



Bonn (no visits)

PRECISE POSITIONING – ACCURACY UNLOCKED

Developing and accelerating Precise Positioning solutions



SUMMARY

Accuracy Unlocked is a program for developing and accelerating Precise Positioning solutions. As Precise Positioning can be used to ensure a substantially more accurate position than is the case with standard GNSS technologies, the aim is for the technology to also be used in a range of different industrial sectors in the future, such as the IoT, Smart City, or driverless vehicles.

hubraum is Deutsche Telekom AG's tech incubator. By working alongside Swift Navigation (provider of American Precise Positioning technology), start-ups, and small businesses working in these industrial sectors, Accuracy Unlocked seeks to identify a product using GNSS technology that can be improved still further with Precise Positioning technology. The aim is for the affiliated companies to create use cases and prototypes to demonstrate the benefits of Precise Positioning. These will then be able to be monitored and marketed in the future.

CURRENT SITUATION

Precise Positioning is a technology for positioning specific receivers. It uses standard GNSS technologies (including satellite systems such as GPS, GLONASS, Beidou, and Galileo) and supplies a position that is accurate to within 10 cm by means of computed correction data. To date, conventional technologies have only been able to offer an accuracy of around 5 m, although this can fluctuate either way depending on factors such as weather conditions, surrounding buildings, and other influences.

In other words, Precise Positioning can provide a substantially more accurate position, allowing applications in promising industrial fields of the future, such as the IoT, Smart City, or driverless vehicles, to make use of the associated position data. However, this technology is still relatively new and little research or practical testing has been carried out in these use cases.

INDUSTRY 4.0 – FEATURES

GNSS Technology Precise Position Technology

PARTNERS



PROJECT DESCRIPTION

This project is currently focusing on developing use cases and prototypes for Precise Positioning. In order to do this, the companies involved have prepared the necessary hardware, software, and technical support. These will include European companies that already have or are developing an existing project using GNSS technology, which could be enhanced by Precise Positioning, with a view to designing and developing application prototypes.

SOLUTION

The Accuracy Unlocked acceleration program should help us create use cases and prototypes for Precise Positioning to demonstrate the benefits of this technology, heighten awareness of the subject as a whole, and offer opportunities for further investment and investigation.

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STANDARDIZATION APPROACHES

Linked to the development phase