

# Supergeo Webinar

## Top 10 Features of SuperGIS Desktop

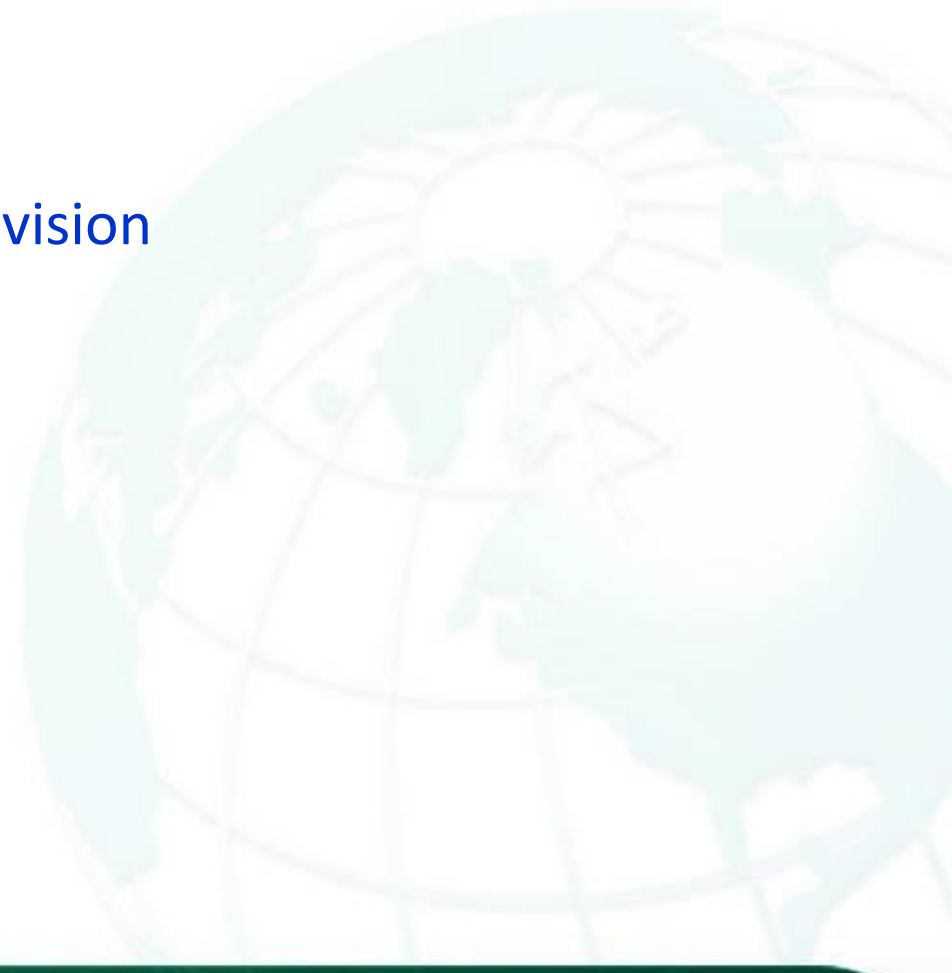
Feb 05, 2015



# Presenters

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- ***Patty Chen***  
Marketing Specialist  
International Marketing Division
- ***Danny Wang***  
Sr. Product Specialist  
Product Department



# 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



### Developer GIS

SuperGIS Engine SuperNetObjects

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



### Mobile GIS

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

### Solution



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

# Overview of SuperGIS Desktop

- Perform GIS data creation, editing and analysis
- Visualize your spatial data to show the original landforms and its spatial features
- Read, import and manage various kinds of data formats and geodatabases
- Share the spatial data with co-workers within organizations efficiently



# Overview of SuperGIS Desktop

- Use rich GIS tools to identify, find, measure, and calculate geographic data
- Apply SuperGIS Toolkit to define the geoprocessing workflow to process spatial data
- Develop an ideal working environment by customizing appropriate GIS tools



# System Requirement

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## Operating System

- Windows Vista/ 2008/ 7(32/64 bit)/ 8/ 8.1

## CPU Speed

- 1.6 GHz recommended or higher

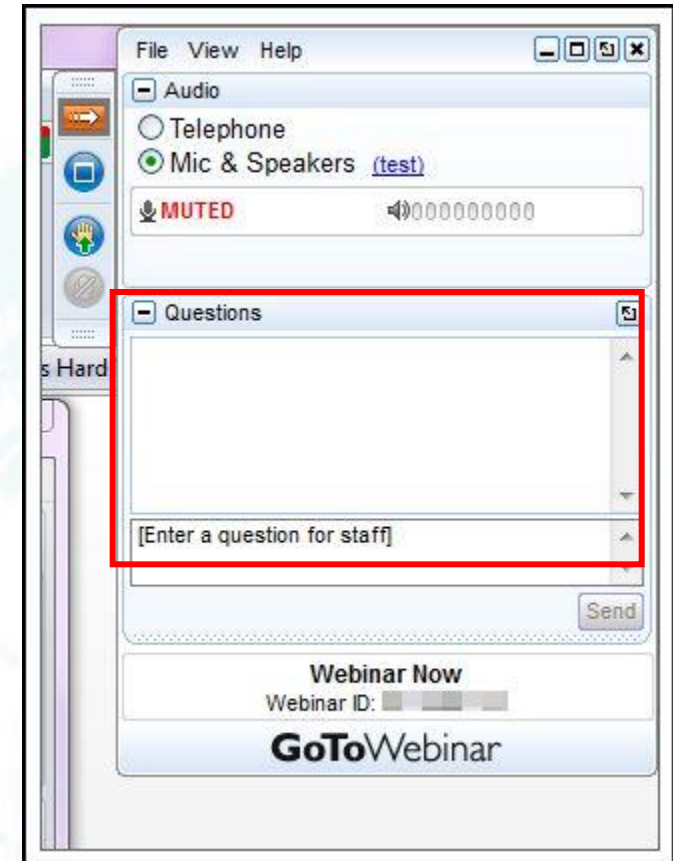
## Memory/RAM

- 1 GB minimum, 2 GB recommended or higher



# Questions & Comments

- During the presentation, you may share your comments or questions
- Or, you may drop us an email to:  
[staff@supergeotek.com](mailto:staff@supergeotek.com)
- Follow us on Twitter  
[@Supergeotek](https://twitter.com/Supergeotek)



