

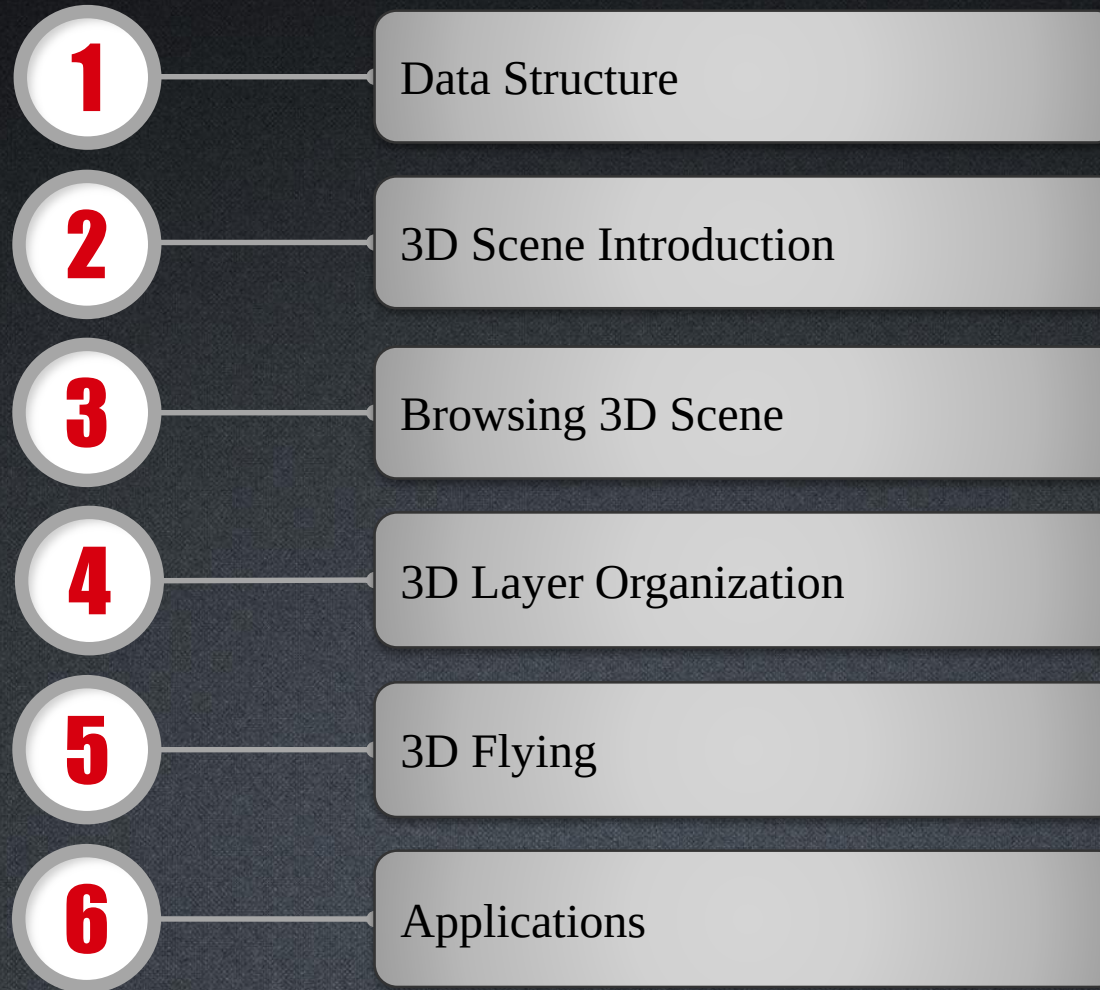
Organization and Application of 3D Data

SuperMap Software Co., Ltd.

