Data Import & Export

SuperMap Software Co., Ltd.

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TO BE THE GLOBAL LEADING GIS

Course Overview

1. GIS Data sources
2. Import Data of Other Formats
3. Export SuperMap Data to Other Formats

The acquisition of GIS data is a primary task for the construction of a GIS system, and it's also one of the issues with most cost of human and financial resources.

Data is the Lifeblood of GIS

GIS Data Sources

Map data (e.g. paper map and electronic map)

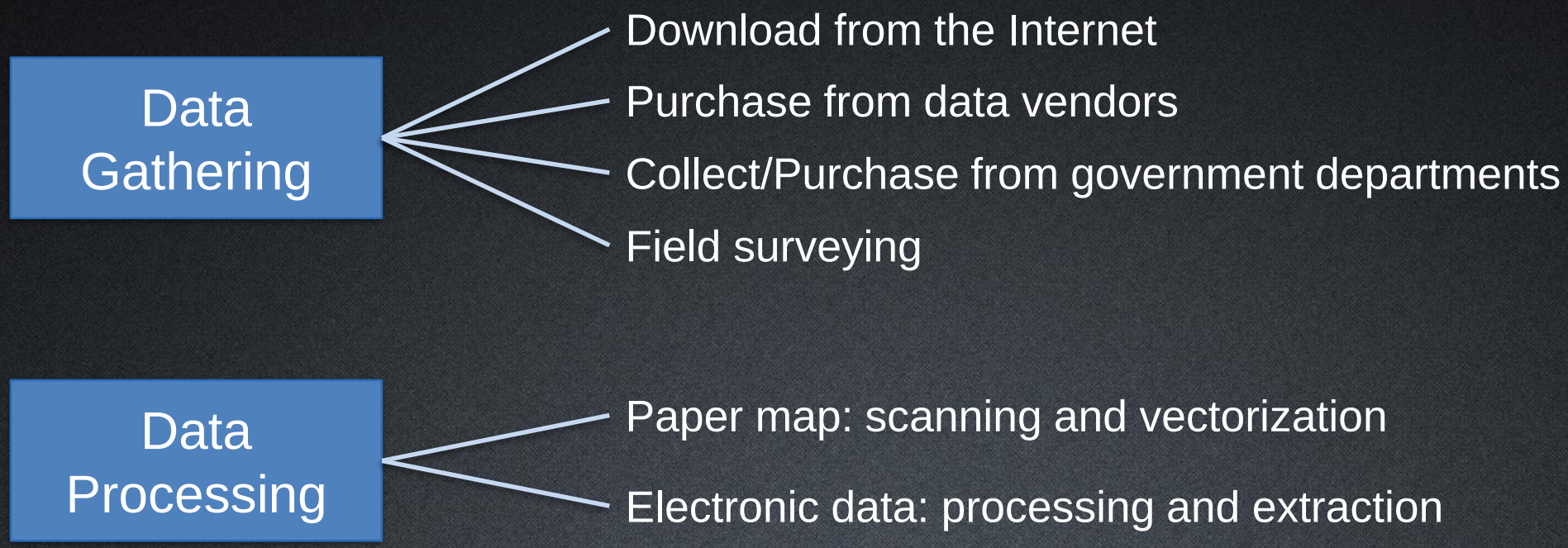
Remote sensing image data

Field surveying data (e.g. GPS data)

Digital data (e.g. the data from statistical yearbook)

Text reports

GIS Data Sources



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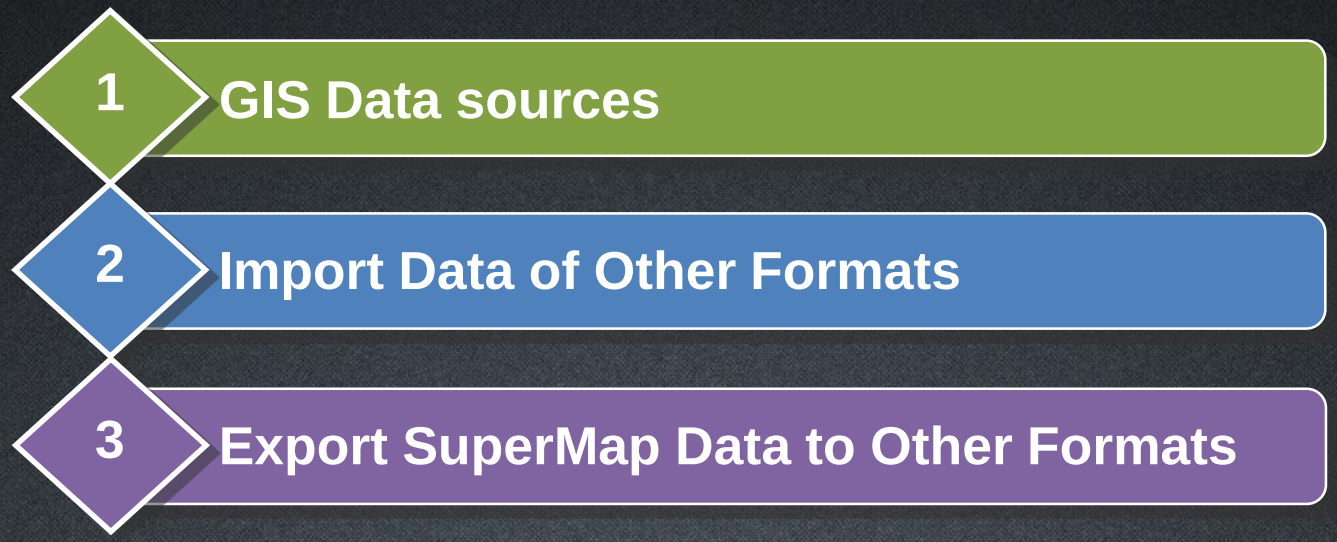


