

Implement Efficient Data Capture & Update with SuperGIS Mobile Apps

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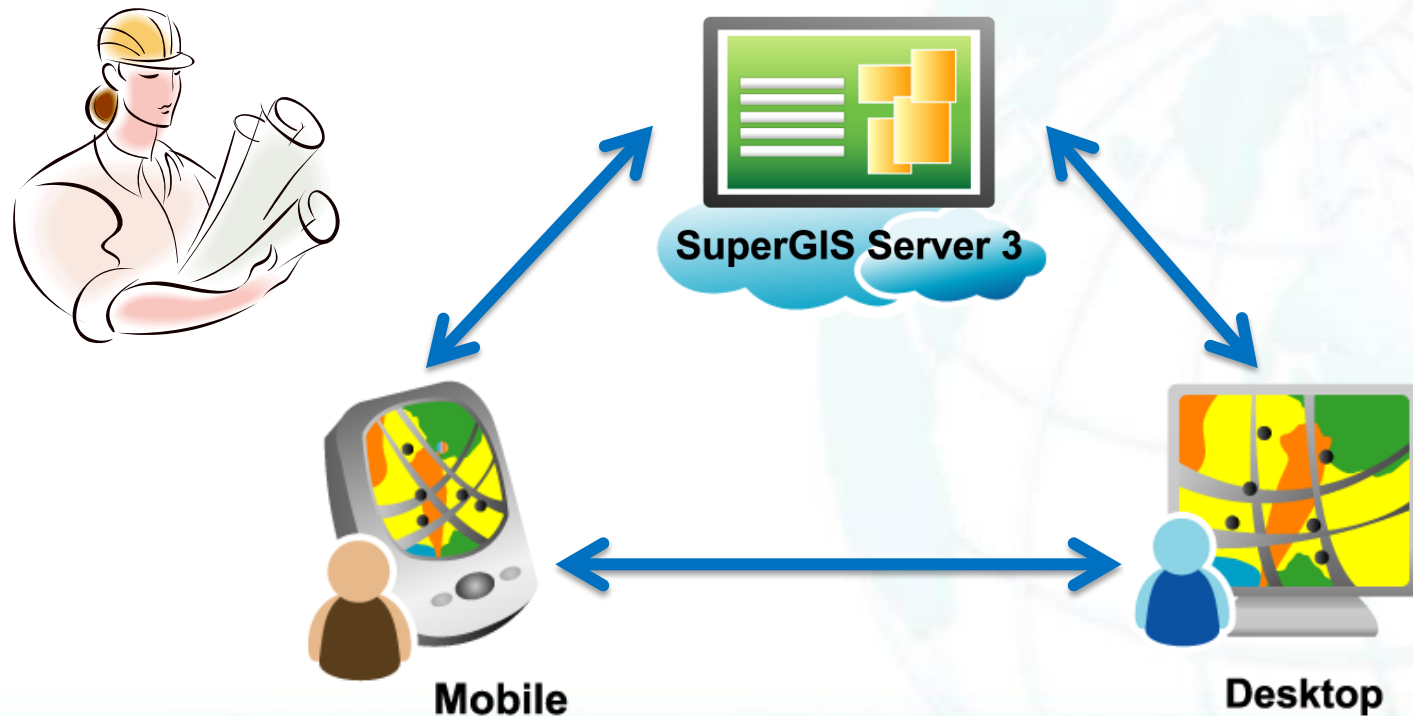


Syllubas

- In this webinar you will learn:
 - Surveying with Android/iOS-powered SuperSurv
 - Efficient field operations using off-line editing tools
 - Rapid data query and measurement
 - Precise spatial guiding tools for your destinations
 - Real-time data synchronization with SuperGIS Server

Mobile GIS Application


- A lightweight GIS system on you mobile devices.
- Specifically made for **field works**.



