

## APPLICATION EXAMPLE: STAKING OUT POINTS IN THE FIELD



- Taking measurements for planning areas with the help of the A07-NAV -

### Task

It is intended to set out a planting area. You have already designed its shape and its location on a digital map and stored the coordinates of the corner points in your GIS software for stake out.



### What is needed



- Alberding A07 receiver (NAV mode)
- SIM card with mobile Internet contract
- L1 GNSS antenna
- Survey pole
- Notebook or tablet
- GIS software

- **L1 GNSS multi-constellation receiver** (GPS, GLONASS, Galileo, SBAS)
- The A07 represents a **low-cost alternative** to existing GNSS systems on the market providing accuracies of **~1m**
- The A07 computes a **DGNSS solution** by receiving reference data
- Working with the A07 is quick and comfortable due to the **wireless connection** (Bluetooth) and a **weight of 190g only**

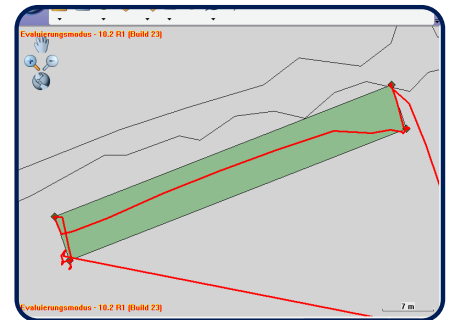
### Procedure

#### In advance

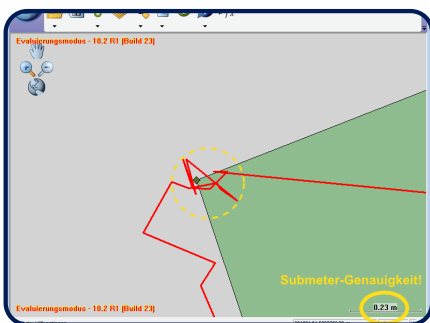
- Create shapefiles in your GIS software
- Configure the A07's basic settings via the configuration tool: data rate, filtering, server providing DGNSS reference data (e.g. Alberding Caster)

#### In the field

- Start A07-NAV and connect it to your notebook/ tablet via Bluetooth
- Wait until DGNSS quality is displayed in your GIS. Additionally, the A07's GNSS status LED indicates a DGNSS quality
- Start heading towards the corner points on the digital map with the help of the displayed real-time position
- Stake out the corner point and navigate to the next one



### Results



With the help of the A07 and a proper GIS software the corner points of the planned planting area can be set out. The A07 directly sends DGNSS position information to the GIS software in NMEA format. Additionally, the DGNSS track can be displayed in the GIS software (red track) or stored on the A07's internal SD card. Sub-meter level accuracy can be achieved in good satellite visibility conditions.

**A07 - Your low-cost and portable solution for positioning applications.  
Please, contact us!**