Data formats

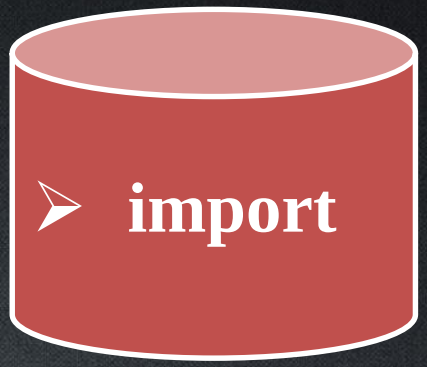
Vector data

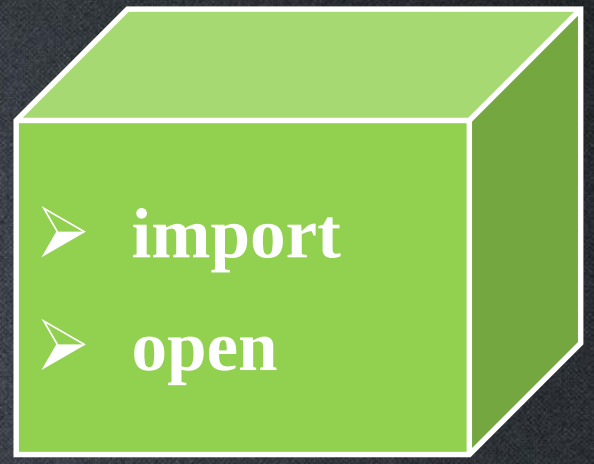
- CAD General Format (*.dxf/*.dwg)
- GIS General Format (*.mif/*.shp/…)
- Tabular data (*.csv)
- ……

Raster data

- General Image Format (*.bmp/*.jpg/*.tiff/…)
- Compression Format (*.sit)
- ……

Integration Approach





Exercise:

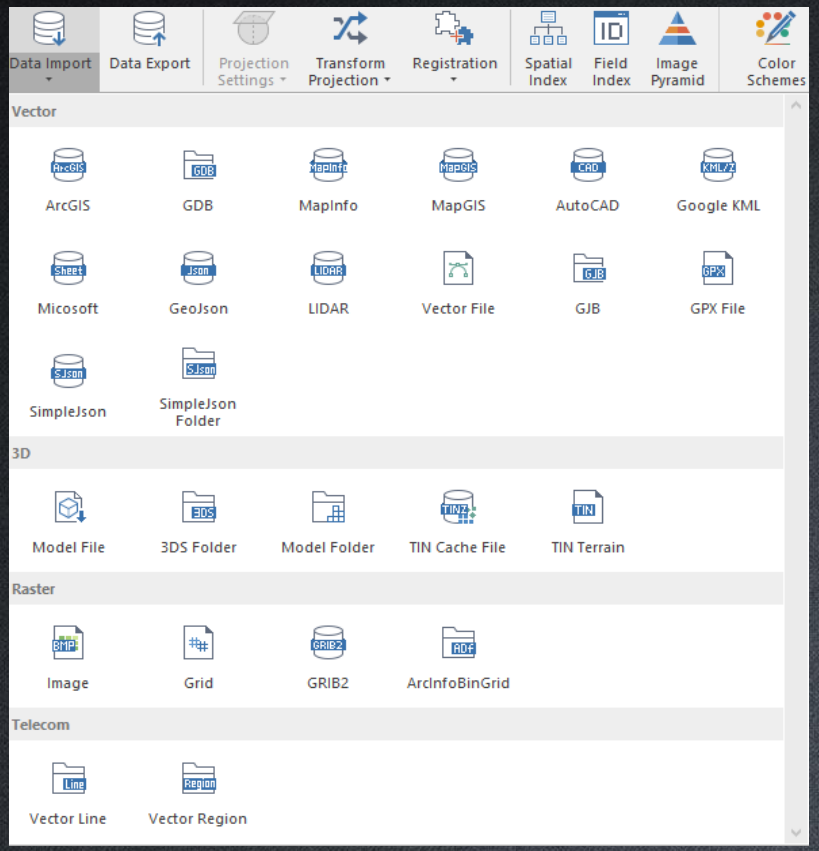
- Import IMAGE.jpg
- Data location:
  - Data\05-jpg\IMAGE.jpg

