving its capability over a network of several thousand outlets in four countries.

Connectivity solutions

for local institutions

With its expertise and service portfolio, Telespazio France is developing, deploying and operating satellite telecommunications solutions to bridge the digital divide by bringing mobile telecommunications and Internet connectivity to underserved regions.

Backed by its strong local presence, Telespazio France set up 15 VSAT ground stations across the vast and often remote territory of French Guiana at the end of 2014 for SPLANG¹, the public firm tasked with deploying digital technologies there.

For Africa, public audiovisual group France Medias Monde (FMM) chose Telespazio France's solution to implement the future VSAT network for Radio France Internationale (RFI). Rolled out across the African continent in 2015, this network of several hundred stations will broadcast French-speaking content produced by RFI to partner African radio stations, while also providing reliable, permanent Internet connectivity and enabling tele-management of local FM retransmitters.

¹Société Publique Locale pour l'Aménagement Numérique de la Guyane



allies performance, security and competitiveness

With AirLink, Telespazio France offers a reliable, available and cost-effective service for every kind of connectivity need, whether for occasional or continuous Internet access or secure internal networks.

Thanks to the VSAT network, AirLink is an ideal complement or alternative to ADSL, 3G or radio-frequency networks for all kinds of standard or critical applications. AirLink is aimed at retailers, M2M operators, SMEs in underserved areas and local institutions, notably those seeking to set up effective videosurveillance systems. AirLink also enables broadband Internet access without having to extend coverage to each individual site or between remote sites. This latest-generation network is available all over France and Europe, at very competitive rates.

Oil & Gas

a custom offering for the energy sector

Telespazio France develops custom solutions for the energy industry and sensitive facilities combining radar and satellite imagery, telecommunications and aerial surveillance systems (aircraft and UAS) to help them identify new deposits and monitor drilling platforms.

This reliable and affordable range of solutions is easy to deploy and tailored to exploration, observation and emergency management.



De la gestion des Segments Sol à la supervision, en passant par la Simulation et la modélisation 3D, Telespazio France est le partenaire de référence des projets spatiaux les plus innovants.

... AND INNOVATIVE PROGRAMMES

EARTHLAB GALAXY

EarthLab Galaxy satellites closer to earth

Telespazio France develops custom solutions for the energy industry and sensitive facilities combining radar and satellite imagery, telecommunications and aerial surveillance systems (aircraft and UAS) to help them identify new deposits and monitor drilling platforms. This reliable and affordable range of solutions is easy to deploy and tailored to exploration, observation and emergency management.

EarthLab Galaxy aims to meet local needs by bringing together space and image-processing software experts and local specialists and research scientists to devise products and services geared towards the key environmental and economic challenges of the day.

EARTHLAB AQUITAINE

EarthLab Galaxy is founded on 10 strategic pilot EarthLab centres being deployed around the globe, covering every continent.

EarthLab Aquitaine in Bordeaux is the original nucleus of the EarthLab Galaxy, working in close partnership with the Aquitaine regional council to deliver value-added services to viticulture and silviculture professionals. Its engineers are deploying satellite and aerial UAS imagery technologies to help local authorities precisely track the impact of erosion on coastal areas.

EARTHLAB GABON

End 2013, Telespazio France and the Republic of Gabon signed a strategic partnership to set up EarthLab Gabon. This partnership aims to boost space services in Gabon with a view to creating, with support from AGEOS, the Gabonese space agency, and FGIS, the Gabonese strategic investment fund, a centre of satellite Earth-observation excellence in Africa and spurring local and regional environmental monitoring initiatives.

EARTHLAB LUXEMBOURG

Launched at the Paris Air Show in June 2015, the EarthLab Luxembourg centre's mission is to supply geoinformation solutions and services to professionals managing industrial and environmental risks. EarthLab Luxembourg is a unique centre of its kind in Europe, offering operational services to help insurers and industry plan for and manage crises at industrial facilities. This third geoinformation centre in the EarthLab Galaxy is a partnership between Telespazio France, e-GEOS (Italy), Luxembourg-based firm HITEC and the POST Luxembourg public telecommunications group.



Managing tropical forest sustainably

Tropical forests are under many competing economic, human and environmental pressures. Assuring regulatory compliance and sustainable forest management calls for monitoring capabilities independent of operators on the ground. Forest engineering consulting firm FRM Ingénierie and Telespazio France have combined their talents and resources to conceive CIRCAET, an efficient, permanent, automated and cost-effective service for keeping track of logging activities on the ground.

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KEY DOMAINS, MORE THAN 20 APPLICATIONS

EARTH

OCEAN

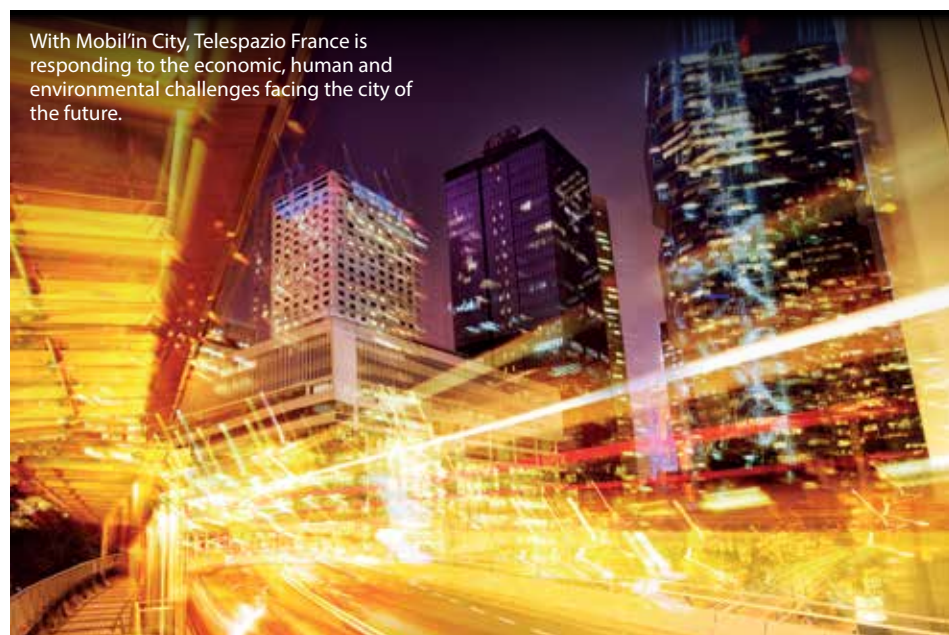
SECURITY

CLIMATE

Mobil'in City, Location-based services for urban mobility

A pioneering provider of satellite telecommunications and value-added geo-information, Telespazio France is also a key player in satellite navigation, working in partnership with Thales Alenia Space (Thales/Leonardo), the European leader in EGNOS and Galileo satellite navigation systems and ground segments.

Closely involved in operating the European EGNOS and Galileo systems and with renowned expertise in developing value-added services, Space Alliance partners Telespazio France and Thales Alenia Space have developed Mobil'in City, a federating platform that pulls together precise geolocation services supporting mobility in big cities.



The Mobil'in City concept grew out of a preliminary analysis of urban requirements and certain limits of satellite and terrestrial technologies. The deployment of this platform is currently under study in several European territories in partnership with other key stakeholders.

While EGNOS has been operating for 5 years now and the first Galileo services rolled out in 2015 will be fully operational in 2017, Mobil'in City will be an operational showcase for users of Galileo and EGNOS, with the aim of providing location-based services for the urban environment, ANYTIME, ANYWHERE.

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