



Multi-touch 3D digital sand table big data visualization interactive geographic information system AI VR AR MR

Innovate IT Value with Geo-intelligence
**FUTURE ELEMENTS
TECHNOLOGY PTE**

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Future Elements Technology PTE is an innovative provider of GIS platform software and services, headquartered in Singapore. Our product line includes the core offering "three-dimensional electronic sand table visual interactive geographic information system," featuring two-dimensional integration, exceptional display performance, convenient plotting, accurate simulation and deduction capabilities, and robust dynamic target monitoring ability. Committed to international market development, we seek enduring partnerships. FUTURE 3D GIS can be applied in the military industry, BIM+GIS Smart City, Public, Safety, Transportation, Natural Disasters, Natural Resource Land Management, Water Conservancy, Facility Management.



**BIM+GIS
SMART CITY
PUBLIC SAFETY
TRANSPORTATION
MILITARY INDUSTRY
LAND MANAGEMENT
NATURAL DISASTERS
NATURAL RESOURCE
WATER CONSERVANCY
FACILITY MANAGEMENT**



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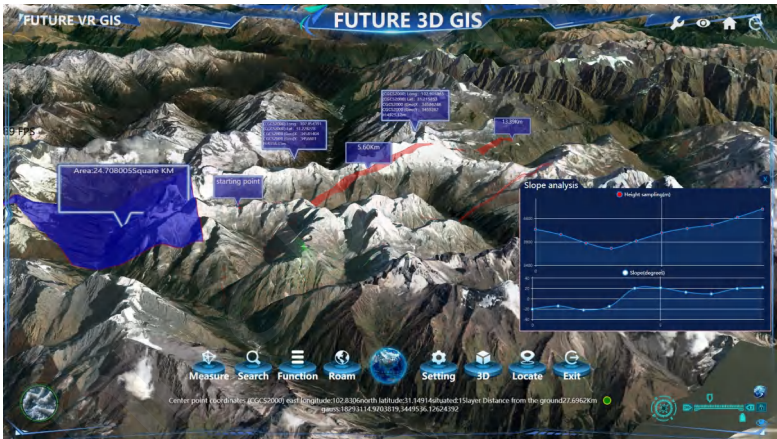
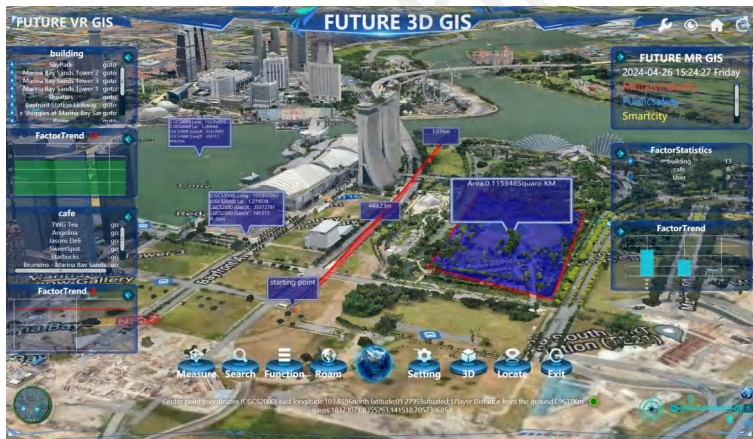
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GIS with its own intellectual property rights

Global satellite imagery geospatial data



Strategic military planning and deployment

Measurement command combat system



Utilizing UAV tilt photography 3D data

Panorama situation visualization window



Military Target Management System

Natural environment simulation system

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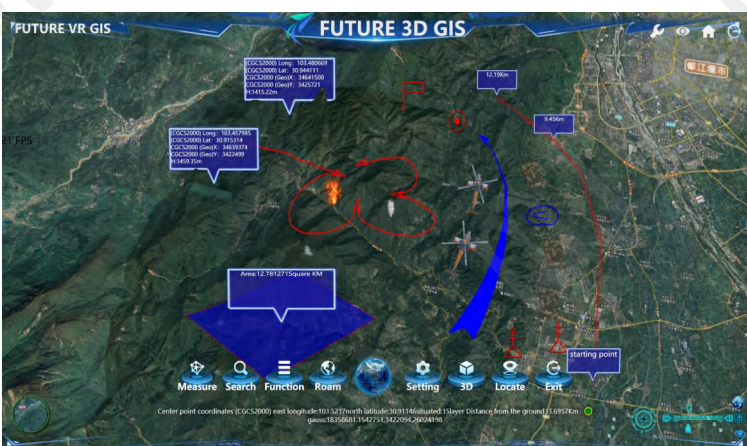
Military Network Collaboration System

