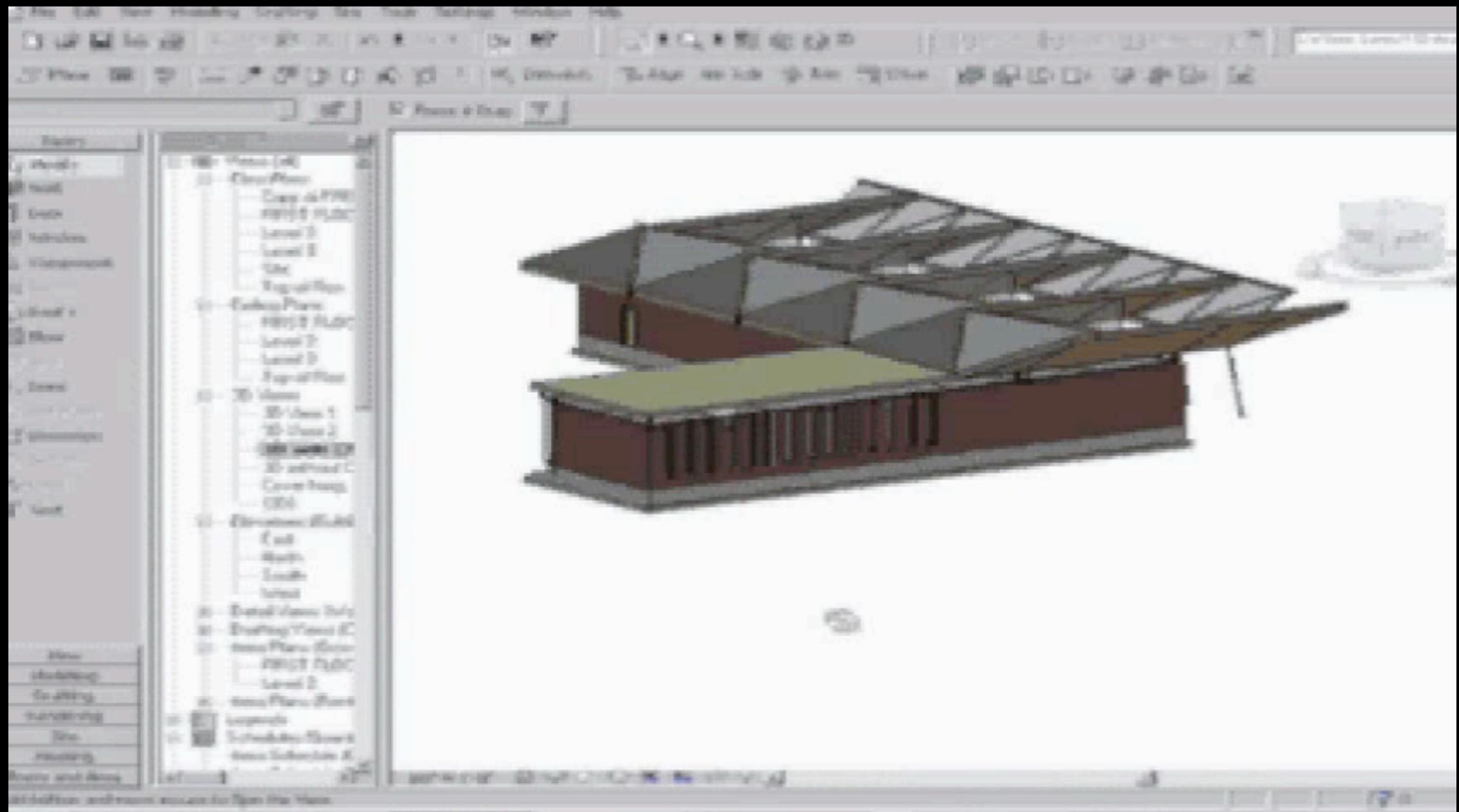


AEC Industry Opportunity

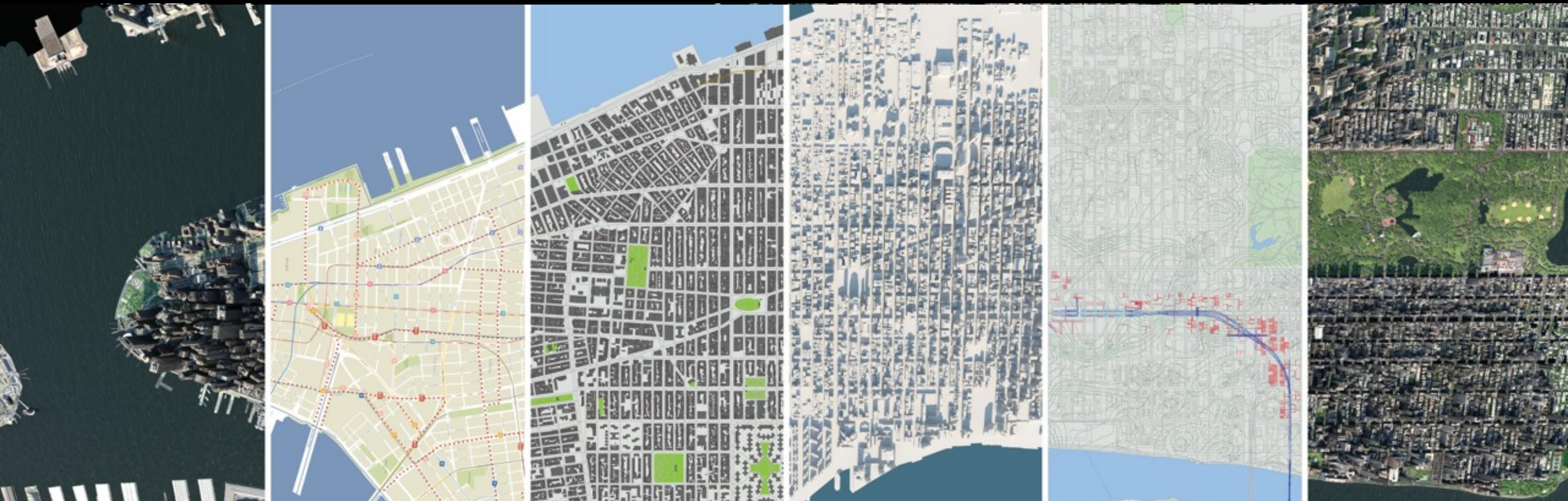
Jay Bhatt

Senior Vice President, AEC

