Models in 3D Scene

SuperMap Software Co., Ltd.



TO BE THE GLOBAL LEADING GIS

Overview



Rapid Modeling by Vector Stretching

3Ds Max Model

Animation Model

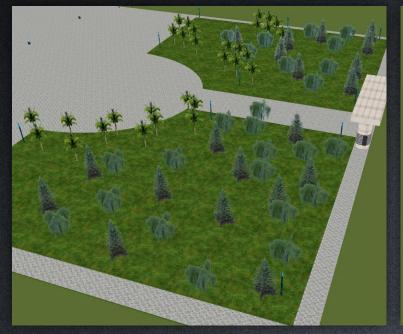
Oblique Photographic Model

BIM



3D Symbolization

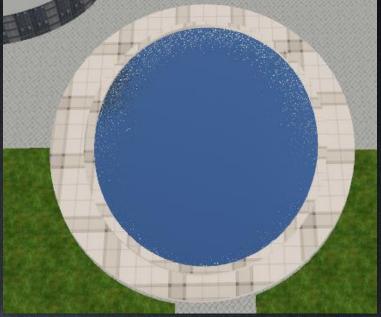
- Vector rendering
 - 3D Symbolization of point, line and polygon



Symbolize 2D Point



Symbolize 2D Line



Symbolize 2D Polygon



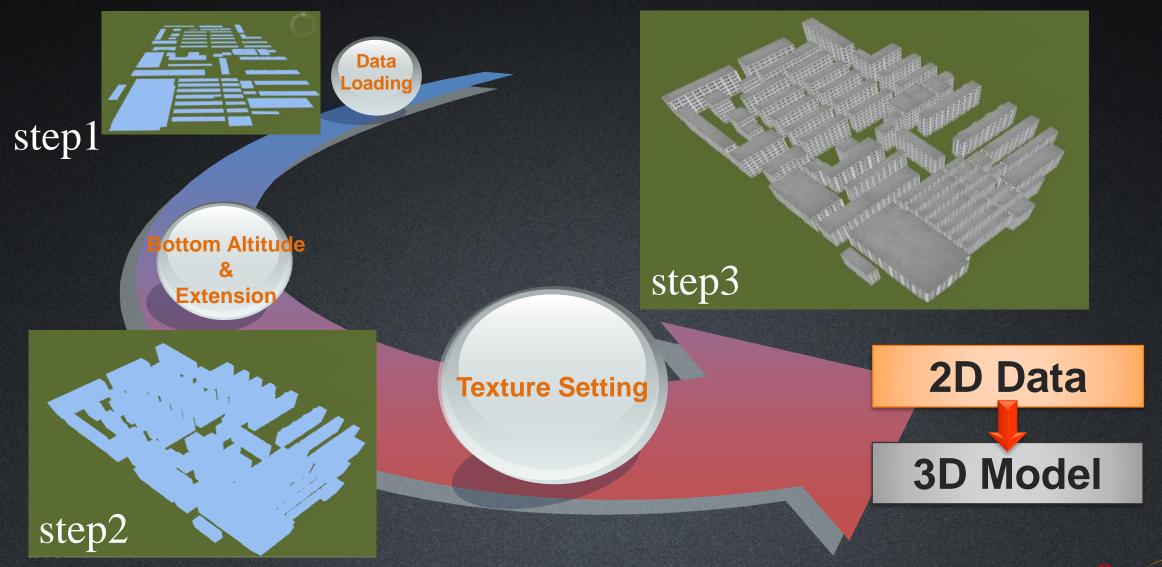
- Data for exercise: \Data\RapidModeling\Rapidmodeling.smwu
- Open RapidModeling workspace, add all datasets in the RapidModeling datasource into a new spherical scene and reorder the layers
- Render the StreetLamp point layer by Right Click -> Layer Style Settings...
- Import the marker symbol library from the Data\SymbolResources to help rendering
- Render the Tree point layer by Right Click -> Create Thematic Map...
- Render the Car point layer and the Trashcan point layer



- Render the Road layer by Right Click -> Layer Style Setting...
- Import the line symbol library from the Data\SymbolResources to help rendering
- Render the Water layer by Right Click -> Layer Style Setting...
- Import the fill symbol library from the Data\SymbolResources to help rendering
- Set the Water layer's Altitude Mode under the Styles menu to Absolute
- Render the ParkingSpace layer



Rapid Modeling By Vector Stretching



- Make some models by vector stretching.
 - Fence layer
 - Building_2 layer
 - Ground layer
 - PoolEdge layer
- Make unique thematic map, stretch each item and set their textures
 - Building_1 layer

