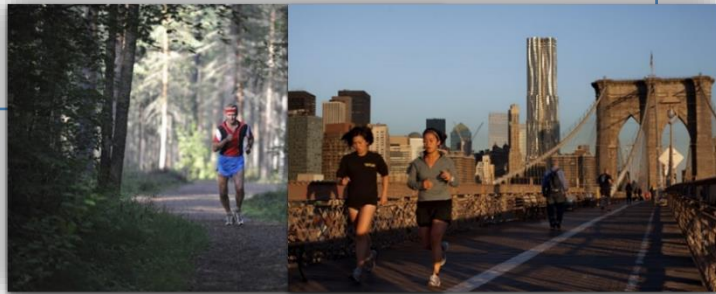


GPS Air Performance Test Service

Regular GPS Field Test Versus Verkotan's GPS Air Performance Test

Regular GPS field test

Expensive – costs thousands of euros
Slow – testing can take even weeks
Inaccurate – Difficult to get accurate data because of changing test conditions

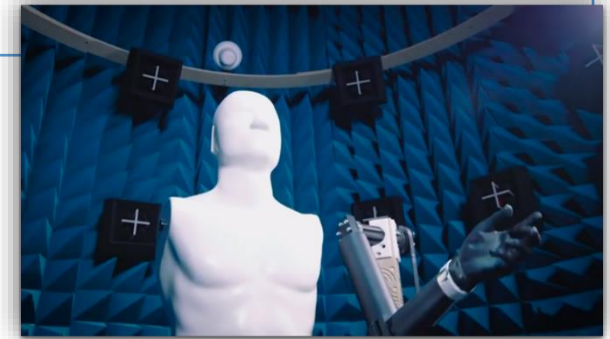


GPS Air Performance Test

Affordable – release time and money to other testing
Fast – cut down GPS field testing time to one day
Accurate – test the device in repeatable and reliable laboratory environment

Savings

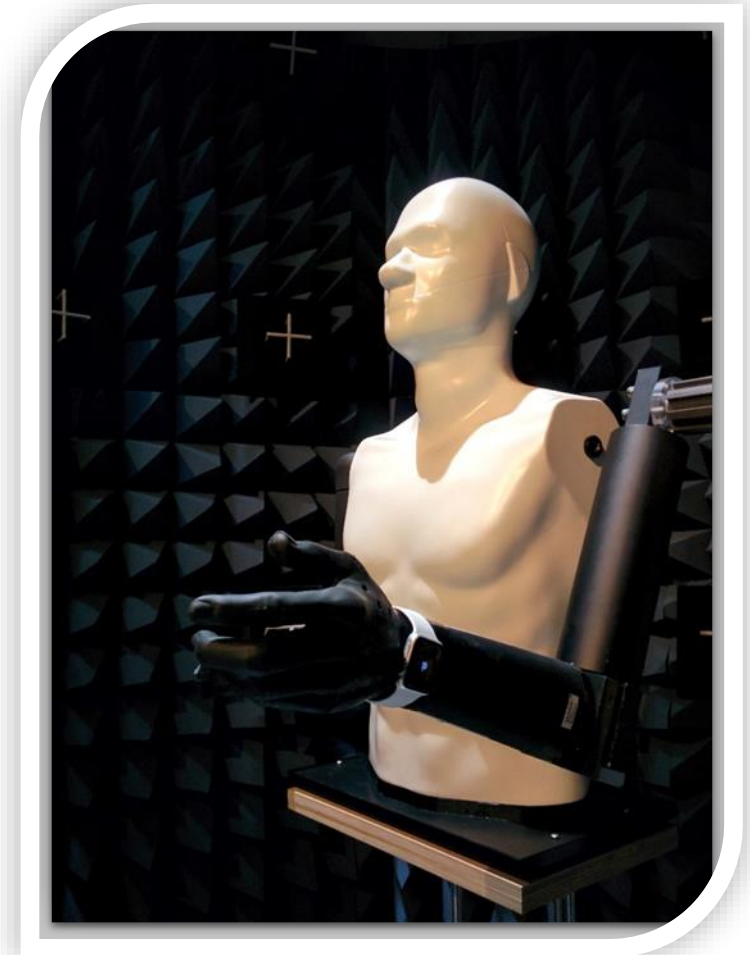
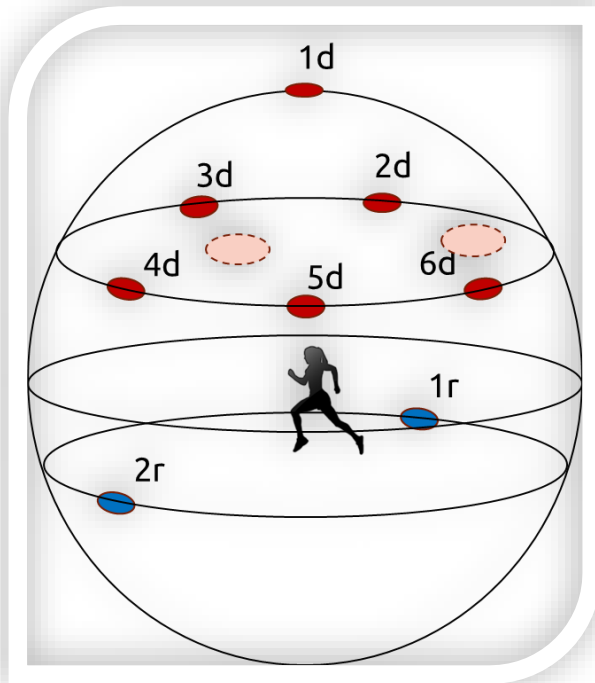
N x 1000 € savings in Field Testing costs
N x 10 000€ savings in reduced number of HW builds
N x 100 000€ additional revenue due to faster time to market
N x 1000 000€ additional revenue due superior product



