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Introduction to Trimble Enterprise Survey Solutions





- Trimble Land Administration
 Overview
- Field Data Collection Challenges
- Trimble Enterprise Survey Solutions Description
- Technology
- Benefits





Trimble Land Administration



The current survey data collection workflow, from prep through deliverable production, is fraught with <u>inefficiencies</u>.





These same challenges apply to the natural resources sector.

Prep

Field

Quality Control

Deliverables









Getting data/equipment to the right people at the right time

Time consuming process to update changes in the field Multiple iterations required between field and office Manual deliverable production and processing



Trimble Enterprise Survey Solutions deliver three capabilities to increase productivity in the survey workflow.





At the heart of Trimble Enterprise Survey Solutions is Penmap, a hybrid Survey and GIS data collection software.





For Ordnance Survey Northern Ireland we delivered a solution for 35+ survey crews in 12 months delivering a 30% reduction in return trips.



Company



Headquarters: **Belfast, Northern Ireland**



Land and Property Services Division



Collect, manage and edit data for property taxation



Scope

17,335 Map Tiles Managed

22 New workflows introduced

2.5 GBP Project Budget \$ over 5 years



People

100+ Employees



35+ Survey Crews



3 Offices



Trimble Catalyst combines hardware and subscription services to deliver a flexible solution for data collection.

- Hardware
 - Trimble Catalyst Antenna
 - Android Smartphone Device
- Monthly Subscriptions
 - Trimble Catalyst accuracy level
 - meter, sub-meter, decimeter, or centimeter
 - Catalyst enabled software
 - Penmap, Terraflex, ESRI Collector, SDK
- Benefits: low cost, flexible, scalable





Trimble Enterprise Survey Solutions help organizations achieve their survey productivity goals.

- Trimble Land Administration's focus on <u>field data collection</u> workflows enables us to deliver solutions that better fit your organization.
- Trimble Geospatial's leadership in hardware and software enable us to deliver <u>integrated</u> positioning solutions.
- Trimble Inc.'s 40 years of experience enable us to deliver innovative solutions which transform industries.





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Penmap is designed to streamline the data collection process by increasing productivity for each job, in both the field and office.

- Reducing return trips
 - Real time verification in the field
 - Incorporating reference data for context
- Less time spent in the field
 - Streamlining data capture by standardizing
 - Rugged, reliable equipment you can trust
 - Less time spent in the office validating field work
 - Improved data transfer
 - Validation wizard to confirm geometries, accuracies and attributes





Trimble Enterprise Survey Solutions deliver increased productivity for each survey job, in the field and office.

Delivered Capability

- Reference data available
- Real time verification in the field
- Improved data transfer
- GIS query and stakeout
- Validation and automated QA



- Consistent data format for import and export
- Increased automation of deliverables
- Developed configurations for 3rd party hardware
- Combined Survey and GIS workflows into one solution

Increased productivity on each job

Fewer return trips (30% reduction)

Less time spent in the field on each trip

Less time spent in the office validating field work

17% productivity savings



Trimble Catalyst - Accuracy









Catalyst Decimeter: IP-delivered corrections coverage area (10 cm)