# SuperGIS Desktop Top 10 Features Counting Down





# SuperGIS Desktop Top 10

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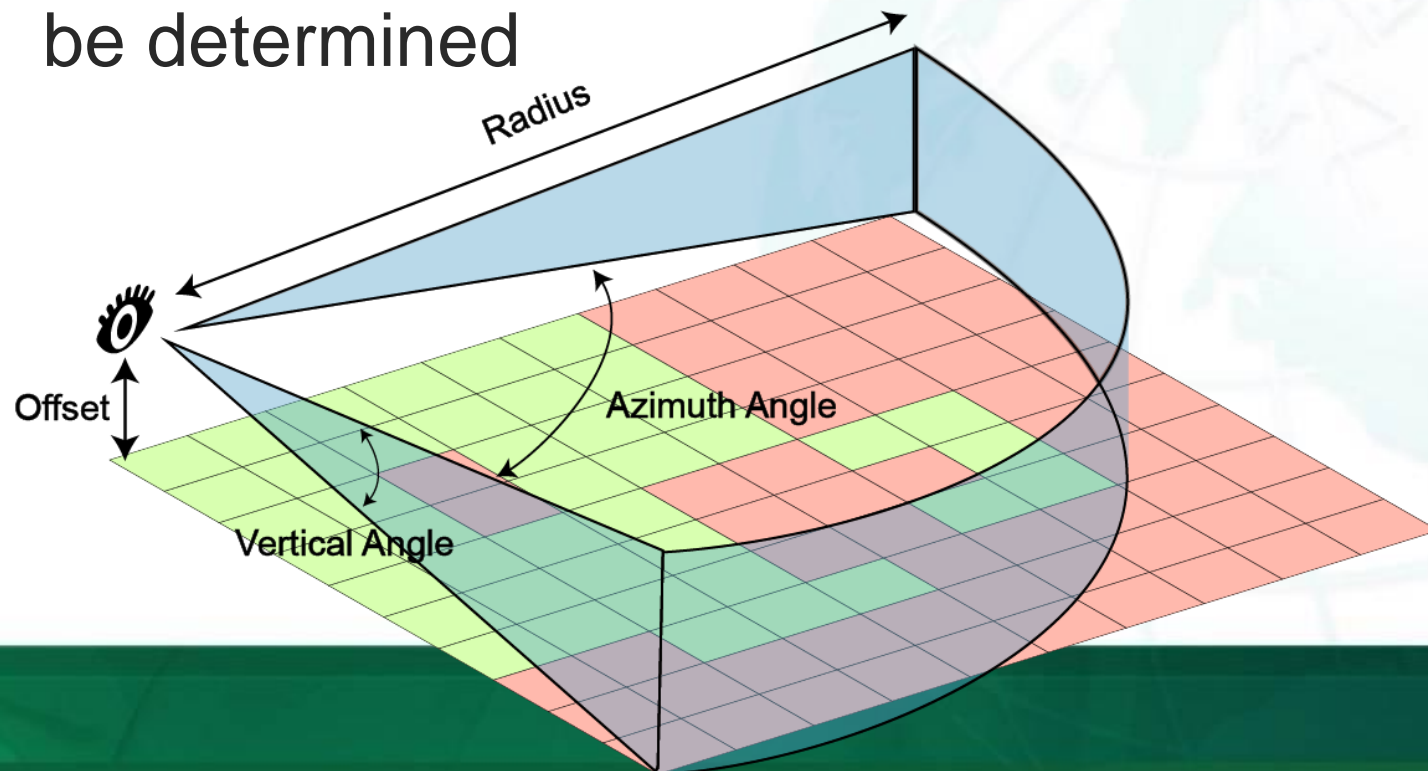


**10<sup>th</sup>**

# Viewshed in Spatial Analyst

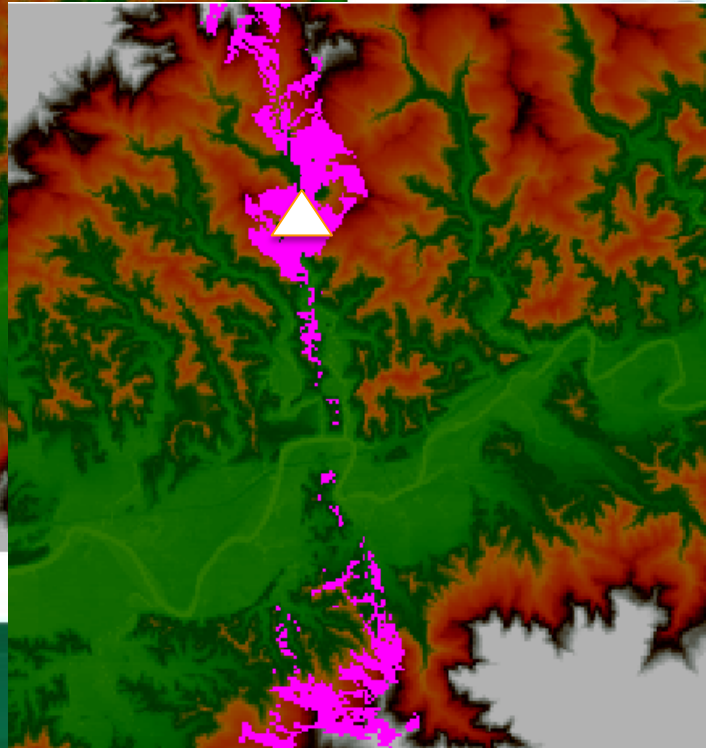
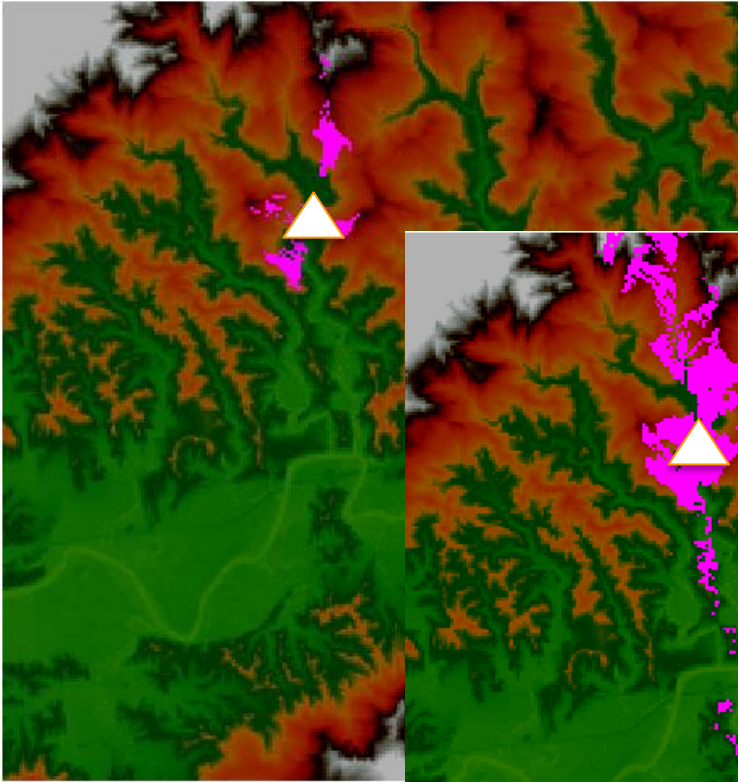
- **Viewshed Analysis**

- With Viewshed tool, the visible locations for one or multiple observer points or lines can be determined



