

Subsurface Mapping

GS9000

Multichannel GPR



GS9000

See Below Ground

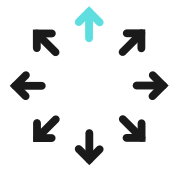




GS9000

Multichannel GPR pushcart

Modular sensors. Highest data quality.
Powerful 3D software. 100% real time.



Versatile

Two swappable array modules to cover one vast array of subsurface mapping applications.



Efficient

Simple to set up and operate, with on-the-fly data visualization to avoid interpretation errors on site



Accurate

Seamless GPR + GNSS technology integration for accurately georeferenced high-density data.



Overview



Wirelessly controlled from an iPad Pro with **gestures**

Excellent **ergonomics** designed for the best manoeuvrability

Built in carbon fiber to provide **durability and lightness**

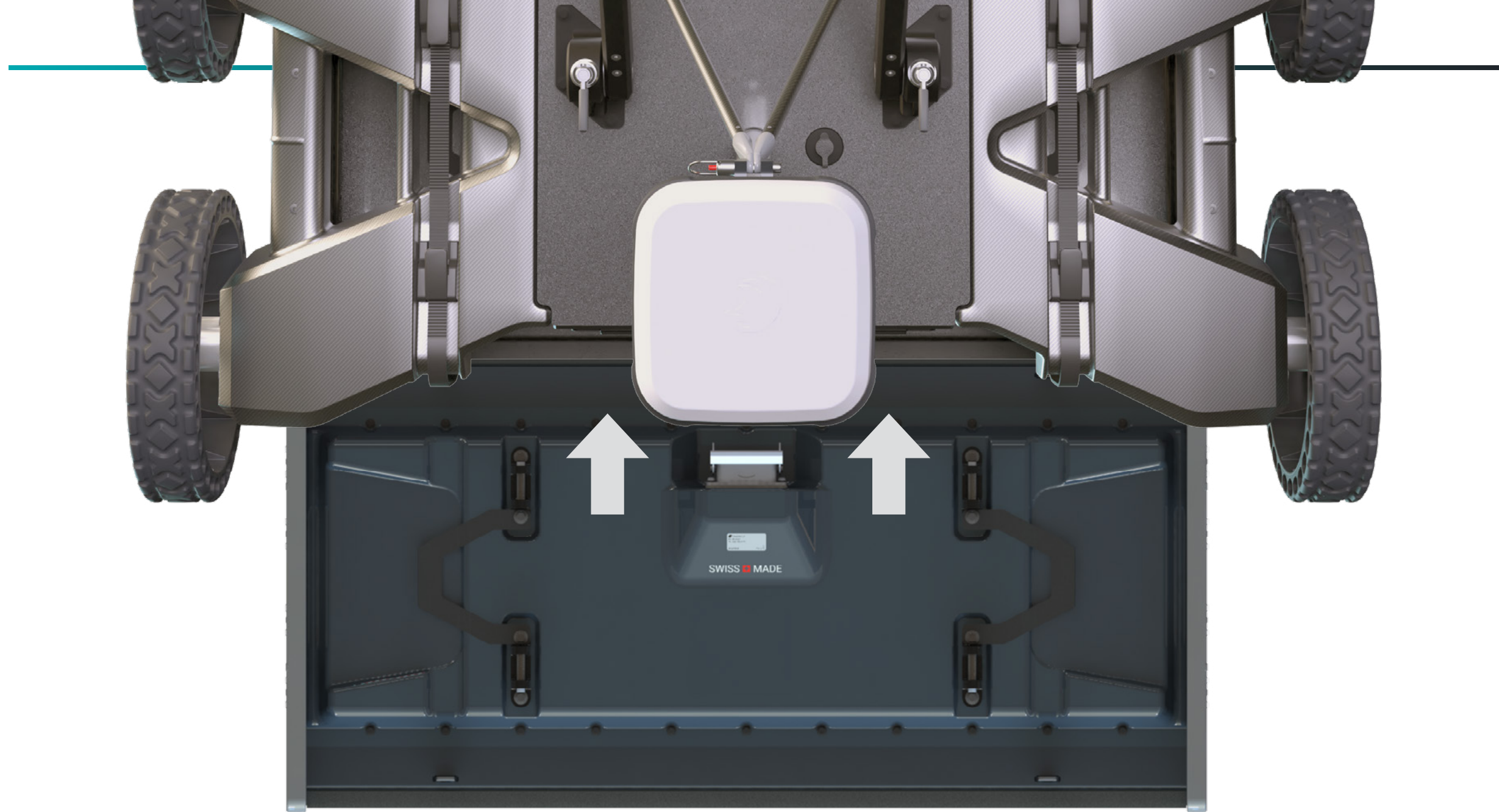
Its smart **modular** concept allows to quickly attach the right GPR array antenna for the job at hand

