Power 3D visualization solutions

System introduction

Power 3D visualization of GIS is EVIA Earth platform as the core, to implement the weather, water, substation, transmission and distribution network, power load and so on , based on this basis of core information management, can realize the visualization of 3D display, load of power 3D space analysis, attribute query and related business functions.

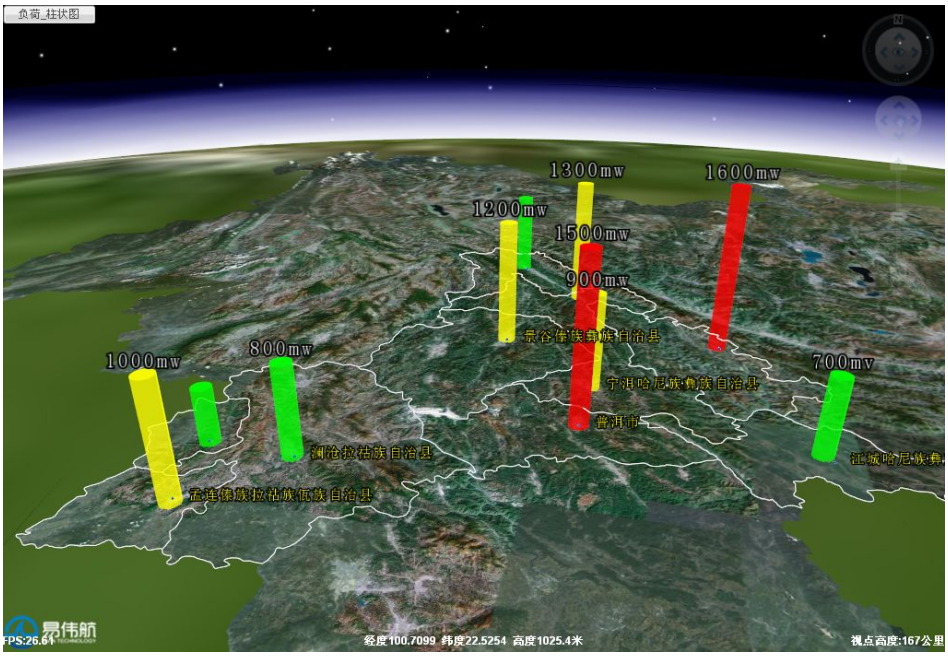
Function

1. Visual display gird

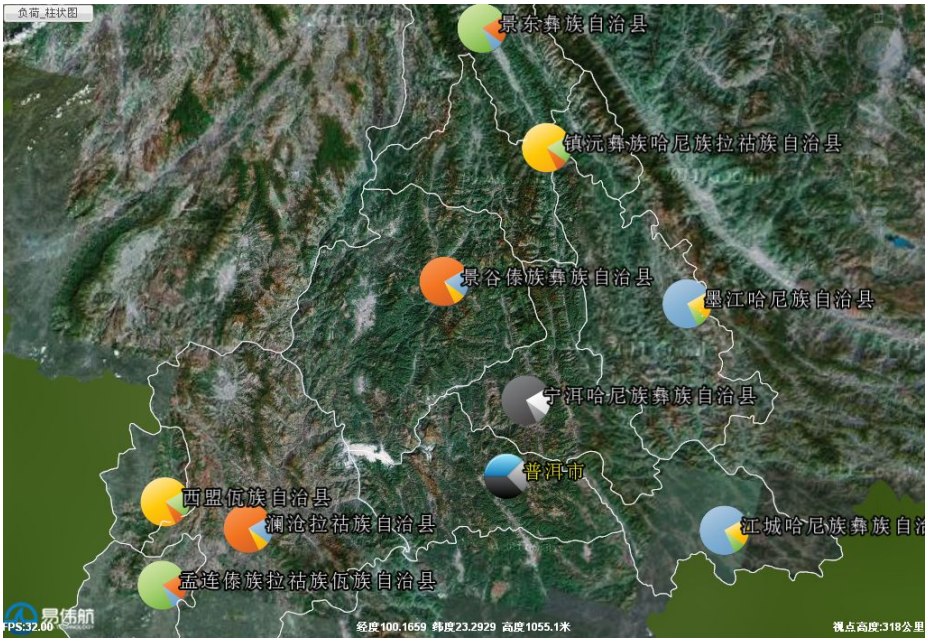
Through the high-precision modeling and simulation of the electrical tower and transmission line, the process of the level of detail model technology in 3D GIS platform can realize the visual display of terrain, landscape, transmission and distribution network. Realize the 3D data high speed scan, and make the rich attribute information of power equipment which including basic geographic information, natural environment information, power equipment information, power gird operation status information and video , picture, image and other multimedia information integrated into the system. Equipment for power gird management reduces the workload, improve the management efficiency, realizing the intelligent management of power engineering.

