Authoring Tools and Services to Support Training and Energy-Efficient Design

SRI International is uniquely qualified to create high-quality interactive 3D environments. To develop these environments, SRI draws on specialized expertise in software development and application design.

SRI’s Center for Software Engineering develops custom software, such as the Kuda World Editor, an open-source content authoring tool that enables users to quickly build interactive 3D visualizations directly in a web browser, without requiring programming skills.

SRI offers tools and services to create realistic, interactive virtual environments for building designers, architects, and analysts.

Kuda is an excellent resource for building designers to create virtual 3D environments to test ideas and incorporate accurately rendered information relevant to energy-efficient building design. Examples of data that could be incorporated include luminance data to maximize the use of natural daylight, or thermal loads to examine how insulation or temperature controls can affect energy used in HVAC systems. Recent projects include:

- **Training:** for the U.S. Department of Energy, SRI created the National Training and Education Resource (NTER), a web-based learning platform; and interactive 3D scenarios used to train workers to weatherize homes.

- **Lighting and daylighting systems:** for Lawrence Berkeley National Laboratory’s eLAD platform, SRI created a virtual 3D office environment that allows students to try different configurations and see realistic results of their choices by incorporating accurately rendered luminance and thermal data.

Download Kuda software at no charge: http://code.google.com/p/kuda/
SRI’s Geovisualization Center specializes in creating precision 3D models and integrating them with geographic information system (GIS) data to deliver highly accurate virtual environments. The resulting content can be used for immersive training, visual simulations, and other visualization needs.

Using an array of industry-standard tools in combination with unique domain knowledge, SRI delivers quality custom products with fast turnaround.

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**About SRI International**

Innovations from SRI International have created new industries, billions of dollars of marketplace value, and lasting benefits to society—touching our lives every day. SRI, a nonprofit research and development institute based in Silicon Valley, brings its innovations to the marketplace through technology licensing, new products, and spin-off ventures. Government and business clients come to SRI for pioneering R&D and solutions in computing and communications, chemistry and materials, education, energy, health and pharmaceuticals, national defense, robotics, sensing, and more.

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