## **As Built**



### Purpose:

Capture accurate as-built geometry and context so projects can validate construction, update asset

records and feed design changes.

As-built surveys verify that installed track and structures match design, quantify deviations and provide authoritative datasets for rail owners and contractors.

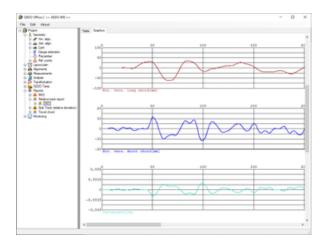
#### Workflow:

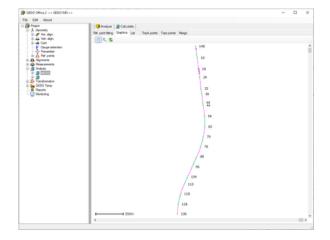
- 1) Establish/Verify control
- 2) Measure track and surroundings
- 3) Process to geometry/sections/reports
- 4) Deliver CAD/BIM and QA results



#### **Deliverables:**

- Absolute track geometry and centreline
- Cross-sections and distances to platforms/structures
- Deviation reports to design
- CAD files and PDFs
- Point clouds/images (where applicable)









# **GEDO Track System**



**Configuration:** Trimble GEDO CE 2.0 trolley/GEDO Electronic Track Bar + control unit + Trimble total station.

#### Method:

Measures left/right rail with gauge and cant to produce absolute track position and deviations to design.

#### When to use:

Small-scale projects, short sections, tie-ins, platforms and locations where trolley access is not practical.

#### **Deliverables:**

- Absolute deviations to design for lift and line
- As-built track geometry
- · Offsets to design,
- PDF/CAD deliverables.
- · Reports from GEDO Office.



**GEDO Track System** 



**GEDO Track System** 



**GEDO Electronic Track Bar** 



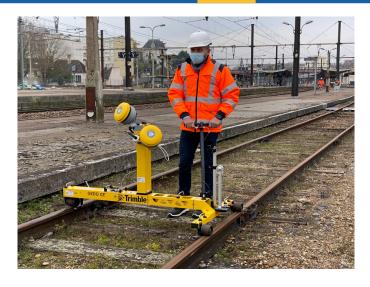
**GEDO Track System** 

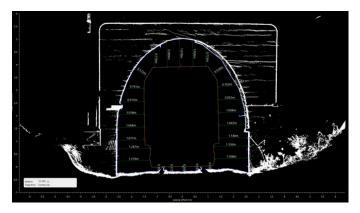


## **GEDO Rec-GX50 System**









**Configuration:** GEDO trolley + GX50 + total station (geodetic referencing).

#### **Method:**

High-resolution scanning with geodetic ties to deliver absolute as-built models, crosssections and clearances.

### **Field Advantages:**

- Absolute positioning via total-station ties (works in tunnels, cuttings, under OLE).
- High-resolution near-track capture: rails, platforms and structures in a single pass.
- Fast setup and walk-and-scan workflow ideal for short possessions/minimal track occupation.
- GEDO Scan Office for envelopes, cross-sections and CAD/BIM outputs.



#### **Deliverables:**

- · Cross-sections
- · Clearance checks
- · As-built point clouds
- CAD/BIM packages.



# **GEDO IMS System**





**GEDO IMS System** 

## **Configuration:**

Single GEDO CE 2.0 trolley + GEDO IMU + control unit + GEDO Profiler or total station for control.

#### Method:

Inertial measurement with periodic control ties for fast corridor as-builts capturing full track geometry with absolute positioning.

### Field advantages:

Inertial measurement with periodic control ties for fast corridor as-builts capturing full track geometry with absolute positioning.

#### **Deliverables:**

- Lift & line correction tables (per chainage)
- Full geometry set: alignment/elevation, gauge, cant, twist (absolute)
- 3D track trajectory line
- · Absolute alignment/elevation, gauge/cant/twist
- QA plots and CAD exports







