

SuperGIS Webinar

Inspect and Update in Real-Time – A SuperGIS Utility Solution

Presenters



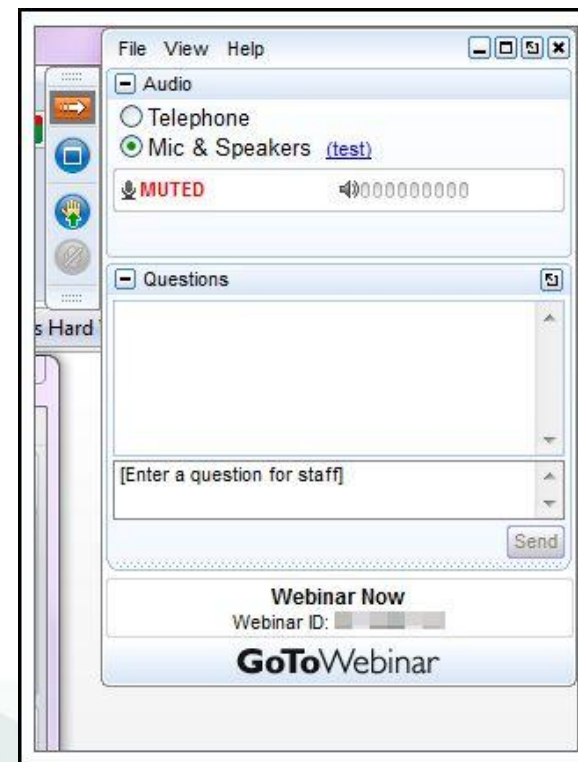
Host
Patty Chen
Regional Manager



Speaker
Olivia Lin
Sr. Technical Support

Questions & Comments

- Share your comments or questions
- Or, drop us an email staff@supergeotek.com




@2nb6t86016K

Quick Poll I



SuperGIS Products



Server GIS
SuperGIS Server
SuperGIS 3D Earth Server

Cloud GIS (TW Only)
SuperGIS Online

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



Desktop GIS
SuperGIS Desktop


Analyst Extensions

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

Add-ons


- Image Analyzer
- LiDAR Tool
- Mapnote Tool
- Dimension Tool
- Temporal Slider
- Cache Generator

and more...



Mobile GIS

SuperSurv (Android/iOS)
SuperPad
SuperVeyor (Hardware bundle)



Forestry APP (Android)
SuperGIS Mobile Tour (Android)
Mobile Cadastral GIS (TW only)



Developer GIS
SuperGIS Engine
SuperGIS Mobile Engine

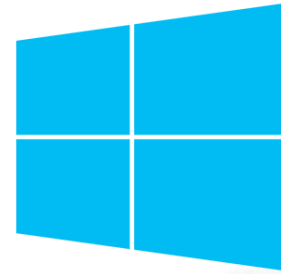
Overview of SuperPad

■ Professional mobile GIS app

- GIS data collecting, editing & managing
- Standalone & ready-to-use on Windows Mobile & Windows OS

■ Better Survey Experience

- Elevate data precision with external GNSS receiver
- Activate post processing or NTRIP extension for better data quality





SuperPad Key Features

GNSS

- Record track & display on the map
- Stake out surveying point (Waypoint)
- Apply NTRIP service*
- External GNSS receiver*
- Post processing data*

GIS

- Offline GIS data editing
- Abundant basemaps (OSM, Mr.SID, JPEG2000)
- Query/identify/measure
- Cloud service (OGC/SuperGIS Server)
- On-the-Fly projection
- Relational Table

SuperGIS Webinar

Inspect and Update in Real-Time – A SuperGIS Utility Solution

Scenario

Gasoline company needs a website to show the utility sites and mark the location as patrolmen reported an facility problem.



Smarter Way to Collect Data

Use SuperPad on
Windows OS device
(laptop/tablet) with
external GNSS receiver to
collect GIS data.