Building Information Modeling



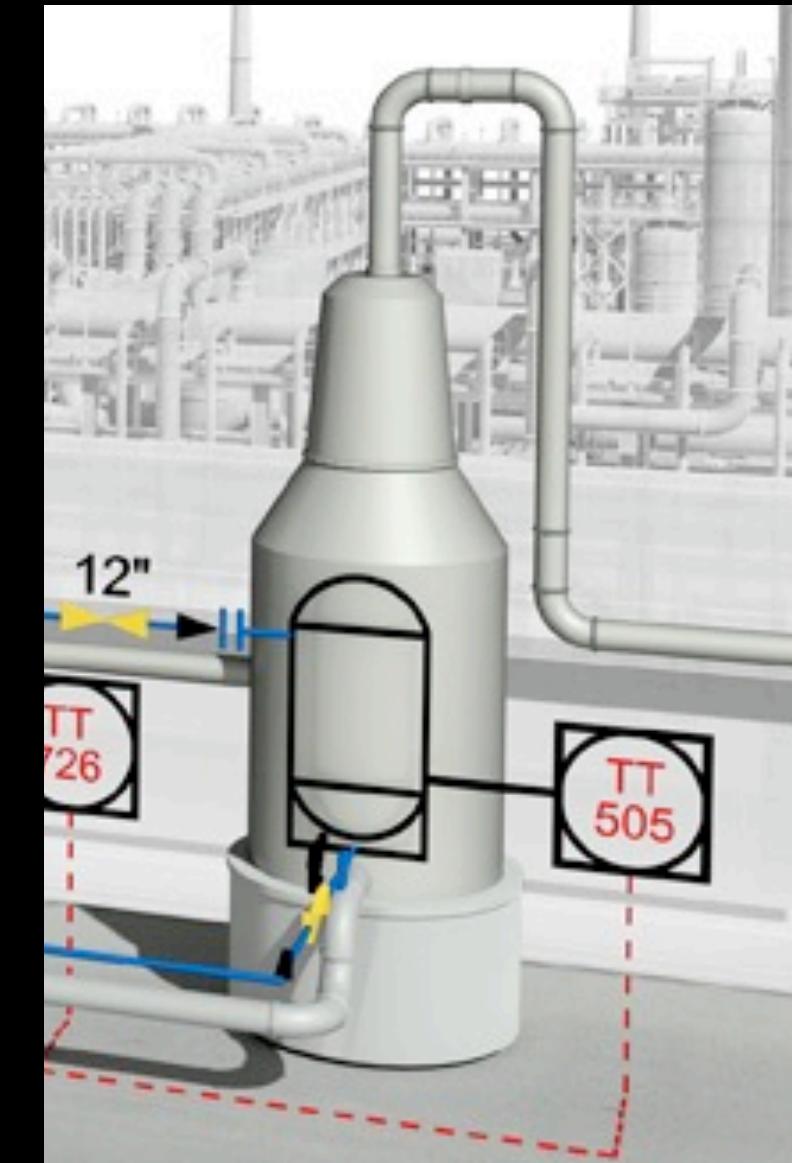
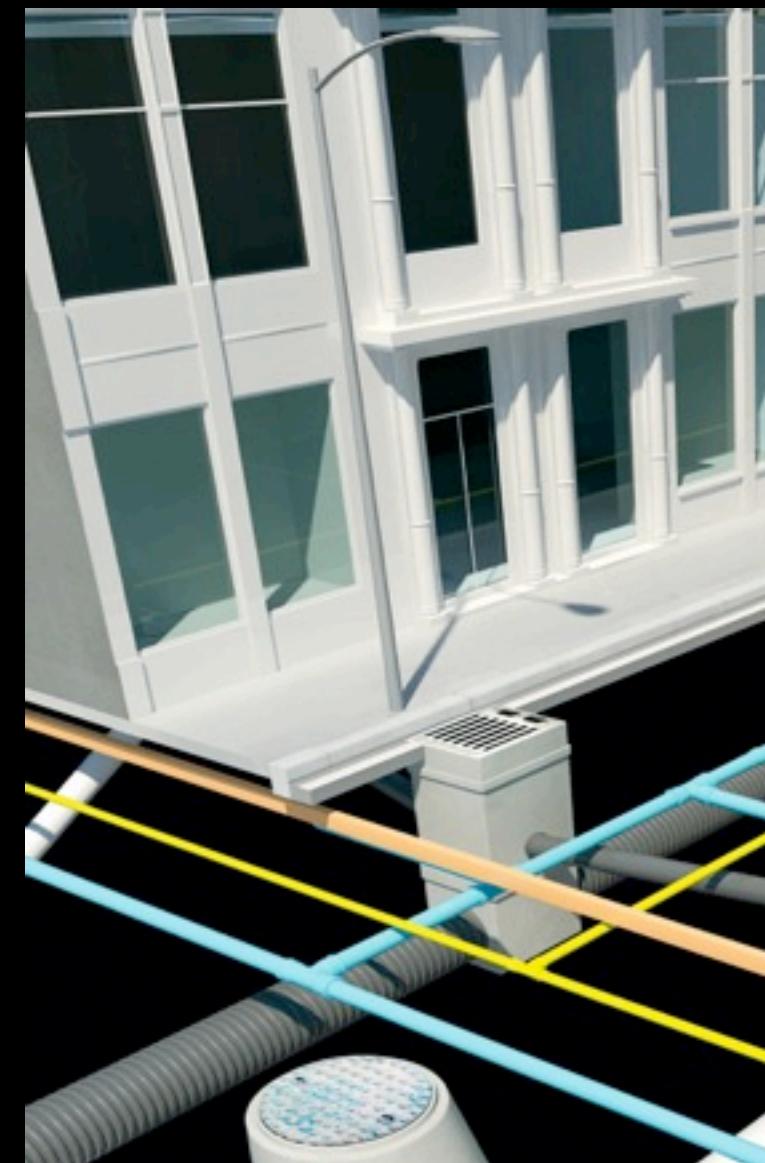
Infrastructure Modeling