2. Based on spatial 3D data graphical display

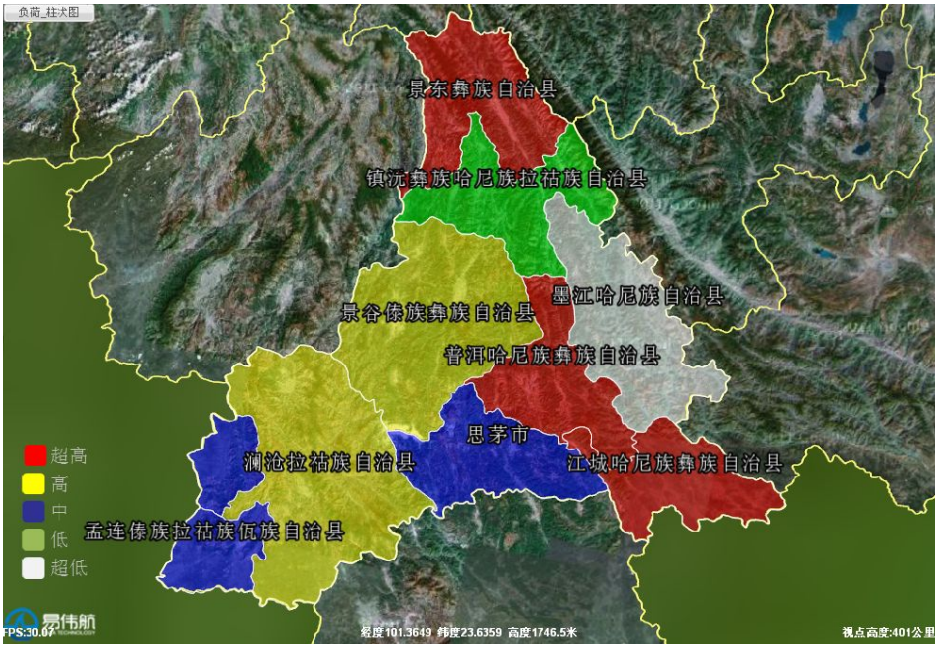
Through the statistics of power load and the analysis of the power structure within the geographical area, in visual way to show the power load conditions as shown in figure:



Power load of the pie chart:

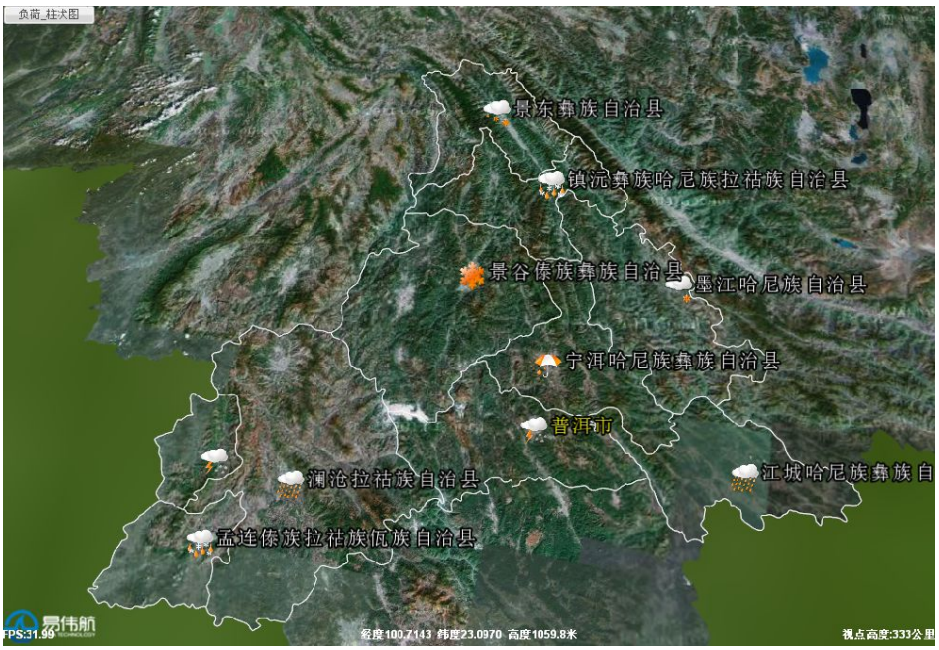


Power load spatial distribution:

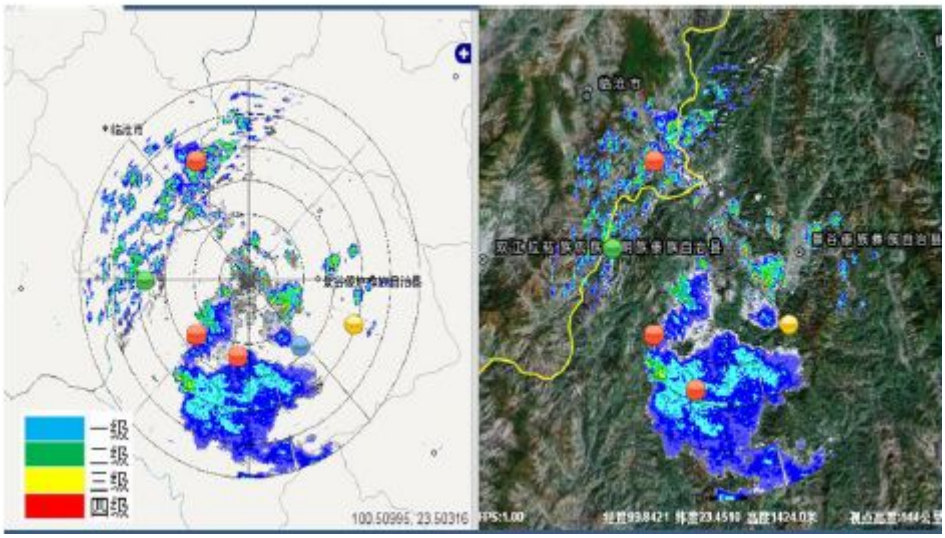


3. Meteorological information display

Through the meteorological information integration can implement meteorological information query:

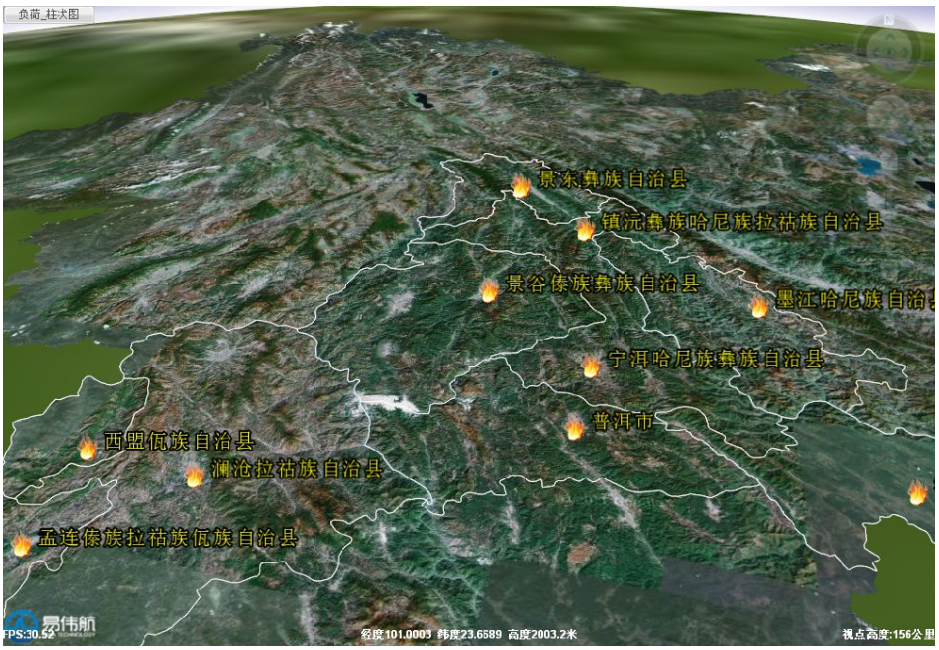


Meteorological cloud map display:



