

# EGNOS

**EGNOS** is a joint initiative of the European Commission, the European Space Agency (ESA) and Eurocontrol (the European organisation for the safety of air navigation). It is owned and managed by the European Commission on behalf of the European Union.

**EGNOS** is the precursor of Galileo, the European satellite constellation that will provide highly accurate positioning and timing signals beginning in 2013.

For more information, please visit:

[www.ec.europa.eu/transport/egnos](http://www.ec.europa.eu/transport/egnos)

[www.gsa.europa.eu/go/egnos](http://www.gsa.europa.eu/go/egnos)

[www.esa.int/esaNA/egnos.html](http://www.esa.int/esaNA/egnos.html)

[www.essp-sas.eu](http://www.essp-sas.eu)



Navigation solutions powered by Europe

Neither EGNOS, its Signal In Space nor its operator have been certified for safety of life uses i.e. purposes where the safety of human life is at stake. Certification for civil aviation is under preparation. Consequently until further notice EGNOS should not be used for safety critical purposes.



KO-32-09-120-EM-C

# EGNOS

THE GROUNDBREAKING  
EUROPEAN SATELLITE NAVIGATION SYSTEM



**EGNOS** is Europe's first venture into satellite navigation, paving the way for Galileo, the global satellite navigation system that the European Union is developing.



Navigation solutions powered by Europe



## The better way with EGNOS:

EGNOS provides a positioning and navigation signal over Europe that corrects GPS errors and therefore improves accuracy.



- ★ EGNOS (European Geostationary Navigation Overlay Service) corrects GPS signal errors, increasing horizontal accuracy to between one and two metres, compared to about seven metres with GPS alone.
- ★ Vertical accuracy is also improved, making EGNOS very useful in the aviation sector where it can significantly increase landing safety.
- ★ And EGNOS is free-of-charge.

Most receivers today indicate if they are using EGNOS or not. When they are EGNOS-enabled, GPS receivers may refer to EGNOS as "SBAS" (Satellite Based Augmentation System). Depending on the type of receiver, the use of EGNOS is automatic or may need to be manually activated. In case of doubt, please contact your receiver's manufacturer and/or application's developer.

## EGNOS benefits European citizens and businesses:

- ★ In aviation, with the integrity message\* EGNOS will allow safer landing procedures at lower costs than currently available systems.
- ★ In road transport, EGNOS allows for the development of new applications such as 'pay-per-use' insurance or automatic road tolling, and it reduces the need for more costly infrastructure.
- ★ In agriculture, EGNOS enables high-precision spraying of fertilisers and pesticides, reducing the amount of chemicals needed by up to 70%.
- ★ EGNOS boosts the precision of all personal navigation applications, giving rise to new possibilities such as guiding aids for the blind.



\* expected mid-2010