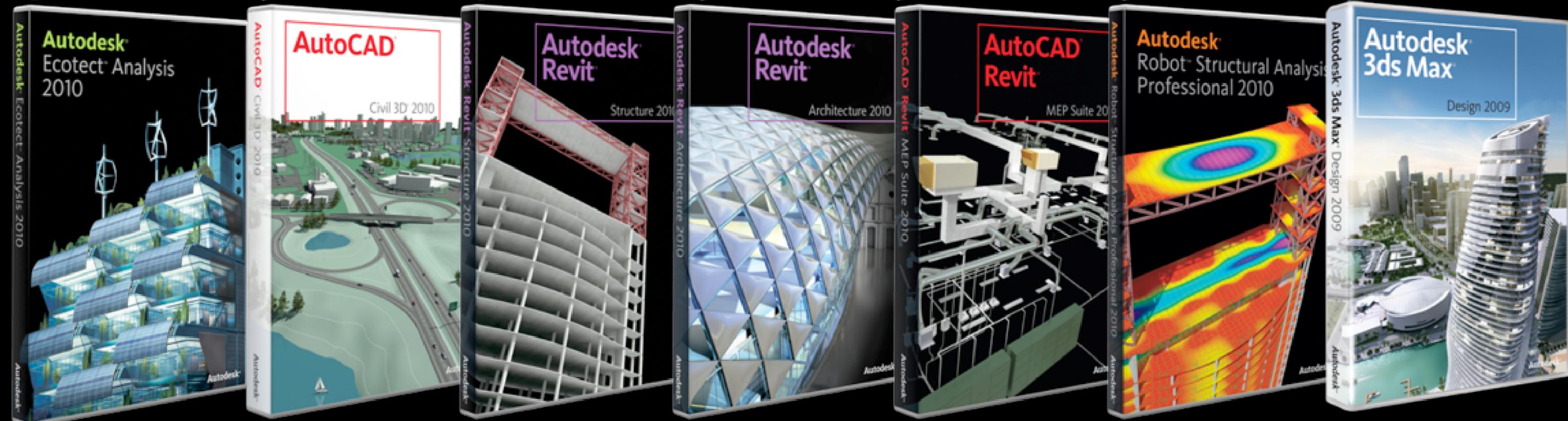
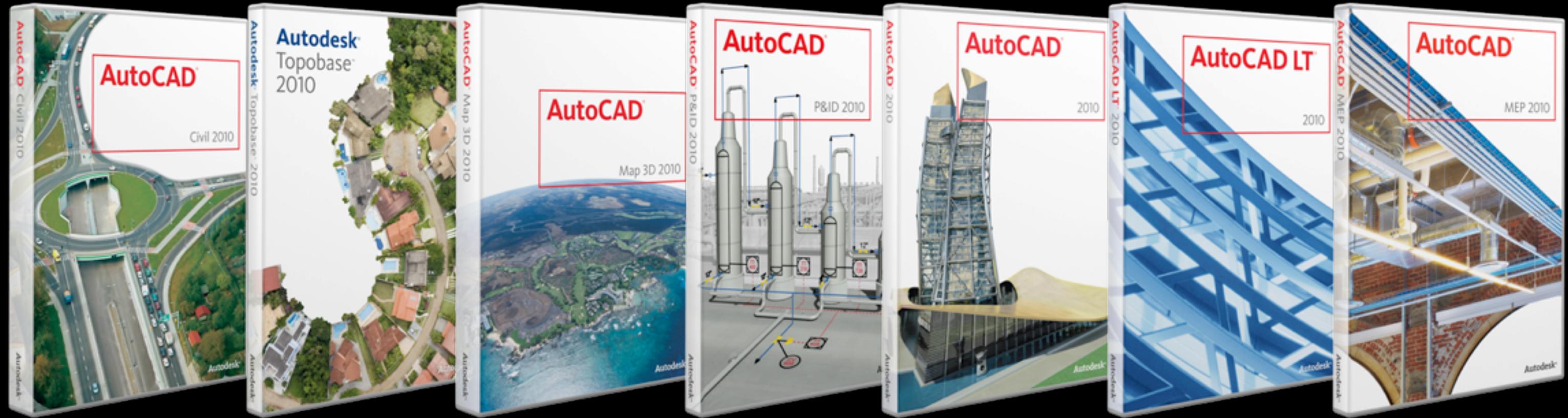