Powered by **simple** hot-swappable power banks

Fully **foldable** for easy transport



GS9000



Technology

Multichannel Stepped Frequency Radar



Outstanding data quality

Live signal modulation across a wide bandwidth and multiple channels, resulting in perfectly balanced radar imaging.

SWISS  MADE

Compatible GPR array modules

GX1

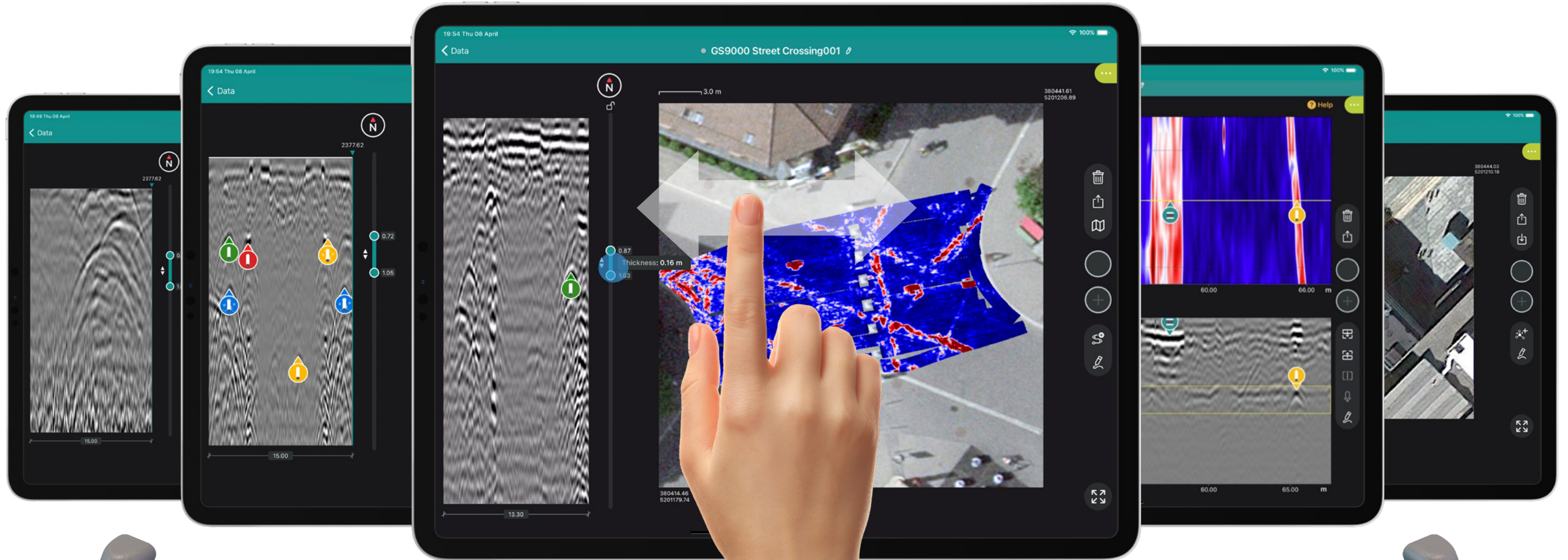
High frequency range

- For structural applications
- Ultra-high resolution in first meter
- Frequency range: 500-3,000 MHz
- 35 + 15 channels, dual polarization
- 2.5cm (1 in) channel spacing

GX2

Low frequency range

- For utilities and geophysics
- Optimal detection in first 2-3 m
- Frequency range: 30-750 MHz
- 83 cm wide swath - 11 channels
- 7.5cm (3 in) channel spacing



Software

FIELD APP

Live georeferenced data visualization



Live tomography

See buried objects forming on a map as you walk over them. No waiting time, all georeferenced.