Thematic Map Item Texture Settings $\qquad \qquad \qquad$			
Extensive Property:	Item Property 👻		
Altitude Mode:	Absolute 👻		
Data From:	Ground		
Fill Mode:	Fill and Outline 🔹		
Base Altitude:	0		
Extended Height:	101		
Side Texture Settings			
🗹 Texture File: 🛛 🔒	Texture/building10.jpg		
Repeat Mode:	Real Size 🔹		
Tiling U:	15		
Tiling V:	8		
 Top Texture Settings — 			
Texture File: 🛛 🔒	Texture/ground1.jpg		
Repeat Mode:	Repeat Times 👻		
🗹 Tiling U:	1		
Tiling V:	1		
	Apply OK Cancel		



Preparation for vector stretch Modeling

• Data preparation :

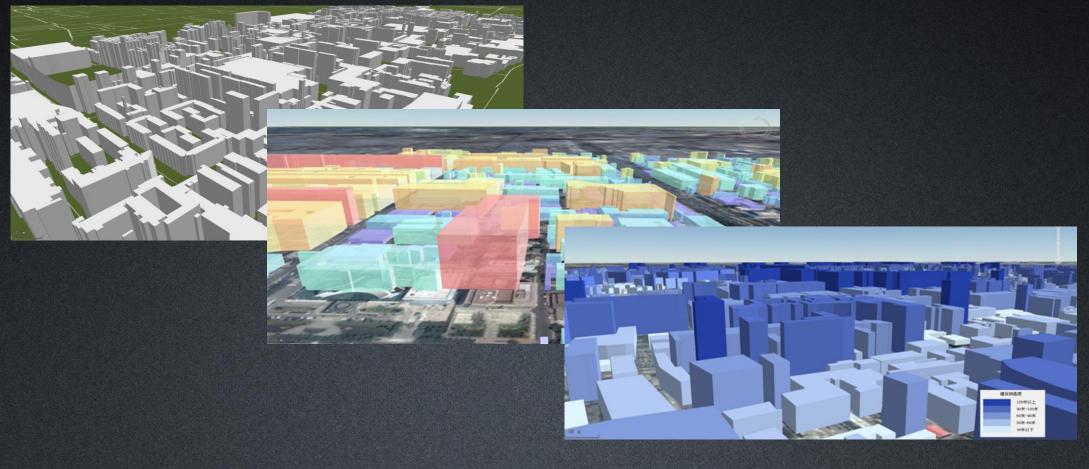
- 1. Make/Get the 2D vector dataset
- 2. Take the texture images of actual buildings
- 3. Edit the texture images in Photoshop, especially the pixels
- 4. Add fields for datasets and edit their values like:

bottom altitude, extension height, top and side texture paths, etc.



Rapid Modeling By Vector Stretching

• Applicable to the data of large and non-important area





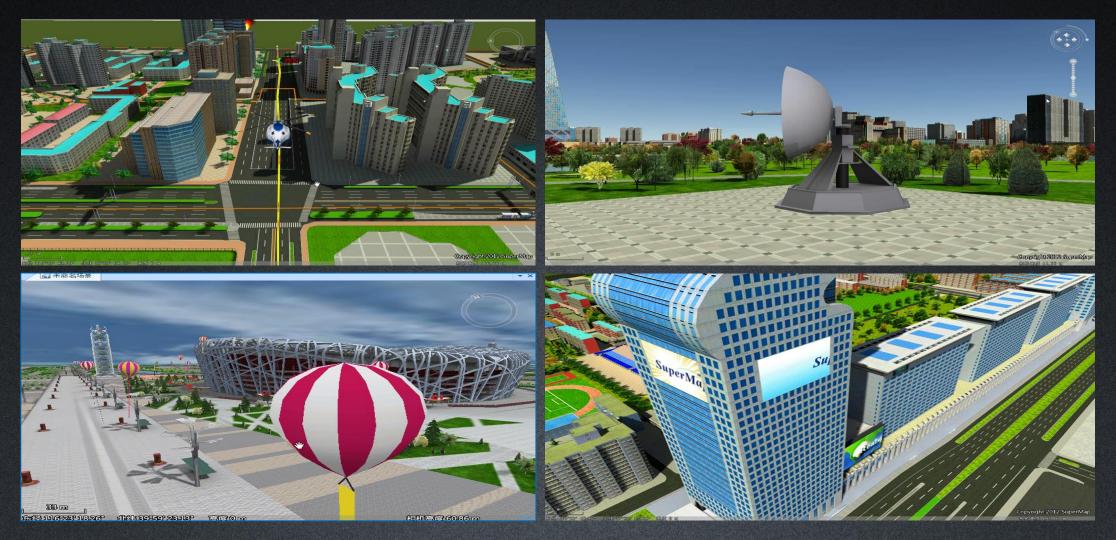
3Ds Max Model

- Applicable to important buildings in a small area
- Process to apply the 3Dx Max model
 - Make models in 3Ds Max
 - Install SuperMap 3D Plugin in 3Ds Max
 - Export models into the dataset saved in a file datasource
 - Add the dataset which stores models into a 3D Scene
- Download link:
 - <u>http://support.supermap.com.cn/DownloadCenter/Produc</u> <u>tAuxiliary.aspx</u>