Digital Plant Design



Architecture, Engineering & Construction



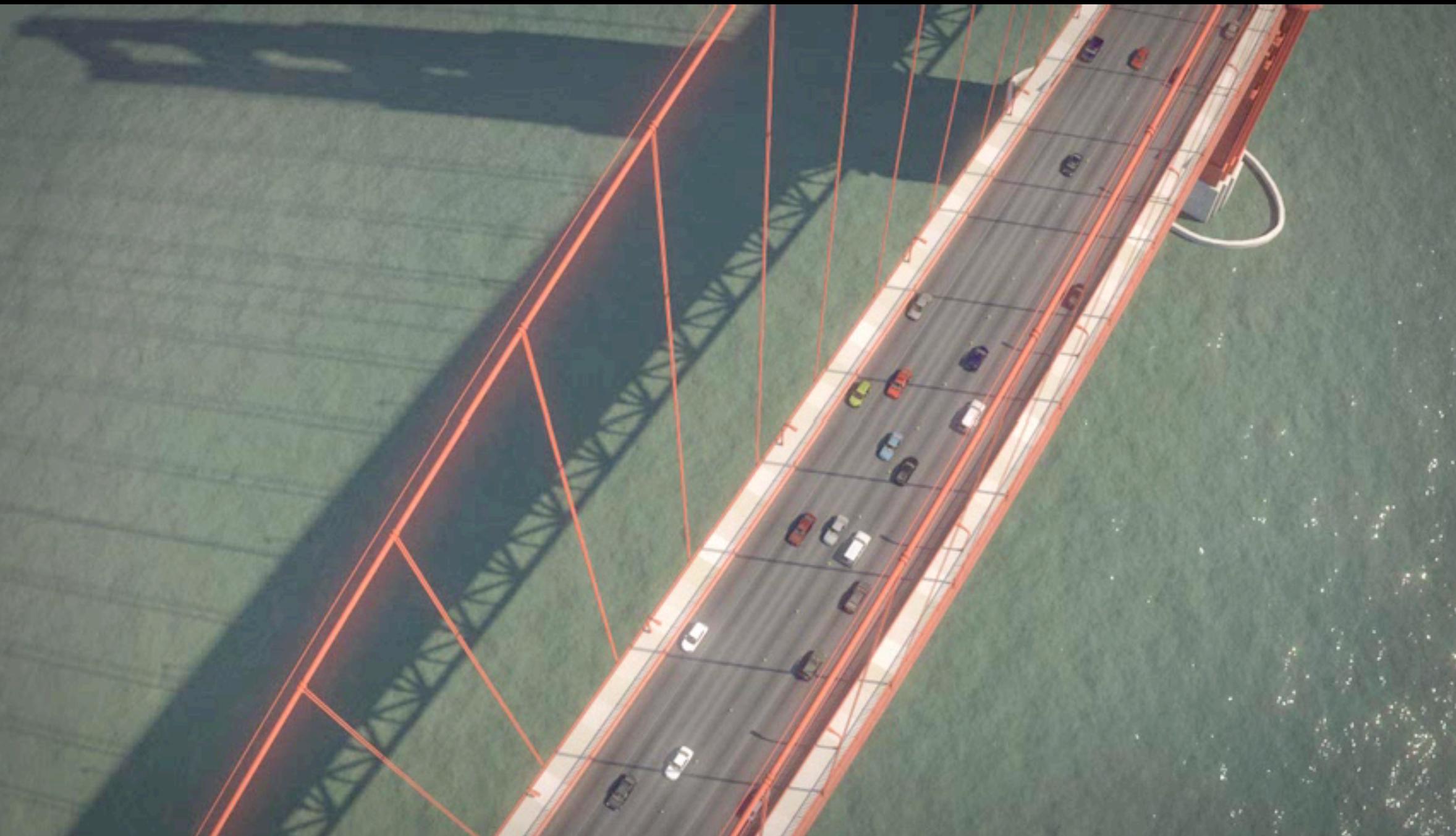


Design

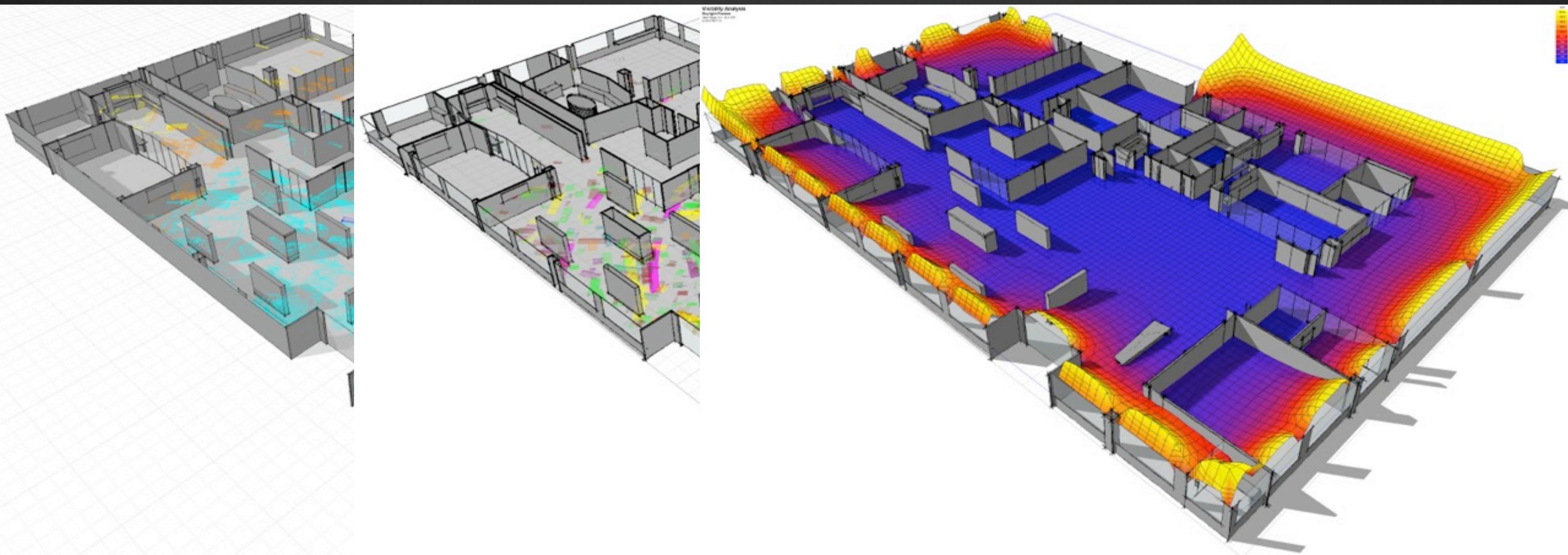


Images courtesy of Chandavarkar & Thacker Architects

Visualization



Simulation



Global Economic Stimulus



Global Infrastructure Opportunity

- Buildings
- Transportation / Environmental
- Utilities

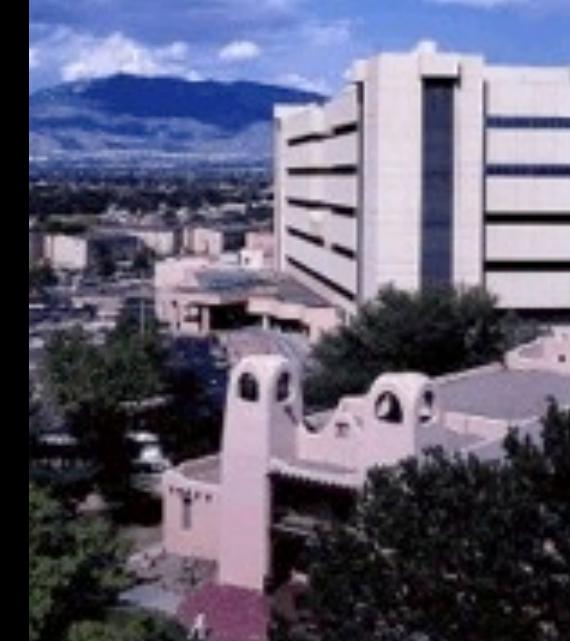