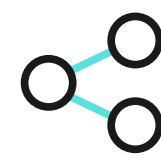
Intuitive data

Complex data presented in an understandable way. All needed tools to interpret and digitize the reality on site.



Simple gestures

Interact with the user interface with simple, familiar gestures. Full control at your fingertips.



Instant sharing

Get your field projects, reports and drawings to your colleagues and clients in just one click.



Software

POST-PROCESS



Manage large projects

Merge multiple field jobs into one same project and see the big picture on a map.



Increase accuracy

Easily apply advanced filters to raw data, and correct topographically for the highest accuracy.



Get more insights

Organize how to see the data with advanced 2D and 3D visualization modes to not miss any detail.



Automated mapping

Ultra-fast algorithms to analyse raw data and create application-specific diagnostic maps



All powered by Workspace

Cloud-connected workflow & services

Collect
Sync
Share



Streamlined workflow

Field data management, post-processing software and sharing options integrated in the same platform



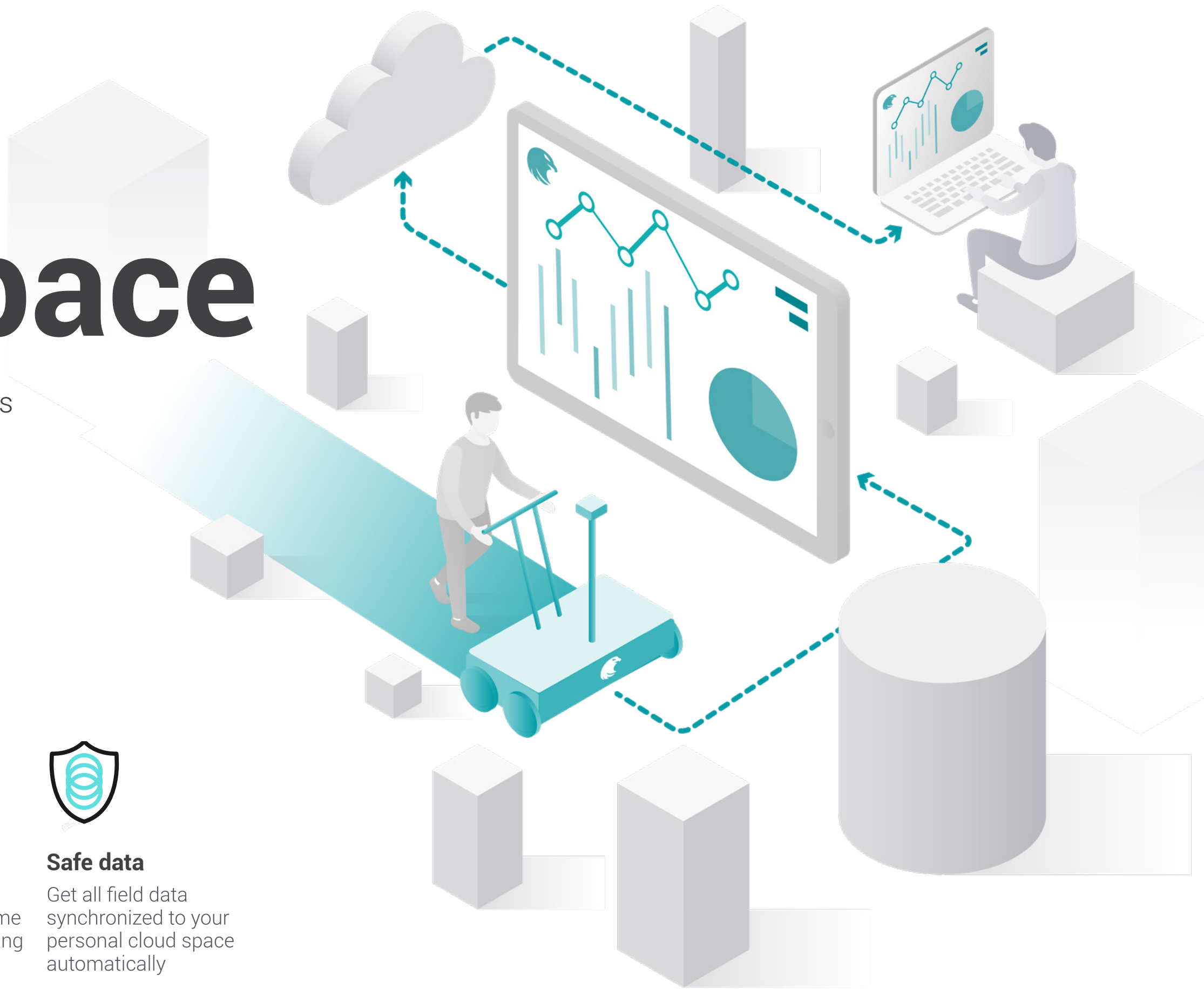
Integrated services

Data conversion tools and services like real-time GNSS corrections running online for maximal convenience



