Geospatial Data Production for Real-Time Visual Simulation

RSC data layers provide rich content for physics-based virtual and constructive synthetic environments.

Standards based, high-fidelity, real-time visual and sensor simulation Renaissance Sciences Corporation (RSC) offers data products and related services specializing in high-fidelity real-time visual and sensor simulation pipelines. Our expert services include the sourcing of commercial and government geospatial data and the production and integration of large-area refined geospatial datasets, especially those targeting physics-based virtual and constructive synthetic environments.

DOD data program compliance DOD customers rely on our experience in the development and demonstration of common training and mission rehearsal visualization technologies; from these technologies RSC also authors and demonstrates key elements of published geospatial data and metadata standards such as NPSI (NAVAIR Portable Source Initiative). Our practiced DOD data development ensures that datasets will meet associated DOD deliverable compliance requirements. RSC’s continuing support of federal data production and archival programs facilitates sourcing and aggregation of US government data sources ensuring best value data delivery to simulation programs.
Large-scale visual simulation terrains Correlated, multiresolution imagery mosaics of RGB imagery, horizon maps for real-time terrain-on-terrain shadows, and digital elevation maps.

High-fidelity urban night data layers Correlated, multiresolution imagery mosaics and vector datasets containing cultural night lighting depictions produced by RSC's proprietary LEAP™ (Light Extraction and Prediction) technology.

Real-time 3D structures and vehicles Optimized 3D models published in open formats and incorporating quantitative data elements in support of physics-based simulations.

Sensor simulation data layers Correlated, multiresolution imagery mosaics and vector datasets containing physically-based descriptions of scene content, such as reflectivity maps, radiance maps, irradiance maps, material and material abundance maps.

Renaissance Sciences Corporation is a privately-held, entrepreneurial technical services firm committed to excellence, agility, and a customer-oriented culture. Our Modeling and Simulation Services business unit combines a broad range of scientific and engineering disciplines to deliver synthetic environments, virtual training, and mission rehearsal solutions.

For more information contact:
Renaissance Sciences Corporation
Info@Rscusa.com
10201 S. 51st St. Bldg A, Ste 275
Phoenix, AZ 85044
T: 480-374-1202

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