Department of Veterans Affairs



VA Salt lake City, UT



VA Houston, TX



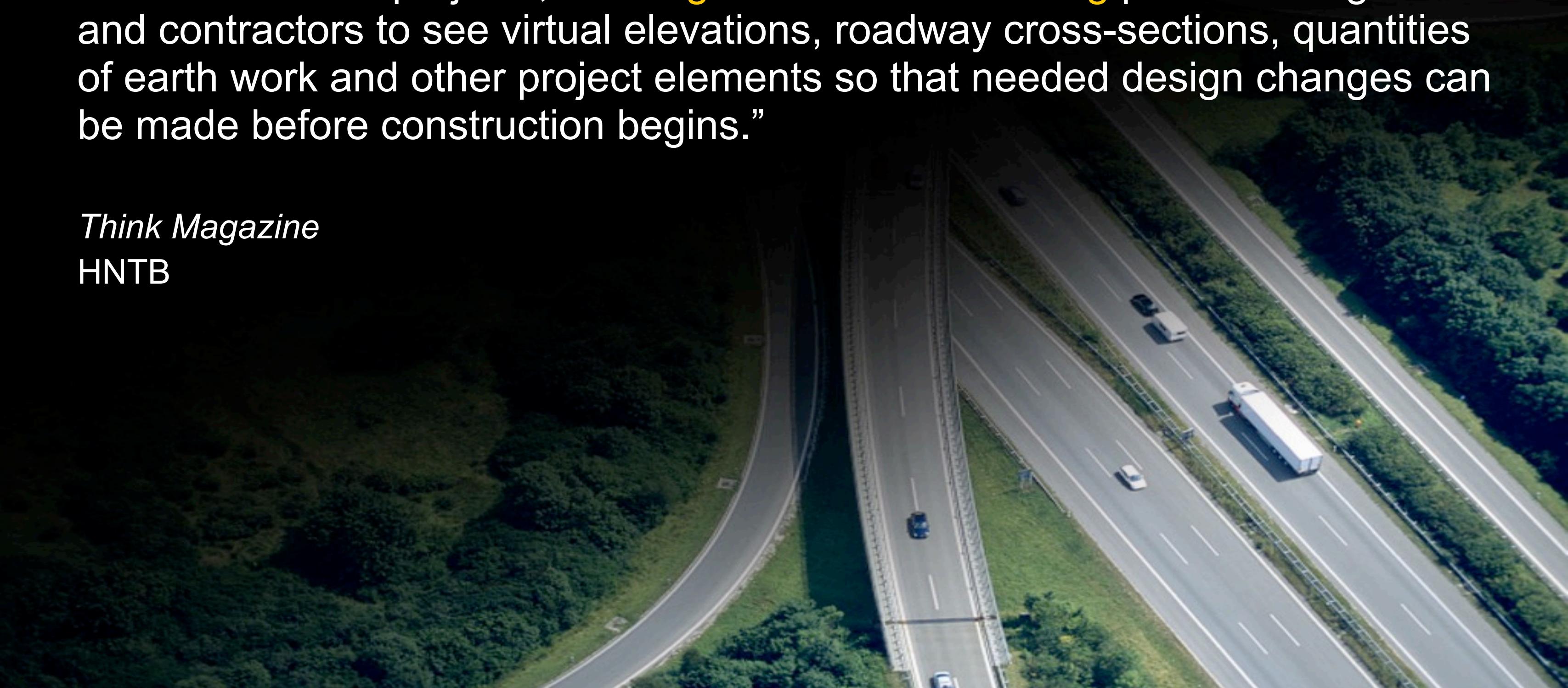
VA New Mexico



VA Denver, CO

“In infrastructure projects, **Building Information Modeling** permits designers and contractors to see virtual elevations, roadway cross-sections, quantities of earth work and other project elements so that needed design changes can be made before construction begins.”