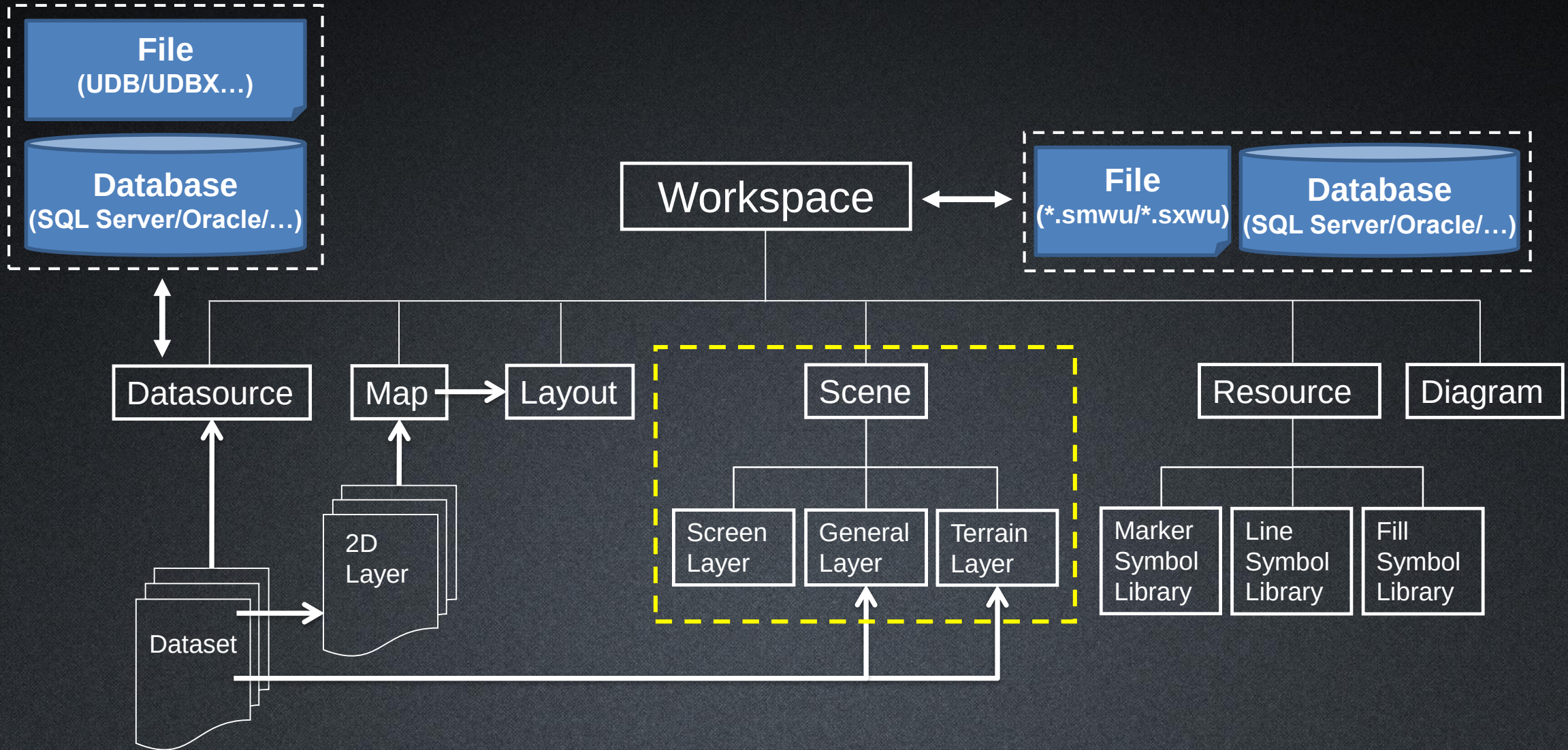


TO BE THE GLOBAL LEADING GIS

Overview

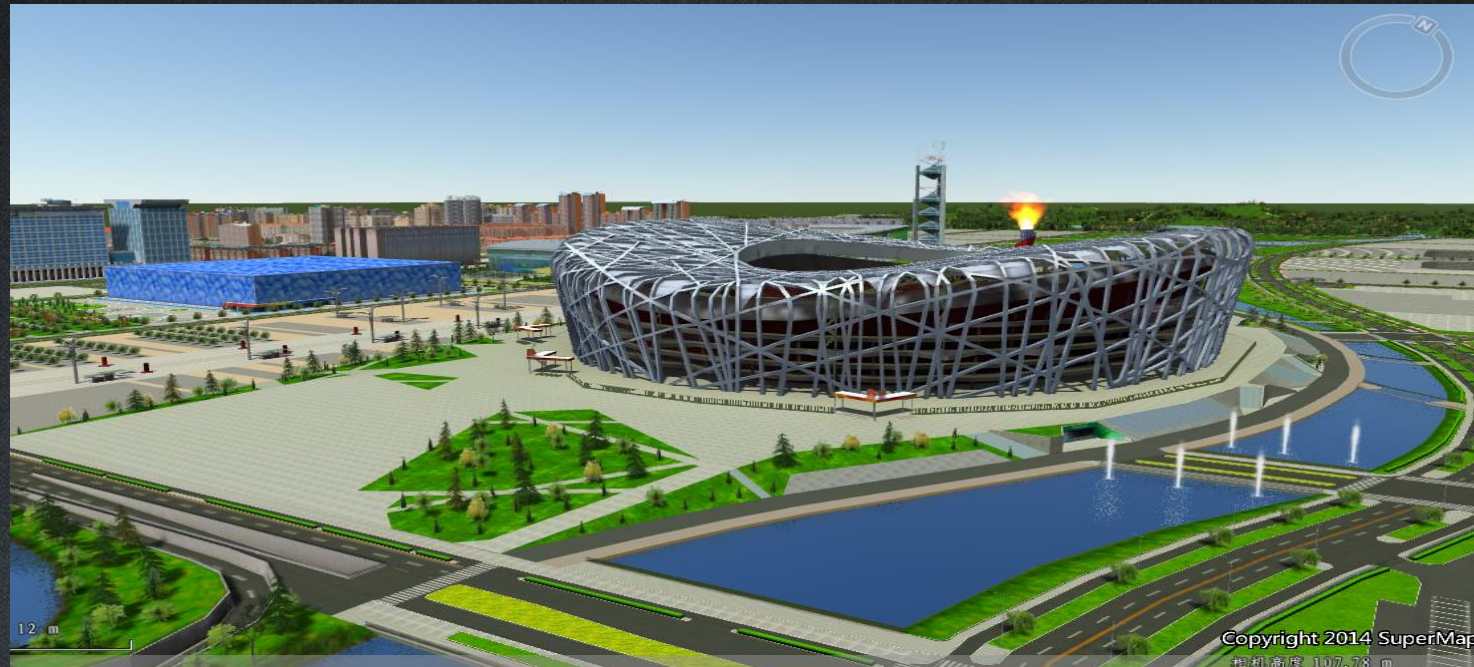


Data Structure



3D Scene Introduction

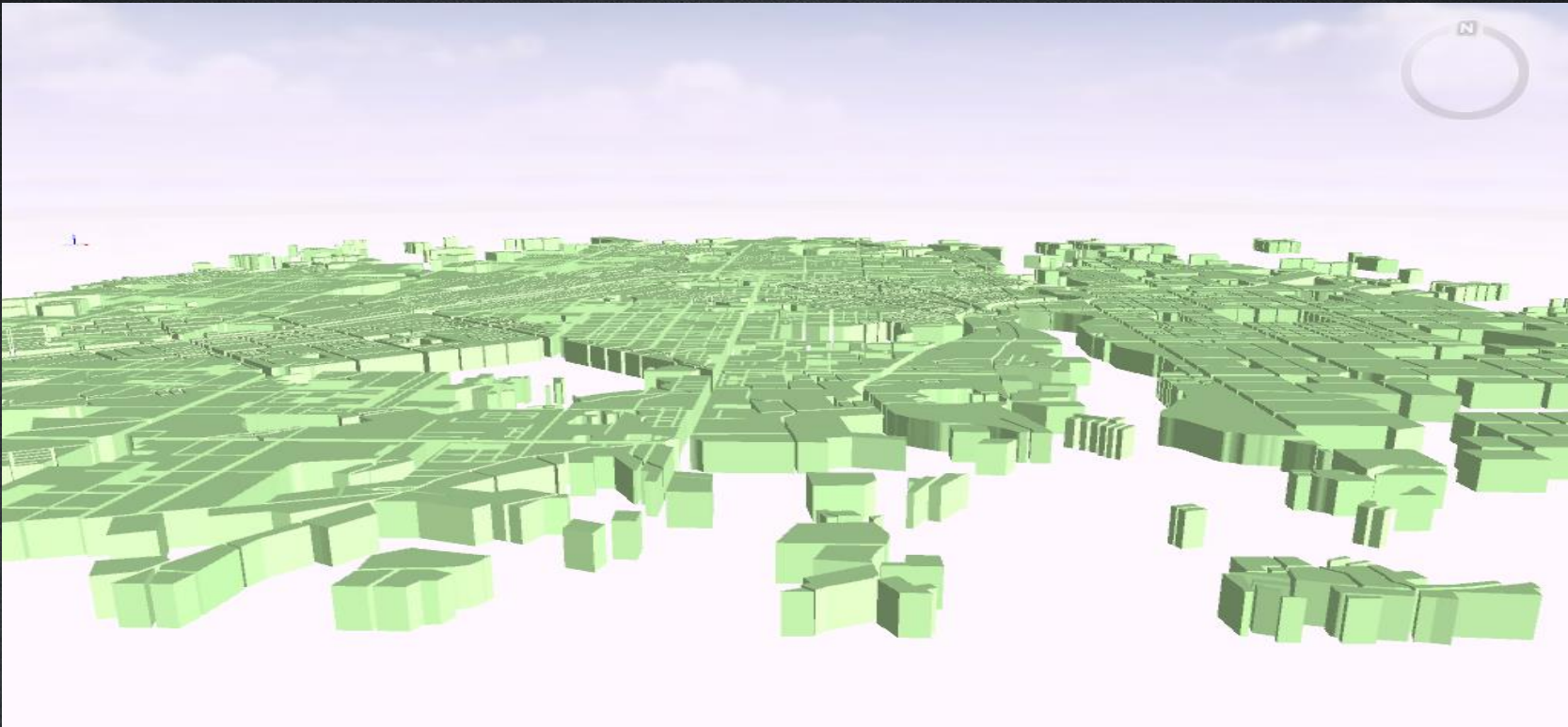
- The 3D scene uses virtualized technology to simulate various geographic features and their spatial relationships in the real world.



- There are two view modes of 3D scene, a plane scene and a spherical scene.

