TECHNICAL GUIDE

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Cornerstone mapping pty ltd

SMARTsurvey

FIELD DATA COLLECTION & VERIFICATION

Introduction

SmartSurvey is an android-based Field Data Collection application that completely replaces paper-based surveys.
SmartSurvey eliminates trying to make sense of hundreds of sheets of paper that have just come from site and have to be digitized.
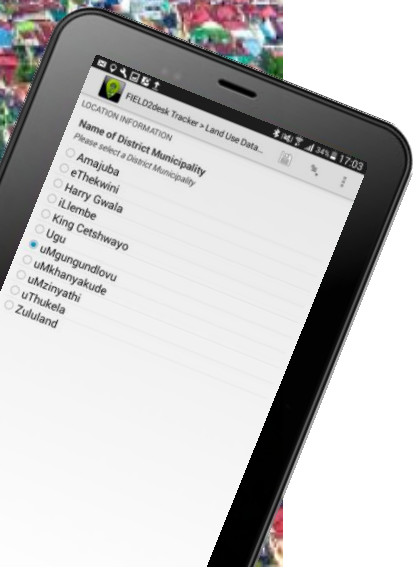
The SmartSurvey application is built to wrap around custom coded forms. These are smart-coded with skip-logic, drop-menus, cascading selects and automatic validation.
The form is built from scratch to suit your specific project need.

SmartSurvey is ideal for collection of field data in low or no signal areas as it is designed to work completely offline. Simply upload captured data once the device is back in a good signal or wifi zone.

SmartSurvey is not only excellent for data capturing exercises, but also verification of previously captured data by recalling and displaying snapshots of your database on your device – online or offline!

Finding your location in relation to your project area is easy with SmartSurveys ability to display a custom prepared offline map for your project area. Your device GPS remains active even when offline.

Features

SmartSurvey is packed with useful features such as :

- Ability to operate Offline or Online :
    - Areas with no signal will not prevent your project from being a success.
    - SmartSurvey needs an internet connection only when downloading a form (during initial setup) and when uploading data
- Customization :
    - Data Collection Forms and Offline maps are fully customizable to your suit project requirements
- Positioning :
    - Using the custom (georeferenced) offline map and the built-in GPS of the device, the user is able to position themselves in relation to the project boundary
    - This works seamlessly whether there is internet connectivity or not.
- Live feed to desktop :
    - Data sent from the device will stream directly to your desktop into Excel or Power BI*
    - Your location based data can be fed into a live map*
- Smart Data Capture:
    - Forms are built with skip-logic, drop downs, multiple and single selection to display only the relevant questions, reduce errors and speed up the process.
- Smart Data Verification :
    - Snapshots of your database can be linked to the data collection form
    - The user recalls data using any key (asset number, id number, erf number etc) and is able to verify or edit the accuracy and currency of the data while on-site.

* Pro version

Outputs

SmartSurvey is simple to use, yet extremely advanced and offers the following :

- GPS Point :
    - The user is able to capture GPS points. This can be integrated into an online map, Google Earth or spreadsheet.
    - This works seamlessly whether there is internet connectivity or not and is accurate down to ±1,5m.
- Polylines :
    - Useful for capturing routes of any type
- Polygons :
    - The user can pick up boundary data (polygon) by walking the perimeter of the property
- Photos / Video / Sound :
    - Multiple photos, video clips and sound can be captured on-site and saved as part of the same questionnaire
- Draw Skecthes :
    - SmartSurvey allows the user to draw a sketch of the site for clarity
- Collect Signatures :
    - Users can capture respondent signatures while conducting the interview. Respondent signs on the screen. This is added to that specific questionnaire.
- Scan Barcodes :
    - The user is able to scan barcodes or QR codes. This is useful for tracking stock or tracking assets

* Pro version

Outputs

SmartSurvey is simple to use, yet extremely advanced and offers the following :

- Offline Maps :
    - Custom offline maps can be created for the project area.
    - The built-in GPS on the device operates offline and shows its position on the map, thereby enabling the user to accurately position themselves.
- Data Verification :
    - The user can call up specific asset data attributes on-screen while on-site for verification or updating

* Pro version

Backend

Data sent from the device on-site is sent to your desktop via a secure cloud platform.

We make use of the industry leaders in Cloud services such as IBM, Google, Digital Ocean and AWS.

We build the data gateway to enable a seamless flow from the Cloud to your desktop.

Live Data Feed

Once the data is uploaded from the device, it is fed to a desktop computer of your choice. Here it is processed into near real-time dashboards* or maps*.

Alternatively, the data can be fed near real-time into a spreadsheet format

Your data is immediately available for analysis, reporting or visualization.

* Pro version

Contact Us

Feel free to contact us with any queries or for more information

We will be pleased to assess your project and give you a quote.

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CONTACT US

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