accurision®

5th EU-Japan GNSS Roundtable

25 November 2021

Gunnar Fleisch | Co-founder & CEO
Accurision GmbH | Millennium Park 6 | 6890 Lustenau | Austria
phone +43 5577 21 700 12 | mobile +43 699 1801 4436 | email gunnar.fleisch@accurision.com

GUIDANCE™ GNSS Sensor

Sensor Fusion Engine

Automotive Sensor Fusion Engine

RADAR

LIDAR

Ultrasound

Stereo / Monocular Vision

Odometry

GNSS

Accelerometer

Gyroscope

Magnetometer

Infrared Vision

Steering Angle

3D HD Maps

Sensor Fusion Engine

Automotive Sensor Fusion Engine

RADAR

LIDAR

Ultrasound

Stereo / Monocular Vision

Odometry

GNSS

Accelerometer

Gyroscope

Magnetometer

Infrared Vision

Steering Angle

3D HD Maps

Automotive Requirements

- Absolute, robust positioning solution with an accuracy of 0.5 m (UERE x HDOP) in rural/suburban environments
- Access to raw data and possibility to control measurement engine via standard interface
- Free global correction model and data
- Ability to cope with the dynamics
- Integrity and resilience
- Easy integration into sensor fusion engine

Our Approach

- „As robust as possible, as accurate as required“
- Medium dynamic applications (public roads)
- Wide band signals like Galileo E5 AltBOC with
  - high power,
  - small multi-path envelope, and
  - low code noise
- Code phase vs carrier phase

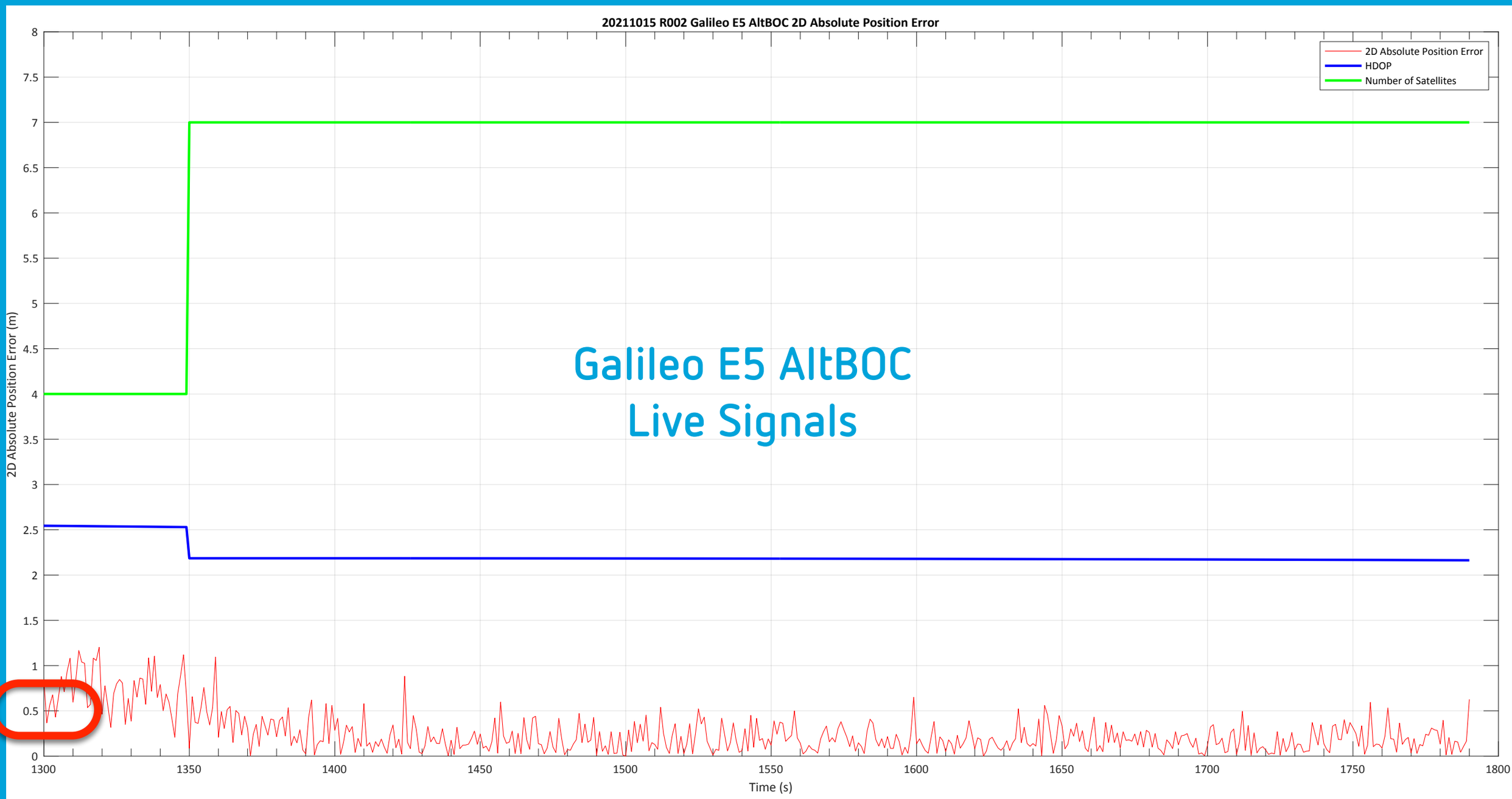
Our Approach

- „As robust as possible, as accurate as required“
- Medium dynamic applications (public roads)
- Wide band signals like Galileo E5 AltBOC with
  - high power,
  - small multi-path envelope, and
  - low code noise
- Code phase vs carrier phase
- Combine Galileo E5 AltBOC pseudo-ranges with Galileo E6 HAS correction model and data

GUIDANCE™ GNSS Sensor

- GUIDANCE™ NSE-M42™ GNSS sensor
  - Mixed-signal
  - Triple-frequency
    (full E1, E5, and E6 frequency bands)
  - Supports BeiDou, Galileo, and GPS (incl. SBAS)
  - Focus on wide-band signals like Galileo E5 AltBOC
- Free correction model and data using Galileo E6 HAS
- Focus on integrity, resilience, accuracy, and precision
- Provided as Soft & Hard IP

GUIDANCE™ GNSS Sensor Performance



accurision®

Gunnar Fleisch | Co-founder & CEO
Accurision GmbH | Millennium Park 6 | 6890 Lustenau | Austria
phone +43 5577 21 700 12 | mobile +43 699 1801 4436 | email gunnar.fleisch@accurision.com