Plane Scene

- The surface of the earth is spread out into a plane to load and display features.
 - Planar Coordinate System data and Projected Coordinate System data are supported
 - To display the ocean, atmosphere, graticule or graticule label are **not supported**



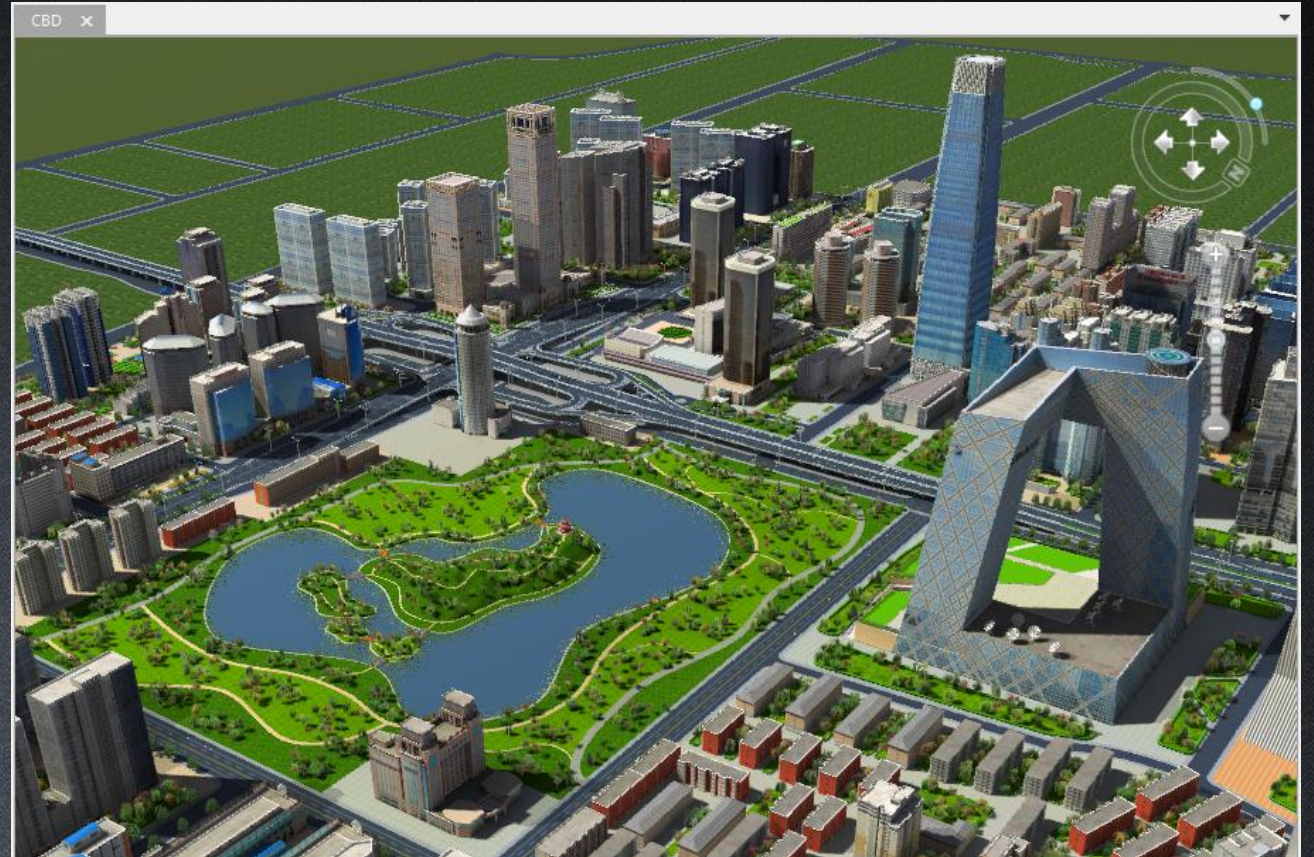
Spherical Scene

- The spherical scene simulates the surface of the earth with a sphere.



Browsing 3D Scene

- Use compass, keyboard or mouse
- Control the display scene elements
- Browse features' properties
- Measure in the scene



3D Layer Organization

- Screen Layer
 - Static graphics such as logo, descriptions...
- General Layer
 - 2D data (point, line, polygon, text, CAD, map...)
 - 3D data (3D point, 3D line, 3D polygon, model, image, grid...)
 - Cached data (image, grid, vector, map, model and OSGB cache...)
 - Service layer
 - KML layer
- Terrain Layer
 - DEM, grid, terrain cache