Product Roadmap

SuperGIS Products






Server GIS

- SuperGIS Server
- SuperGIS 3D Earth Server
- SuperGIS Network Server
- SuperWebGIS

Cloud GIS

- SuperGIS Online
- Data Services
- Address Locator
- Excel Add-in
- Statistical API




Desktop GIS

SuperGIS Desktop


- Spatial
- 3D
- Network
- 67-97 CTS (TW only)
- CCTS (TW only)
- Spatial Statistical
- Biodiversity
- Topology

Mobile GIS




- SuperGIS Mobile Engine
- SuperPad
- SuperField
- SuperSurv (Android/iOS)**
- SuperVeyor (Hardware bundle)

Solution



- SuperGIS Mobile Tour (Android)
- Mobile Cadastral GIS (TW only)



Developer GIS

SuperGIS Engine SuperNetObjects

- Network
- Biodiversity
- Spatial Statistical
- Spatial
- 3D

SuperSurv

- A Mobile GIS application perfectly made for **field data collection**
- Offline/Online Data Editing
 - Global Coordinate System Support
 - Fully compatible with other SuperGIS product lines
- Available for **Android** and **iOS**-powered devices



Survey With SuperSurv

- Efficiently collect point, line, polygon data and support **Offline/Online Editing**
- Display map data with **global coordinate system** settings
- Switch the basemap between **Map Cache File, Online Map and Web Map Service**
- Create and manage waypoints for advance **spatial guiding**
- **Query and measurement** with GIS tools



Demonstration Cases

- Three case studies of the field survey will be demonstrated in today's webinar:
 - Biking Route Site Survey
 - ✓ Offline Polyline survey
 - Public Facility Management
 - ✓ Offline Point survey
 - Agricultural Field Survey
 - ✓ Online Multipolygon survey



Case Study 1

Biking Route Site Survey with SuperSurv

A Biking Route Site Survey

- Scenario

- To conduct **biking route site survey** for the weekend, some available routes have to be tested first.

- SuperSurv in field route survey

- A survey project with Online Base Map
- Polyline Layer with customized attribute
- Automatically collecting data with GPS
- Track log recording for report

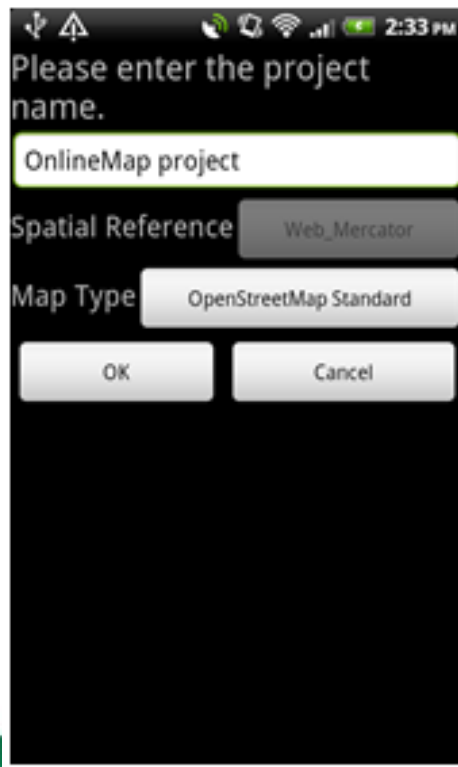
#01 Start With SuperSurv

- **Setting Project**

- Create a project environment before the survey is very important
- To decide the spatial reference system and the purpose of your project, you may create:
 - ✓ **New Project** with optimized spatial reference
 - ✓ **Online Map Tool Project** with OpenStreetMap

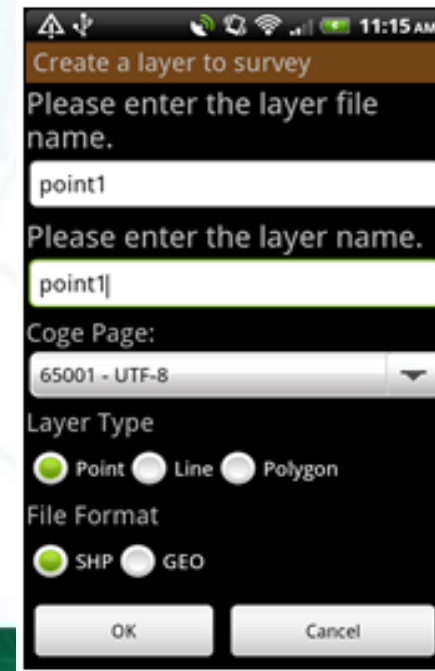
#02 Online Map Tool Project

- Name the survey project
- Select the background map style



#03 Create Line Layer

- Create a new Polyline layer
 - Note about the Code
 - The layer files will be stored in the project folder and will be automatically saved