Supported Formats

All Files (*.dxf;*.dwg;*.grd;*.txt;*.dem;*.asc;*.shp;*.tab;*.mif;*.kml;*.kmz;*.wat;*.wal;*.wap;*.wan;*.csv;*.bmp;*.jpg;*
AutoCAD(*.dxf;*.dwg;*.dgn)
ArcGIS(*.grd;*.txt;*.dem;*.asc;*.shp;*.E00;*.dbf;*.mdb)
MapInfo(*.tab;*.mif;*.wor)
Google KML(*.kml;*.kmz)
MapGIS(*.wat;*.wal;*.wap;*.wan)
Micosoft(*.csv;*.xlsx)
Image Bitmap File(*.bmp;*.jpg;*.jpeg;*.png;*.gif;*.img;*.sit;*.tif;*.tiff;*.sid;*.ecw;*.jp2;*.jpk)
Raster File(*.raw;*.b;*.bin;*.bil;*.bsq;*.dem;*.bip;*.vrt)
3D Model File(*.osgb;*.osg;*.s3m;*.s3mb;*.s3mbz文件;*.3ds;*.x;*.dxf;*.obj;*.ifc;*.fbx;*.dae;*.stl;*.off;*.sgm;*.skp)
LIDAR File(*.txt)
TIN(*.tinz;*.sct)
Vector File(*.vct;*.json;*.gpx;*.osm)
GRIB2 File(*.grib2)
Geo3DML(*.xml)
Oblique Photograph(*.scp)

Vector Data Import—CAD Format

- Pay attention to the Type parameter



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Exercise:

- Import LightingPlan.dwg as CAD dataset
- Import LightingPlan.dwg as simple datasets
- Data location:
  - Data\01-CAD\LightingPlan.dwg

Vector Data Import—CAD Format

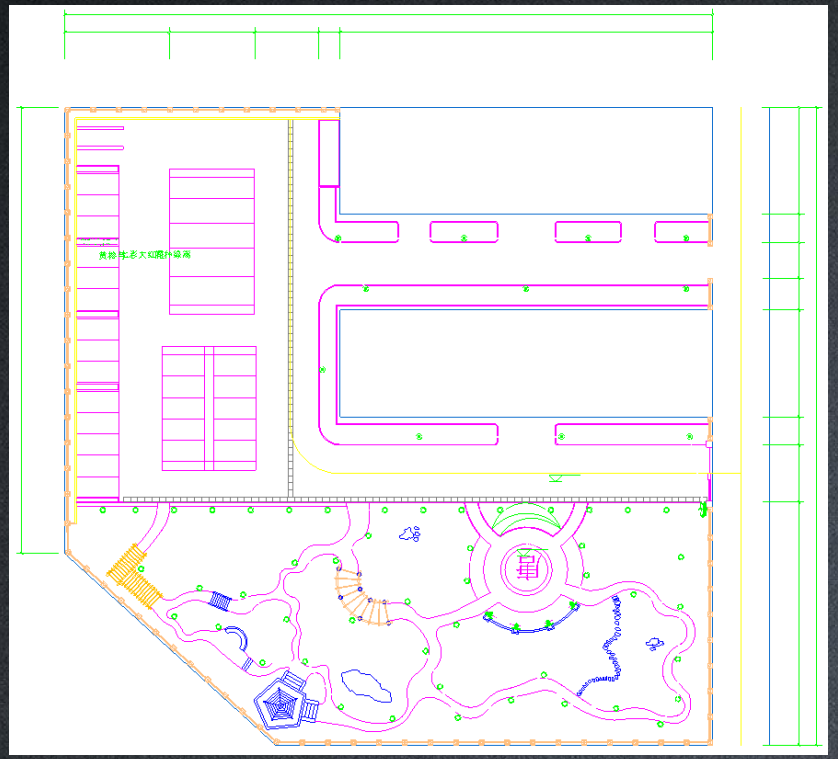
- Comparison of import results

Import Type	Result	Original CAD Style	Spatial Analysis
CAD Dataset	Point, Line, Region, and Text are stored together	Imported	Not Supported
Simple Dataset	Point, Line, Region, and Text are stored separately	Not Imported	Supported