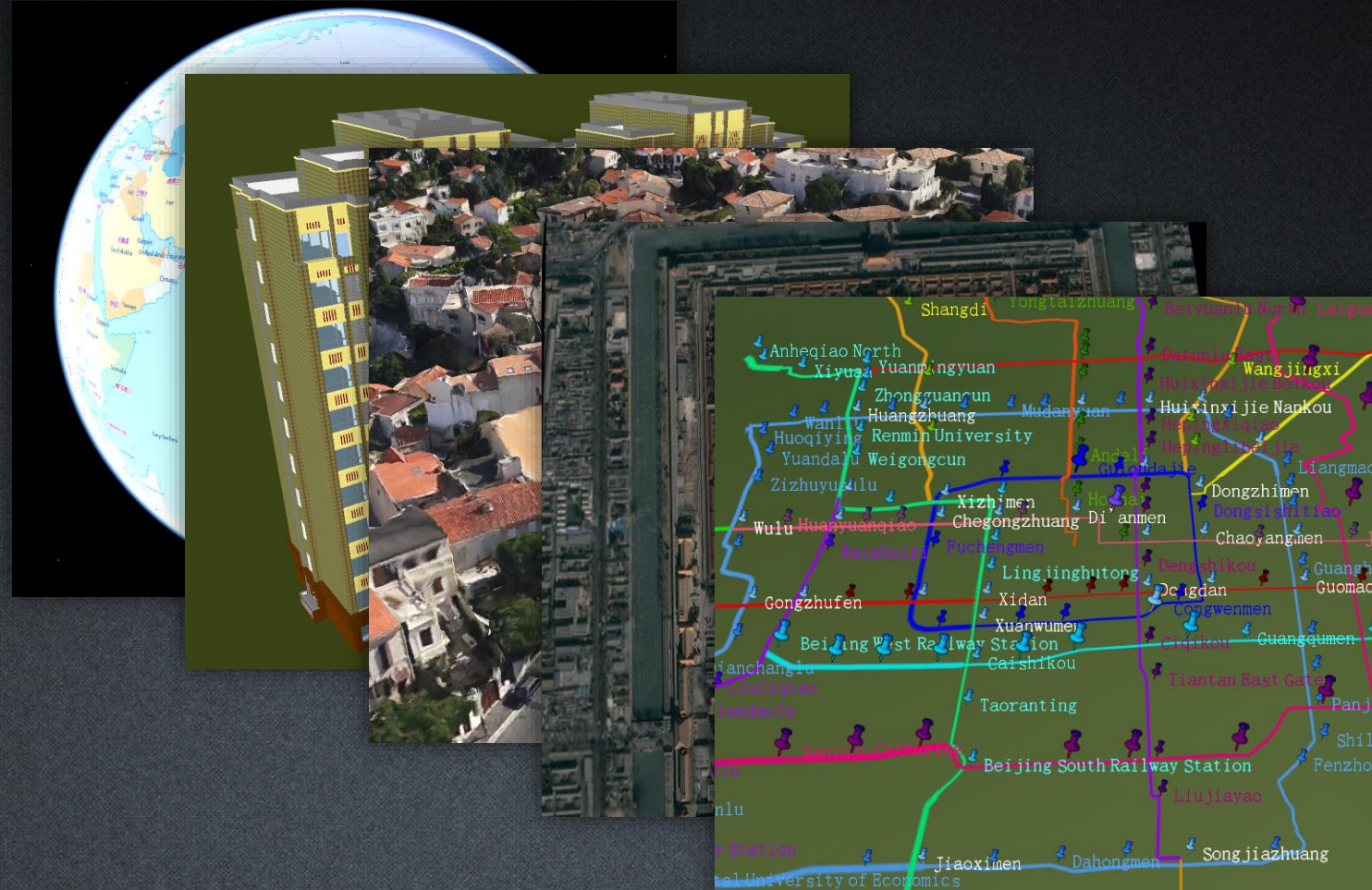
Adding Screen Layer

- Watermark, logo, label, etc.
- Supported format
 - *.PNG, *.JPG, *.JPEG, *.BMP
- Use screen coordinates
 - No geographic meaning
 - Static relative to 3D window
- Exercise
 - Add the logo of SuperMap