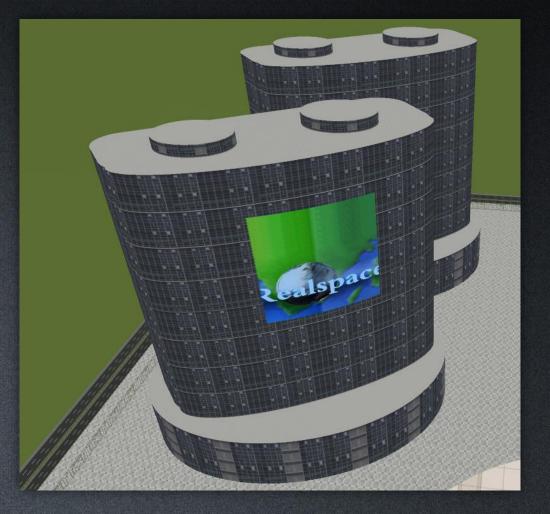


Animation Model





- Render the Adboard layer by vector stretching
 - Set the layer's Altitude Mode to Absolute
 - Set its Bottom Altitude as 80
 - Set its Extension value as 50
 - Set its texture path as: \Data\RapidModeling\Texture\Realspace.gif





Oblique Photographic Model

• S3M/OSGB files -> Generate OSGB Config File -> Add OSGB Cache Layer

→ SampleData → OSGB → Tile_0	08_006		📓 F:\SampleData\OSGB\compressed.scp - Notepad++ – 🗆 🗙
			File Edit Search View Encoding Language Settings Macro Run Window ? X
名称	类型	大小	G # H N S G & X N N 7 C # ½ ? ? ⊑ ⊑ 1 ₮ ₽ ⊠ ₽ = °
Tile 008 005 2 027 each	OSGB 文件	289 KB	🗄 compressed sop 🛛
Tile_008_006_2_037.osgb			1 <2 xml version="1.0" encoding="UTF-8" >>
Tile_008_006_2_038.osgb	OSGB 文件	226 KB	2 SuperMapCache_Unicode xmlns:sml="
Tile_008_006_2_039.osgb	OSGB 文件	222 KB	http://www.supermap.com/SuperMapCache/vectorltile">
Tile_008_006_2_040.osgb	OSGB 文件	253 KB	<pre>3 <sml:version>1.000000</sml:version> 4 O<sml:position></sml:position></pre>
Tile_008_006_2_041.osgb	OSGB 文件	259 KB	4 Example 2 Sml: POSICION 5 <sml: x="">43.296388888889</sml:>
Tile_008_006_2_042.osgb	OSGB 文件	263 KB	6 <sml:y>5.37</sml:y>
Tile_008_006_2_043.osgb	OSGB 文件		<pre><sml:z>-30</sml:z></pre>
Tile_008_006_2_044.osgb	OSGB 文件		<pre></pre> ////////////////////////////////////
Tile_008_006_2_045.osgb	OSGB 文件	234 KB	<pre><sml:gooffleb <sml:filename="">.\Tile_008_005\Tile_008_005.osgb</sml:gooffleb></pre>
Tile_008_006_2_046.osgb	OSGB 文件	279 KB	
Tile_008_006_2_047.osgb	OSGB 文件	263 KB	11 <sml:filename>.\Tile_008_006\Tile_008_006.osgb </sml:filename>
Tile_008_006_2_048.osgb	OSGB 文件	263 KB	12 <sml:filename>.\Tile_009_005\Tile_009_005.osgb</sml:filename>
Tile_008_006_2_049.osgb	OSGB 文件	289 KB	
Tile_008_006_2_050.osgb	OSGB 文件	266 KB	<pre>13 <sml:filename>.\Tile_009_006\Tile_009_006.osgb </sml:filename></pre>
Tile_008_006_2_051.osgb	OSGB 文件	237 KB	14 -
Tile_008_006_2_052.osgb	OSGB 文件	271 KB	15
Tile_008_006_2_053.osgb	OSGB 文件	260 KB	
Tile_008_006_2_054.osgb	OSGB 文件	305 KB	



BIM

- 1. Use specific plugin to export the BIM models into a file datasource
- 2. Open the dataset which stores the BIM models in iDesktop
- 3. Optimize the BIM models in iDesktop
- 4. Add the BIM models into a 3D scene





Thank You!

Website: <u>www.supermap.com</u>

Email: globalsupport@supermap.com

Skype: <u>supermapsupport</u>

MSN: globalsupport@supermap.com

