

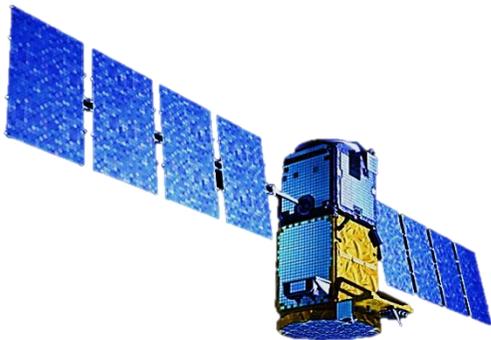
WHAT IS EGNOS?

EGNOS, the European Geostationary Navigation Overlay Service, is the European Satellite Based Augmentation System designed to enhance the **accuracy** and **reliability** of GPS positioning information over Europe.

This technology increases the performance of GNSS, by broadcasting corrections for the disturbing factors that affect the satellite signal.

Therefore, users can benefit from enhanced positioning performance in their GNSS applications.

Moreover, EGNOS provides information about the reliability of positioning and timing information delivered by satellite navigation signals, a feature known as **integrity**.



For further information
www.egnos-portal.eu

THE UKRAINE PROJECT

Launched in January 2015, the UKRAINE project was established to capitalise on opportunities for partnerships created by the setting up of the EU-Ukraine Cooperation Agreement in the field of Global Navigation Satellite Systems (GNSS).

CONSORTIUM AND CONTACTS



UKRAINE
www.project-ukraine.eu

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EGNOS extension to Ukraine: a win-win strategy



UKRAINE



HORIZON 2020



THE EGNOS SYSTEM

EGNOS consists of three geostationary satellites and a network of ground stations. Accurately located reference stations deployed across the entire continent measure GPS signals. GPS errors are then transferred to a computing centre, which calculates differential corrections and integrity messages that are then broadcast over the continent using EGNOS geostationary satellites as an augmentation or overlay of the original GPS message.

BENEFITS FROM THE ENHANCED PERFORMANCE OF EGNOS

EGNOS enhances positioning in almost every consumer and business sector, including among others aviation, road, agriculture, maritime, rail and mapping.

The enhanced accuracy and reliability of positioning provided by EGNOS improve the performance of existing applications at no extra cost other than the one of EGNOS compatible receivers.

The EGNOS signal warns users in case of undesired events, such as a GPS degradation, so that the operator knows the positioning service can no longer be trusted and should not be used for the intended operation.

The enhanced performance of EGNOS are a key factor for the improvement and development of several services both for safety-critical operations, such as instrument approaches in aviation, and for business activities such as farming and mapping.

EGNOS EXTENSION TO UKRAINE: ADVANTAGES

The current EGNOS service area permits only partial service provision over some Eastern European countries, including Ukraine. In this context, the EU-Ukraine Cooperation Agreement in the field of Global Navigation Satellite Systems (GNSS), concluded in November 2013, is a win-win arrangement.

It will allow the full provision of EGNOS services over Ukraine and open up a series of business opportunities for both European and Ukrainian companies.

For **Europe**, EGNOS extension represents an opportunity to strengthen the EU's position as a satellite navigation player and to ensure that European services can be used throughout Ukraine to support the development of innovative applications. Moreover, it will foster the adoption of EGNSS in these applications in attractive markets for the European industry.

For **Ukraine**, EGNOS represents a key contributor to improve the safety, security and efficiency of aviation, transport and other applications in a country where international trade is of key importance.

CURRENT SYSTEM COVERAGE

EGNOS currently covers most European countries. However, as it is exploring new opportunities, the EU is aiming to extend EGNOS coverage to neighbouring countries such as Ukraine and Mediterranean countries.