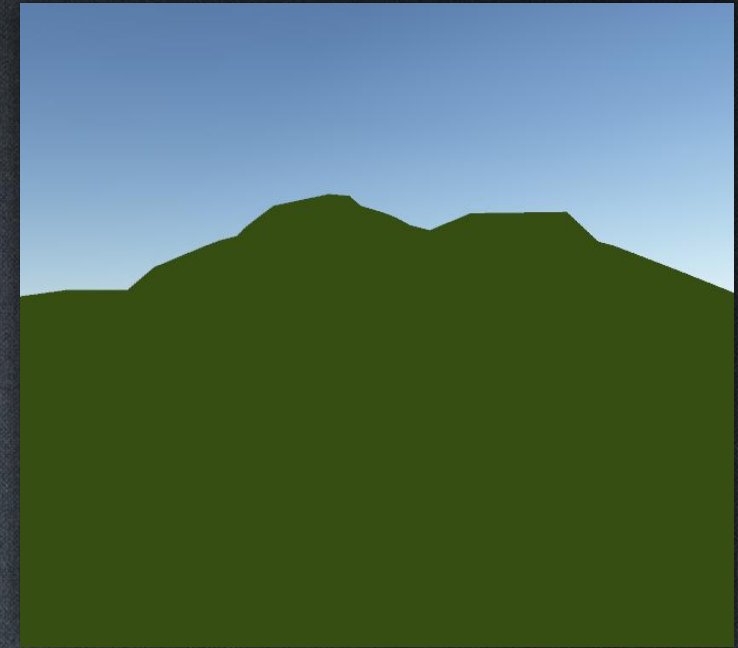
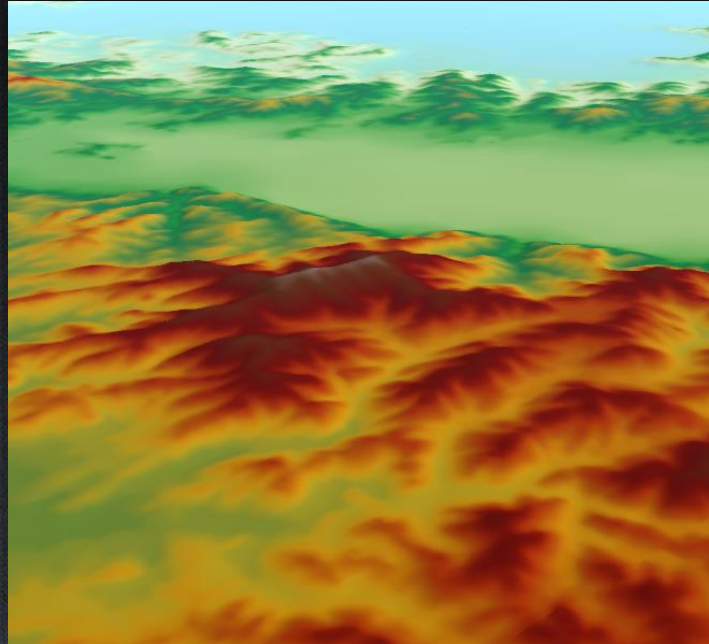
Adding General Layer