Think Magazine
HNTB





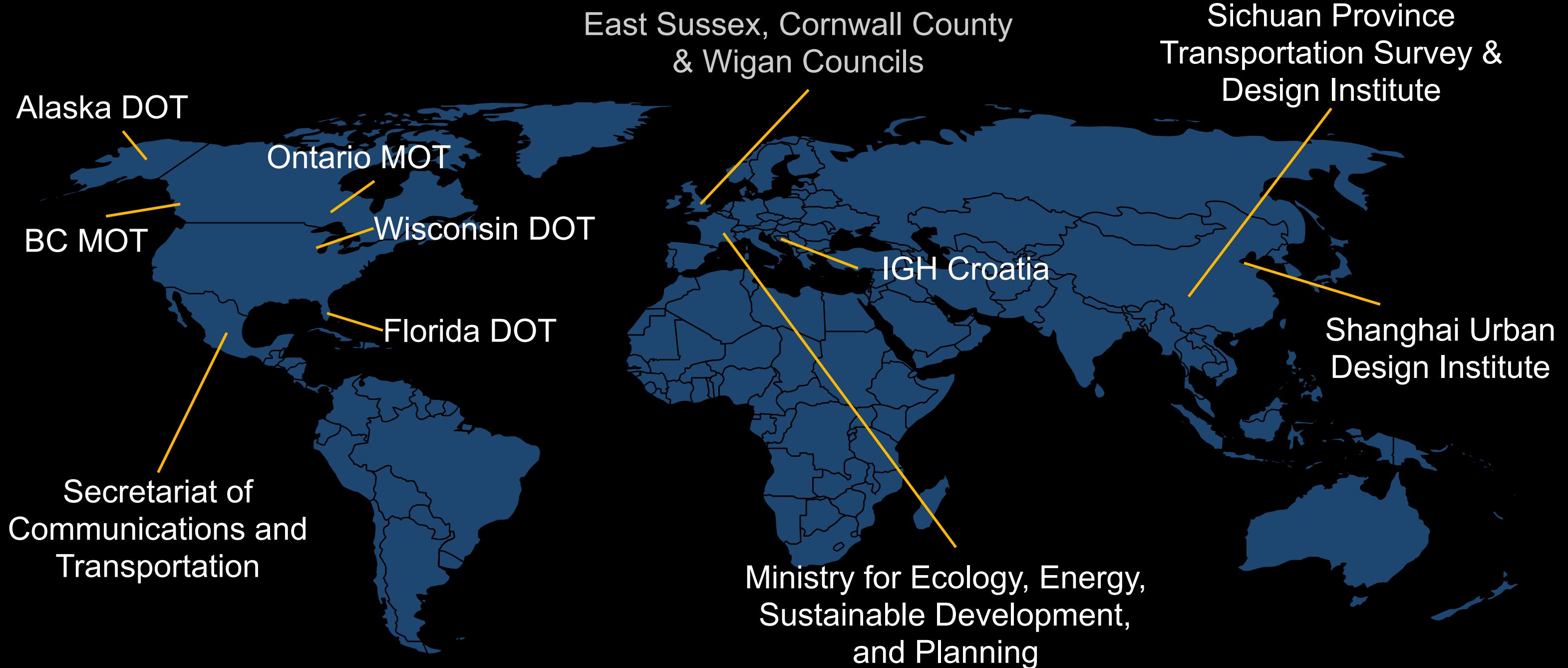
FULL BRIDGE CLOSURE
Labor Day Weekend 2007



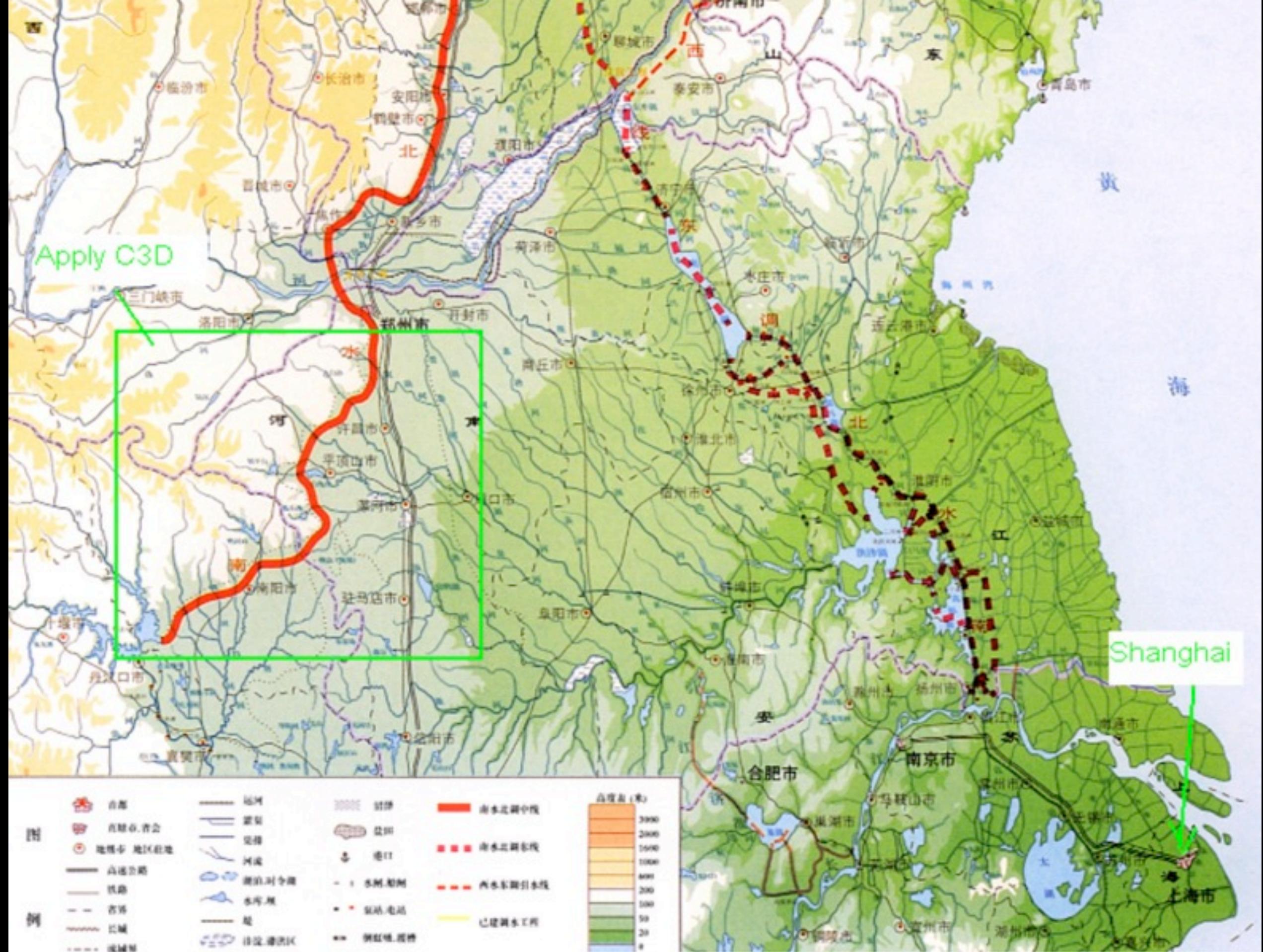
THE SAN FRANCISCO-OAKLAND
BAY BRIDGE SEISMIC SAFETY PROJECTS