Create a layer to survey

Please enter the layer file name.

point1

Please enter the layer name.

point1

Coge Page:

65001 - UTF-8

Layer Type

Point Line Polygon

File Format

SHP GEO

OK Cancel

#04 Form Customization

- Customization of Attribute table
 - Manage and customize of the attribute table easily



Field name	Field property	
Note		+
ID	Integer	>
NAME	String / Length: 20	>
MEMO	String / Length: 50	>
PHOTO	Photo	>
DATE	YYYY/MM/DD	>
TIME	24 HR	>
X	LocationXValue	>

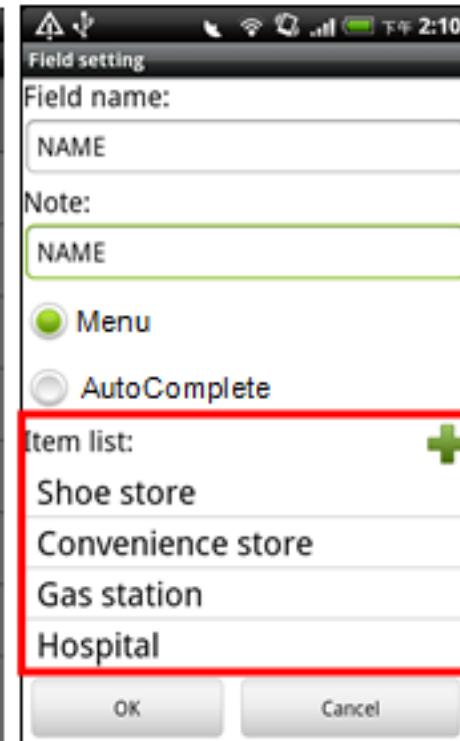
OK Cancel



Create a new field

- Text
- Date
- Time
- Photo
- GPS
- Numeric
- Menu

Cancel



Field setting

Field name: NAME

Note: NAME

Menu

AutoComplete

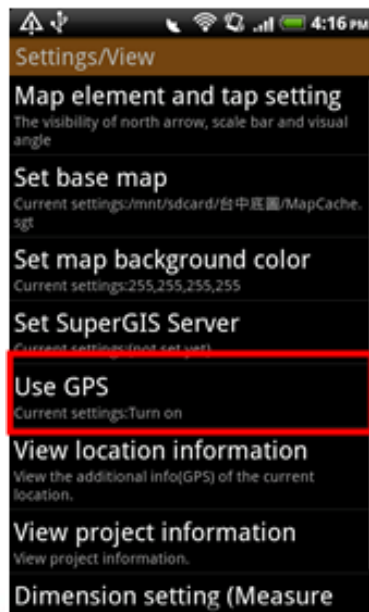
Item list: +

- Shoe store
- Convenience store
- Gas station
- Hospital

OK Cancel

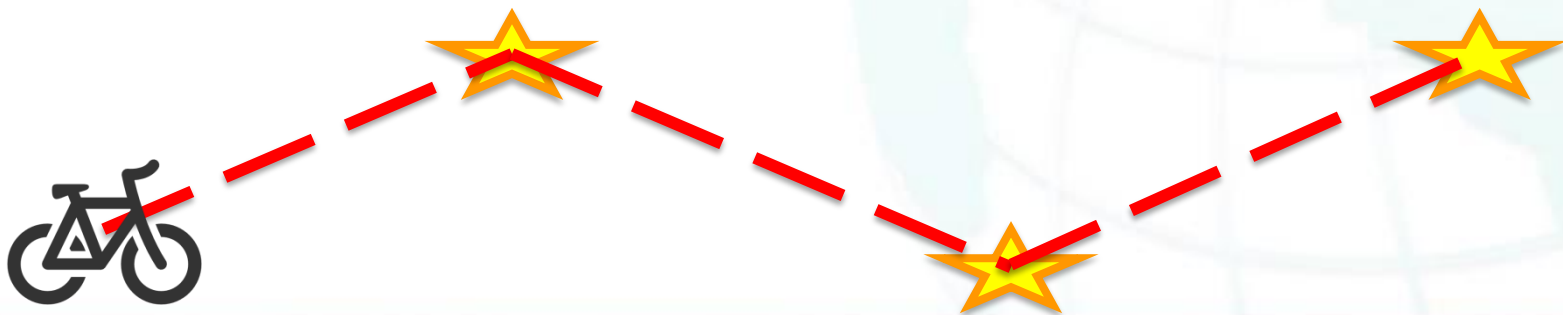
#05 Automatic Data Collection

- To collect data with ease:
 - Turn on the layer you want to edit.
 - Make sure GPS has been turned ON.
 - Collect features via GPS automatically.



#06 Record your Track log

- Track recording for your report
 - Track Recording function
 - Record the track of GPS and saved as point layer (*.kml) and line layer (*.shp)
 - The file could be found in the Track folder of the project folder