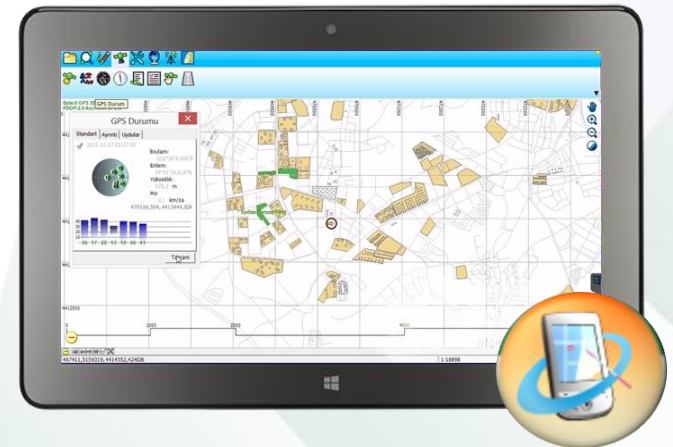
Solution with Smart Mobile GIS

- Abundant GIS toolsets
- Integrate modern advanced GPS and GIS technologies
- Collect, edit, and access data in sub-meter precision

GNSS

+

GIS Tech



In Today's Webinar



Activate NTRIP solution to do positioning



Establish an online utility map with **SuperGIS Server**



Synchronize collected data to the utility map in real-time



Use relational table to manage data more easily

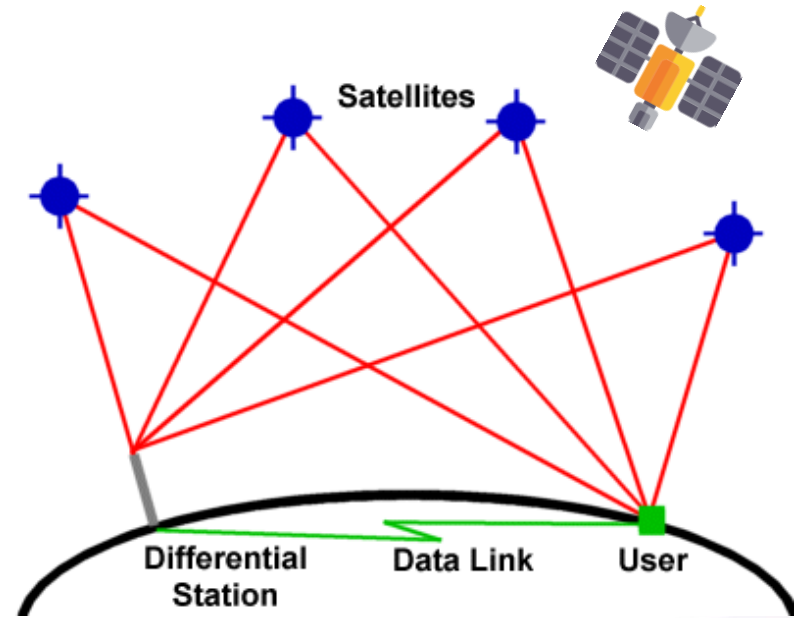


Activate NTRIP Solution

Past

■ DGPS

- 1-day delayed
- Download the correction data
- Run post processing (desktop)
- Accuracy > 1m