Test Setup

Virtual route is built by multiple (up to 10) virtual GPS satellites which create a changing satellite constellation simulating moving user in different environments.

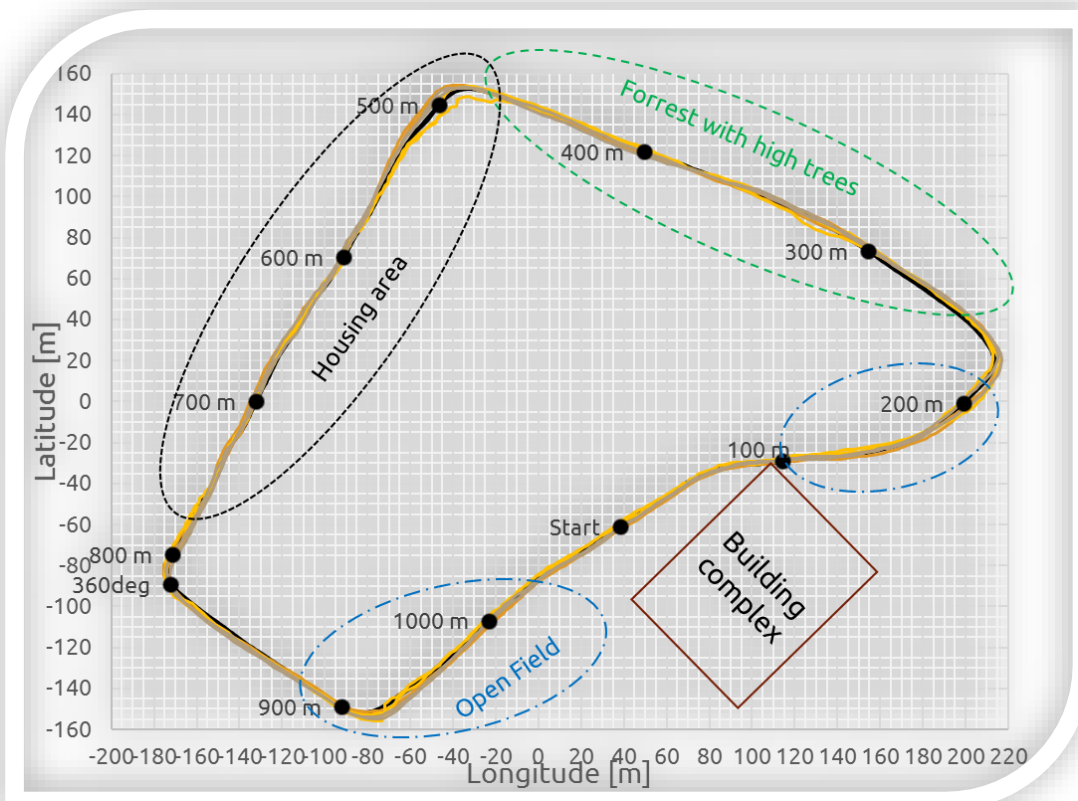
- = Physical Antenna (right hand polarization)
- = Physical Reflection Antenna (left hand polarization)
- = Virtual GPS Satellites