Safe data

Get all field data synchronized to your personal cloud space automatically





GS9000

Applications

GS9000

SUE & Utility mapping

Detection of buried pipes, ducts and cables for safe digging or utility mapping purposes



Road & Bridge inspection

Structural diagnostics and monitoring of bridges, concrete structures and roadways



Geophysical surveys

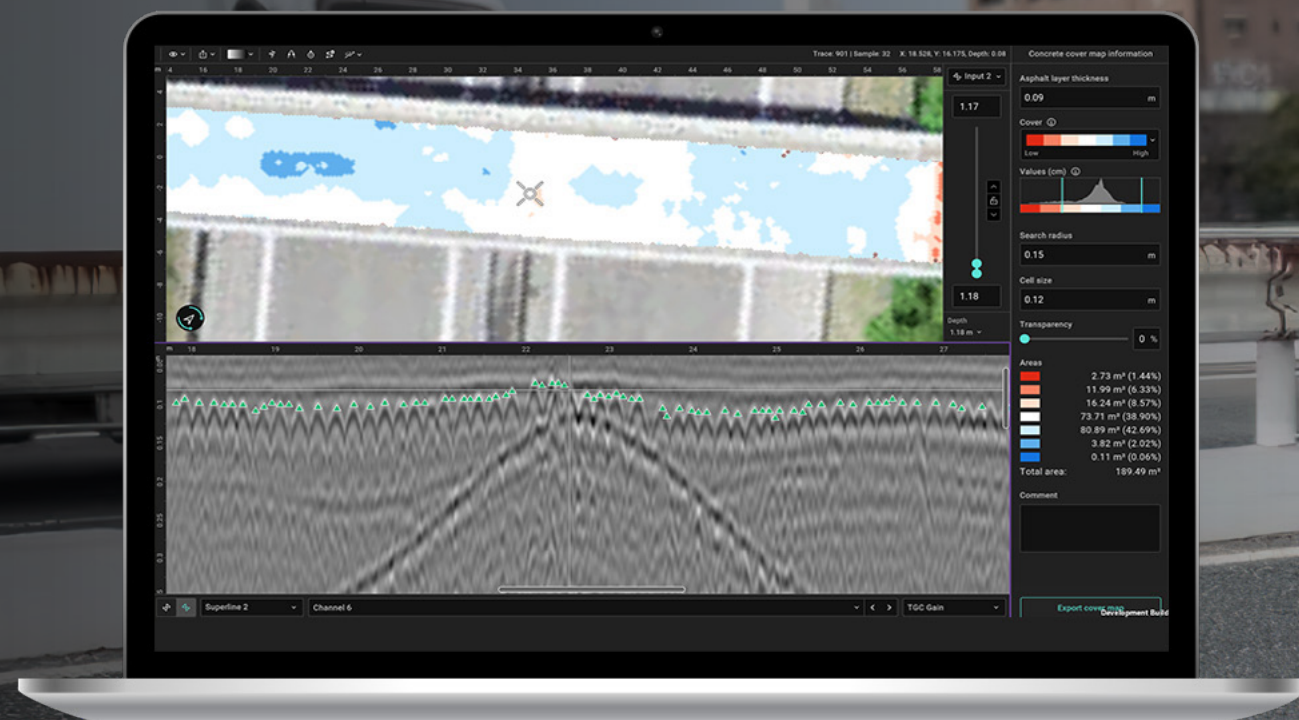
Geotechnical projects and detection of geological anomalies and hazards



Archaeology & Forensic explorations

Prospection of archaeological sites, detection of unexploded elements





GS9000

Combined with GX1

- Bridge condition & deterioration
- Concrete cover & moisture mapping
- Asphalt layer thickness analysis
- Fiber cable detection and mapping