Reviews

- A survey project with online base map
- Polyline data collection with GPS device
- Track log recording and management



Case Study 2

Public Facilities Inventory with SuperSurv

Facility Management

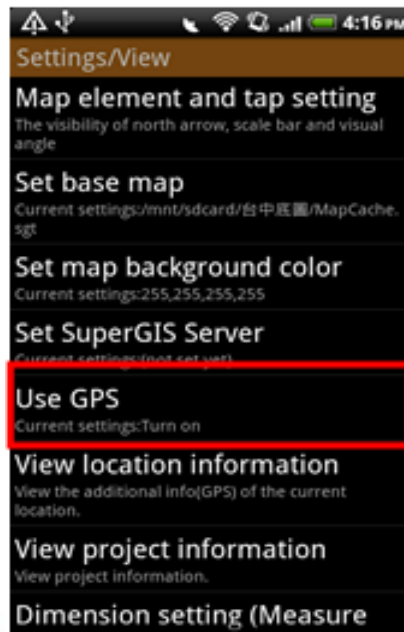
- Scenario
 - **Public Facility Management** of urban recreation area
 - Status of the lampposts and trees should be checked of every park
- SuperSurv in field point survey
 - To continue the former surveyor's work
 - Data collection with GPS and camera
 - Spatial Guiding tools for destination

#01 Continue the Former Work

- Switching between different projects
- Build up your own base map
 - **Map Cache File supported**
 - **Both .stc & .sgt created by SuperGIS Desktop**
- Bring in the former survey data
 - **All the layer files in project folder**
 - **Change the symbol style by layer settings**

#02 Data Collection

- Data collection by manual or GPS
 - Tap on the screen of the mobile device to decide the points or nodes
 - Collect features via GPS automatically



#03 Geo-tagging

- Take photos with camera in field survey
 - Recording the environment on or around the survey point
 - Recording the coordinate information to EXIF information of the photo