# Viewshed in Spatial Analyst

- **Viewshed Analysis**



# SuperGIS Desktop Top 10

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**9<sup>th</sup>**

# Biodiversity Analyst

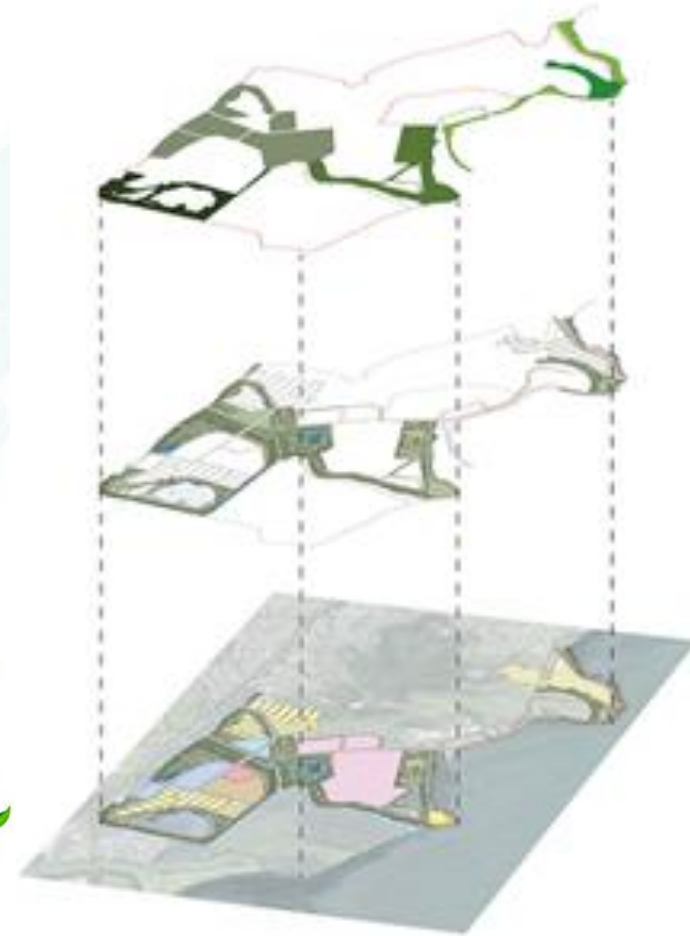
- **Biodiversity Analyst**

- **Biodiversity Analysis**

- ✓ Richness
- ✓ Diversity
- ✓ Evenness

- **Landscape Analysis**

- ✓ Patch
- ✓ Class
- ✓ Landscape



# Biodiversity Analyst

**Biodiversity Analysis**

Sample Area:

Species Data:

Analysis Field:

Count Field:

Options

- Use all species
- Use selected species only
- Build Query...

Methods

- Simpson
- Inverse Simpson
- Gini-Simpson
- Shannon
- Evenness
- Margalef
- Menhinick
- Richness
- McIntosh's
- Berger-Parker
- Pielou
- Hill

Logarithm

- In
- log 10
- log 2

A=

Output

Type:  Point  Polygon

Output Features:

Density Raster

Location:

Masked output

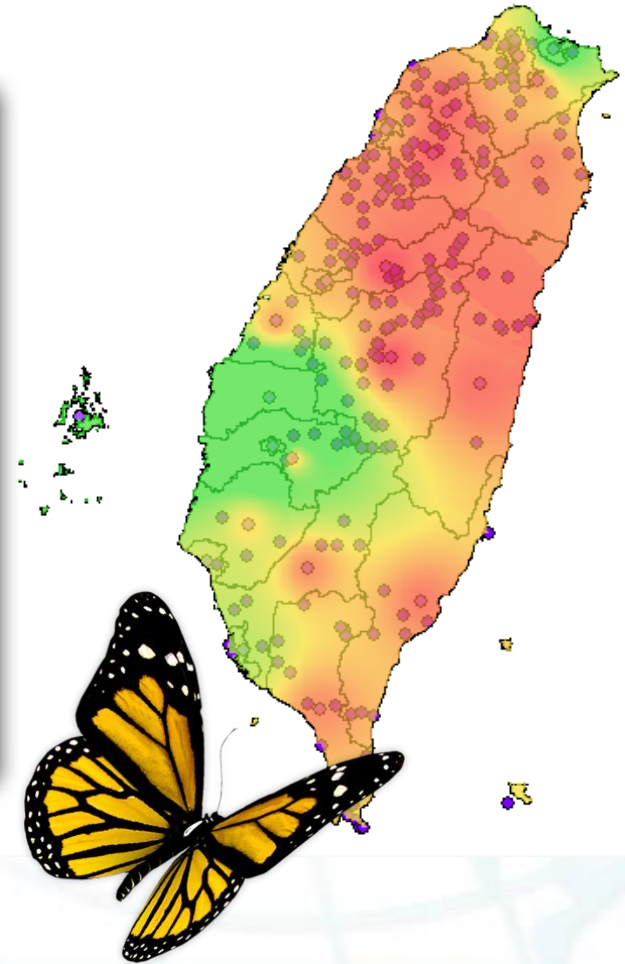
OK Cancel

**Table -butterfly**

FID	RID	SPECIESENA	CNT
3737		Graphium agagemnon agagemnon	1
3738		Graphium agagemnon agagemnon	5
3740		Graphium agagemnon agagemnon	1
3741		Graphium agagemnon agagemnon	19
3742		Graphium agagemnon agagemnon	1
3743		Graphium agagemnon agagemnon	6
3745		Graphium agagemnon agagemnon	1
3746		Graphium agagemnon agagemnon	4
3747		Graphium agagemnon agagemnon	4
3754		Chilasa epycides melanoleuca	2
3755		Chilasa epycides melanoleuca	1
3756		Chilasa epycides melanoleuca	1
3757		Chilasa epycides melanoleuca	1
3758		Chilasa epycides melanoleuca	2

In 3245 record(s), 0 record(s) selected

Options



# SuperGIS Desktop Top 10

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**8<sup>th</sup>**

# Network Analyst: *Location Allocation*

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- **Location Allocation**

- Solves the related problems about the planning and configuration of facility site
- 3 problem types available:
  - ✓ Minimize Impedance
  - ✓ Maximize Coverage
  - ✓ Minimize Facilities





# SuperGIS Desktop Top 10

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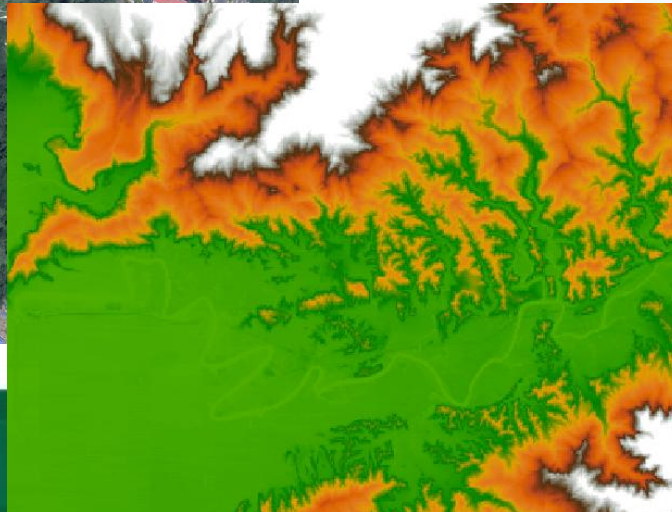
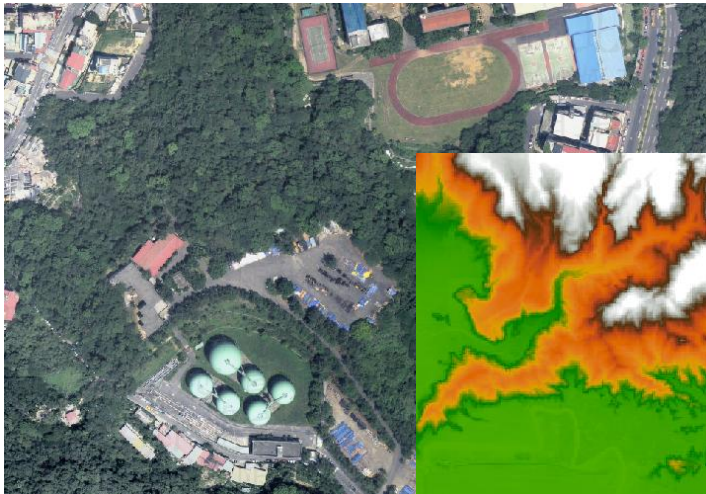
A large, dark red circular graphic with a white border, containing the text "7th" in a bold, white, sans-serif font. The graphic is positioned over a stylized world map. The map is light blue and white, showing the continents. The graphic is also positioned over a stylized globe in the background, which is light blue and white, showing the continents. The globe is slightly faded and positioned behind the map.