GS9000

Combined with **GX2**

Subsurface utility mapping

Underground cavity detection

Archaeological site prospections

Unexploded ordnance surveys





HW Specs

GS9000



Dimensions

45Kg

72 x 118 x 44 cms

Up to

27,500
scans/m

5,000
points / linear m

GX1 array
module

**500-
3000**
MHz

35 + 15 channels
2.5 cm spacing

GX2 array
module

**30-
750**
MHz

11 channels
7.5 cm spacing



Powered by



45W Power bank

Real-time 3D accuracy



SSR included
NTRIP compatible

1-5 cm

Total station compatible

Wireless



optional USB-C



SW Specs

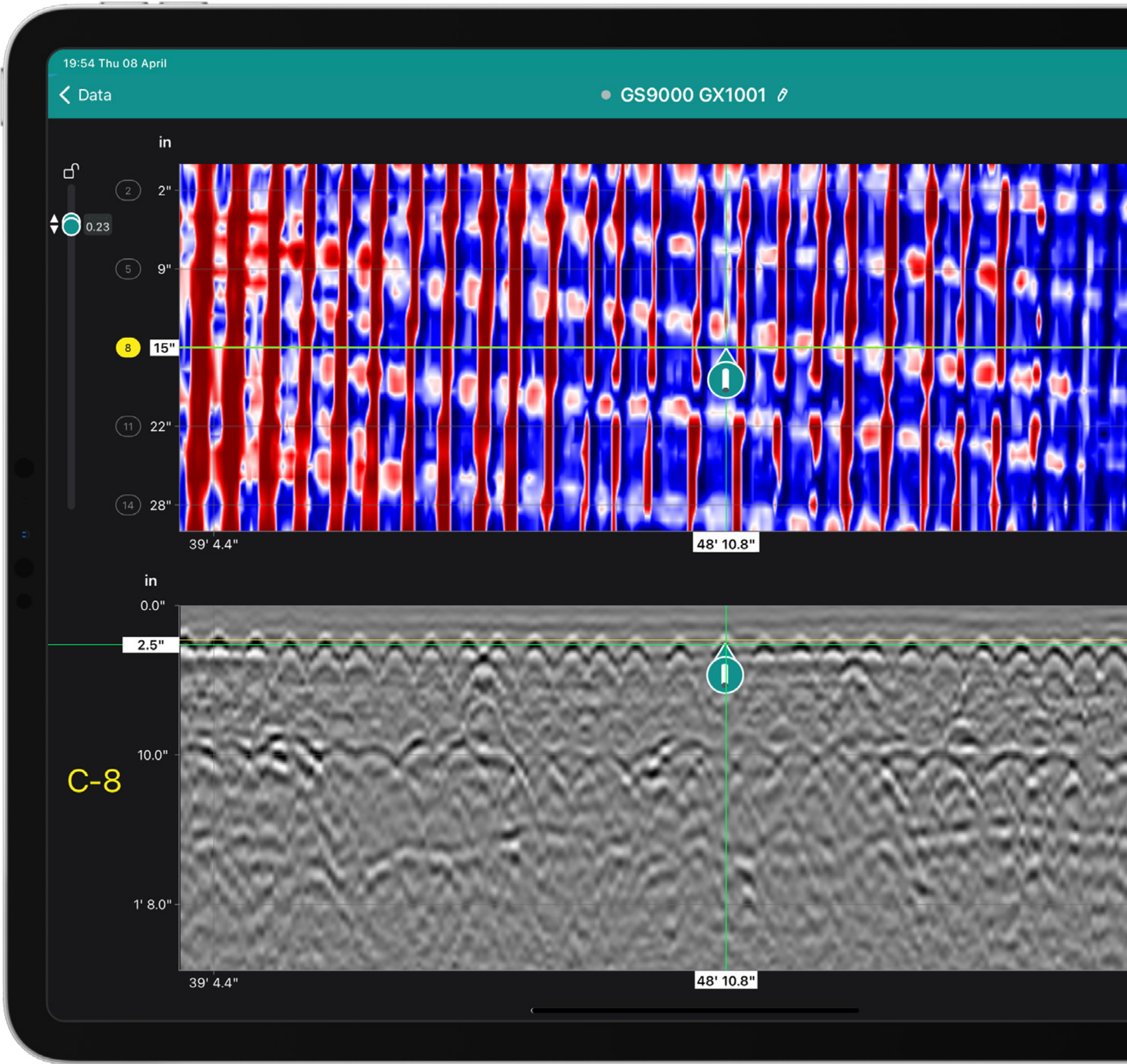


Field software

Field methodology	Field calibration options
Free Path	Odometer calibration
Superline	Velocity by hyperbola fitting
Live Image Processing	Velocity for multiple layers
Time Slice View (geo-referenced)	Cloud services
Hilbert migration	Live data synchronization to Workspace ¹
Depth range adjustment	Permanent data storage
Dynamic Gain / Manual Gain	Raw data export to SEG-Y
Sensitivity filter	Instant CAD / SHP / KML drawing generation
