



SuperMap Software Co., Ltd.

Integrated Solution for Oblique Photogrammetry and GIS Platform

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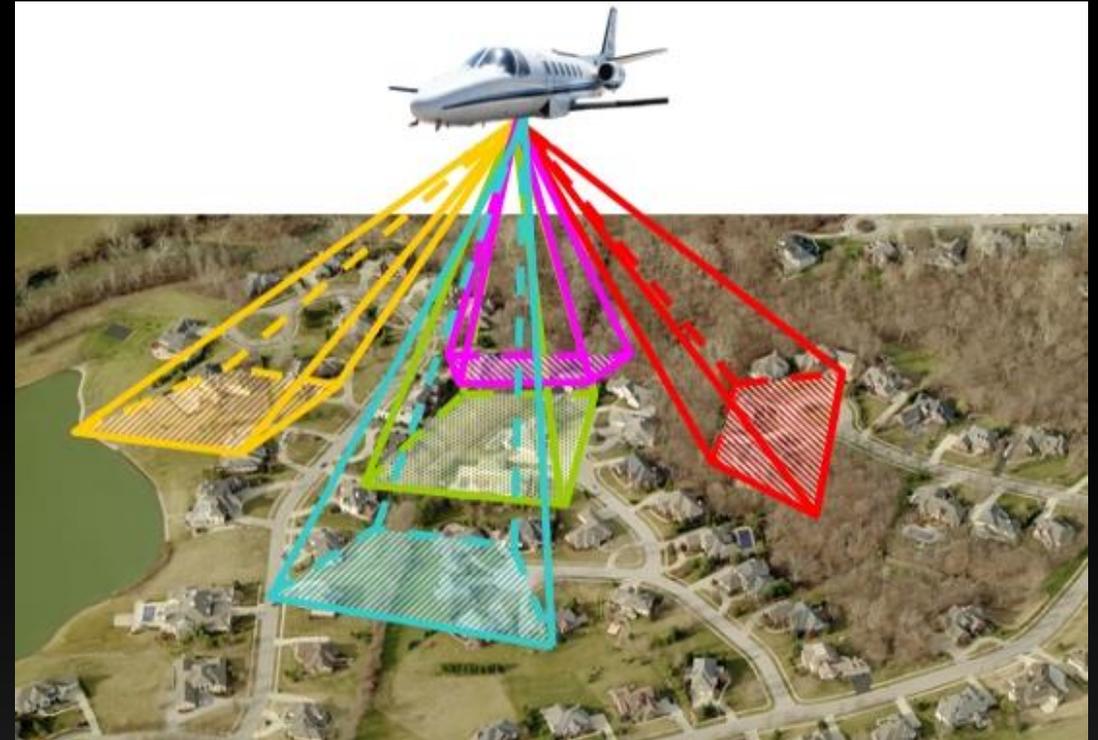
Oblique Photogrammetry Technology Overview

Oblique Photogrammetry Technology

Oblique Photogrammetry is a technology that uses multiple sensors on the same flight platform to capture images from different angles, such as one vertical and four side view angles.



An evolved Photogrammetry technology



Technical Features

- Multi-angle aerial photography with high resolution
- Realistic models with rich information
- Batch modeling increases efficiency and reduces cost



Industry Chain for Oblique Photogrammetry



Aircraft

Oblique cameras

Fly

Modeling
and
optimization

3D GIS
platform

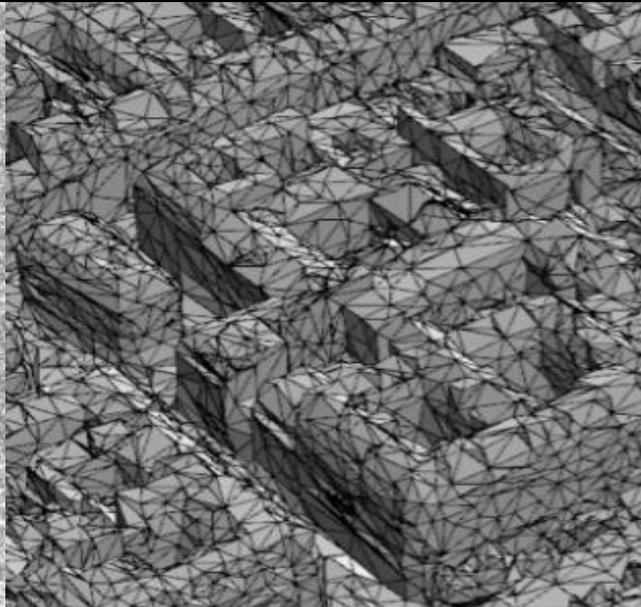
Applications



Automated Modeling for Oblique Photogrammetry



Point cloud data



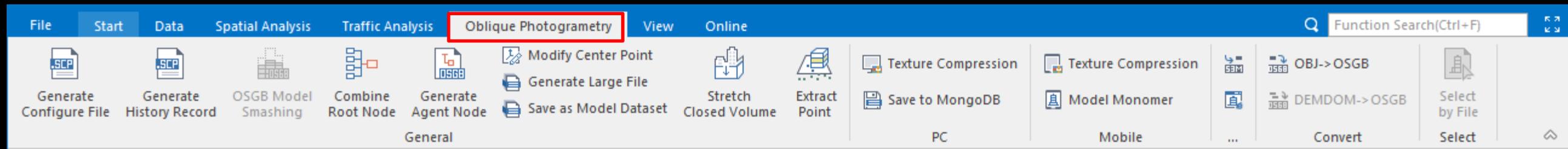
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Oblique photogrammetry models