Warfighter agency equipment management



Pre-planning simulation visualization

View navigation and positioning system



Geographical feature thematic map big data

Visual query of military combat data



Military Operational Environment Simulation

Military combat map decoration output

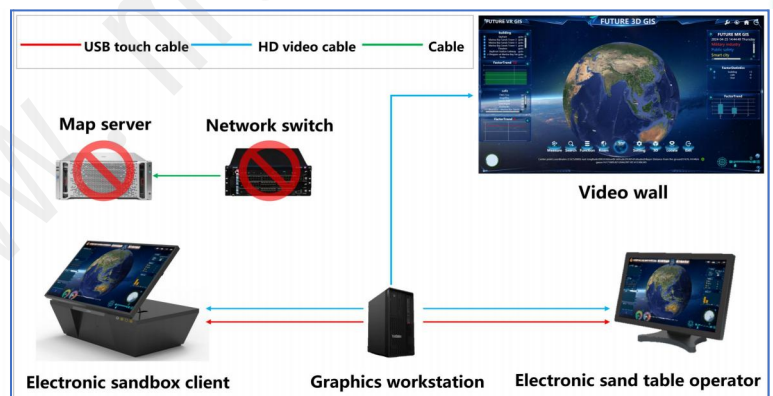
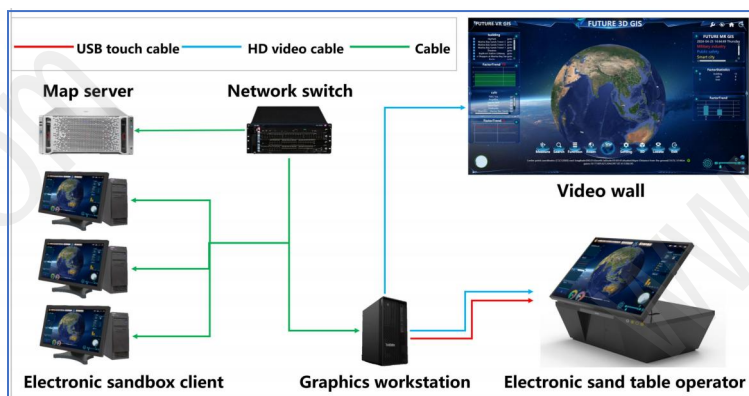
Application Scenarios FM3D GIS

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Network Edition topology diagram

