

**TRB – Transportation Research Board
International Visualization in Transportation Symposium & Workshop**

Call for Presentations

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Advanced 3D/4D/nD Modeling and Real-time Visualization in Transportation

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Computer visualization today is a powerful communication tool used on transportation projects of all types, in particular during preliminary planning and analysis, design review, stakeholder involvement and team collaboration. Many of the early pioneering techniques from the 1980's and 90's have become commonplace in today's transportation planning, design, construction and operations practices, and the value of visualization has continued to increase as more and more consulting firms and transportation agencies utilize the latest tools and approaches.

Emerging research and application of intelligent 3D/4D/5D/nD computer modeling for transportation as well as real-time visualization and immersive virtual reality are providing new capabilities and opportunities to help drive better more predictable designs while improving overall project continuity and communications. These new techniques will help set the stage for tomorrow's transportation projects and standards as the industry continues to leverage technology and improve business process.

This presentation will feature several key transportation projects and lessons learned when applying new modeling, visualization and presentation technologies. It will also offer a special presentation using large format Passive Stereoscopic Projection in conjunction with real-time 3D/4D Modeling and Interactive Visualization. Special stereo projectors and passive stereo glasses will be provided by PB for this session.