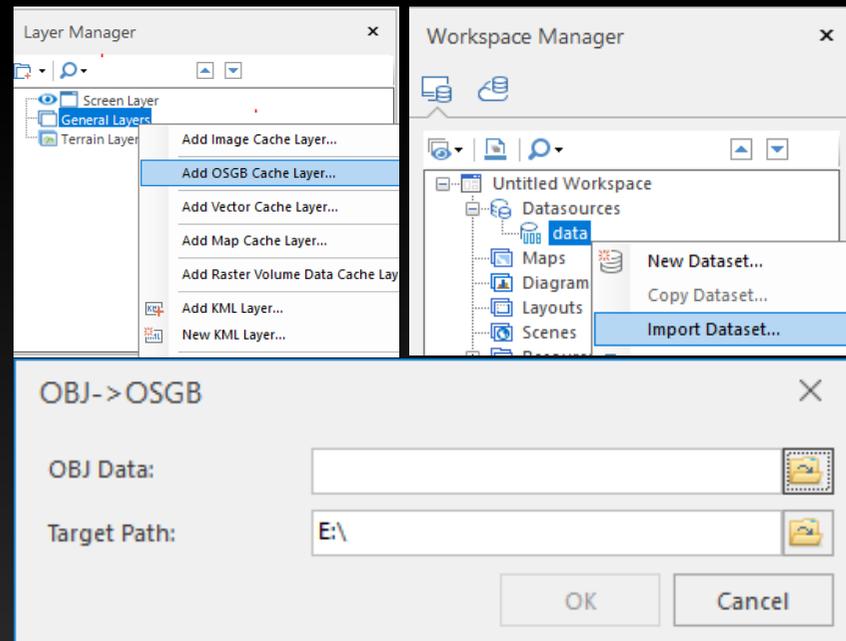
Model Loading & Performance Optimization

Oblique Photogrammetry Toolbox (iDesktop)



Support of Oblique Photogrammetry Data

- Data integration
 - Support direct loading of OSGB format oblique photogrammetry models
 - Load OBJ format models after converting into OSGB format
 - Import as model datasets through the Import Dataset command



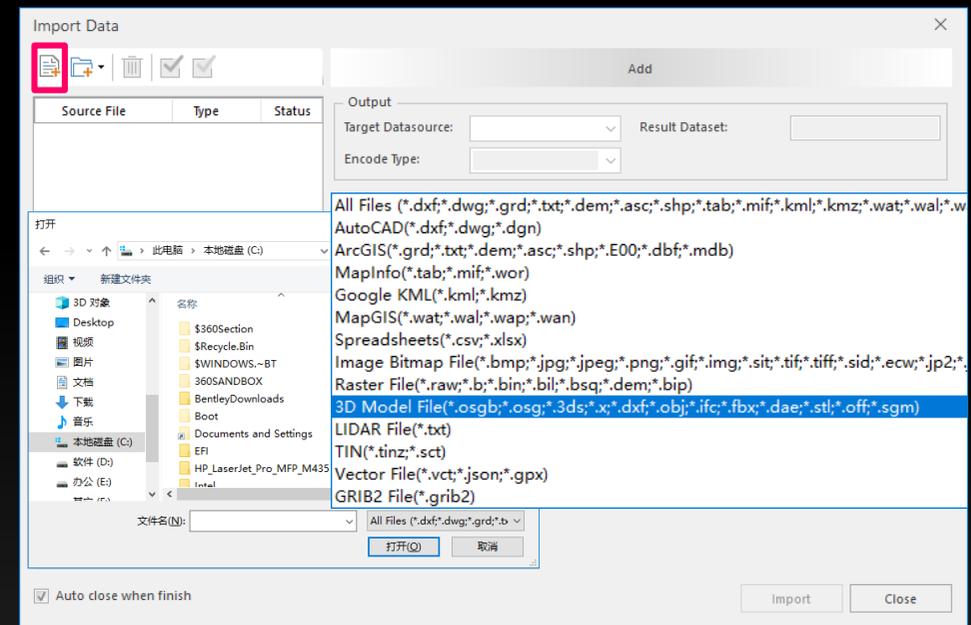
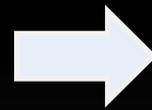
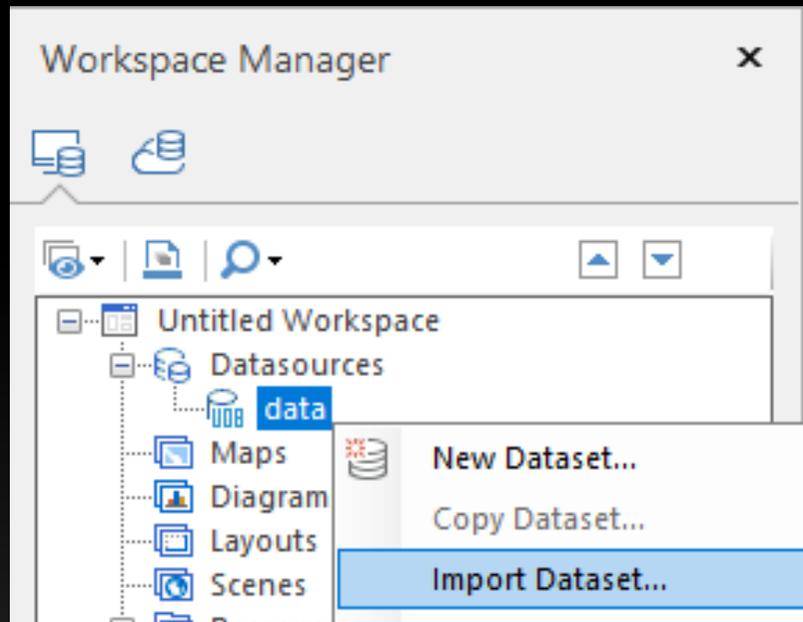
Support of Oblique Photogrammetry Data