- Exercise
 1. Map
 2. Model
 3. OSGB cache
 4. image dataset
 5. KML file



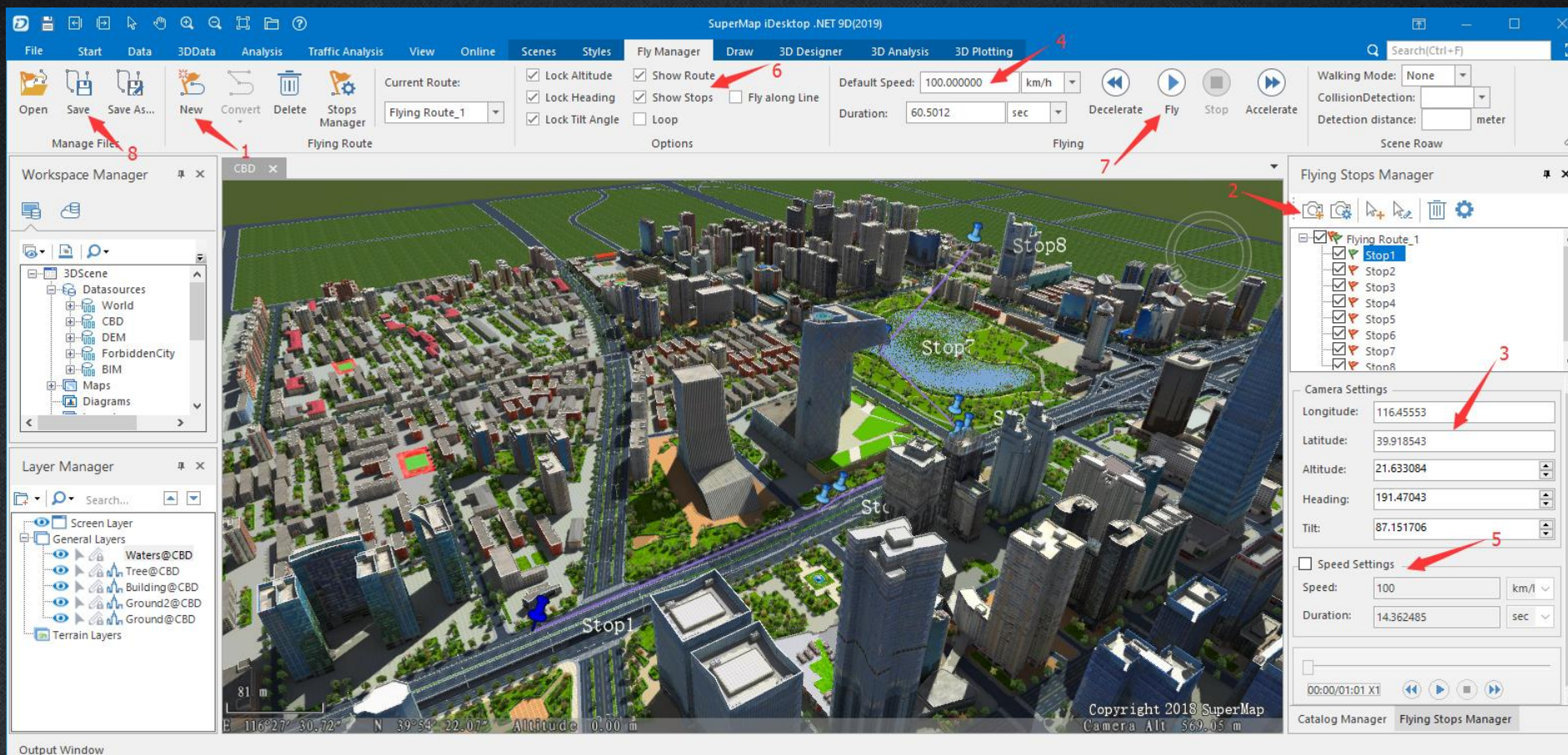
Adding Terrain Layer

- Exercise
 - Grid
 - Terrain cache

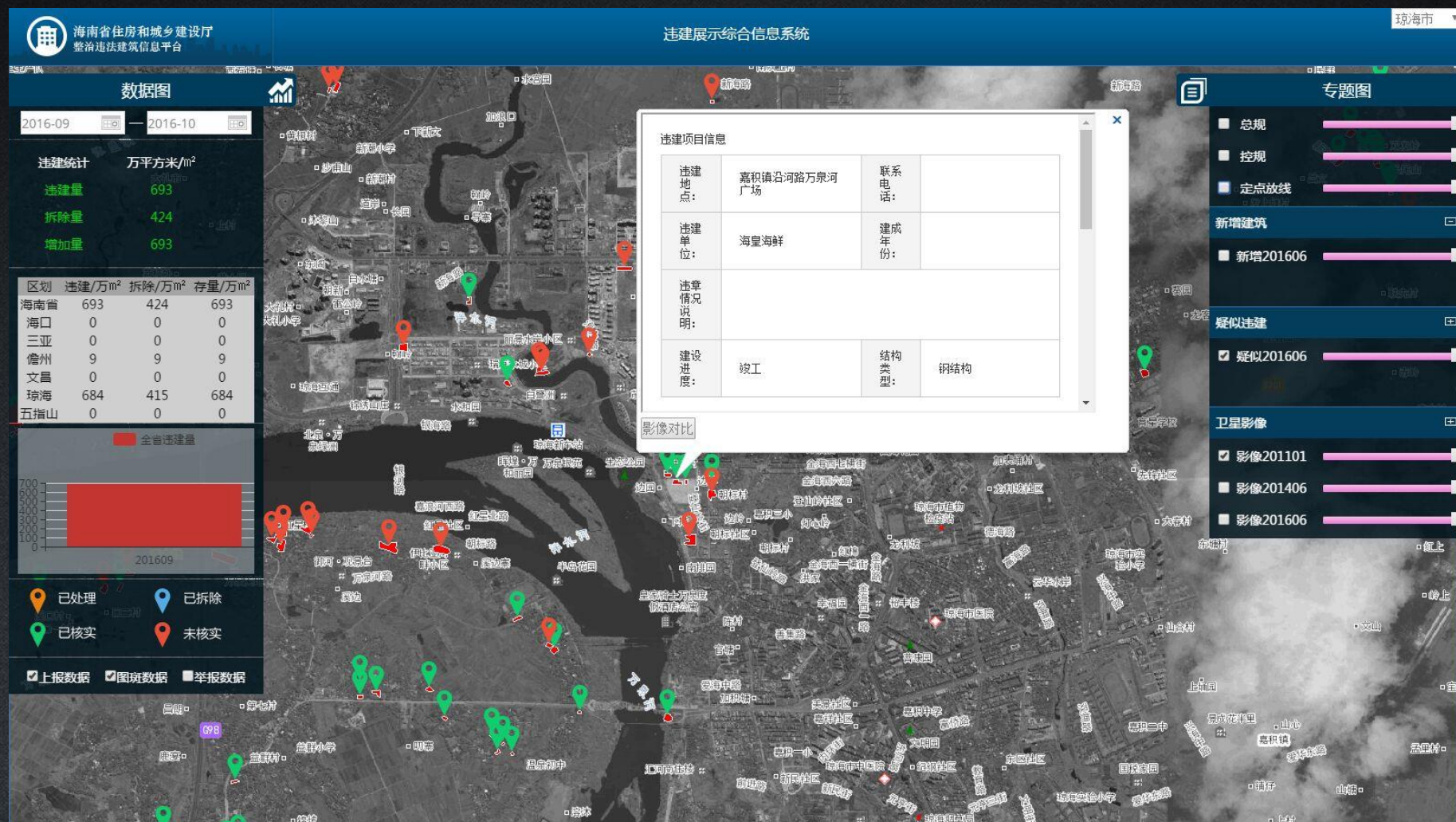


3D Flying

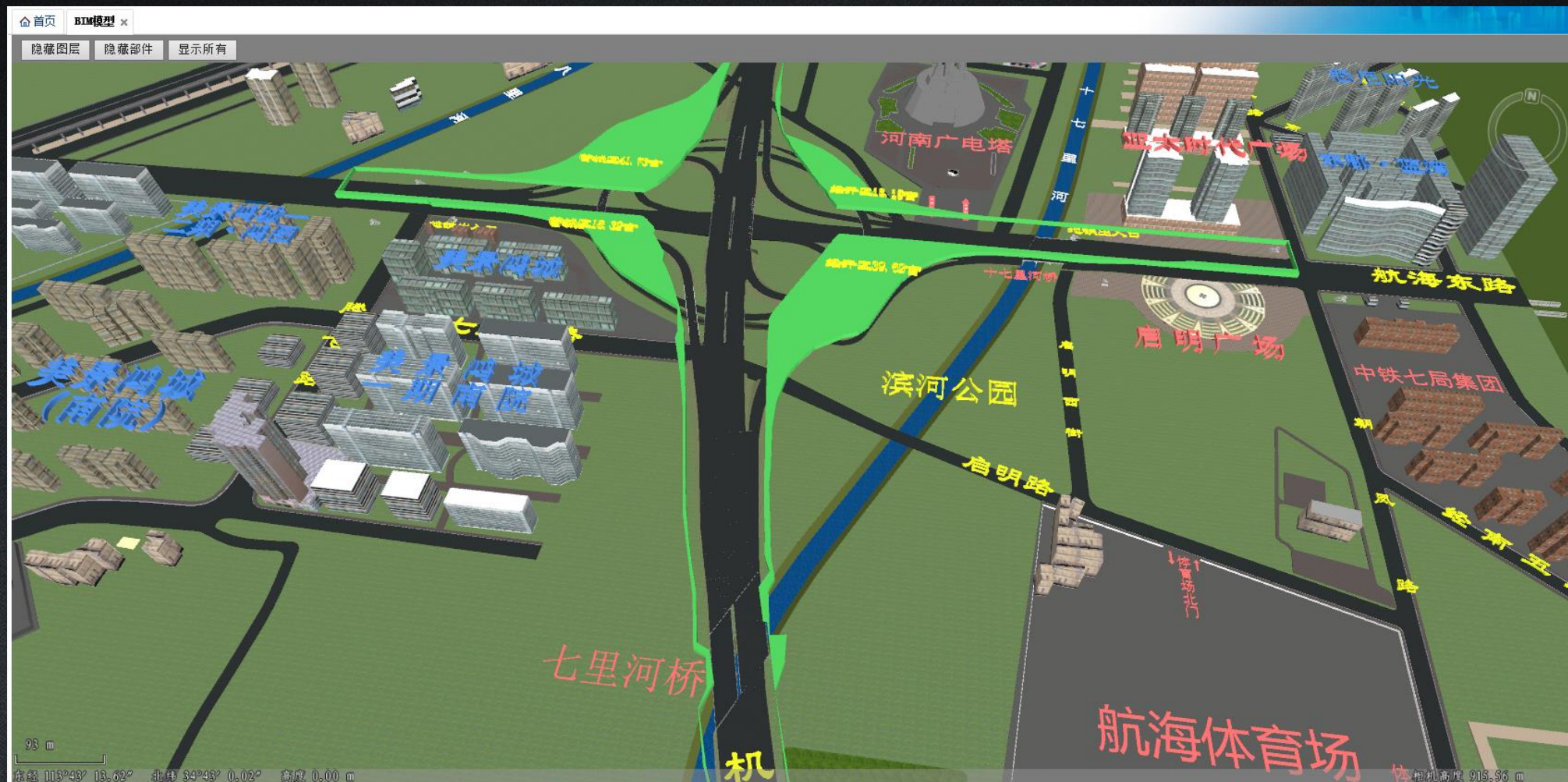
- Exercise
 - Add a new flying route in a 3D scene, edit it, start to fly, decelerate, accelerate, pause, stop and save it



Applications



Applications



Applications

三维可视化展示与会商平台

工业管理 电力生产 公共安全 梯级调度 征地移民 环保水保 帮助文档 退出系统

环保水保

沙盘功能 典型视角 锦屏一级

- 锦屏一级分层取水
- 锦屏一级增殖放流
 - 锦屏一级增殖放流监控

锦屏一级增殖放流监控

- 一号车间北
- 一号车间南
- 二号车间北
- 二号车间南
- 三号车间北
- 三号车间南
- 二级平台南
- 二级平台中
- 二级平台北
- 三级平台管理楼旁
- 管理楼楼梯口
- 管理楼楼顶
- 三级平台环形鱼池

运行原理 附图信息

运行信息 统计信息 设施信息

尾水水温

测量时间： 一号机组状态：发电态(2016-05-24 11:08:47.062)

尾水水温： 二号机组状态：发电态(2016-05-24 11:56:48.229)

三号机组状态：发电态(2016-05-24 11:56:48.317)

四号机组状态：发电态(2016-05-24 11:40:47.927)

五号机组状态：发电态(2016-05-24 11:40:48.016)

六号机组状态：发电态(2016-05-24 11:48:48.254)

经纬 101°36' 36.33" 北纬 28°10' 55.86" 高度 0.00 m

相机高度 26.21 km

Thank You!

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