7th

# Raster dataset in GeoDatabase

- **GeoDatabase**

- Raster datasets are now available to pour in & out with MDB, MSSQL, Oracle and PostgreSQL database



# SuperGIS Desktop Top 10

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6<sup>th</sup>

# Geospatial PDF

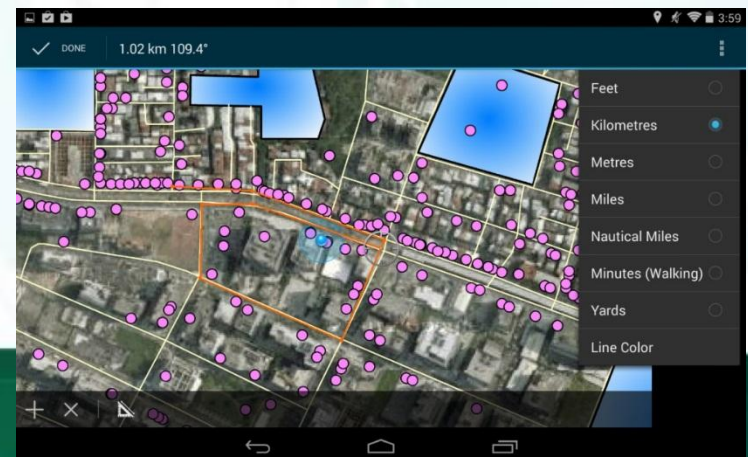
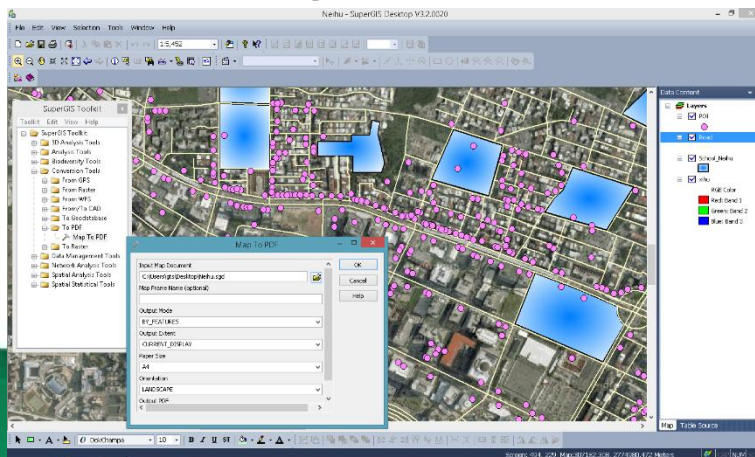
- **Geospatial PDF**

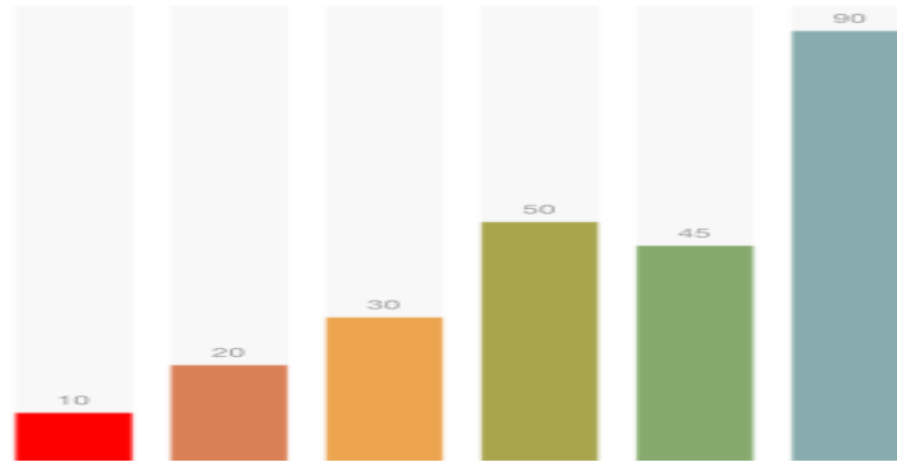
- Geospatial extensions to the Portable Document Format (PDF)
  - ✓ Graphically represent vector and raster data
  - ✓ Show graphics content into different layers
  - ✓ Tabular information with graphical features



# Geospatial PDF

- **PDF your map with SuperGIS Desktop**
  - Export map as a Geospatial PDF file
  - Coordinates, layer information or feature information
  - Capable to identifying attributes, showing or hiding different map layers





## BREAKTIME: QUICK POLL

The YouTube logo, consisting of the word "You" in black and "Tube" in white on a red rounded rectangle background.

SupergeoTV



# SuperGIS Desktop Top 10

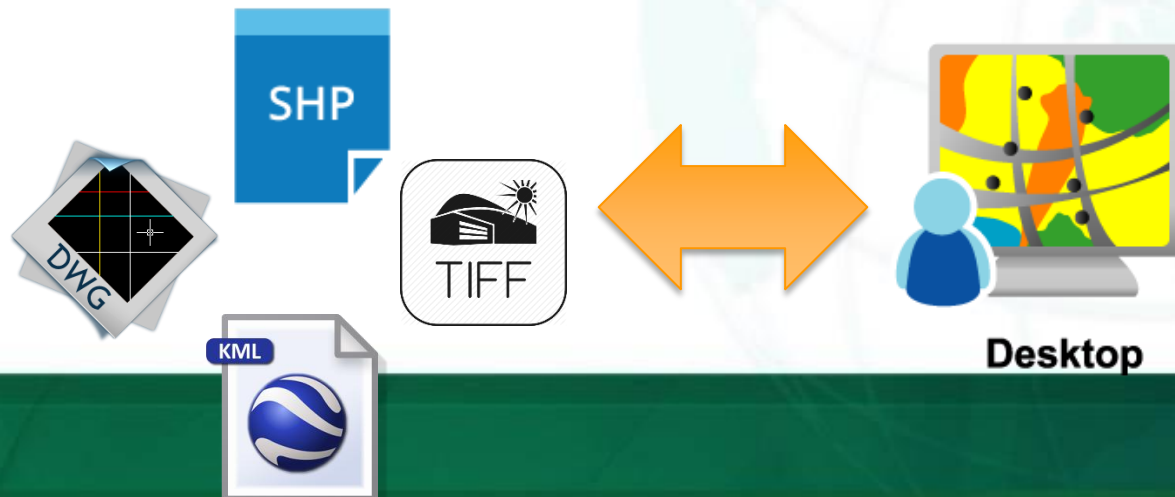
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A large, dark red pin icon with a red circular center. Inside the circle, the text "5th" is written in a white, bold, sans-serif font. The pin is positioned over a blue and white world map that is partially unfolded.