- Generate the configuration file and read models through the configuration file

The image displays a software interface with a ribbon menu. The 'Oblique Photogrammetry' ribbon is active, showing various tools. The 'Generate Configuration File' tool is highlighted with a red box. Below the ribbon, a dialog box titled 'Generate OSGB Config File' is open. The dialog has several sections: 'Input' with 'Source Folder' set to 'D:\Program Files\Supe'; 'Output' with 'Target Path' set to 'D:\Program Files\Supe' and 'Target File Name' set to 'Config'; 'Model Reference (Model Center)' with X: 43.296389, Y: 5.37, and Z: -30; 'Projection Settings' with 'Projection Settings' selected; and 'Reference Transformation Settings' with 'Method' set to 'Geocentric Translation[2]'. A yellow arrow points from the 'Generate Configuration File' tool to the dialog box. To the right, a 'Layer Manager' window is open, showing a list of layers. The 'Add OSGB Cache Layer...' option is highlighted with a red box. A yellow arrow points from the dialog box to the 'Layer Manager' window. A yellow text '* .scp' is positioned above the arrow pointing to the Layer Manager.

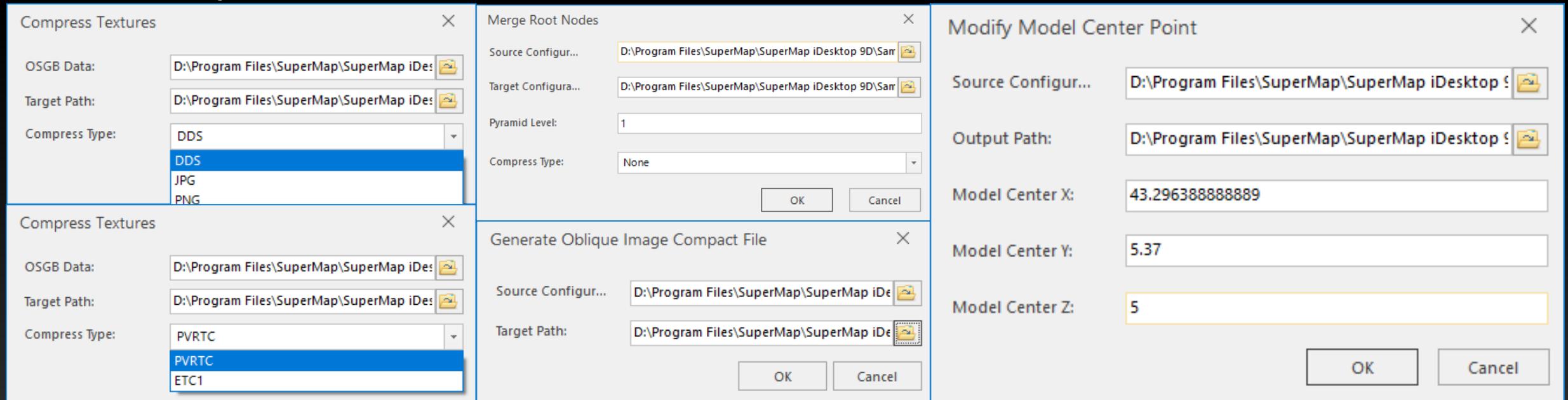
Support of Oblique Photogrammetry Data

- Import oblique photogrammetry model data as model dataset through the Import Dataset command



Support of Oblique Photogrammetry Data

- Performance optimization:
 - Compress Textures helps compress original OSGB data in batch
 - Generate Oblique Image Compact File helps enhance loading and browsing efficiency of models
 - Merge Root Nodes helps generate models of a more coarse LOD level
 - Modify Model Center Point helps merge center points of multiple models into a single center point





Thank You!