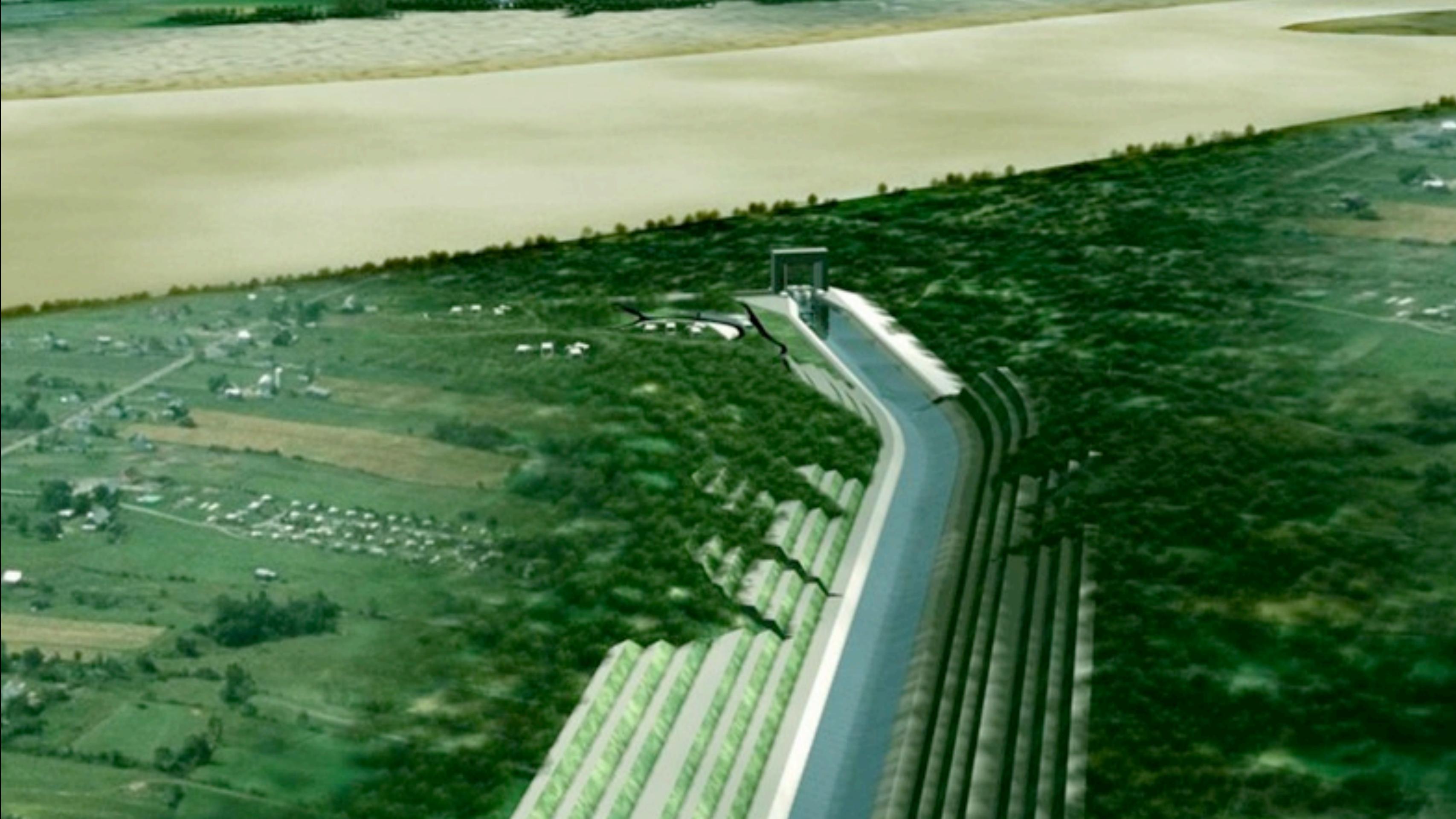


Transportation Agency Wins



7X

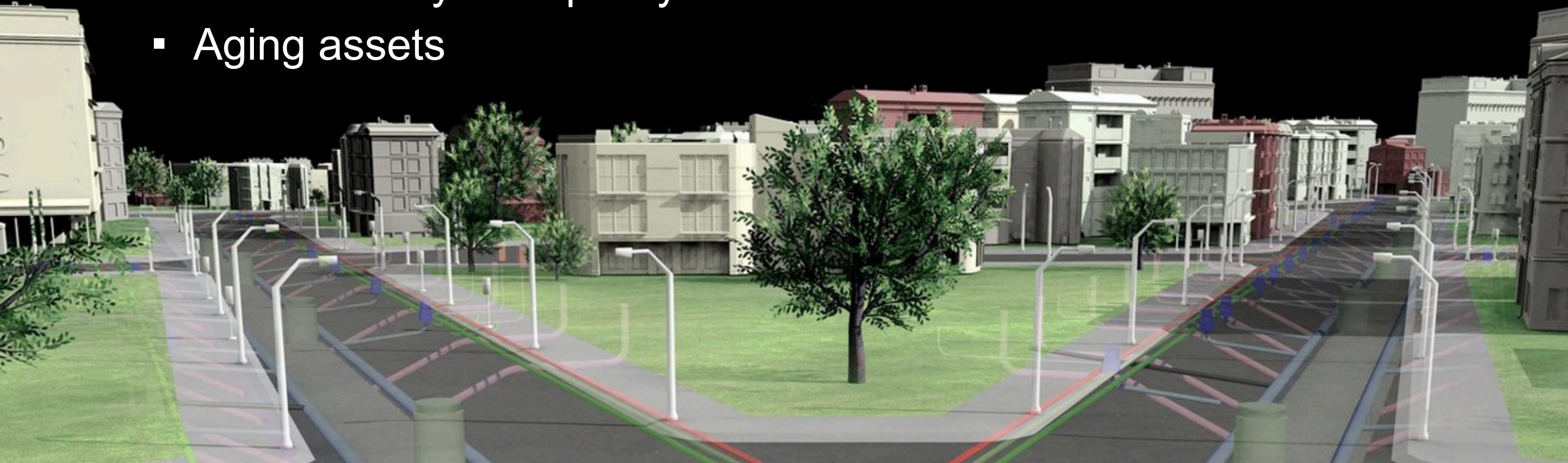




Utility Business Challenges

Infrastructure challenges

- Intelligent grid
- Sustainability and quality
- Aging assets



ÜZ Lülsfeld (Germany)