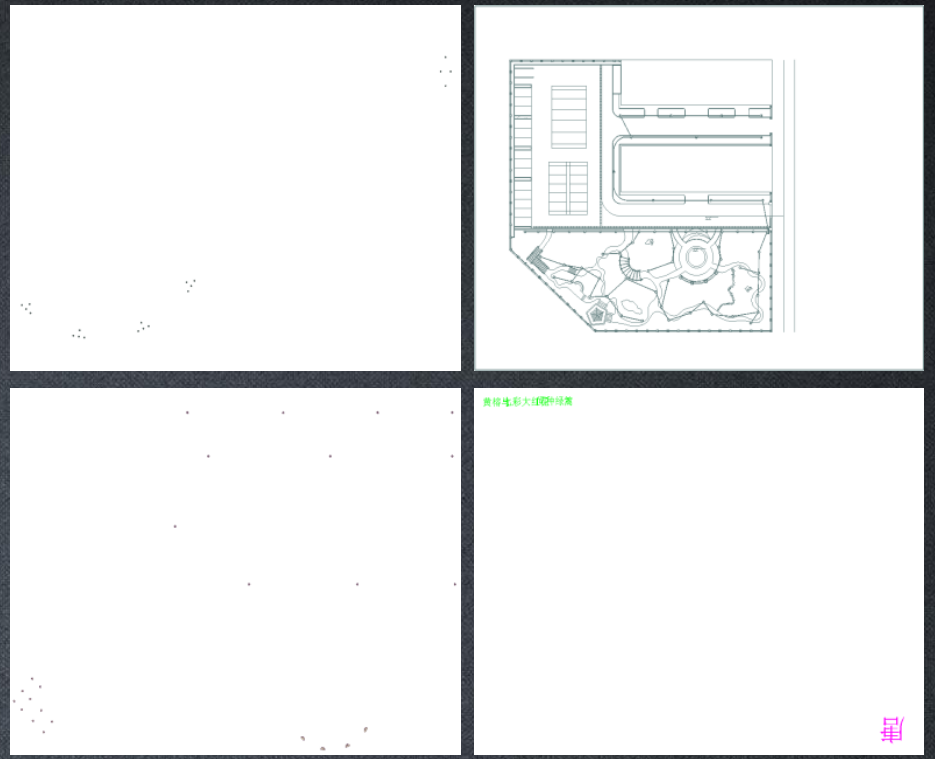
Vector Data Import—CAD Format

- Comparison of import results

CAD Dataset

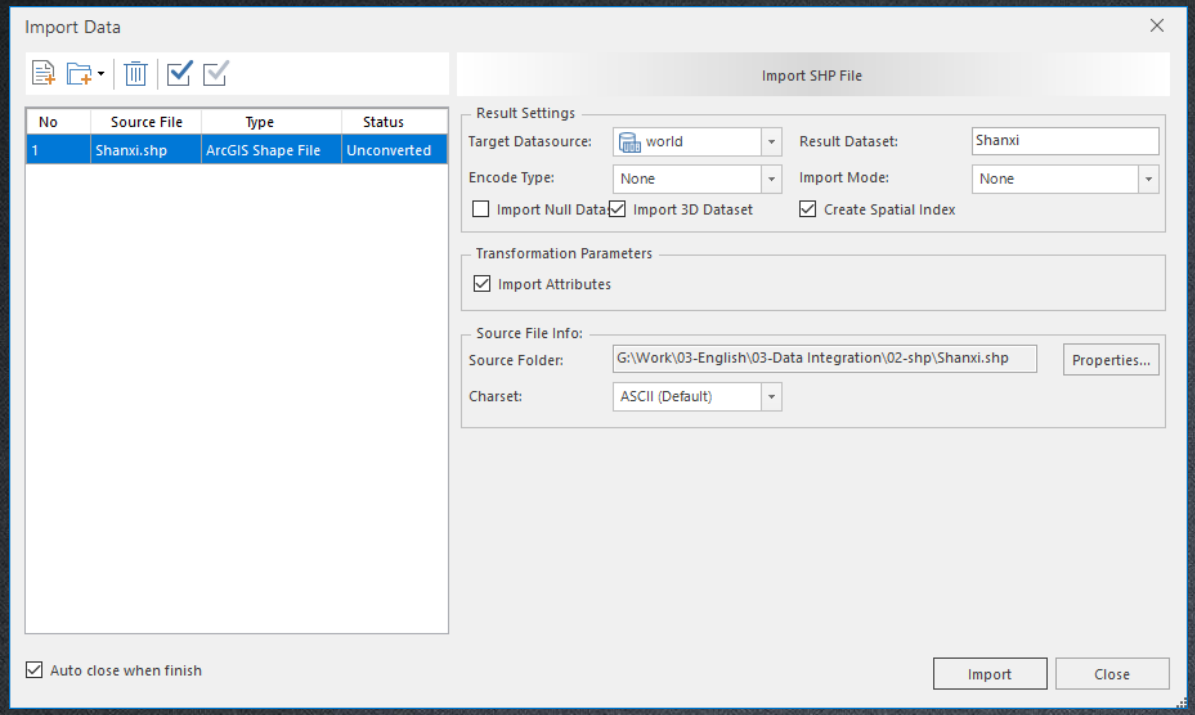


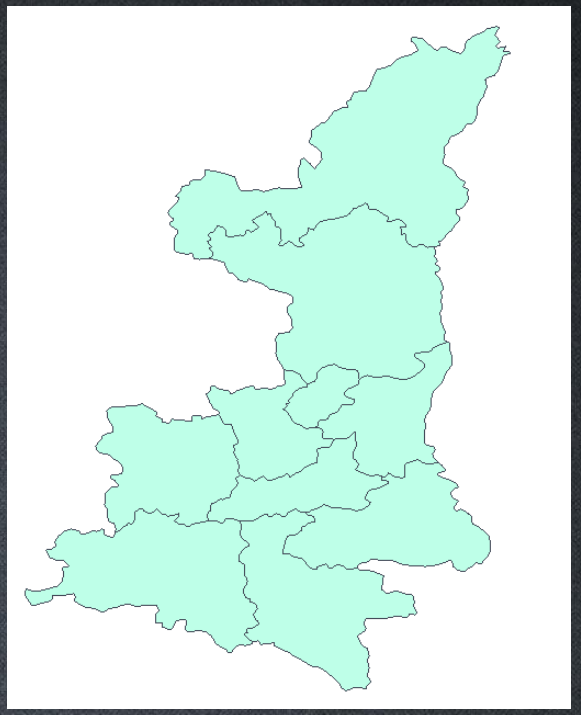
Simple Dataset



Vector Data Import—GIS Format