Now

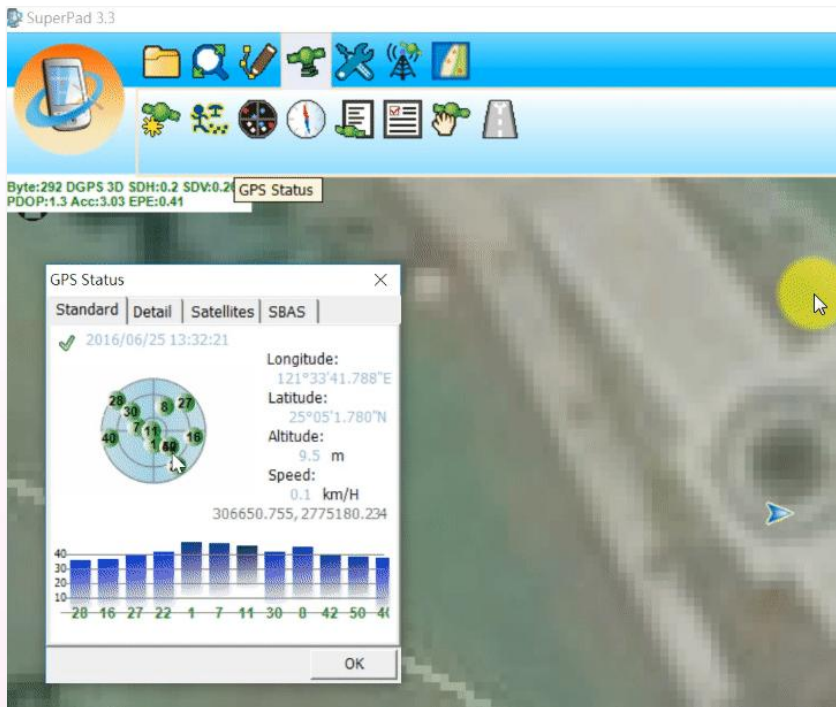
■ NTRIP

- Networked Transport of RTCM via Internet Protocol
- Real-time GPS correction
- Accuracy ~ sub-meter