Stand-alone topology diagram



Feature elements FM3D GIS Innovate IT Value with Geo-intelligence				BA SE	enh ance	ultim ate
The interface offers extensive customization options, allowing for the independent selection of functions.						
1. Utilizing an independent intellectual property rights and original source code level GIS platform: The utilization of open source GIS platforms is not currently in practice				▲	▲	▲
2. Enhanced multi-source data fusion system for battlefield operations: global satellite image with a maximum resolution of 0.3m to 0.6m, multi-layer vector map data, 30m elevation data, UAV oblique photography 3D panoramic data				▲	▲	▲
3. Big data comprehensive inquiry system for situation information.: its query methods are point, line, surface, ground object name, coordinate value, three circle layer, and custom map scope; Support soldier to the topographic query function				▲	▲	▲
4. the human eye perspective 3D virtual roaming system: the human eye perspective can accurately enter the 3D model to view the functions of each floor, the main fire fighting facilities inside the building, and the key parts				▲	▲	▲
5. 3D modeling data and 3D model animation data import and adjustment system: position, size, direction, Angle, rotation, etc.; Participate in the pre-plan demonstration to achieve dynamic display effect				▲	▲	▲
6. panorama situation visualization window system: the main interface left window and right window can be divided into layers with vector electronic map big data and visual dynamic effect map display				▲	▲	▲
7. The electronic whiteboard handwriting touch annotation system features mouse and gesture touch drawing functions, as well as the ability to handwrite Chinese characters, numbers, and English.				▲	▲	▲
8. natural environment simulation system: display atmospheric conditions, precipitation, snowfall, longitude and latitude gridlines, square rigging, Users have the ability to customize weather parameters for specific days.				▲	▲	▲
9. multi-touch operating system: through the control of multi-touch, to achieve the map data magnification, reduction, roaming, pitching, rotating interactive operation				▲	▲	▲
10. view navigation and positioning system: with the map of the basic geographic data, plotting data, three-dimensional digital earth view state and other information saved as view, and can restore view navigation				▲	▲	▲
11. Measurement command combat system includes coordination value, distance, terrain height, UAV tilt photography for 3D building height, azimuth, visibility, area, slope and direction analysis, profile analysis and visual range analysis				▲	▲	▲
12. Uav tilt photography 3D panoramic modeling system: The software is capable of accurately representing the visual, spatial, and dimensional characteristics of ground objects from all perspectives.				▲	▲	▲
13. thematic layer management system: provide geographical elements thematic classification display and classification query functions; Support the trend display of the relevant map data layer management				▲	▲	▲
14. The function of displaying and annotating 360-degree panoramic photos: In 360° panoramic photo view, embedded tags, text, lines, pictures, and regions are included.				▲	▲	▲
15. Key target or target point labeling system: The map system allows for the embedding of text, animation, pictures, indicator frames, videos, audio, 3D models, and UAV tilt photography modeling data at specified positions.				▲	▲	▲
16. A two and three-dimensional military symbol situation drawing system: The system supports the editing and drawing of various military symbols, combat areas, electronic fencing, routes, and flame animation effects.					▲	▲
17. A two and three-dimensional dynamic military symbol and operational planning simulation system: Military symbols in two and three dimensions can be dynamically displayed in time-series form according to the procedures of the plan, combined with multiple types of animations.					▲	▲
18. A two and three-dimensional vector military symbol library system: The system can import military symbols from various countries and magnify or reduce them without distortion according to any map scale.					▲	▲
19. A three-dimensional standard model library system: The system can import three-dimensional models and support the placement and dragging of military force, equipment, items, and special effects models in three dimensions.					▲	▲
20. Enhanced system for military combat map decoration output.: The user can select the output range, the map scale, the layout, and create or edit titles/legends/scale bars/compasses.					▲	▲
21. Real-time establishment of three-dimensional hand-drawn models: Outline buildings on satellite images by hand, then assign heights to them and import photos of their facades.					▲	▲
22. Vector military symbol production system: Convert vectorized military symbols from software such as CorelDRAW to this system with a single click, and they will be placed in the predetermined categorical symbol library.						▲
23. Combat personnel and institutional duty management system: Users can edit and enter their personal information (name, photo, position, contact details) based on the business attributes of their unit; and the system can calculate the basic situation of the unit's personnel in real time (on-duty, out-of-office, in-office, etc.).					▲	▲
24. The system supports compatible data formats and data import functions.					▲	▲
25. Vector map data entry and color adjustment function: Support for displaying data in polygonal or linear form on the map in shapefile (SHP) format.					▲	▲
26. Combat document preparation, viewing, and plan call management system: Electronic access to combat, counter-terrorism, disaster relief, and other online materials.					▲	▲
27. Electronic map data processing and import system (must have offline working mode)					▲	▲
28. Tactical calculation module functionality: Interception calculation, pursuit calculation, encounter calculation, and advancement calculation.						
29. Tactical data screenshot comparison function: Screenshots can be taken by arbitrarily selecting a range on the screen						▲
30. Tactical data dashboard display function: A tactical dashboard can be established on the main interface to display multimedia materials.						▲
31. Collaborative military network-based plotting and planning system: Staff officers collaborate to complete the markup of a required map, and then upload and issue situation information to both senior and junior levels.						▲
32. Road attribute query invocation analysis (offline data, for reference only): navigation calculation						
33. The system for handwriting recognition, plotting, and gesture-based input.						▲
34. Real-time access system for internet electronic map data.						▲
35. Client system for a CS architecture local area network: Data management; user registration, login, upload, download						▲
36. Geographical feature thematic map big data display system: The data is shown as a column chart and point bitmap.						▲
37. Combat personnel and combat equipment duty management system						▲
38. Operational plan depiction, pushing, simulation, and visualization system: Thought map process model.						▲
39. Supports users in making customizations and second-developments based on the existing features: SDK						▲
40. Customization of high-definition satellite imagery data for global integration with uniform color: The typical high resolution images have a spatial resolution of 0.6-0.8 meters and were acquired within the past one years., Cloud cover less than 0.01%						
41. The system for secondary development and expansion of IoT integration (to be negotiated according to specific circumstances).						
42. The tablet version offers enhanced features: When conducting military operations, it is advantageous to carry out.						
43. Enhanced with virtual reality technology, the 3D electronic sand table visualization interactive geographic information system provides a professional and immersive experience						