**5<sup>th</sup>**

# Data Compatibility

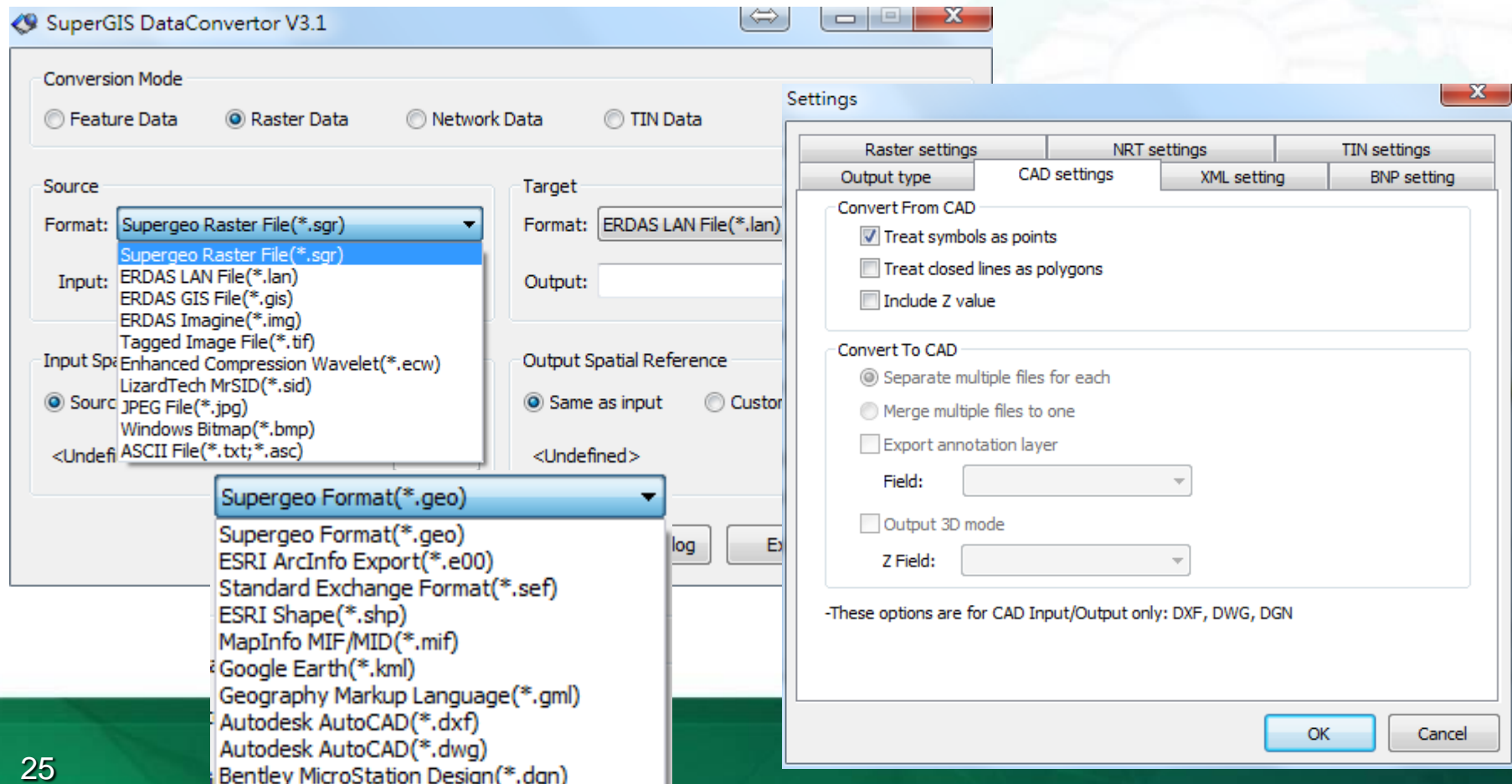
- **Data compatibility with Data converter**
  - With the rapid development of GIS, numbers of institutes and governments have defined their own GIS file formats
  - **SuperGIS DataConvertor** is a free conversion tool which enables users to convert between common GIS formats and the file format in SuperGIS





# Data Compatibility

- **SuperGIS DataConverter**



The screenshot displays the SuperGIS DataConverter V3.1 application window. The main interface is divided into several sections:

- Conversion Mode:** Radio buttons for Feature Data, Raster Data (selected), Network Data, and TIN Data.
- Source:** A dropdown menu for Format (currently set to Supergeo Raster File (\*.sgr)) and an Input field with a list of supported source file formats including ERDAS LAN File (\*.lan), ERDAS GIS File (\*.gis), ERDAS Imagine (\*.img), Tagged Image File (\*.tif), Enhanced Compression Wavelet (\*.ecw), LizardTech MrSID (\*.sid), JPEG File (\*.jpg), Windows Bitmap (\*.bmp), and ASCII File (\*.txt; \*.asc).
- Target:** A dropdown menu for Format (currently set to ERDAS LAN File (\*.lan)) and an empty Output field.
- Output Spatial Reference:** Radio buttons for Same as input (selected) and Custom.

A **Settings** dialog box is open in the foreground, showing options for converting data to CAD:

- Convert From CAD:**
  - Treat symbols as points
  - Treat closed lines as polygons
  - Include Z value
- Convert To CAD:**
  - Separate multiple files for each
  - Merge multiple files to one
  - Export annotation layer
  - Field:
  - Output 3D mode
  - Z Field:

At the bottom of the dialog, it states: "-These options are for CAD Input/Output only: DXF, DWG, DGN". The dialog has OK and Cancel buttons.

# SuperGIS Top 10

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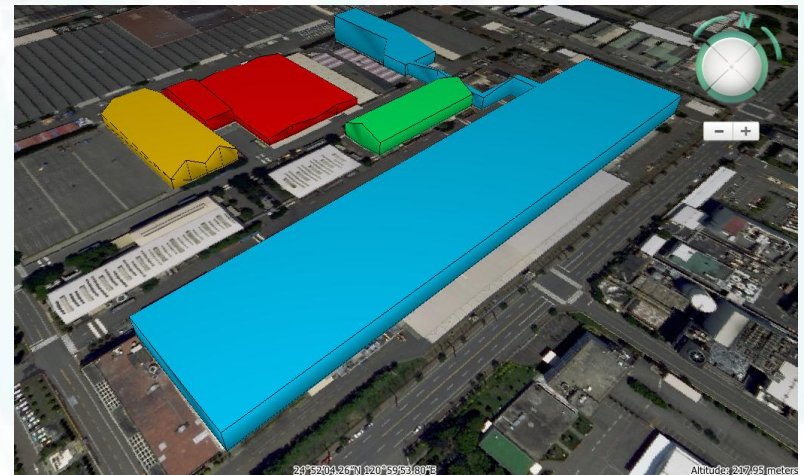
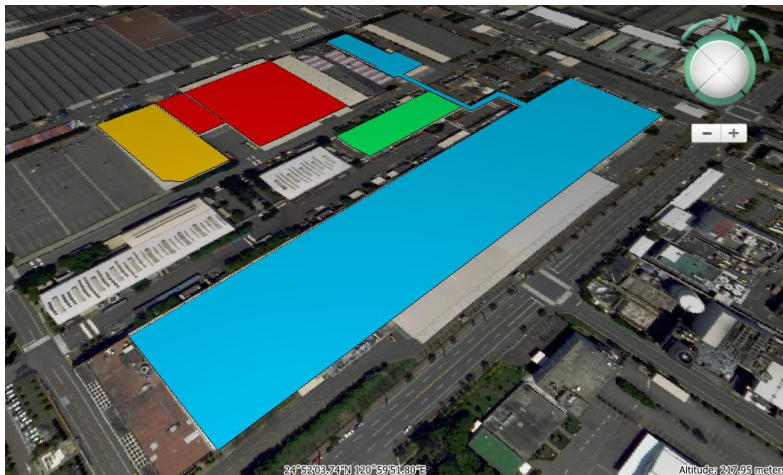