- MapInfo format (*.mif;*.tab;*.wor)
- ArcGIS format (*.shp;*.grd;*.txt;*.e00)
- MapGIS format (*.wat;*.wal;*.wap;*.wan)
- …





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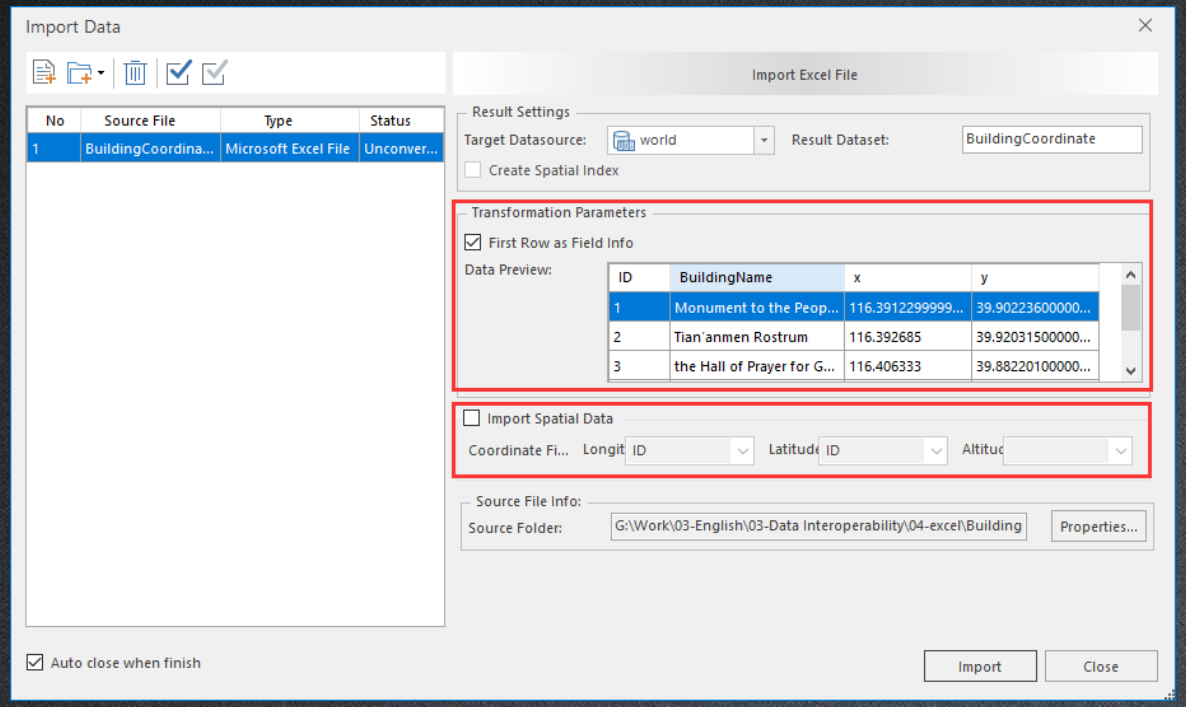
Exercise:

- Import Shaanxi.shp into the target datasource
- Data location:
  - Data\02-shp\Shaanxi.shp

Vector Data Import—Attribute Table

- Attribute Files (*.csv;*.xlsx)
- Functions of Attribute Files
  - Convert it into point dataset
  - Associate it with other spatial dataset



Attention:

✓ First Row as Field info

✓ Import Spatial Data

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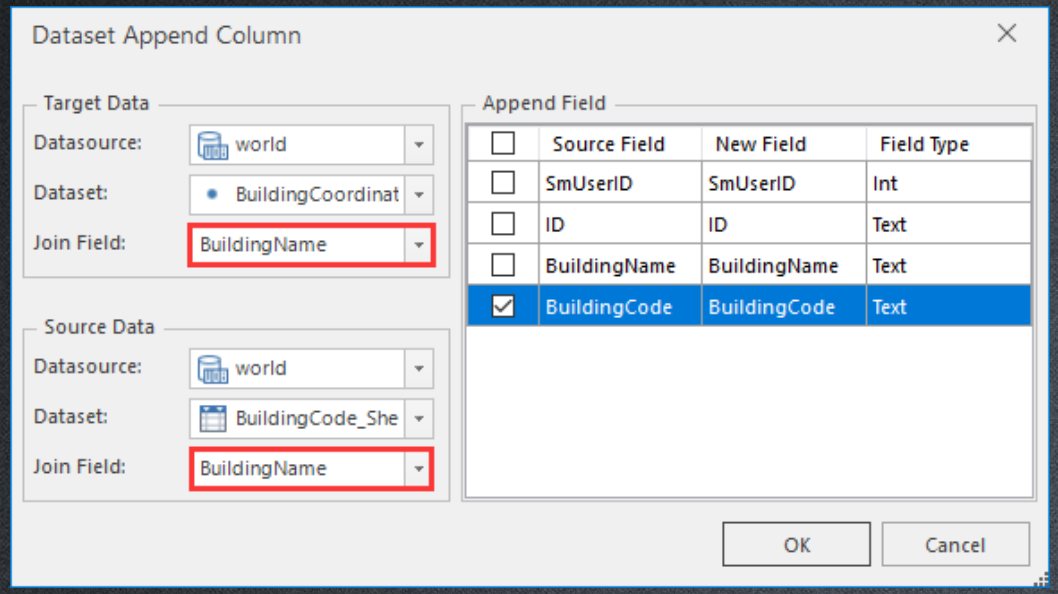
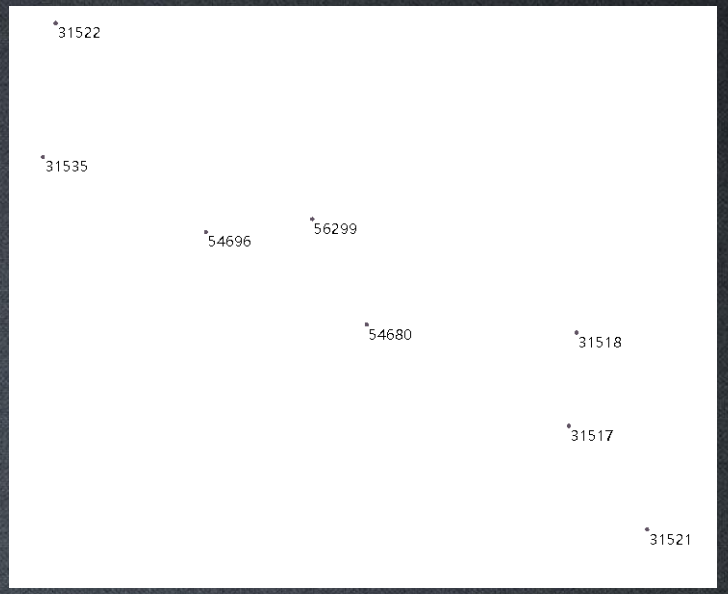
Exercise:

- Import BuildingCoordinate.xlsx file as well as its spatial data
- Import BuildingCode.xlsx and append its building code into the former dataset
- Data location:
  - Data\03-excel\BuildingCoordinate.xlsx
  - Data\03-excel\BuildingCode.xlsx