Test Execution

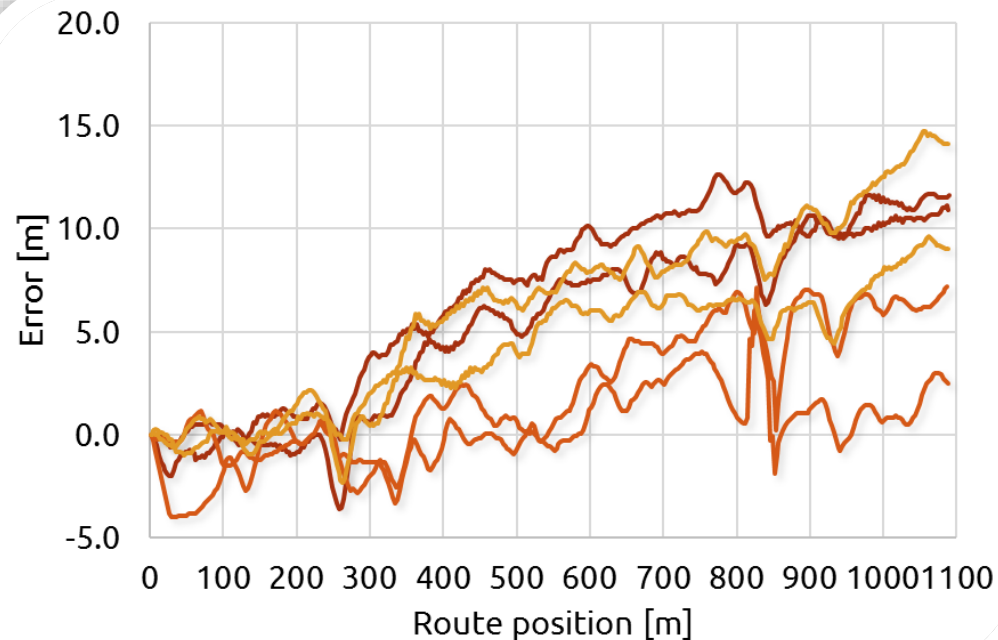
This is Suburban 1 test route.

See the video about the test on [Youtube](#)



- Test will be executed in Suburban 1 test route
- Test includes maximum of 10 GPS satellites
- Satellite constellation and UCT time and date are from 20th Dec 2015
- Test includes 7 laps of 1089m test route
(The first lap results are ignored to ensure proper fix)
- Speed 3 m/s (10,8 km/h)
- Average reflection signal level -15 dB (adjustable)

Test Results



This is an example result for distance error.

- Test system is using NMEA format for data reporting
- Test results are delivered in numeric and graphical format in an Excel file.
- Test results include:
 - Latitude and longitude error
 - True versus reported position (2D)
 - Off Route error (1D)
 - **Distance error**
 - Speed error
 - Altitude error
 - SNR Distribution

Created to deliver leading wireless Devices.

Your Contact

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