**4<sup>th</sup>**

# 3D Features in SuperGIS Desktop

- **Z Value display**

- Present the Z values of each vertex from its feature, and build up quick model in SuperGIS 3D Analyst



# SuperGIS Top 10

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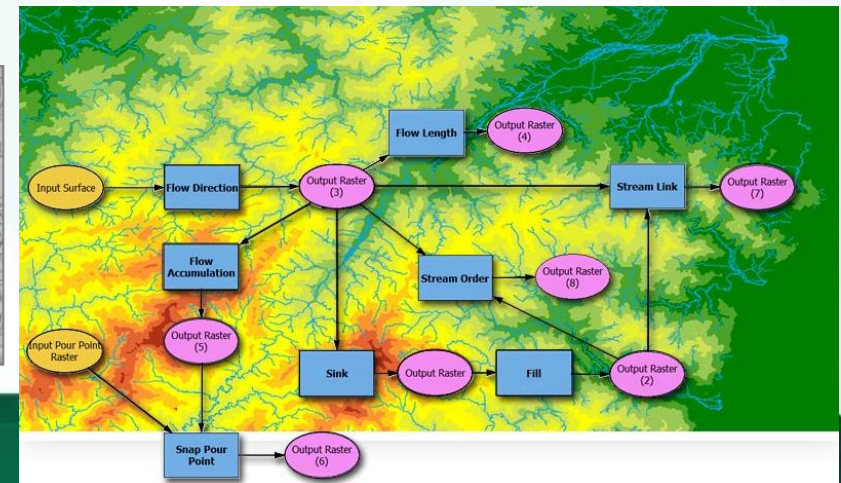


**3rd**

# Toolkit with Process Designer


- **Process Designer**

- Process design tool in SuperGIS Desktop and SuperGIS Toolkit
- Build up customized geoprocess by various tools from **Toolkit** like buffer analysis, network analysis, or others GIS analyses



# SuperGIS Top 10

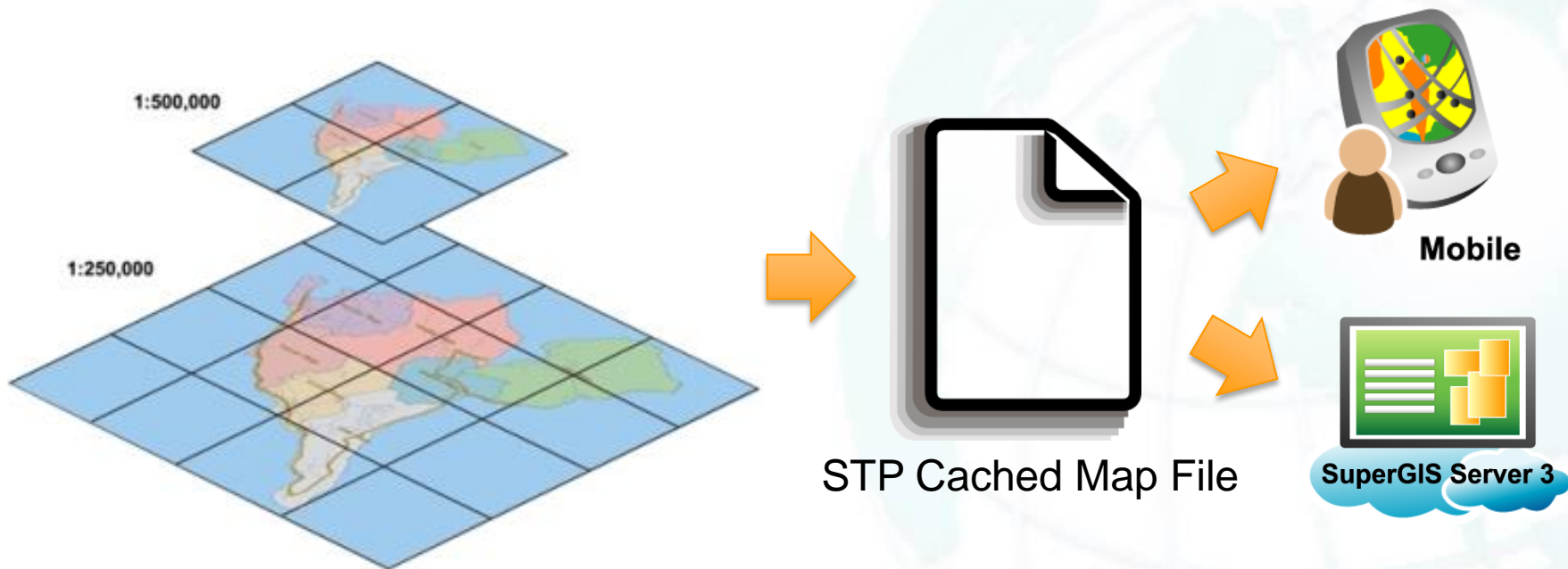
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**2nd**

# Cache Generator

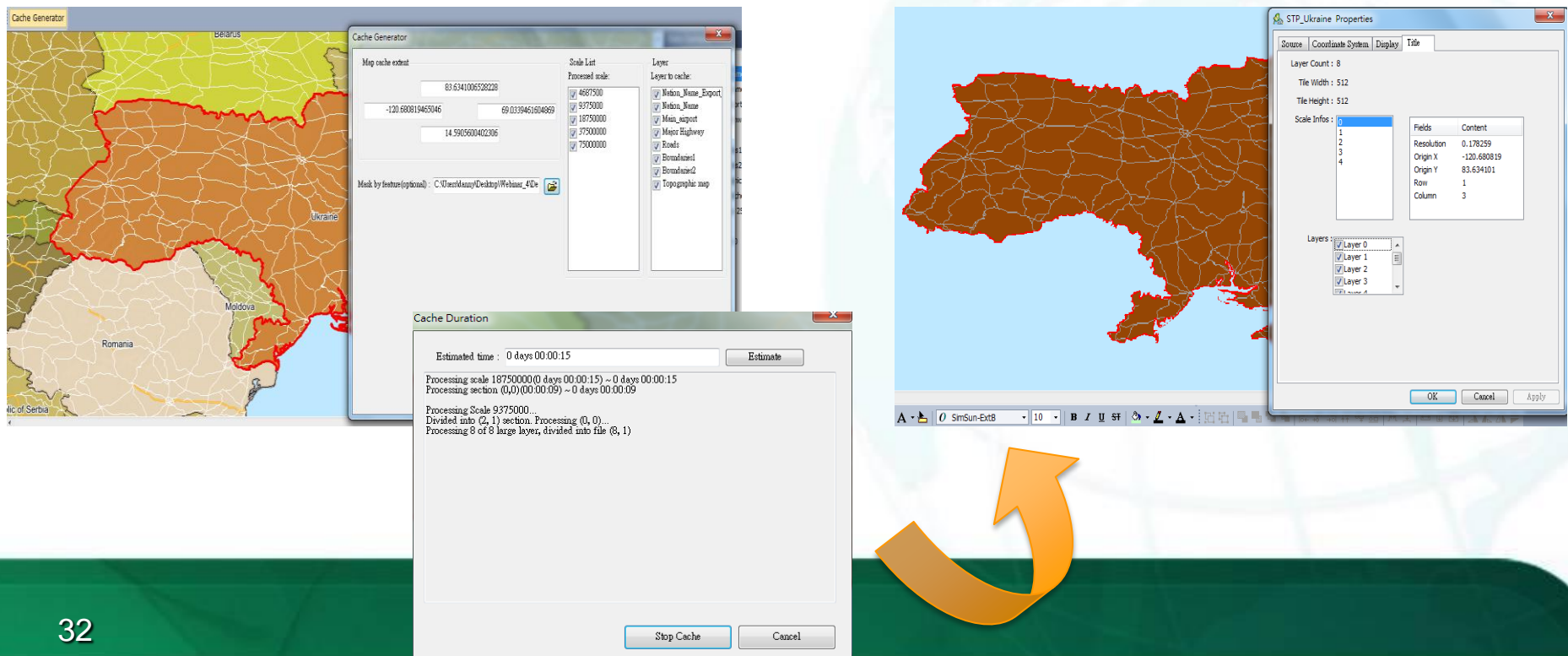
- **Cached Map for base map**
  - Create base map for different purposes with SuperGIS Desktop **Cache Generator**



