SSRoverDAB+

PRESS RELEASE

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Precise GNSS correction data via digital broadcasting - SSRoverDAB+ project launched

Modern digitisation and automation applications in agriculture and the automotive industry require continuous, high-accuracy GNSS position data in real time. GNSS correction data required for this is often not available to users over a wide area due to mobile internet dead spots. The parallel provision of GNSS correction data via mobile internet and digital radio DAB+ should remedy the situation.

In the ESA project "SSRoverDAB+", four partners from industry and science will develop and test software and system solutions for the transmission of precise GNSS correction data via DAB+ over the next twelve months. The project is led by Alberding GmbH from Wildau. Project partners are the companies Geo++ GmbH (Garbsen) and inPosition GmbH (Switzerland) and the Fraunhofer Institute for Integrated Circuits IIS (Nuremberg base).

Associated project partners are the Bavarian Agency for Digitisation, High-Speed Internet and Surveying (LDBV) as the operator of the GNSS reference station network, the Federal Agency for Cartography and Geodesy (BKG) as the operator of a nationwide DAB+ data channel and BayWa AG Munich as a partner for practical testing in the field of agriculture. Interested users are welcome as test partners in the further course of the project.

The project goals are the generation of a broadcast-capable PPP-RTK correction data stream with optimised bandwidth, the coding and decoding of the DAB+ data transmission as well as the development and adaptation of algorithms for precise real-time positioning. For mobile tests, the software modules will be implemented on the embedded computer of the Alberding A10-RTK sensor and evaluated in field tests.

"SSRoverDAB+" is funded under the 2nd element of the "Navigation Innovation and Support Programme" of the European Space Agency ESA (ESA NAVISP Element 2). The programme aims to develop innovative competitive products in satellite navigation and other areas of positioning, navigation and timing. Further information on ESA NAVISP can be found here: https://navisp.esa.int/

For further information contact:
Jürgen Alberding (project coordinator)
Alberding GmbH
Ludwig-Witthöft-Straße 14, D-15745 Wildau
Tel.: +49 3375 25198-00
E-Mail: ja@alberding.eu

Alberding GmbH · Fraunhofer IIS · inPosition · Geo++ · AdV