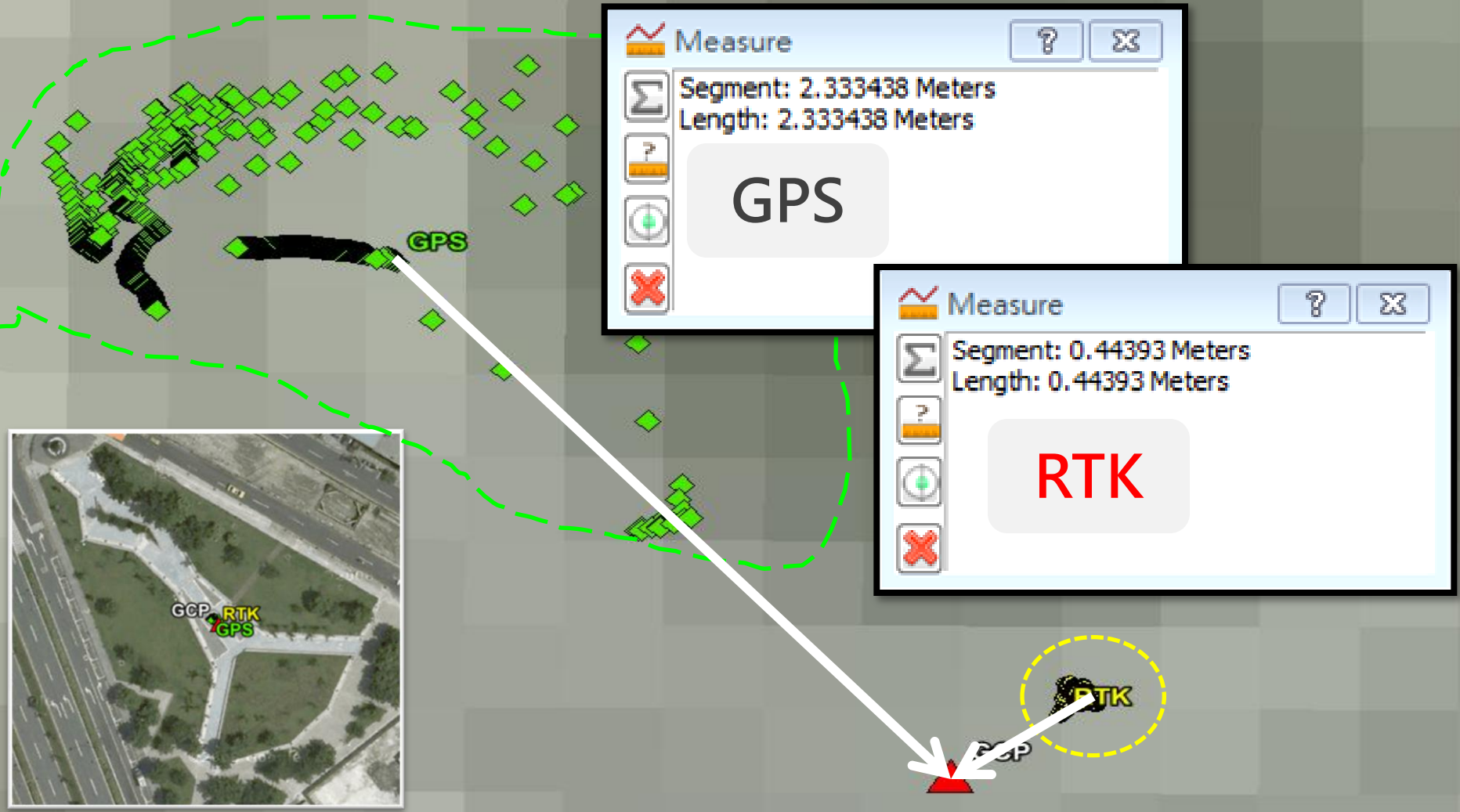


Sub-meter Precision

- Use SuperPad + V100 via NTRIP and RTK tech
- Bringing your field work into sub-meter level



Accuracy Test



Accuracy Test

GPS

2drms

Horizontal	4.978m	East-West	3.803m
Altitude	1.672m	North-South	3.212m

Average

Latitude	25°5'01.825433"N	Altitude	8.8207m
Longitude	121°3'41.729079"E	DGPS	95.42%

Peak of error

Horizontal	2.946m	16/06/25 05:10:32 (UTC)
Altitude	2.704m	16/06/25 05:10:28 (UTC)

Statistics

	Average	Minimum	Maximum
HDOP	0.798	0.600	0.900
VDOP	1.127	0.900	1.500
PDOP	1.399	1.100	1.800
Used Sat	15.7 (9.2)	14 (8)	24 (13)

Difference between average and true

Horizontal	2.462m	East-West	-1.875m
Altitude	-0.589m	North-South	1.595m

RTK

2drms

Horizontal	0.819m	East-West	0.660m
Altitude	0.120m	North-South	0.485m

Average

Latitude	25°5'01.781458"N	Altitude	9.4383m
Longitude	121°3'41.807756"E	DGPS	100.00%

Peak of error

Horizontal	0.440m	16/06/25 05:52:01 (UTC)
Altitude	0.239m	16/06/25 05:37:13 (UTC)

Statistics

	Average	Minimum	Maximum
HDOP	1.217	0.800	2.300
VDOP	1.816	1.000	4.300
PDOP	2.220	1.300	4.800
Used Sat	11.4 (5.4)	8 (4)	14 (6)