# Cache Generator

- Cache Generator**

- Latest version now not only creates cached map, but also allows users to modify and perform clipping



The screenshot displays the Cache Generator software interface. On the left, a map of Eastern Europe is shown with a red boundary. The main window is titled 'Cache Generator' and contains several panels:

- Map cache extent:** Three coordinate pairs are listed: (83.63410065292239, -120.68819465046), (69.0339461604869, 14.590500402306), and (83.63410065292239, -120.68819465046).
- Scale List:** A list of scales with checkboxes: 4567500, 9375000, 18750000, 37500000, and 75000000.
- Layer:** A list of layers to be cached: History\_Name\_Export, History\_Name, Main Airport, Major Highway, Roads, Roads2, Roads3, and Topographic map.
- Mask by feature (optional):** A file path is shown: C:\User\Many\Desktop\Wehinar\_4\De...

Below the main window is a 'Cache Duration' window showing the estimated time and processing details:

```

Estimated time : 0 days 00:00:15
Processing scale 1875000(0 days 00:00:15) ~ 0 days 00:00:15
Processing section (0,0)(00:00:09) ~ 0 days 00:00:09
Processing Scale 9375000...
Divided into (2, 1) section. Processing (0, 0)...
Processing 8 of 8 large layer, divided into file (8, 1)
    
```

On the right, a map of Ukraine is shown with a red boundary. Below it is the 'STP\_Ukraine Properties' dialog box, which includes a 'Scale Infos' table:

Scale Infos	Fields	Content
1	Resolution	0.178259
2	Origin X	-120.68819
3	Origin Y	83.634101
4	Row	1
	Column	3

The 'Layers' section of the dialog shows a list of layers: Layer 0, Layer 1, Layer 2, Layer 3, and Layer 4, all with checkboxes checked.

A large orange arrow points from the 'Cache Duration' window towards the map on the right.



# SuperGIS Top 10

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**1<sup>st</sup>**



# LiDAR in SuperGIS Desktop

- **LAS Data**

- The LAS file format is a public file format for the interchange of 3-dimensional point cloud data between data users.
- Developed primarily for exchange of LiDAR point cloud data, it supports the exchange of 3-dimensional x,y,z tuple



