Innovation: The New Age of Customer Exploration
Trimble: Transforming the Way The World Works
$2.5B Revenue | 8,600 Employees | 39 Countries | 60 Years of Innovation | 1,100+ Patents

Agriculture | Building Design, Construction & Operations | Civil Engineering & Construction | Geospatial | Transportation & Logistics

Rail | Water Utilities | Forestry | Electric Utilities | Field Service

A lot more....
Trimble Catalyst: GNSS Accuracy On-Demand

Software based GNSS solution that provides high-accuracy positioning on-demand for your Android device.
Centimeters Everywhere for Everyone!
1993: Trimble achieved centimeters anywhere with a base/rover pair (RTK) but the equipment was expensive and cumbersome

2002: No longer require a base station when working within a network of GNSS reference station (VRS)

2011: Centimeter accuracy anywhere in the world without the need for a base station or reference network (RTX)
“...spatial data is becoming more ubiquitous across both our professional and personal lives. If we are aware or not, spatial context is already a fundamental element in most decision making...”
Centimeters Everywhere for Everyone!

- Make a complex technology **simple**
- Deliver it at an **affordable** price
- With a **convenient** purchase model
- **Easy** to use and understand
Trimble Catalyst

- Software-based GNSS solution designed for embedding into Apps on mobile devices
- Provides subscription-based accuracy on-demand for your mobile device
- Supported by a small, light, high performance antenna
- A new era of geospatial solutions
What Do You Need?

- An Android phone or tablet
  - Your application (e.g. TerraFlex)
  - Trimble Mobile Manager utility app
- Trimble DA1 antenna
- A subscription to use the service
Mobile Application

Catalyst Ready Apps from Trimble and our Partners

These apps integrate directly with Catalyst using our SDK, unlocking more features and adding greater value and functionality to field workflows with Catalyst technology. They use the free Trimble Mobile Manager app to manage the Catalyst subscription to initiate connection to the Catalyst softGNSS engine, but depending on the level of integration receiver settings and setup can be customized. These apps are easily configured to use positions from Trimble Catalyst instead of the phone’s on-board GPS. We welcome other partners interested in integrating your apps with Trimble Catalyst. Download our SDK and start developing today.

3rd Party Location-enabled Apps

Trimble Catalyst can provide high accuracy positioning for most general Android location-enabled apps. Use the free Trimble Mobile Manager app to handle your Catalyst subscription and manage a connection to the Catalyst softGNSS engine. These apps configure your device to use the high accuracy positions from Trimble Catalyst instead of those from your phone’s on-board GPS. Here is a list of some interesting location-enabled apps available on the Play Store that you can use with Trimble Catalyst right now. We welcome partners, developers, and customers to contact us about apps that we’ve missed or that we are not aware of in this list. If you have questions about the features or any of the apps featured on this page, contact the app vendor.
Trimble DA1 Antenna

- DA1 = Digital Antenna One
- Very good multipath performance
- 80% lighter than a smart antenna
- 90x less power than a smart antenna
- L1/L2C GPS, E1 Galileo
- Completely scaleable 1cm – 100cm
Introducing subscription-based, software GNSS

To build Catalyst, we took Trimble’s core GNSS technology that runs on a dedicated hardware chip and transformed it into a software service that can literally run inside an app on your phone. So all you have to do is select a plan and get on-demand accuracy, directly to your mobile device.

1 Meter
monthly subscription
Meter Accuracy in optimal conditions
coverage area

Sub-meter
monthly subscription
30cm-75cm Accuracy in optimal conditions
coverage area

Decimeter
monthly subscription
10cm Accuracy in optimal conditions
coverage area

Precision
monthly subscription
1cm-2cm Accuracy in optimal conditions
coverage area

Pricing and availability varies by region. Contact your distributor for details.
Catalyst Summary

- Technology suits organizations that...
  - Rely on accurate spatial information to create customer and/or business value...AND...prefer to subscribe to accuracy on demand as-a-service rather than invest in a traditional GNSS solution (CAPEX vs. OPEX)

- Because...
  - Easy to use (plugs into current workflow/ecosystem)
  - Flexible (subscribe to the needed accuracy and duration)
  - Cost effective (no capital investment, low barrier to entry)
Municipalities
Utility Companies
Transportation (Ports, Airports, Railways...)
Natural Resources
Catalyst for India
Example Use Cases
Event Management

- **Application:** Mapping of event locations and facilities
- **Region:** New Zealand

**Software:**
Penmap & Collector

**Subscription:**
Precision

**Why Catalyst:**
They have both rented GNSS equipment and used a contractor in the past to do some survey-grade mapping, however saw the Catalyst subscription model as being a more cost effective option for their periodic/seasonal use. The ease of use was also a major factor in adopting the technology. Turn it on and it just works.
Explosive Disposal

- **Application**: Mapping and risk assessment
- **Region**: United Kingdom

**Software**: K-Matic (from KOREC)

**Subscription**: Precision

**Why Catalyst**: When modernising from legacy Trimble GNSS equipment (5700), the *subscription model* that covered the entire solution was the best fit for the business since it avoided a capital expenditure.
Agricultural Infrastructure

- **Application:** Ag infrastructure lifecycle management
- **Region:** United Kingdom

**Software:**
K-Matic (from KOREC)

**Subscription:**
Decimeter

**Why Catalyst:**
Easy to use solution for feasibility, design, construction, and management of farm infrastructure like fencing, tracks, irrigation and other assets. **Subscription model suits seasonal use.**
Address Allocation

- **Application**: Address allocation in developing countries
- **Region**: USA / Liberia

**Software**: Custom

**Subscription**: Meter

**Why Catalyst**: The subscription model is most cost effective for their periodic/project-based use. *Also allows them to easily deploy anywhere in the World and scale up as needed.* A very simple and easy to use real time solution was critical since they employ local non-specialist teams to do the field work.
Traditional Use Cases

CATALYST SUITS ORGANISATIONS THAT REQUIRE HIGH ACCURACY, BUT PREFER A SUBSCRIPTION MODEL OVER A CAPITAL INVESTMENT IN TRADITIONAL GNSS TECHNOLOGY.

- Mapping & GIS Services (UK, Indonesia)
- Local Government (NZ)
- Gas Utility (UK)
- Engineering Consulting (USA, Canada, Australia)
- UAV Services (USA, UK, Australia)
- General Construction (USA)
Non-Traditional Use Cases

THE EASE OF USE AND LOW BARRIER TO ENTRY (NO CAPITAL INVESTMENT) ARE KEY FACTORS IN ENABLING NEW NON-SPECIALIST CUSTOMER GROUPS WITH HIGH ACCURACY SPATIAL CONTEXT.

- Event Management (NZ)
- Explosive Disposal (UK)
- Golf Course Landscaping (USA)
- Irrigation Consulting (USA)
- Trail Management (USA)
- Farm Infrastructure (UK)
- Address Allocation (USA/Liberia)
Trimble Geospatial Technology

Trimble Data Collection and Processing Solutions
CONNECTING THE PHYSICAL AND DIGITAL WORLDS
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