

GPS+ equipment ensures fast and reliable revision measurements



“As opposed to the countryside, the built-up area is positively riddled with base points.”

“The Topcon GPS+ system is ideal for accurate revision measurements across a wide area.”

The medium-sized growth municipality of Ede in the Dutch province of Gelderland is located in the west of the Veluwe, to the south of the Gelderse Valley. It is no wonder, therefore, that Ede is sometimes called the wild town of the Netherlands. Towns such as Lunteren, Bennekom, Otterloo and Harskamp are all part of this 100,000-plus municipality between Arnhem and Veenendaal. In the tourist town of Lunteren, the Goudsberg is located. This is the geographical centre of the Netherlands.

Recent studies have indicated that some 22,000 Ede households have their dirty and insufficiently cleaned waste waterprocessed by an old septic tank or cess pit. These concern inhabitants of the countryside around Ede, particularly to the north and west of the town. Since these discharges were prohibited in January 2005, the municipality has been installing a predominantly pressurised sewerage system for these people. By the end of 2006, all households should be connected to this sewerage system. The countryside sewerage system (Project Riolering Buitengebied) is implemented by a special project agency.

Leendert van Dijk, Head of the Department Property Information Centre & CAD explains: ‘The municipality of Ede carries out its own revision measurements for the new sewerage system. Each day, two measurement teams set out to various locations to determine the coordinates for the new sewerage system to be constructed. It is an important job, because, as opposed to the town centres, very few base points are known in the countryside. The new data is collected for the management chart, which is a current chart indicating matters such as the exact underground infrastructure. At the same time, measurements are taken for the large-scale basic map of Ede (the GBKE)’.

Van Dijk continues: ‘In order to carry out these measurements, our land-survey teams use two Topcon Hiper+ units, which are employed as Rover. By means of a GSM modem, these GPS+ are in continuous contact with the Topcon base station, here on the roof of the town hall. This Topcon system receives both GPS and GLONASS satellite signals. These comprise, at the moment, some 38 satellites. This results in a highly accurate position determination within centimetres, even in wooded places and built-up areas. Without this GPS+ system, we would not be able to meet our tight schedule!’

 **TOPCON**

Topcon Netherlands
De Kronkels 14 3752 LM Bunschoten
The Netherlands
Phone: +31 (0)33 299 29 39
Mail: info@topcon.nl