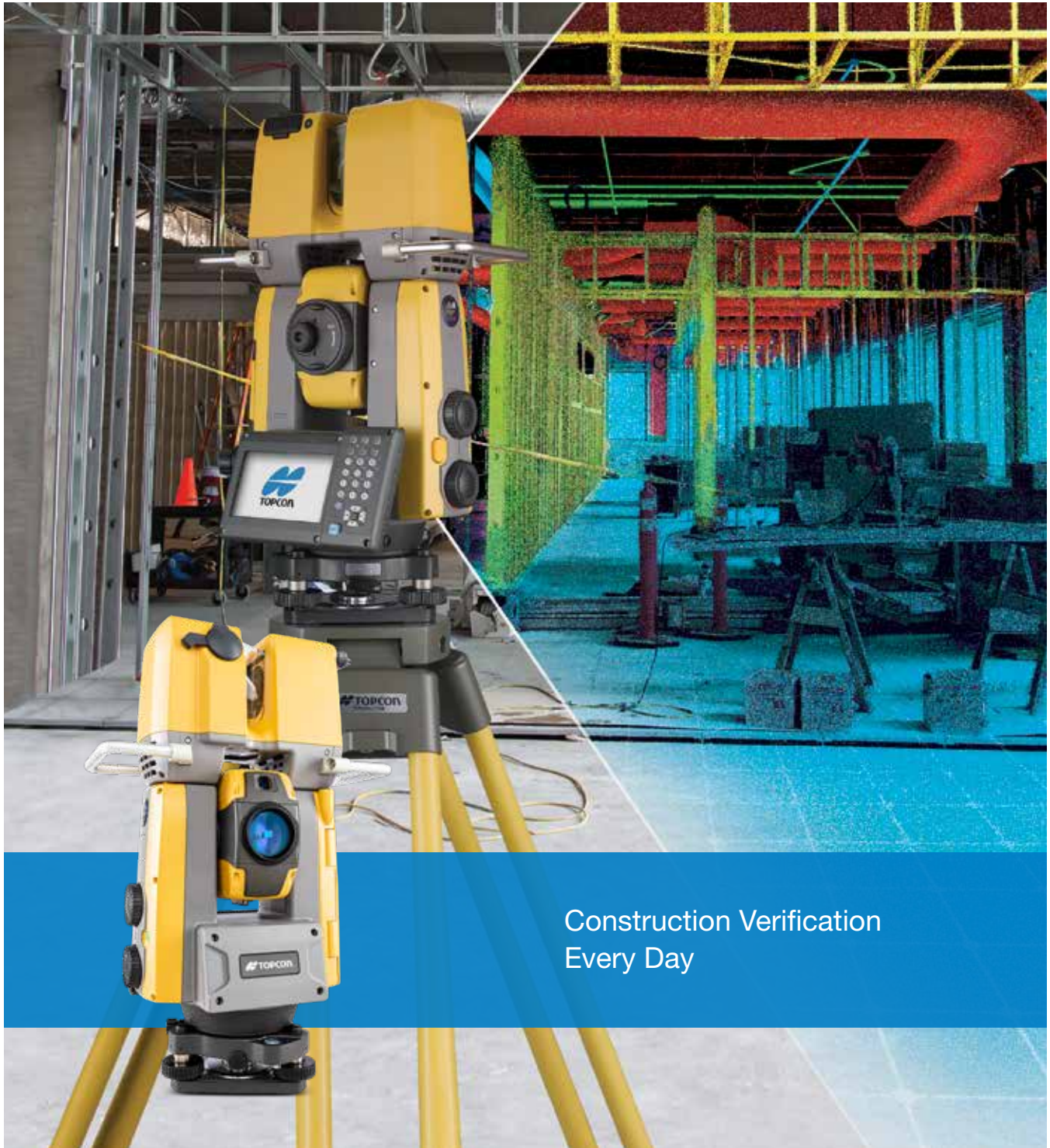


# Real-Time Reality Capture Solution

GTL-1000



Construction Verification  
Every Day

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# Construction Verification Every Day

GTL-1000

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**Quick layout and scanning with a single instrument**

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**Instant point cloud registration**

---

**Proven robotic total station design integrated with a scanner**

---

**Full dome scan and images in seconds**

---

**Scan density tailored to minimize software processing time**

---

**Accurately match point clouds to BIM coordinates**



The GTL-1000 will increase productivity on site by accelerating the construction process and identifying design challenges more efficiently than traditional methods... which will significantly benefit the industry as a whole; reducing cost and program duration...



**Nick Salmons**

Principal Laser Scanning Surveyor, Balfour Beatty Construction

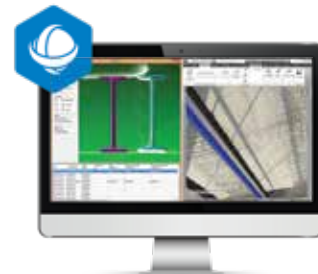


## Point Cloud Processing

### **MAGNET® Collage and Collage Web**

Process, combine, and analyze 3D point clouds from the GTL-1000.