Background removal filter	Instant report generation
Noise cancellation filter	Share via url
Frequency filter	
Live Display Options	Coordinate Systems
Satellite imagery	EPSG global database
GNSS trajectory	Local grid models
CAD object layers	Geoid models
Spectral / seismic color palettes	Languages
On-site annotations	English, Spanish, French, German, Italian, Chinese, Japanese, Korean
Tags	Display unit
Points of interest	Any iPad Pro® with M2 chip ²
Photos	Screen resolution: up to 2732 x 2048 pixels
Voice markers	Storage capacity: up to 2 TB
Markups	
Linework	

Post-processing software

Web version	Local version
Running on Workspace personal cloud space	PC running Windows 10 or superior ³
Special modules	
3D multichannel	
Utility Mapping	
Bridge inspection	

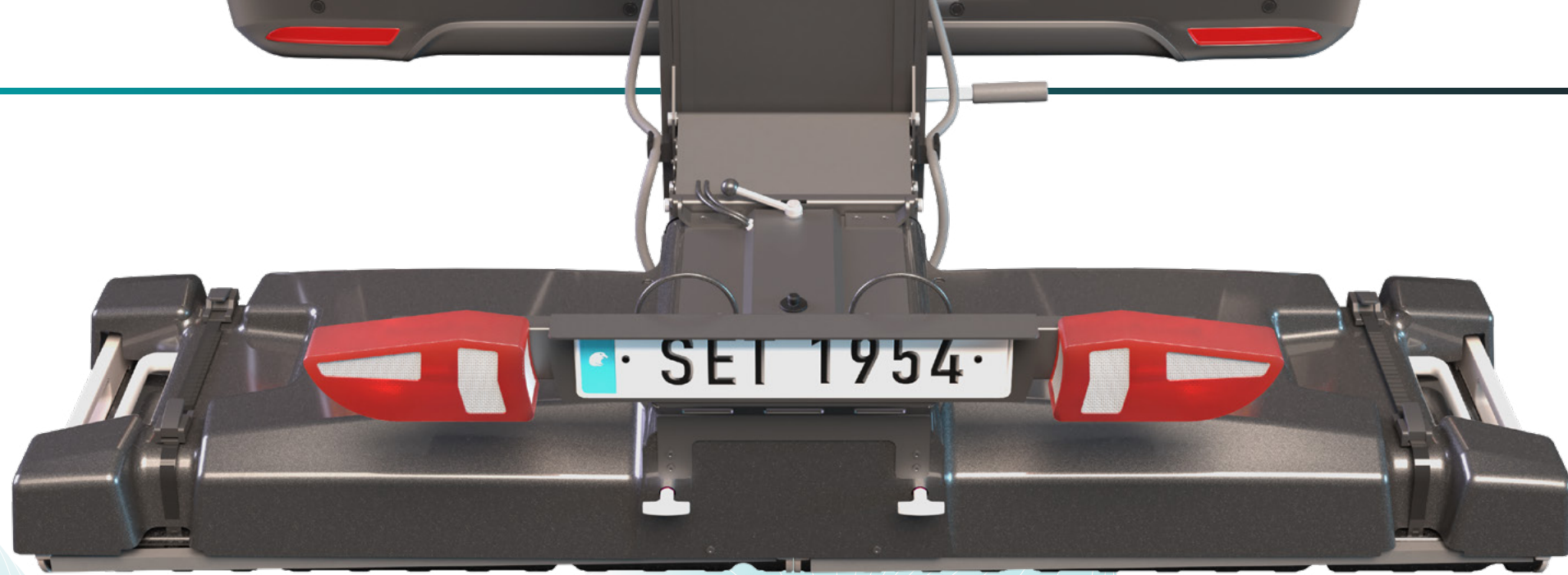


1. Up to 1 TB of personal space per user ID
2. Running an up-to-date iOS version; recommended models: iPad Pro® WiFi + Cellular (2022 model or superior)
3. Recommended: x64 architecture, 1 TB hard drive, 32 GB of RAM memory, Full HD monitor