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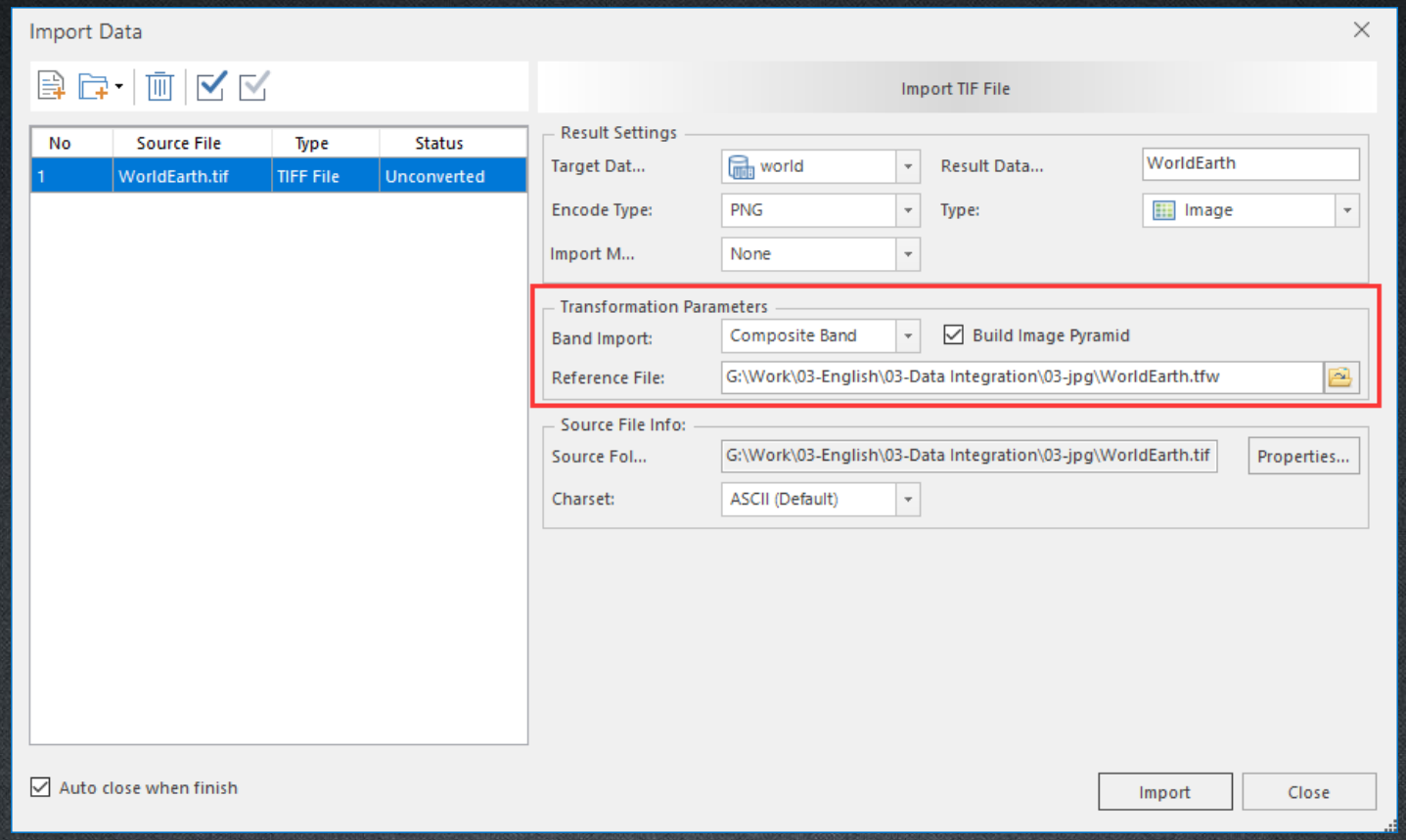
Raster Data Import

- General image files (*.bmp;*.jpg;*.png;*.tiff;etc.)
- Compression image files (*.sit)