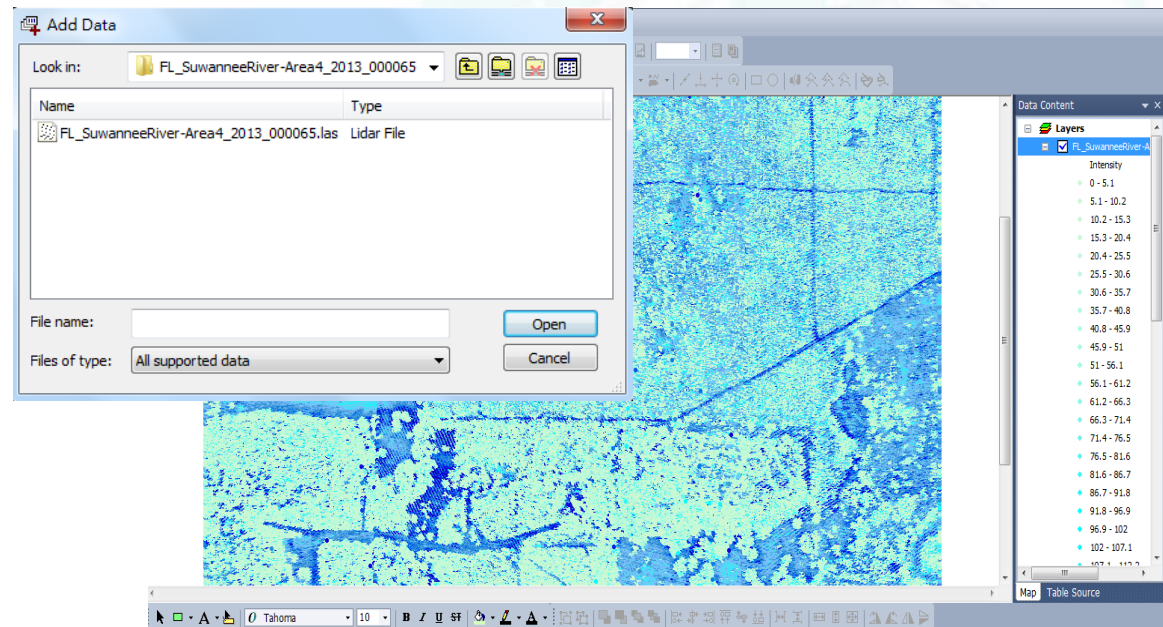
# LiDAR in SuperGIS Desktop

- **LAS Data**

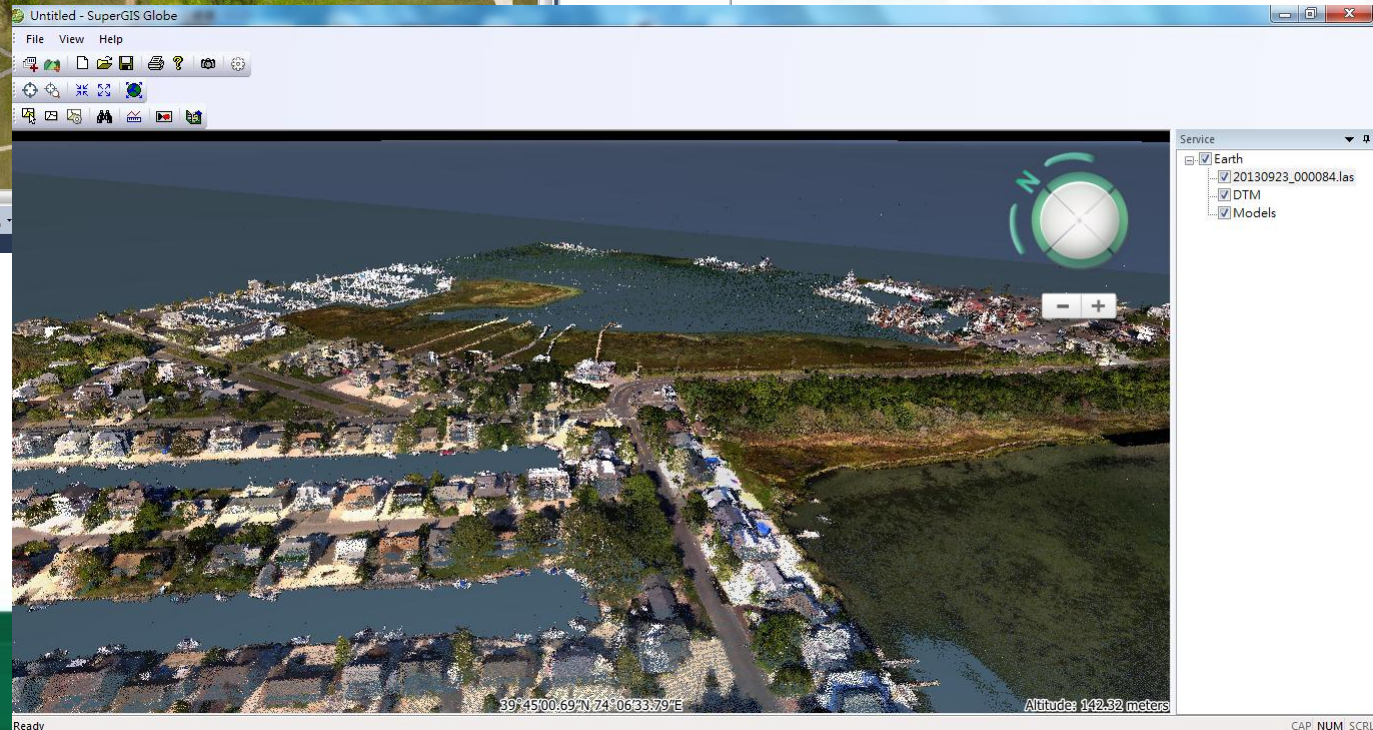
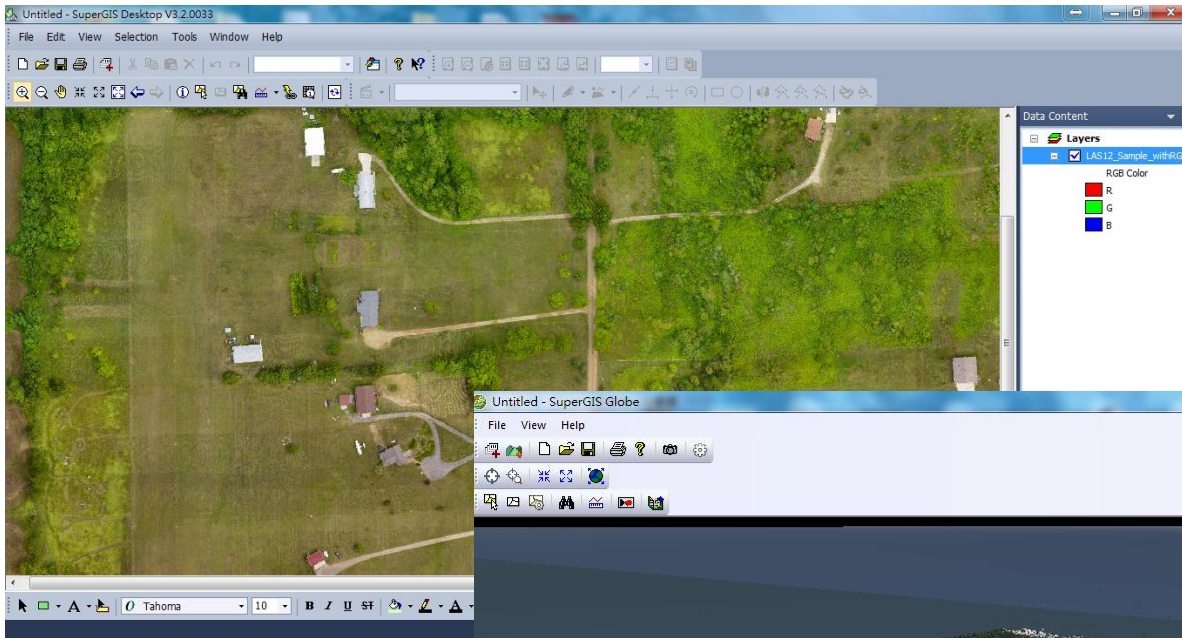
- LAS format LiDAR data can be added into SuperGIS Desktop and SuperGIS Globe



LiDAR LAS Dataset



# LiDAR in SuperGIS Desktop



# Reviews

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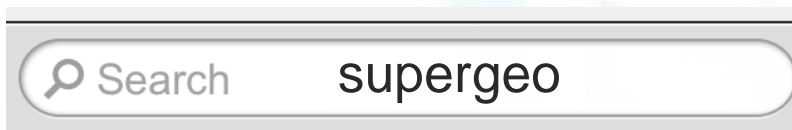
## Top 10 Features of SuperGIS Desktop

1. **LiDAR LAS Format**
2. **Cache Generator**
3. **Process Designer**
4. Z Value Display
5. Mainstream GIS software data compatibility
6. Create Geospatial PDF
7. Raster dataset in GeoDatabase
8. Network Analyst with Location allocation
9. Biodiversity Analyst
10. Viewshed analysis

# Get Free Trial



[www.supergeotek.com](http://www.supergeotek.com)



# Upcoming Events

## SuperGIS Webinar

- 25 March Mobile GIS

## Exhibition

- 25-29 May  
Lisbon Congress Center, Portugal



# win **FREE LICENSE** of SuperGIS Desktop

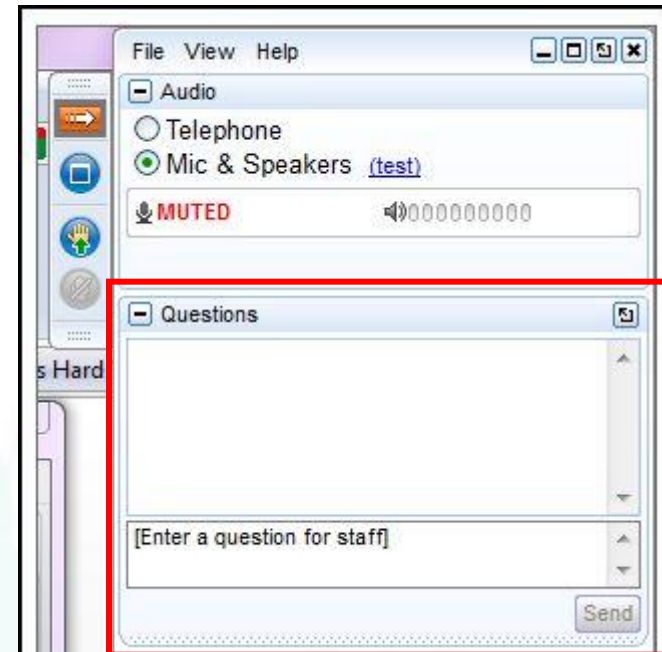


The image shows a screenshot of the Supergeo Facebook page. At the top, there is a search bar with the text "Supergeo" and a magnifying glass icon. Below the search bar is a large banner image featuring a globe with a cityscape and a highway. The banner text reads "Powerful, Affordable, Reliable" and "Your Superior GIS Software Choice". Below the banner are five icons representing different software components: a computer monitor, a smartphone, a server rack, a gear, and a location pin. The icons are labeled "Server", "Developer", and "Solutions". In the bottom left corner of the banner, there is a small Supergeo logo. Below the banner, the page name "Supergeo" and the category "Internet/Software" are displayed. At the bottom of the banner, there are three buttons: "Like", "+ Follow", and "Message". The "Like" button is highlighted with a blue box. Below the banner, there is a navigation menu with the following items: "Timeline", "About", "Photos", "Likes", and "More".

1. LIKE
2. SHARE
3. VOTE



# Q&A Time



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