4. Fire lighting show:

Through fire lighting and other emergency information integration, can realize visual display:

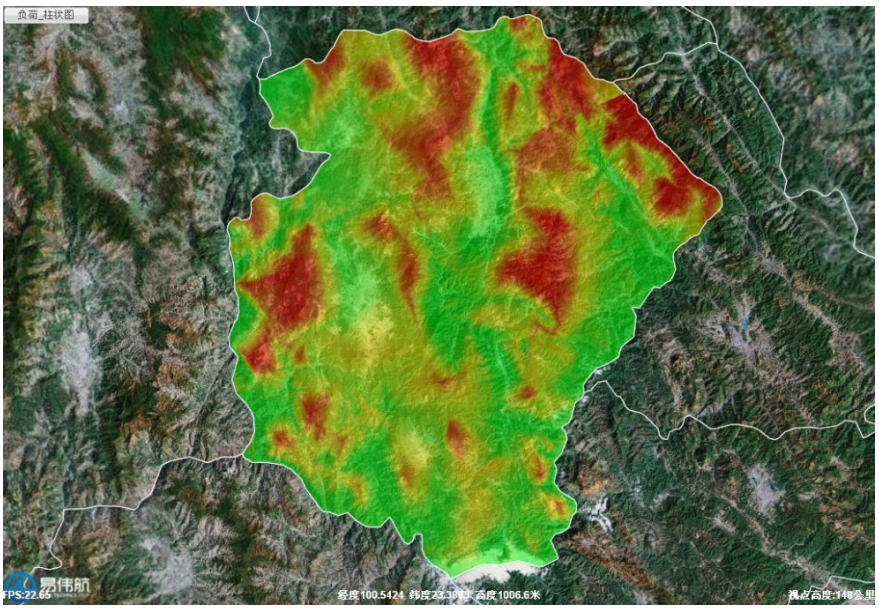


5. Device properties query

Realize integration and click on the query of the transmission and distribution equipment and attribute data:

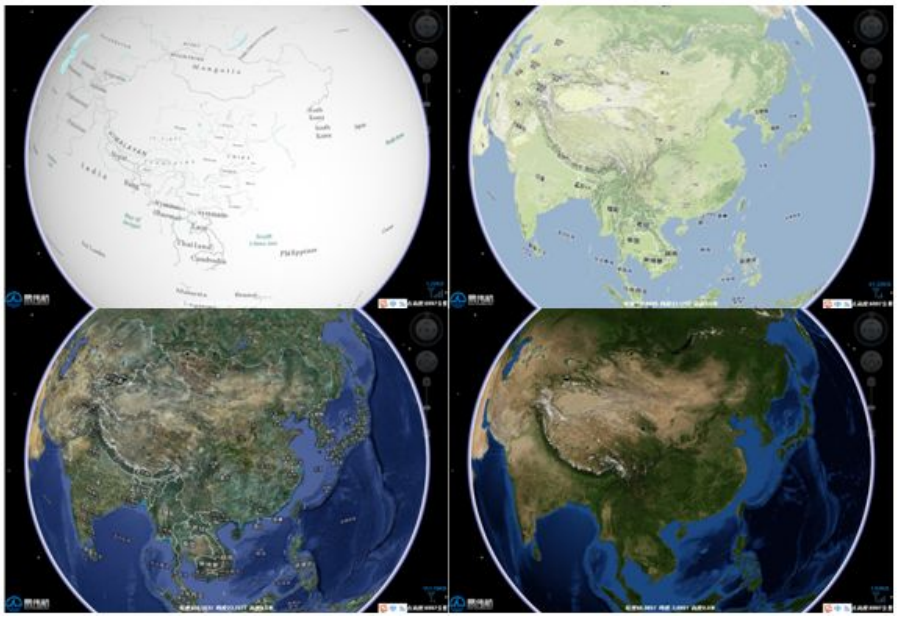
6. Load contour

Through the power load data can realize power contour rendering:



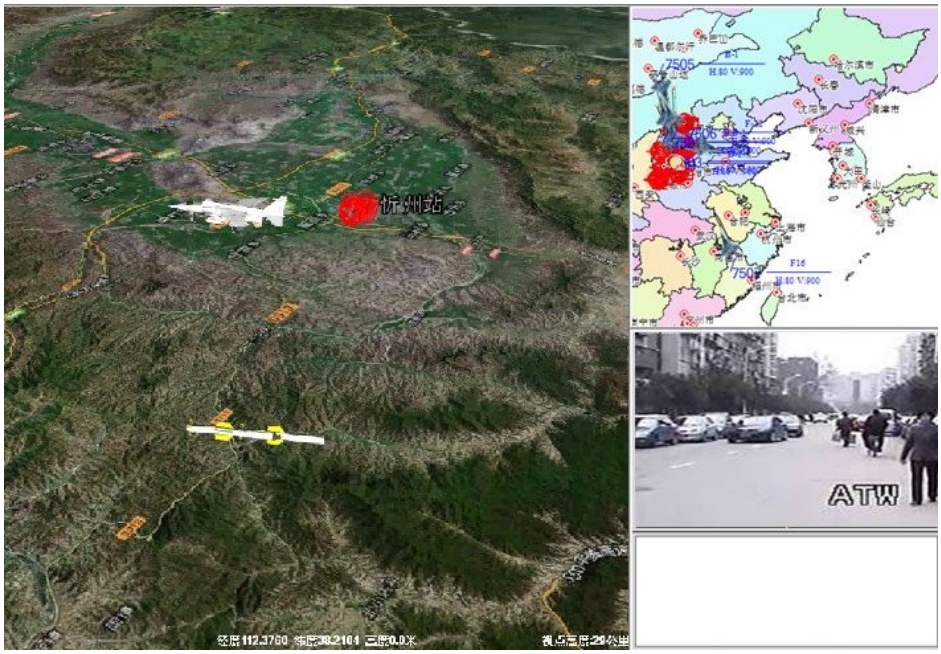
7. Based on the cloud images

The based map support the cloud data loading, caching and local service deployment, the effect as shown in figure:



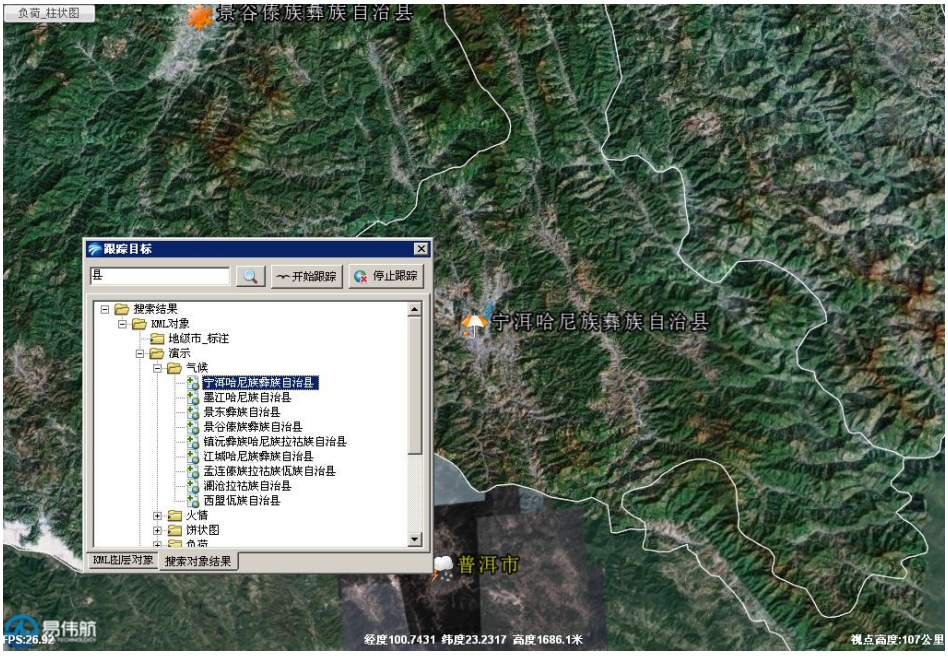
8. System integration

The platform support integrated video surveillance, SMS MMS GPS information, etc, can realize linkage of the video and the spatial information, as shown in figure:



9. Query positioning

Based on fuzzy query the keywords to realize classification of query results returned, as shown in figure:



10. 2D and 3D linkage

Realized 2D,3D and 2D, 3D linkage base map, the effect as shown in figure:


视角联动
视角变化