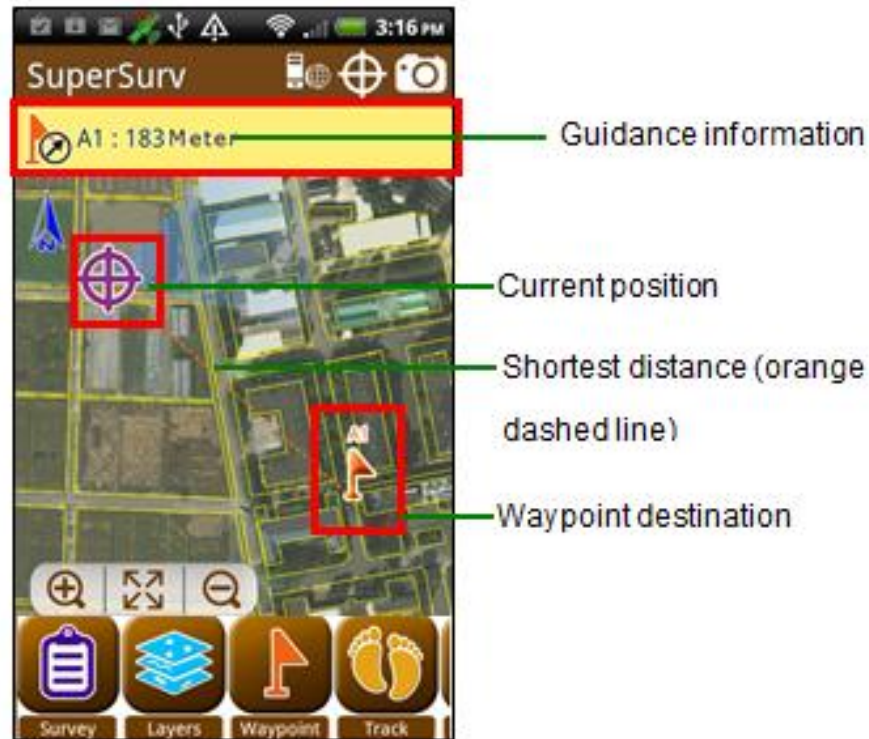


#04 Spatial Guiding

- **Ways to your destination**
 - **Adding waypoints on your screen**
 - ✓ Manually tapping
 - ✓ Add by GPS
 - ✓ Import waypoints from file
 - **Pan to the specific waypoint**
 - **Waypoint guidance**
 - **Augmented Reality (AR)**

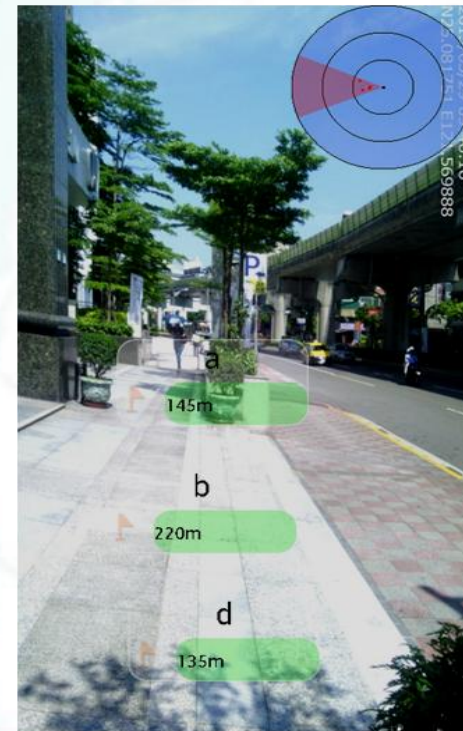
#04 Spatial Guiding

- Looking for direction and distance?
 - Using Guide tool and choose your target waypoint on the list



#04 Spatial Guiding

- Activate Augmented Reality (AR) in Camera
 - Waypoints within 700 meters from your position will show up as tags, allowing you to vividly observe points of interests



Reviews

- Continue the previous field survey
- Layer management and settings
- Data and photo collection with GPS device
- Spatial guiding for direction and distance



Case Study 3

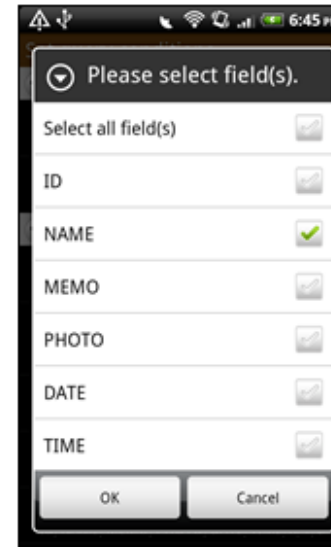
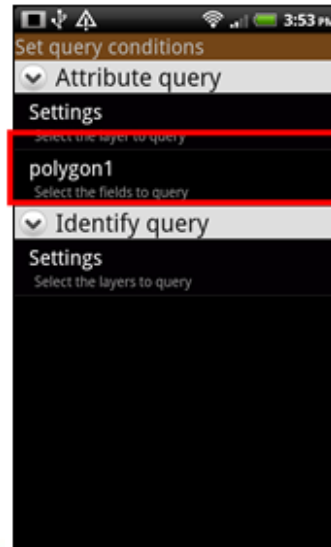
Agricultural Field Survey with SuperSurv