- Effortless point cloud registration process
- Web-based sharing of point clouds and meshes
- Faster processing with true GPU utilization
- Complete integration with construction verification workflows



## Construction Verification

### **ClearEdge3D Verity for Navisworks®**

Verify construction quality in a fraction of the time by comparing as-built scans to BIM design and fabrication models.

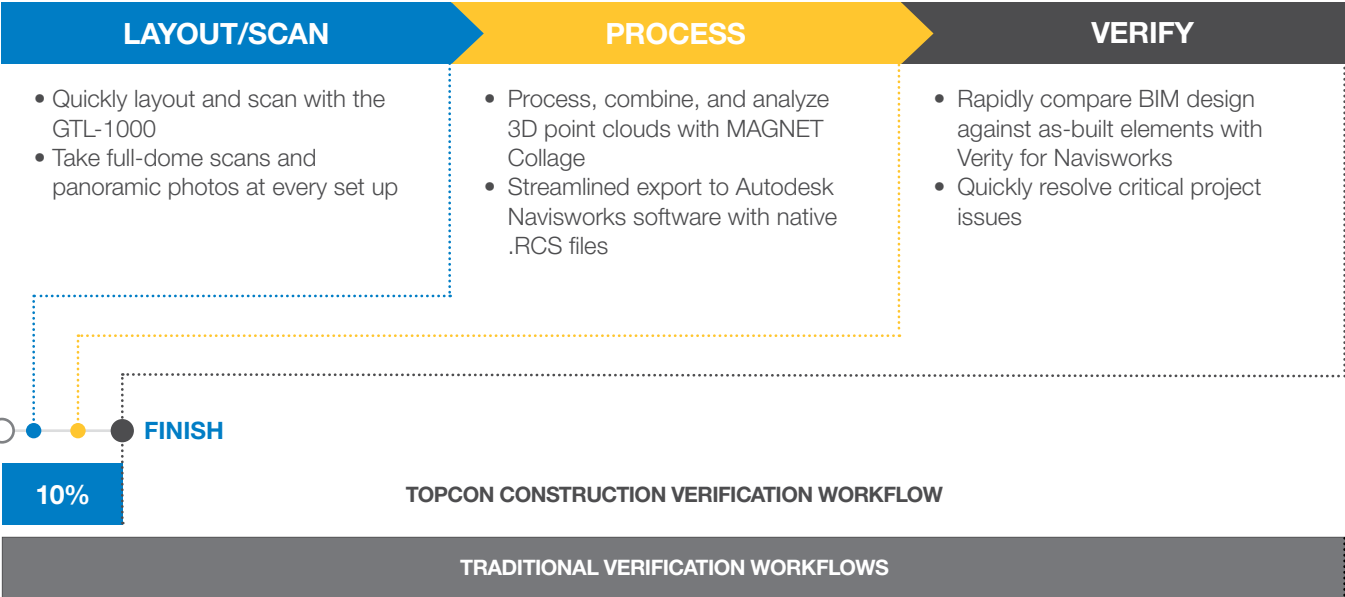
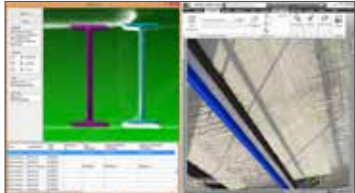
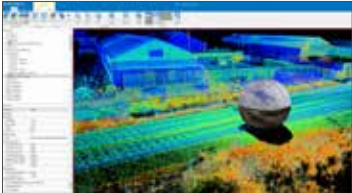
- Reduce risks to budgets and schedules
- Clear indication of whether as-builts are within tolerance
- Increase project profitability by avoiding rework
- Fully integrated with Autodesk® Navisworks
- Quickly update coordination model to as-built conditions





# Simplified Construction Verification Workflows

Our scanning solutions help you work more productively, more efficiently, and keep teams better informed. Together with ClearEdge3D Verity, the simplified verification workflows cover a range of applications including documenting job site as-built conditions and performing construction verification to ensure project accuracy is built 100% to plan.



START

FINISH



## Increase Productivity and Reduce Costs

Current construction industry estimates show rework and delays bring about 20% higher costs versus budget. Traditional spot checking of completed work leaves verification gaps that result in significant cost overruns and lost profits.

### The Topcon real-time construction verification workflow:

- Offers complete scan versus BIM construction verification that's 10 times faster than traditional methods
- Transforms spot checking to a digital real-time reality capture solution to layout, scan, and verify every day
- Provides digital reports with visual heat maps combined with numerical offset data for as-built confirmation

### Applications include:



Mechanical / Plumbing



Structural Steel



Structural Concrete



Plant / Equipment Installation



Layout



Prefabricated / Modular



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