Difference between average and true

Horizontal	0.409m	East-West	0.329m
Altitude	0.028m	North-South	0.242m

DEMONSTRATION

NTRIP Setting



Quick Poll II





Establish Online Map with SuperGIS Server

Visualization

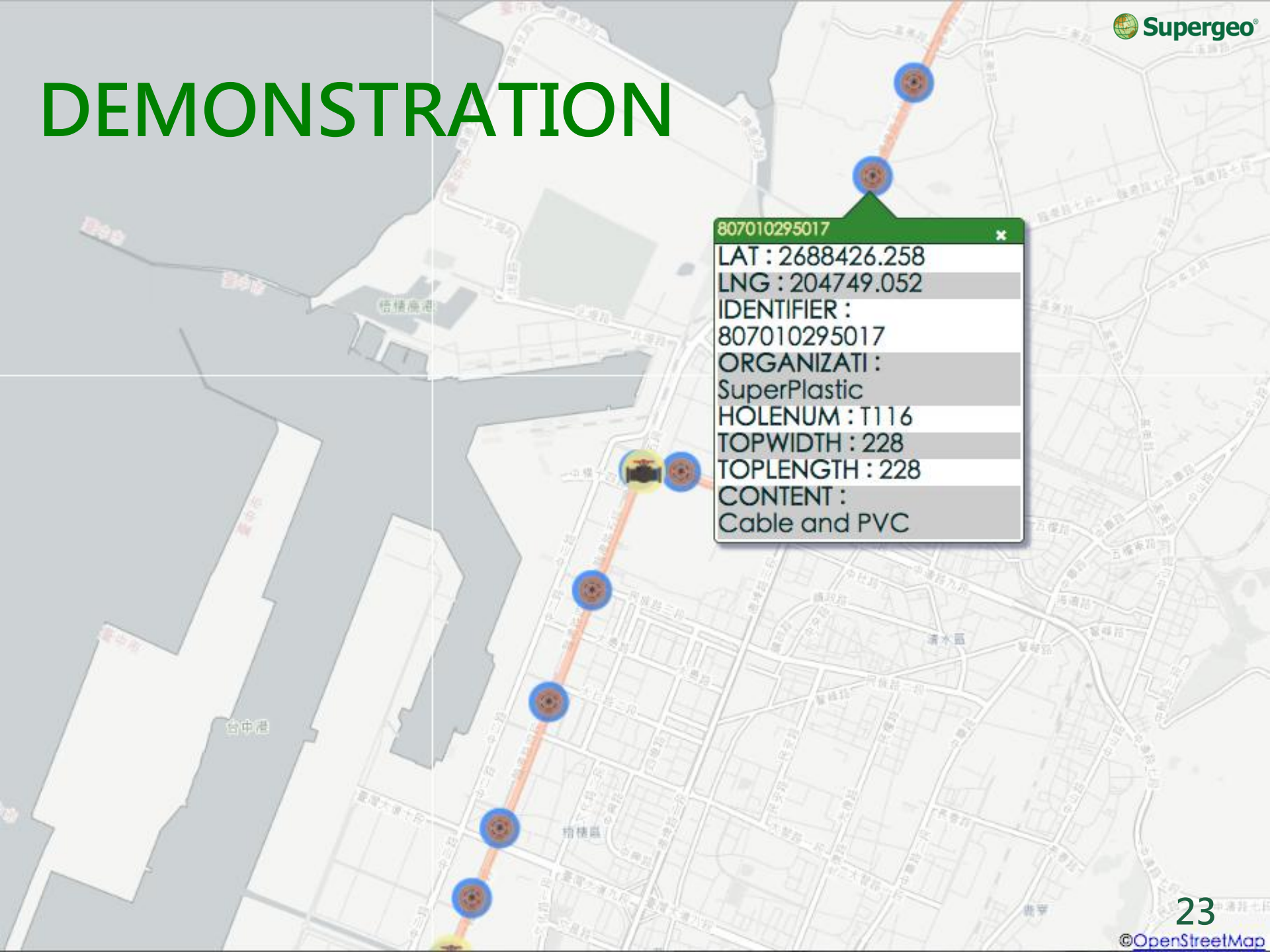
1. Manage the raw data and design the map by **SuperGIS Desktop** and save as a *.sgd.
2. Publish the map via **SuperGIS Server**
3. Check the map in browsers or mobile devices



DEMONSTRATION

807010295017 ✕

LAT : 2688426.258
LNG : 204749.052
IDENTIFIER : 807010295017
ORGANIZATI : SuperPlastic
HOLENUM : T116
TOPWIDTH : 228
TOPLength : 228
CONTENT : Cable and PVC