Agricultural Field Survey

- Scenario
 - An investigation of Agricultural region **land use and soil condition** in Southern Taiwan
- SuperSurv in field polygon survey
 - Perform an online field survey by sending the field data back to SuperGIS Server
 - Switch editing between different layer files
 - On-screen query and measurement

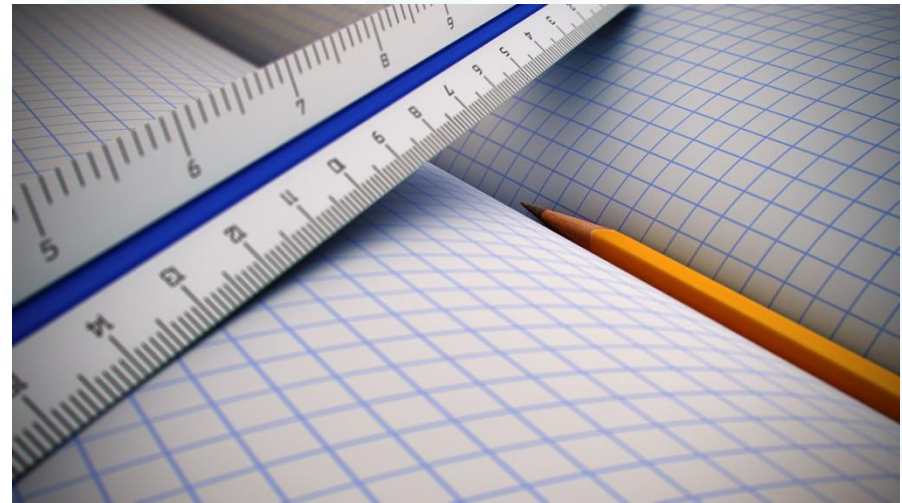
#01 Quick Data Query

- To do a quick Data Query in SuperSurv
 - Set your target layer and field in **Query Settings** first.
- Two ways to query the data
 - **Attribute Query**
 - **Identify Query**



