

Society of American Military Engineers

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Featured Presentation

3D/4D Real-time Interactive Visualization Technology Solutions

Imagine your city or simply your neighborhood as a virtual world where you can walk, drive, or fly safely anywhere, and experience your environment as it currently exists, as it existed ten years ago, or as it might look in the future after physical changes are made. Try removing existing buildings and replacing them with landscaped parks or new developments. Walk around or through these parks or developments and sense what they will be like. Add or remove street trees from your block to see the impact, or change the type and age of the foliage in your neighborhood. Query a database for information on the buildings or areas you come across.

All of this is possible using state-of-the-art real-time visual simulation technology, which previously has been primarily limited to the exclusive realm of military and aerospace applications. Now as the technology becomes more affordable for its required hardware, and a new generation of real-time based software solutions such as *fourDviz*[™] becomes available, it is feasible and cost-effective for planners, designers, and community groups to use it to visualize and evaluate proposed changes and the impacts of any new developments.

BALFOUR Technologies is on the forefront of providing the most effective real-time based visualization technology solutions for the AEC and transportation industries with its award winning *fourDviz*[™] software and extensive visualization experience. *fourDviz*[™] provides the ability to control the 4th dimension of time within a simulated 3D interactive environment. It has already been successfully utilized on numerous major development projects including: NYCT's LaGuardia Airport Rail Access; FHWA and NYSDOT's Intermodal Transportation Simulation Systems development; MASSPORT's Boston Logan Airport Modernization Program; and MAGLEV2000 of Florida's advanced transport systems prototyping.

fourDviz[™] clearly communicates a designer's vision and project development implications in an empowering manner. It is an ideal solution for visualizing the dynamic complexities of a changing environment and is proven to be an effective tool for transportation planning, infrastructure development projects, environmental impact study, consensus building, public education, and conflict resolution.

Project Examples: [LaGuardia Airport Subway Access](#)

[Huntsville Airport Intermodal Transportation Center Simulation](#)

[MAGLEV Simulations](#)

[Long Island Intermodal Transportation Database](#)

Logan International Airport Modernization Program

Emerging Applications and Developments

Presenters: Rich Balfour, President; Bob Balfour, CTO, Ph.D; Bing Zeng, Principal

BALFOUR Technologies LLC (Bethpage, NY)

Join us

for a live interactive demonstration to get a glimpse of this cutting-edge technology and see the power of working in four dimensions!