Sync

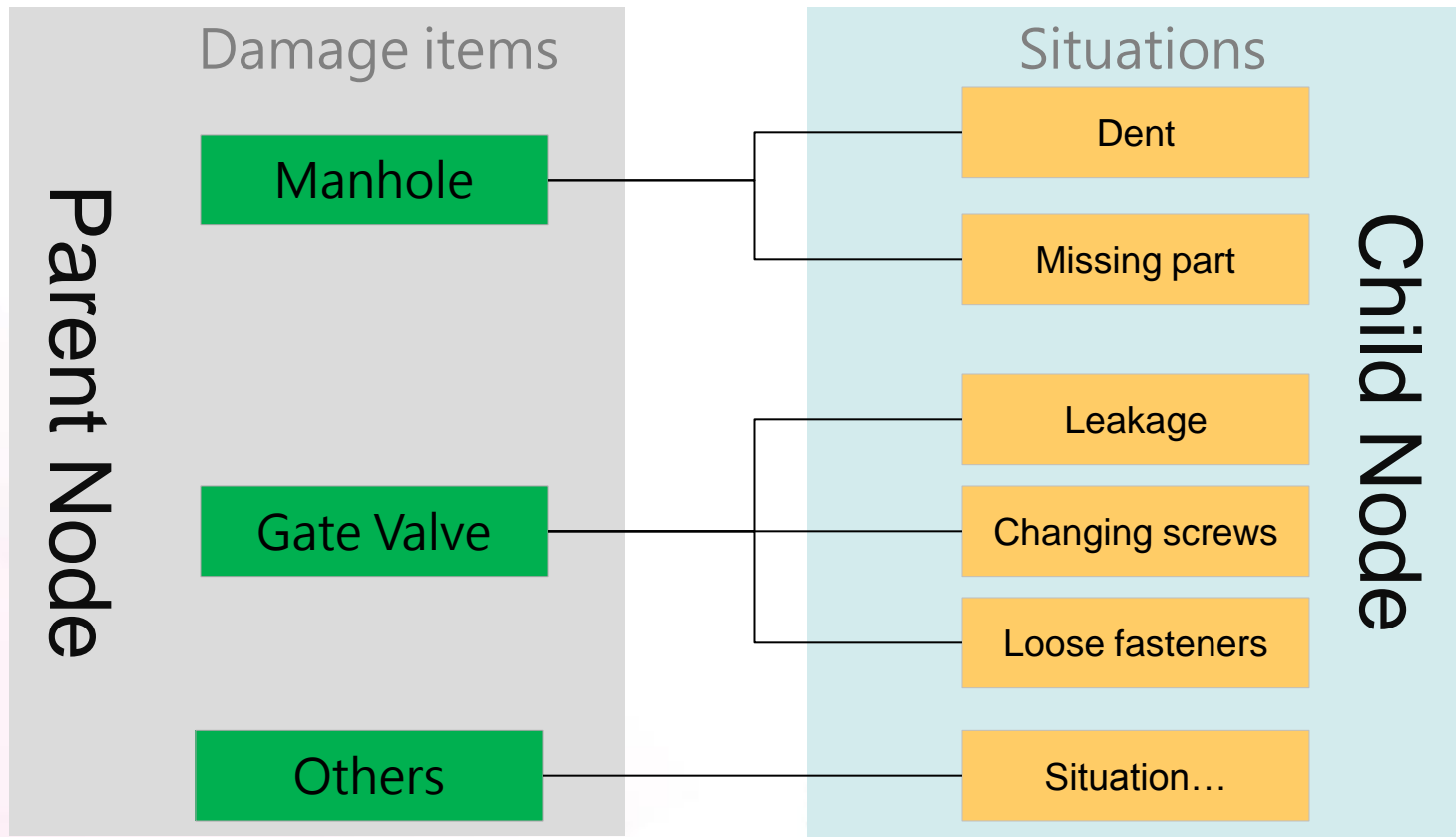


Relational Table

Efficiently Inspect & Update

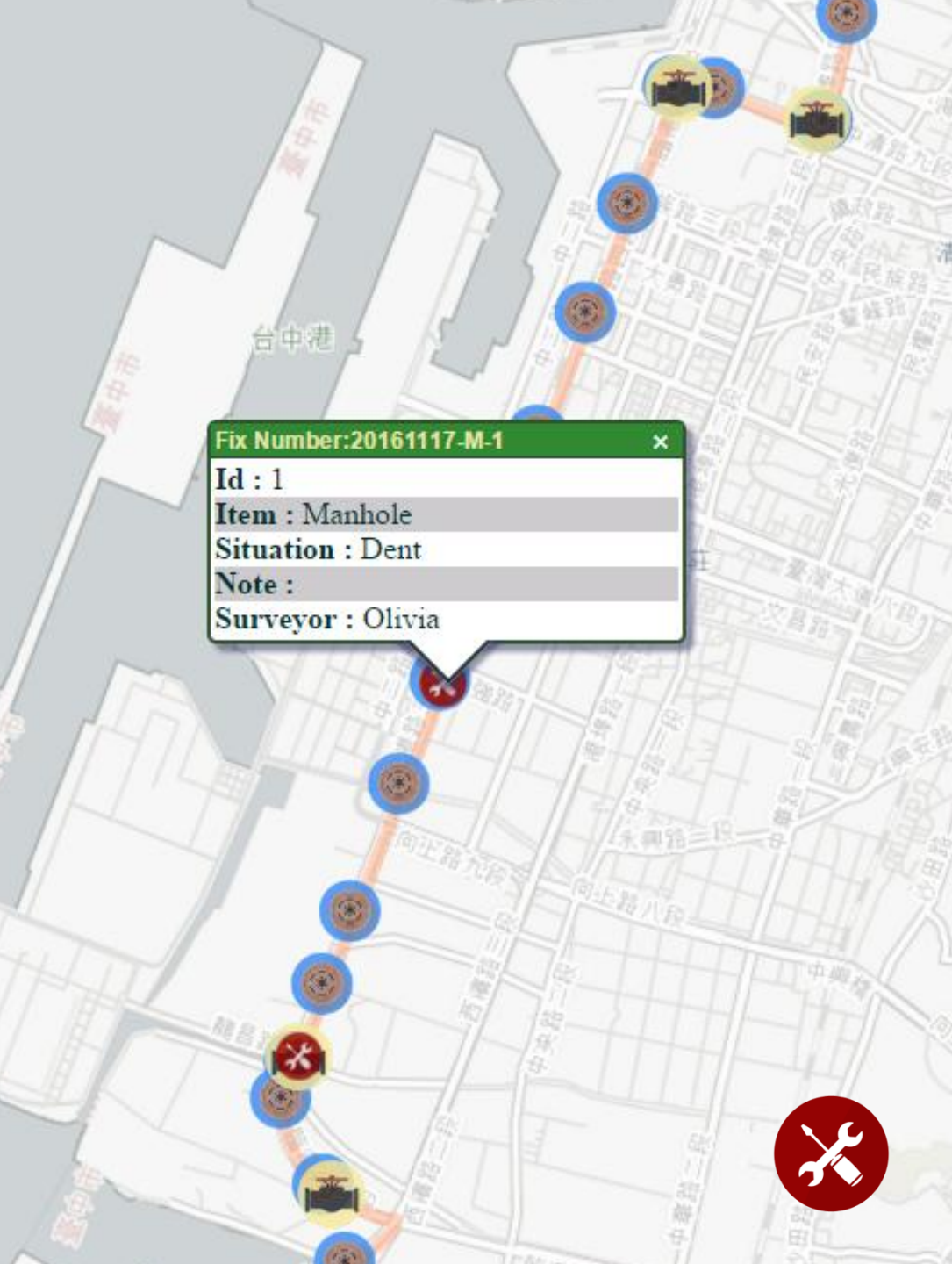
Relational Table

- Inspect facilities & record damaged object status
- Set needed info in **Relational Table** & save time in key-in the same info again in the field.