GM8000

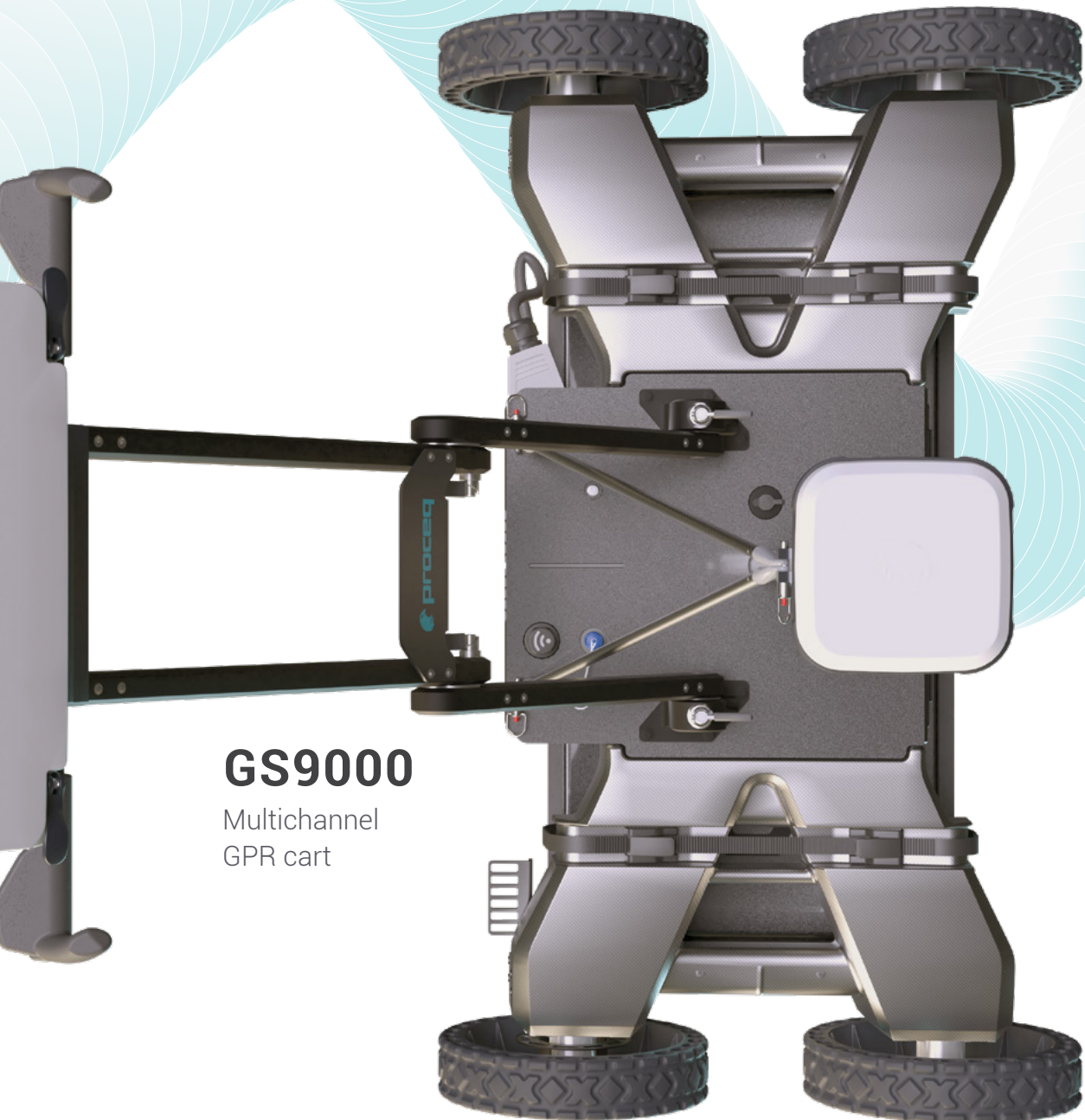
Multichannel
mobile GPR



All dimensions of subsurface mapping

GS9000

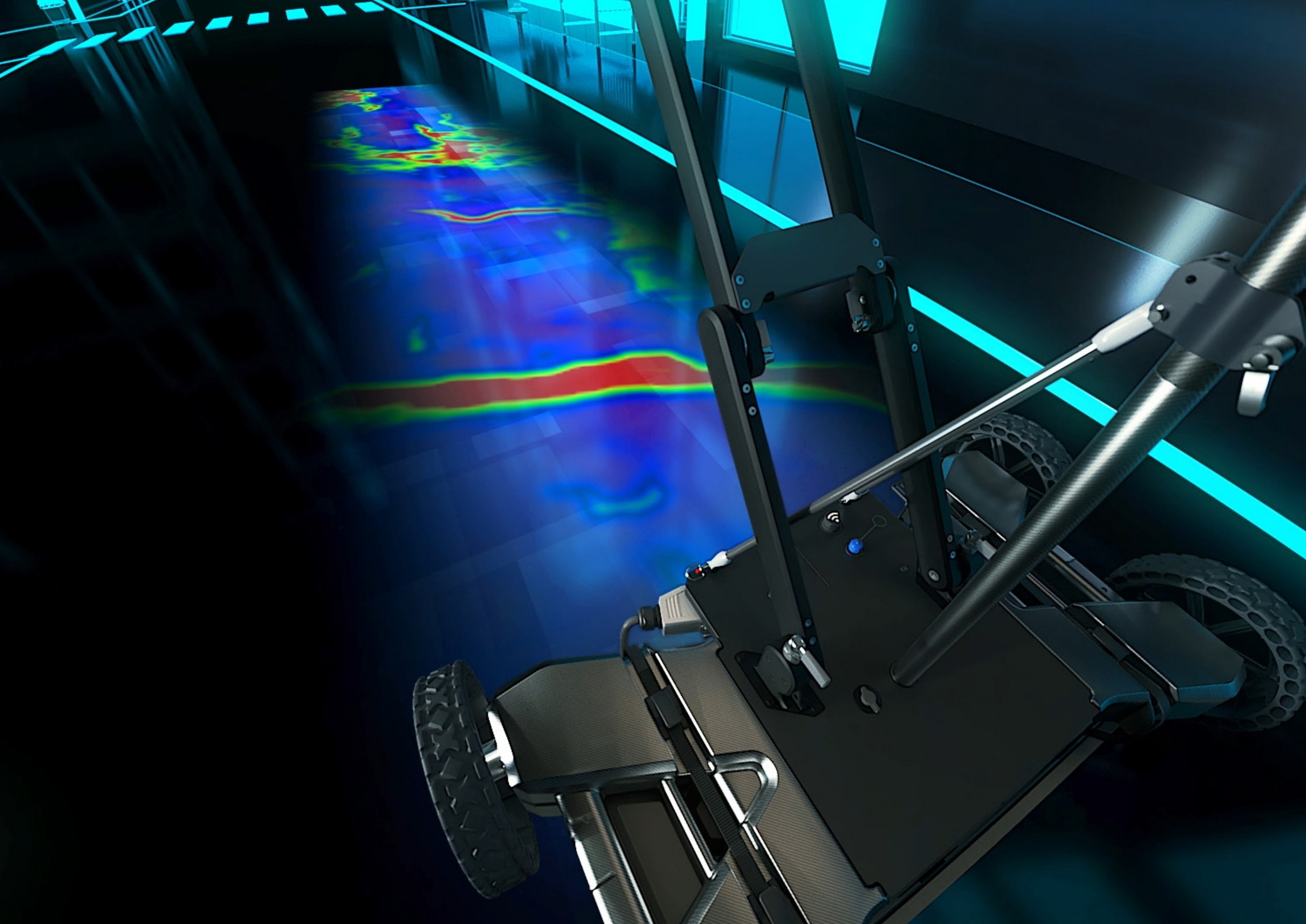
Multichannel
GPR cart



GS8000

Single-channel
GPR cart







Authorized Distributor



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