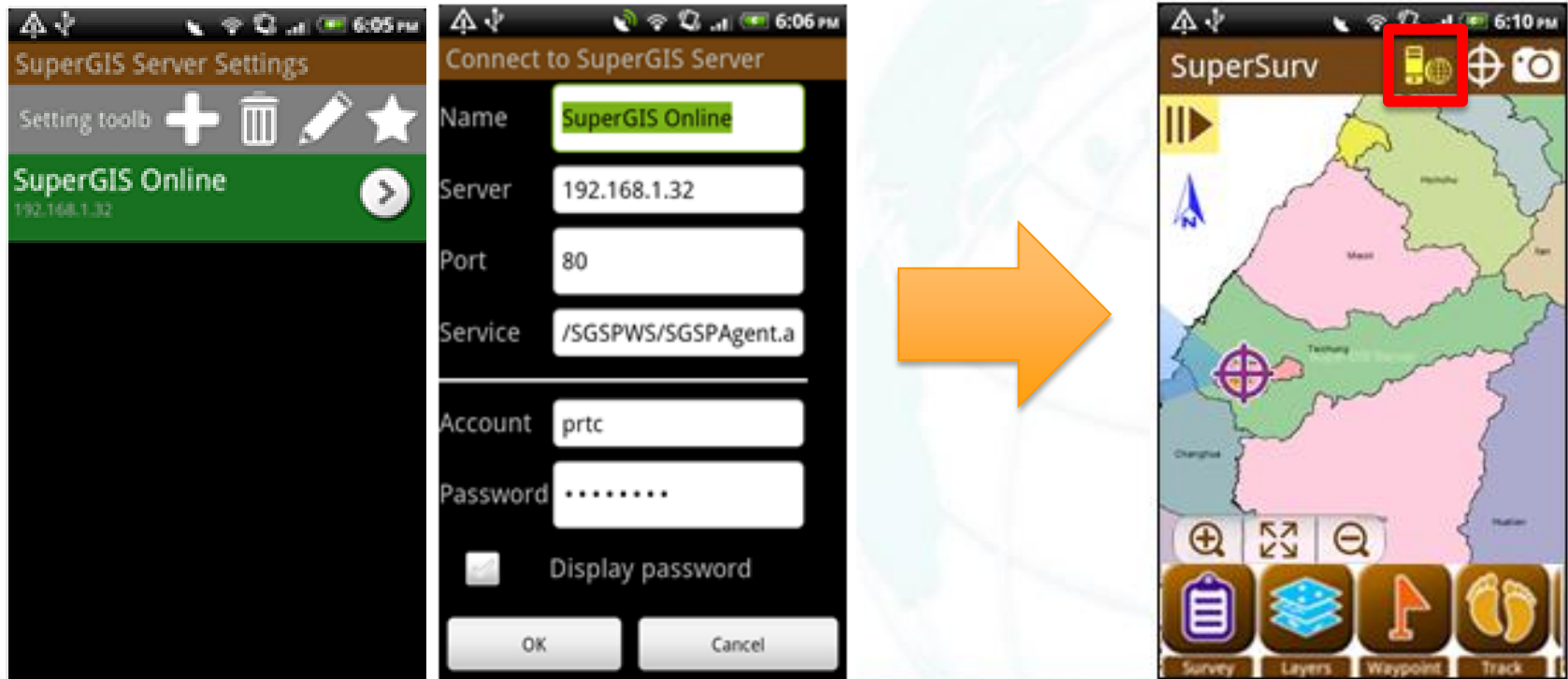
#02 On-Screen Measurement

- Switch between metric units and imperial units in dimension settings
- Measurement tools in SuperSurv
 - Length Measurement
 - Area Measurement
 - Feature Measurement



#03 Online Editing Settings

- Getting start with Online Editing
 - Setup the map service built by **SuperGIS Server** in system settings



#04 Online Feature Editing

- Sync your survey data to server...
 - Same way of editing as off-line
 - Synchronize as checking



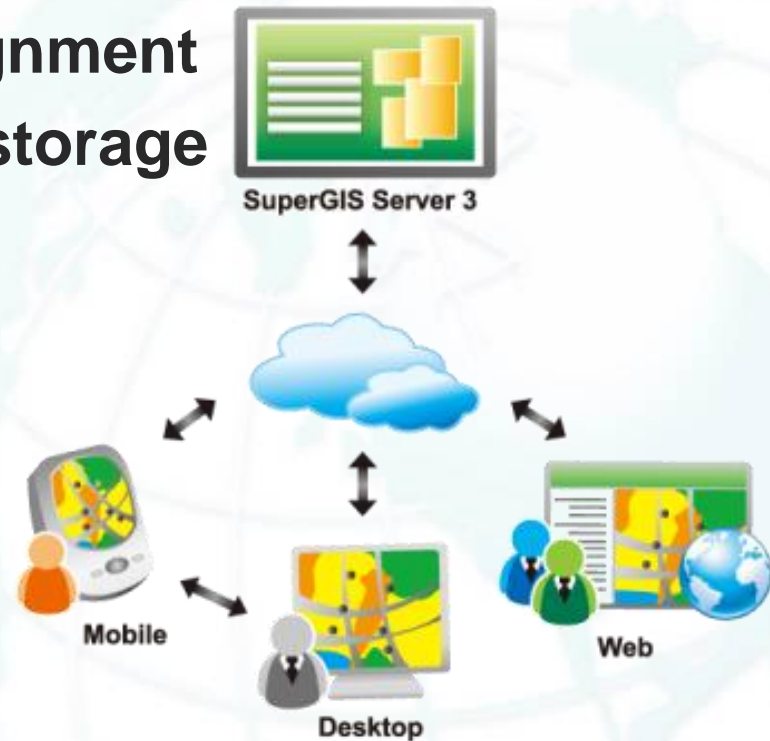
Reviews

- Online Editing collaboration with SuperSurv and SuperGIS Server
- Data query and query settings
- On-screen quick measurement with tools

