

# TerraSim GeoSpatial Visualization Professional Services

## Employ the power of 3D visualization in your next project...

- Are you wondering how a proposed commercial development will look in relation to alternative site selections?
- Are you acquiring or managing an urban GIS database, with a large number of features and complex spatial relationships?
- Are you involved in a public hearing and approval process, with the need to clearly communicate what you are proposing to a diverse audience of government professionals and concerned citizens?

TerraSim's visualization services use your existing GIS and CAD data to create a realistic and detailed, interactive, three-dimensional visualization of your project. You can freely explore your project by driving or flying through a visualization in real-time, using TerraSim's TSGFly™ viewer, to examine views of your project from surrounding areas.

Interactive walkthroughs enable you to experience the site plan and identify possible design weaknesses in access, organization, or appearance before detailed design work begins. A realistic 3D representation allows the general public to better understand and appreciate your project, gaining their trust and making the planning and approval process smoother. For architectural and engineering purposes, the visualization provides an additional product and revenue stream derived from existing data with only marginal additional costs.

TerraSim's extensive experience in constructing 3D visualizations can be put to work for you. Our portfolio includes diverse applications ranging from A&E visualization and facility management, civil government applications (municipal, county, and state) to site monitoring for security applications. We bring a multi-disciplinary approach to project development and delivery using our state-of-the-art TerraTools software system.

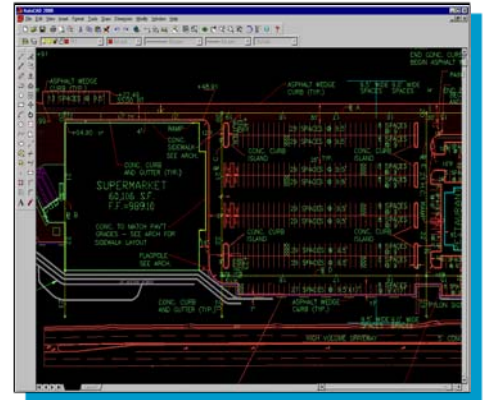
Starting small with sample databases for presentation and marketing to your customers, concept visualizations can be rapidly generated from your GIS, facilities map, or CAD design data. TerraSim provides rapid turnaround of packaged 3D real-time free-fly databases.

TerraSim delivers area visualizations ranging from detailed city core to county-wide scope, with staged content delivery and enhancement over the life of the project. As your project goals evolve, the visualization can be inexpensively updated to reflect these changes. The automatic generation of urban context around your project site, using existing GIS or cartographic data, allows effort to be focused on enhancing the appearance of your key buildings and facilities.

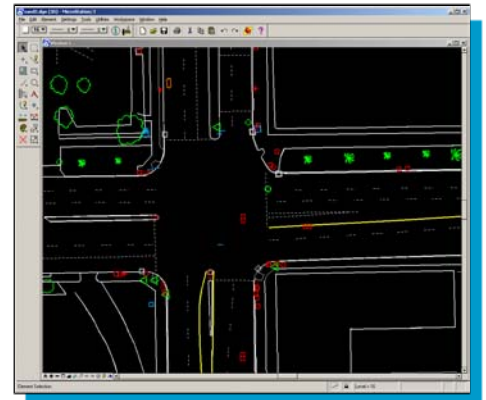
## Add dynamic access to web-based information and multimedia...

For more complex "situation aware" applications, TerraSim can provide end-to-end delivery of projects requiring real-time video feeds and linkage to geospatially referenced information such as still photography, historic documents, building floorplans, and crisis management plans. Using our GISLink™ technology, your project can be delivered in TerraTours™, TerraSim's interactive viewer that supports the simultaneous linked display of 3D visualizations with user-selected video or audio clips, as well as links to arbitrary information on the world wide web. Using a simple point-and-query interface, your GIS source data is linked to various multimedia sources, allowing you to provide your customers with a highly flexible interface to multi-source geospatial data.

