OHB DIGITAL SOLUTIONS

PRODUCTS‘ OVERVIEW

OHB DIGITAL SOLUTIONS GMBH

PART OF OHB SE

- Austrian company established in 1999
- Based in Graz, Austria
- Became part of OHB SE, one of Europe's leading space companies, since 2019
- Expert know-how in the field of GNSS quality assurance, GNSS signal processing, precise positioning, and reliable navigation through more than two decades of research and development
- Successfully introduced key products to markets such as aerospace and space, defense and security, cybersecurity for data and telecommunication centers, R&D institutions, and more
- Continues to be involved in research and development projects

XPLORA – GNSS SIGNAL SIMULATOR

XPLORA Core - SOFTWARE FEATURES

- All civil GNSS frequency bands (GPS, Galileo, GLONASS, Beidou, QZSS, SBAS)
- Arbitrary user-defined constellations and signals
- Enables highly flexible and repeatable user-defined scenarios
- Modelling of unintentional errors (delays when passing through atmospheric layers, shadowing, multipath, etc.)
- Scenarios allowing higher than nominal receiver dynamics (this means a velocity of more than 600 m/s) – specific for aerospace/space
- Highly realistic and detailed Jamming and Spoofing interference signals
- Hardware-in-the-loop setup for real-time control of the simulation environment
- Automotive add-on: route planning for road traffic

Features are tailored to the exact user's needs

XPLORA – GNSS SIGNAL SIMULATOR

XPLORA Core + HARDWARE BUNDLES

- **XPLORA One: The cost-optimized solution for all GNSS developments**
  - Stand-alone signal generator, able to connect to any Laptop/PC
  - Single- and Dual- RF outputs variants available
  - Sustains all basic XPLORA-software features

XPLORA One: XPLORA Core + Basic Hardware

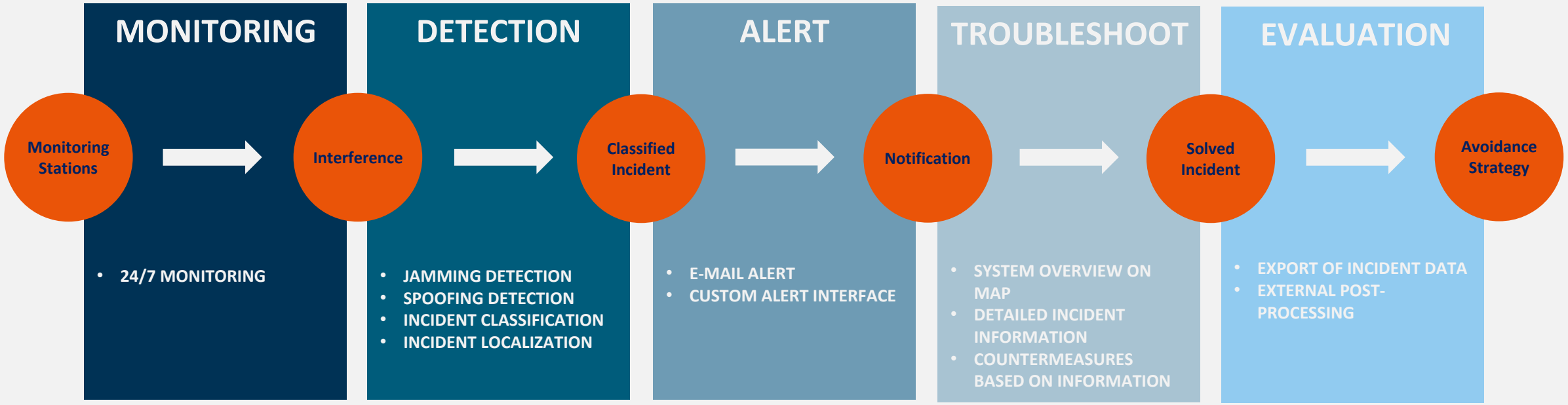
- **XPLORA Pro: The allrounder for professional use**
  - Conformed by a high-end signal generator and a processor
  - Single- and Dual- RF outputs variants available
  - Sustains all basic XPLORA-software features, in addition to:
    + Up to 256 real-time GNSS signals/channels
    + Real-time streaming of Jamming and Spoofing interference signals
    + Hardware-in-the-loop setup compatible with Automotive add-on features

XPLORA Pro: XPLORA Core + Premium Hardware

GIDAS – GNSS QUALITY ASSURANCE

APPROACH TO MONITORING GNSS AND ADDRESSING INTERFERENCES

- GIDAS main core is to **monitor, detect, alert**, and even **localize** Jamming and Spoofing interferences. The heart behind the GIDAS product family is OHB's knowledge of and experience with a multitude of different radio frequency interference detection techniques.



GIDAS – GNSS QUALITY ASSURANCE

VARIATIONS

- The fixed stationary version of GIDAS, allowing 24/7 monitoring

- The GIDAS mobile unit mounted on the rooftop of law enforcement vehicles

- The GIDAS directly integrated into your product or platform

- The portable, IP-rated, standalone GIDAS, everything in a suitcase

NavTD - MILITARY TESTING DEVICE

M23

- Mobile, compact and weatherproof advanced jamming and spoofing system
- Easy to use system to test military equipment and applications safely and realistically under jamming and spoofing attacks
- Covers a wide range of jamming and spoofing scenarios
- Supports synchronized attacks via built-in GNSS receiver

With M23 it is possible to assess the vulnerability of existing GNSS equipment and the performance of its countermeasures in a protected environment.