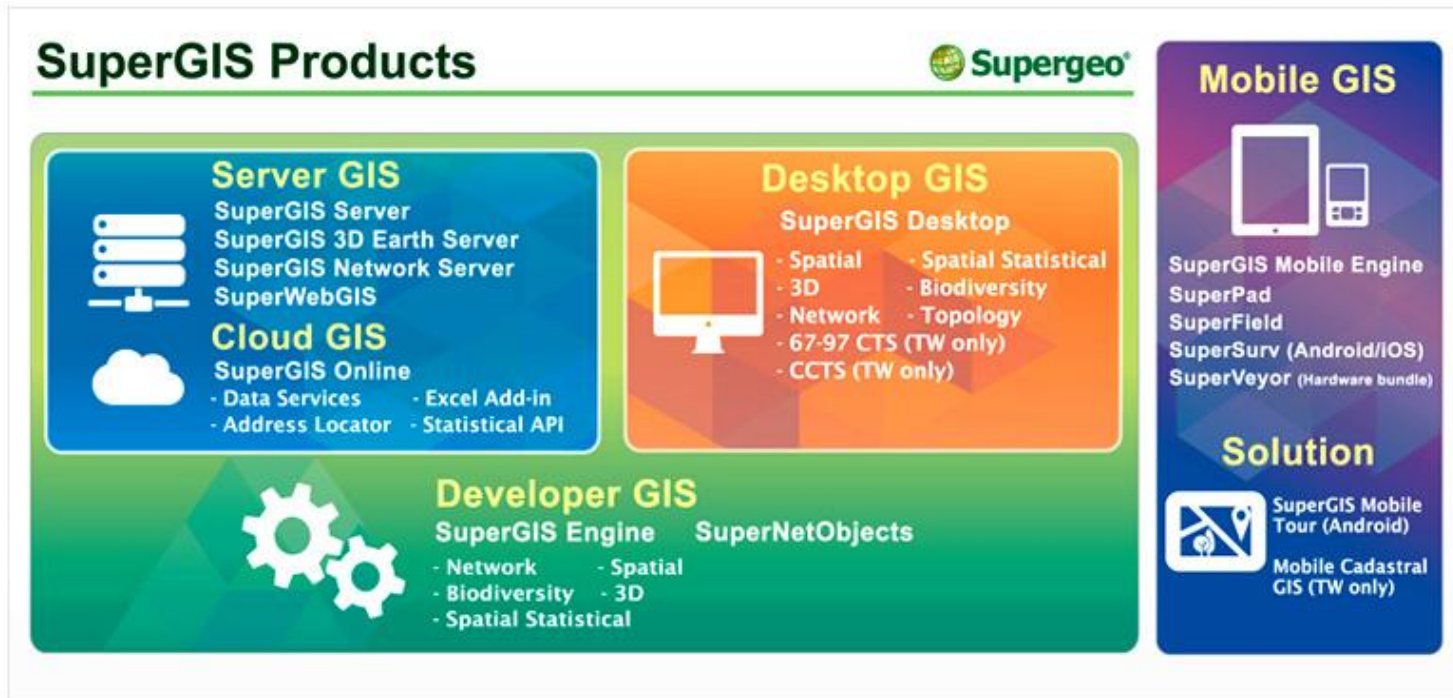



Benefits of Online Editing

- Way to efficient and precision
 - Real-time data synchronization
 - Live management and assignment
 - Cloud computing and data storage
 - Data versioning and safety



Thank you for your attention.




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SuperGIS Network Server
SuperWebGIS

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