Sync Collected Data

- Access to SuperGIS Server Service via SuperPad
- Update the check sheet to the website in real-time



DEMONSTRATION

Conclusion



Activate NTRIP solution to do positioning



Establish an online utility map with **SuperGIS Server**



Synchronize collected data to the utility map in real-time



Use relational table to manage data more easily

SuperPad Supports

Raster layer

SGR, BMP, GIF, PNG,
MrSID, ECW,
LANTIFF(includes
GeoTIFF), JPG, JPG2000

Feature layer

GEO, SHP, DXF

OGC Standard

WMS, WMTS, WFS





System Requirements

Windows Mobile

5.x/6.x






Windows

7/8/8.1/10 (32/64bit)



Supported Languages

English, Arabic, Spanish, Portuguese,
German, French, Italian, Russian,
Turkish, Polish, Japanese, Korean,
Chinese

Features	SuperSurv M3 * iOS 	SuperSurv 3.3 iOS 	SuperPad 3.3 
General Vector Format Support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raster/Tile Support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online Base Map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global or Custom CRS Support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On-The-Fly Projection			<input type="radio"/>
Offline data display and edit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data collection via GPS/GNSS	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
Online Editing		<input type="radio"/>	<input type="radio"/>
Advanced data editing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify and attribute Query	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On-screen measurement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Navigation and Waypoint	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OGC Standard Service(WMS/WMTS/WFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Customization and Extensions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External GPS/GNSS receiver Support		<input type="radio"/>	<input type="radio"/>
NTRIP connection Support		<input type="radio"/>	<input type="radio"/> 
Post Processing			<input type="radio"/> 

Collect Data with SuperGIS

Find SuperGIS mobile apps on different platforms for your device.

Simply Learn More!

- SuperGIS Webinar
- SuperGIS Free Online Course
- Supergeo Forum
- Supergeo Developer Network
- Supergeo TV



 Desktop GIS	 Mobile GIS	 Server GIS
Get Started with SuperGIS Desktop: Download, Install, and License	What is GIS?	Manage with SuperGIS Server
Data Import and Export	Collect Field Data with SuperPad	Edit Data Online
What is GIS?	Edit Data Online	Produce Map Sheet
Edit Data Online	Collect Data with SuperSurv iOS	Customize SuperGIS Server - JavaScript
Produce Map Sheet		Work with SuperGIS Server Android SDK
Customize SuperGIS Server - JavaScript		Work with SuperGIS Silverlight API
Develop Extensions in Desktop		Work with SuperGIS Server iOS SDK
Manage Image Data		Publish and Consume the Process Service
Advanced Data Visualization and Analysis		JavaScript API;^{NEW} Create a map from SuperGIS Server
		JavaScript API;^{NEW} Overlay your map with online maps
		JavaScript API;^{NEW} Re-design your map
		JavaScript API;^{NEW} ...

Quick Poll III



SupergeoTV



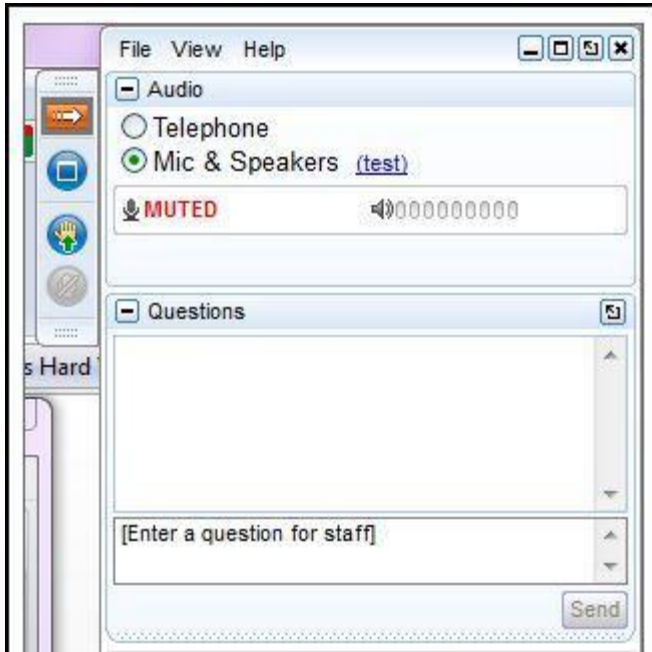


Get trial !



SuperGIS Software

Q&A Time



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Driving Our World with GIS

