Galileo for Europe

The Galileo system represents clear added value for Europe in a number of key areas.

Economic opportunities

Jobs and growth
Independent studies show that Galileo will deliver around EUR 90 billion to the EU economy over the first 20 years of operations, in the form of direct revenues for industry and indirect revenues for society. The bottom line will be more jobs and more economic growth for Europe.

Access to international markets
Europe’s investment in Galileo opens the global market for European GNSS. In 2010, the global annual market for global navigation satellite products and services was valued at EUR 124 billion, and is expected to reach EUR 244 billion in 2020.

Stimulating European innovation

The tangible technological advances and general know-how generated by years of research and development under the Galileo programme represent a wealth of resources for Europe and in particular European industry and European companies. These resources will be leveraged to enhance the competitive edge of European companies and to generate so much of the world’s economic activity.

Independence, control over continuity of service

Galileo represents full independence for Europe in satellite navigation, a sector now extremely important for its economy and the well-being of its citizens. This means the ability to deliver a guaranteed and state-of-the-art GNSS service, even in the event of GPS service disruption.

Co-operation, interoperability

Interoperability refers to the ability of navigation satellite systems and the services they provide to be used together, providing better capabilities to all the user groups than would be achieved by relying solely on one system.

Galileo will co-operate with other existing satellite navigation systems, as well as with the world community, providing new and innovative products and services.

General information

Europe Direct is a service to help you find answers to your questions about the European Union.

For further information, please contact

The European Global Navigation Satellite System Service Centre
http://www.gsc-europa.eu

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The Galileo satellite surveying, geometry
Road transport
Coverage
Galileo Service Definition Documents for
Location Based Services (LBS)
Agriculture
Availability
Air transport
acknowledgement message. In this way, the person in
unique ‘return link’ feature that sends a detection-
the detection of distress beacons, as well as a
The Galileo SAR will be an important tool for locating
the COSPAS-SARSAT service
Search and Rescue (SAR) contribution to
mass-market applications, including smartphones and
fully interoperable with GPS and will be used for many
Early Galileo Open Service
early services.

The Galileo satellite navigation system is
around the clock and across the globe.

stand-alone Galileo positioning services to be made
with their ground facilities. The position is
determined with an accuracy ofBetter than 100 metres, fully
on sea with expected hit rate in the millions. Galileo
will set as 2014 for participating EU Member States.

The European Global Navigation Satellite System
will begin its proof of concept in 2014, with early
professional or commercial use.

The Galileo PRS early service provision will start as
as an historic milestone – the very first determination of
First Galileo position-fix
In March 2013, European satellite navigation achieved an
historic milestone – the very first determination of
an extraordinary level of accuracy also
The advanced clocks that synchronise Galileo
sattellites are more accurate and reliable.

Telecommunication: Accurate timing and positioning systems
Galileo’s extremely accurate clock makes
it an indispensable tool for authentication and
motorway, determine the position of satellites to
provide clear benefits for the aviation sector, especially
for airports and air-traffic-control operations.

Safety and security
Galileo-ready devices will enable more security-related
apps from the World need

Energy
‘time stamping’ of financial transactions.

Operation of modern energy networks.

Radio and telecommunications: Galileo’s extremely
accurate timing and positioning systems
provide clear benefits for aviation, maritime,
and rail transport.

Spatial positioning: The number of satellites will also
mean improved availability in cities, where
buildings can obstruct positioning signals;
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