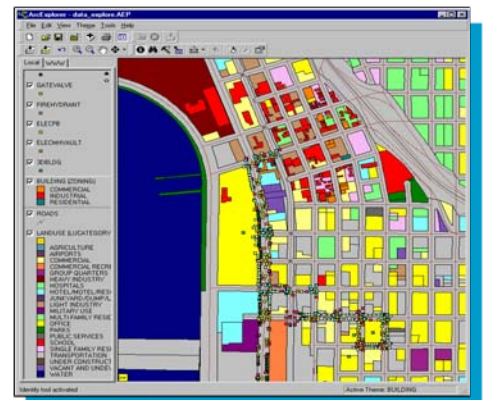
TerraSim can provide a turn-key application demonstration constructed from your customer's actual source data, to drive out content and human computer interaction requirements. Once developed, TerraSim can supply you with software components necessary to build and deliver highly functional "next generation" web-based applications to your customers.



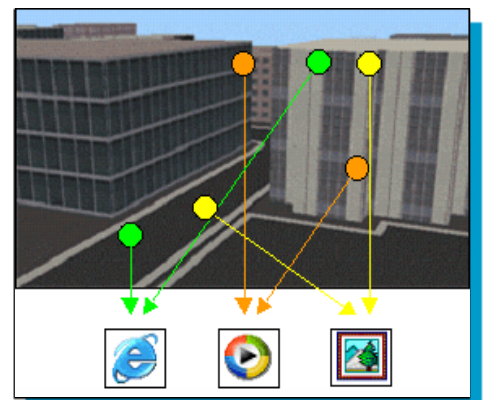
AutoCAD DXF Ingest



Bentley Microstation Ingest



SanGIS in ArcExplorer Ingest



TerraTours



## Custom Visualization Projects

Visualization content can be highly tailored to your development requirements and data sources. TerraSim's tools and methodologies for 3D visualization ensure a rapid, cost effective response to your specifications.

- Explain project impact: demonstrate the development process by a sequence of before and after visual flythroughs.
- Urban "What-ifs": A series of visualizations contrasting design alternatives.
- Underground site planning: visualize the arrangement and relationships of underground pipes, sewers, and structures.
- Regional redevelopment: show multiple levels of detail, ranging from regional view to parcel display, using satellite, aerial, and ground photography.

### Communicating to Build Consensus

Once your initial project visualization is completed, the delivery of scenarios to the project stakeholders can be easily accomplished using TerraSim technology. Alternatives for site selection, architectural design, and site development strategies can be illustrated with only minor modifications to the basic project visualization.

Predefined flight paths demonstrate important viewshed changes, highlight critical design requirements and provide the common "sense of place" necessary for consensus building and project approval.

### Flexible and Low Cost Distribution of Visualization

Your project visualization can be delivered as video clips or by using TerraSim's TSGFly viewer, which supports user-created flight points and paths and free flight. You can provide all stakeholders in the development process access to your project visualization at no additional cost using the freely distributable TSGFly viewer.

### The High Value of Visualization

A 3D visualization is a high-value product for your customers, since it enhances the accessibility and understanding of the design process. The availability of visualizations can be used as an additional advantage in bidding and negotiations, or as a revenue-generating product.

## Why TerraSim?

- TerraSim's Professional staff has been acknowledged as world-class experts in the various aspects of geospatial technology used in the creation of complex 3D visualizations, including real-time 3D computer graphics, Geographic Information Systems, photogrammetry and remote sensing.
- TerraTools®, our state-of-the-art software used to construct highly accurate visualizations for urban, suburban, and natural environments, supporting the integration of GIS source data and CAD models.
- Successful completion of many demanding civilian and military projects exemplifies TerraSim's expertise. Our engineers will competently fulfill the requirements of your 3D geospatial visualization project.
- Flexible Delivery and Maintenance  
As your requirements and needs evolve over the life of a project, TerraSim can provide ongoing maintenance and support of your visualization to retain and enhance its value.

TerraSim supports services firms planning to provide 3D visualization services, managing the relationship with the customers as directly or indirectly as required.



Urban Model Placement



City Planning/Redevelopment



Commercial Development



Construction Visualization

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