TRIMBLE: Rock the World for 40 Years

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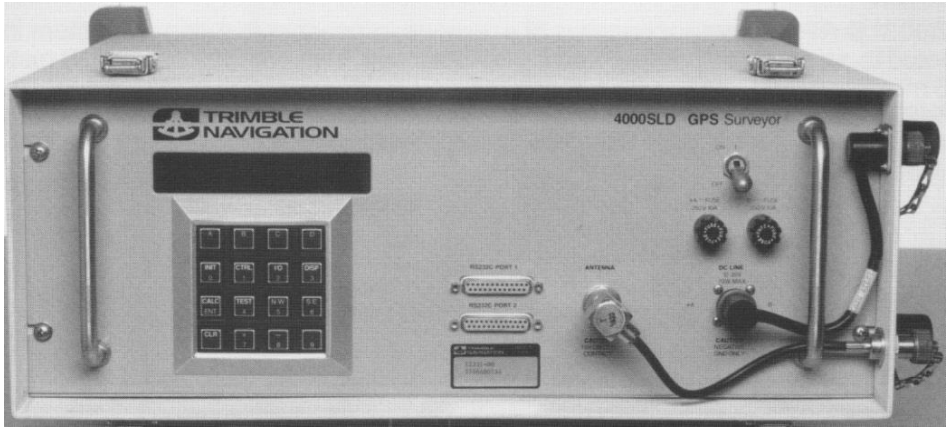
GEODIGITAL UKRAINE 2019

Alexandr Krasovskiy

Regional Manager

First GPS Trimble (1983-1987)



GNSS evolution

1997

1999

2002

2003

2005
2015

2009

2015

2012

Controllers evolution

1992

TDC1

Trimble 4000: first RTK

1995

TDC2

Rugged

1997

TSC1

Round button

2001

TSCe

Windows CE 2003, color

2005

TSC2

Bluetooth

2011

TSC3

GSM modem

2018

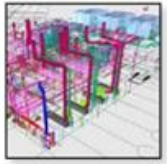
TSC7

7”, Windows 10 Pro

Transforming The Way the World Works


Agriculture


Heavy Civil Construction


Building Construction


Geospatial


Transportation & Logistics


Forestry


Rail


Environmental & Waste


Electric Utilities & Telecommunications


Mining


Water Utilities


Field Service


Oil, Gas & Chemical


OEM, Automotive & Consumer


Government

Trimble

Urban Survey Methods

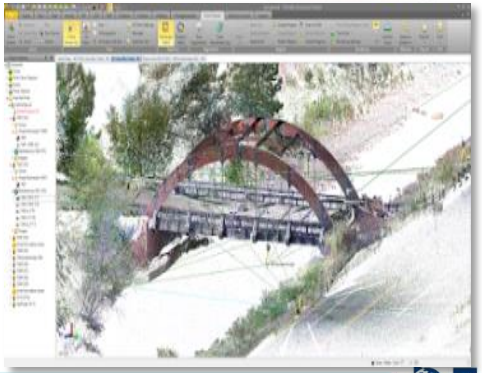
Trimble

Total station with scanner option Trimble SX10

Trimble SX10 Scanning Total Station

AND THEN THERE WAS ONE!

- Innovative
  - True merging of high-speed scanning, enhanced imaging and high accuracy surveying
- Familiar
  - Completely integrated into traditional surveying workflows in the field AND office
- Versatile
  - Expand your business opportunities with a single investment



Trimble MX9

A Mobile Mapping Solution for Large-Scale Scanning and Mapping Missions

- Very high point cloud density with complimentary immersive imagery
- Advanced Trimble GNSS and Inertial technology
- Lightest and most compact premium mobile mapping system
- Simple installation and browser based operation from any smart device
- Compatible with existing Trimble software and workflows
- Enhanced remote support capabilities

The Idea

inpho™ is a photogrammetry software designed to transform

Image Raw Data to Spatial Information

i.e. Point Clouds, Surface Models, Orthophoto Mosaics, Georeferenced Images

Trimble Mixed Reality

20 years in the making…

“Never mistake a clear view for a short distance”

1997, first Trimble augmented reality patent filed
2016, first production-caliber mixed reality

Trimble
TRANSFORMING THE WAY THE WORLD WORKS

Design

Problems:
Stakeholder buy-in. Design misunderstandings. Collaboration. Workflow efficiency from design -> fabrication.

Solution:
Add human context to your design by taking it off the screen and into 3D. Rapidly iterate on 3D design with near real-time sync. Advanced presentation tools enable your clients to walk through and experience their building as if it had already been constructed. Collaborate on the design with the other stakeholders with “holographic telepresence.” Push your design from the office (SketchUp Viewer) to the field (Trimble Connect), remaining in 3D through the process.

Supported Hardware: HoloLens (coming soon: Rift, Vive, Windows Immersive, iOS, Android)

Active Users: 400+ (released November 2016)

Primary Target Market Segments:
- Architecture (SMB & Enterprise)
- Interior Design (Residential & Commercial)
- Kitchen & Bath Renovation
- Retail Layout

Build

Trimble Connect

Windows Developer Awards 2018 — FINALIST COMMERCIAL INNOVATOR OF THE YEAR

Problems:
Project complexity and unqualified workers. Difficult to coordinate complex layered 3D models, clashes, rework, cost/time overruns.

Solution:
Accurately (3-5 cm) overlay all of your BIM data directly on site to identify issues faster, track progress, and ensure quality installs. Reduce rework by adding 3D perspective and layering to coordination, aligning the expectations of all stakeholders. Democratize the data for and provide remote collaborative support to unskilled workers.

Supported Hardware: HoloLens

Active Users: 500+ (released February 2018)

Primary Target Market Segments:

- General Contractors
- Sub Contractors (Mechanical, Electrical, Plumbing, Structural)
- Construction Management
- Engineering Firms

Trimble XR10 with HoloLens 2

- Co-announced 2/24/19 with Microsoft at MWC Barcelona
- Mixed-reality HMD using Microsoft HoloLens 2 components
  - Manufactured and sold exclusively by Trimble
- Hard hat integration to enable mixed reality workflows in safety-controlled environments
  - Construction
  - Oil, Gas, & Chemical
  - Manufacturing
  - Automotive

Trimble

https://www.microsoft.com/en-us/hololens/hardware


XR10
with HoloLens 2
Trimble

Thank you for your attention!

Alexandr Krasovskiy

alexandr_krasovskiy@trimble.com

tel: +375 (29) 7084512