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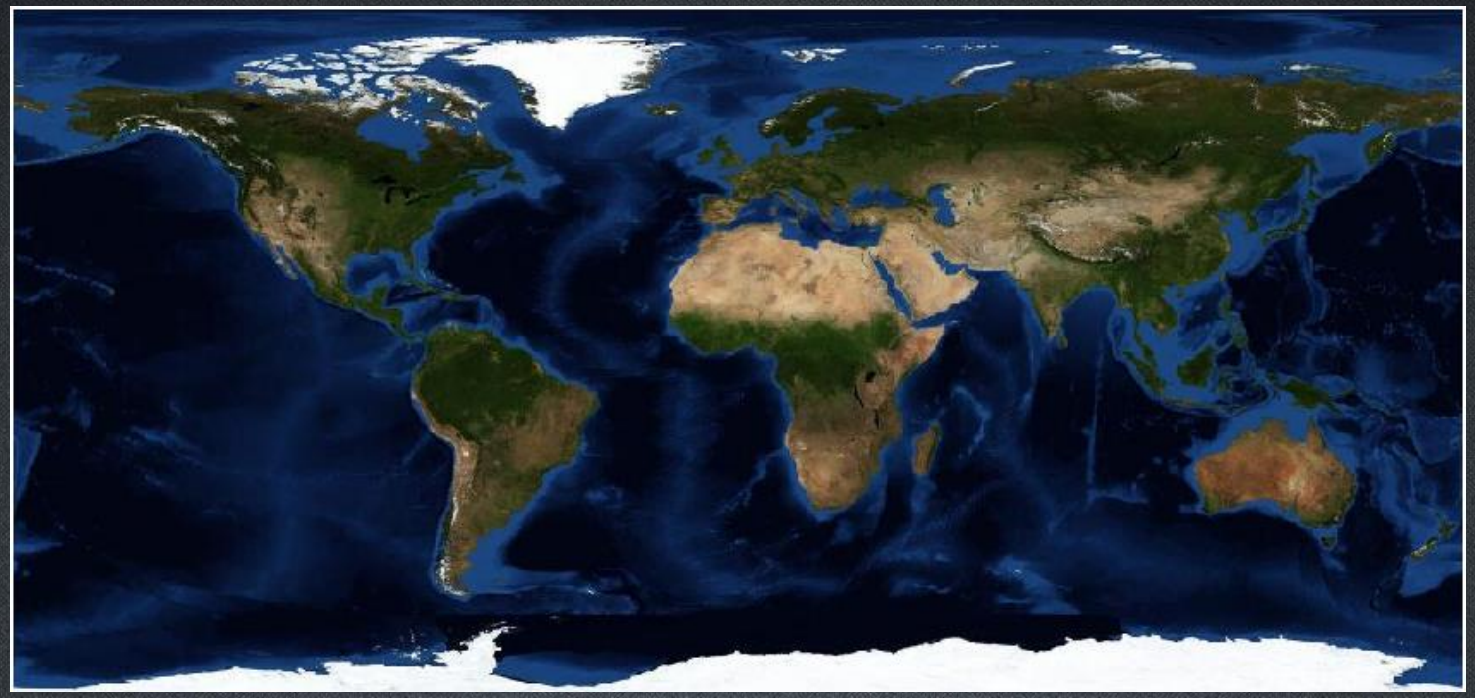
Exercise:

- Import WorldEarth.tif into the target datasource
- Data location:
  - Data\04-tif\WorldEarth.tif



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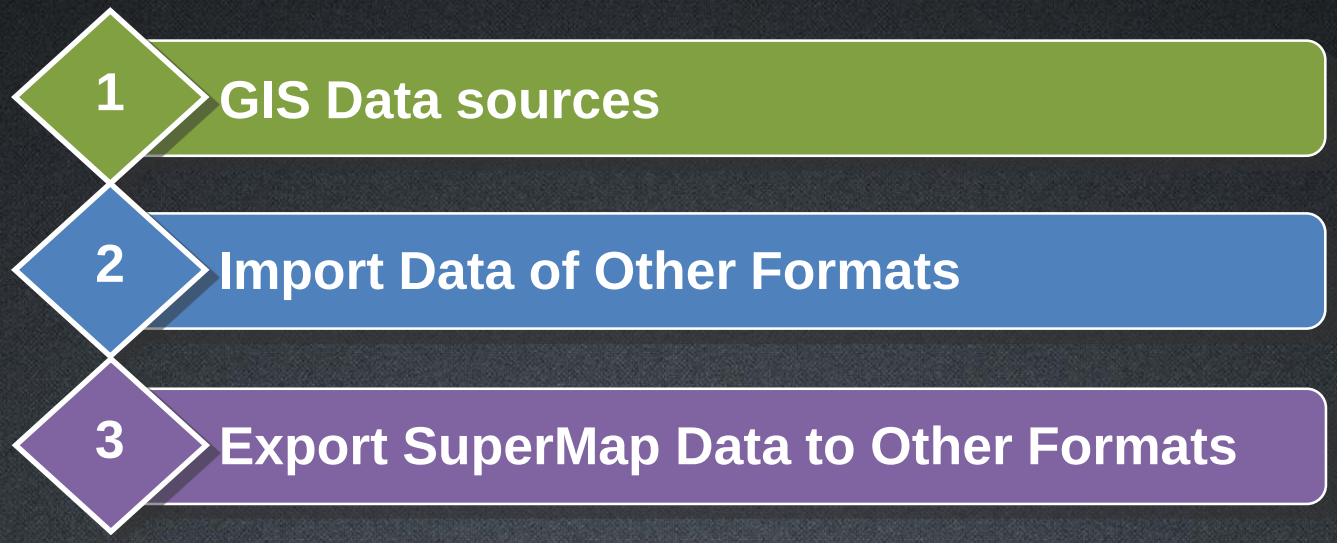

Exercise:

- Export a vector dataset into .shp format file
- Export a raster dataset into .sit format file
- …

Thank You!

Website: www.supermap.com

Email: globalsupport@supermap.com

Skype: supermapsupport

MSN: globalsupport@supermap.com

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