Enable Faster Permitting and Approval of Solar Generation

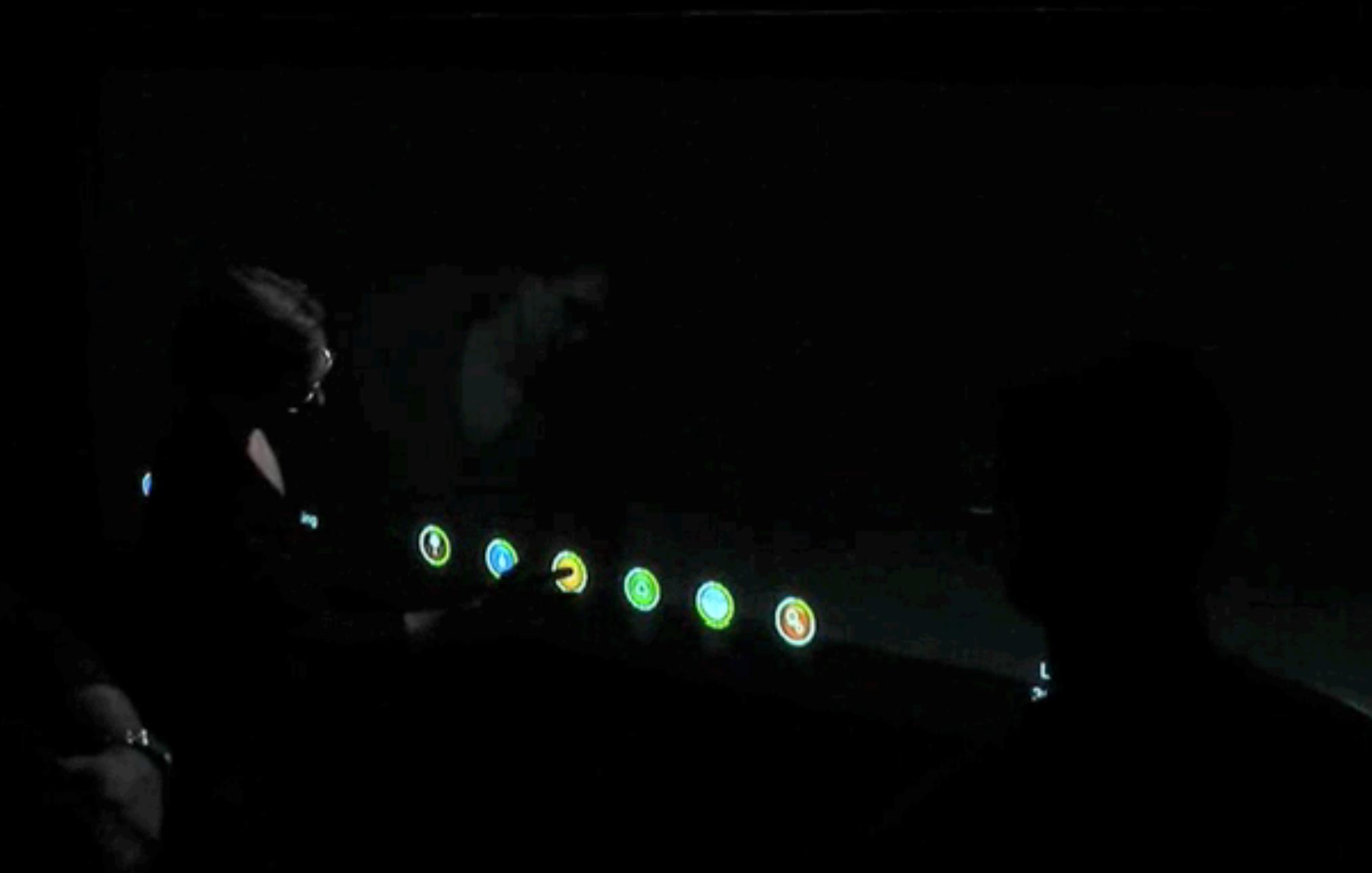
- Challenges: Difficult to access network information
- Needs: Accelerate approvals
- Solutions: AutoCAD Map 3D, Autodesk Topobase, MapGuide

Sonneborn, Inc.

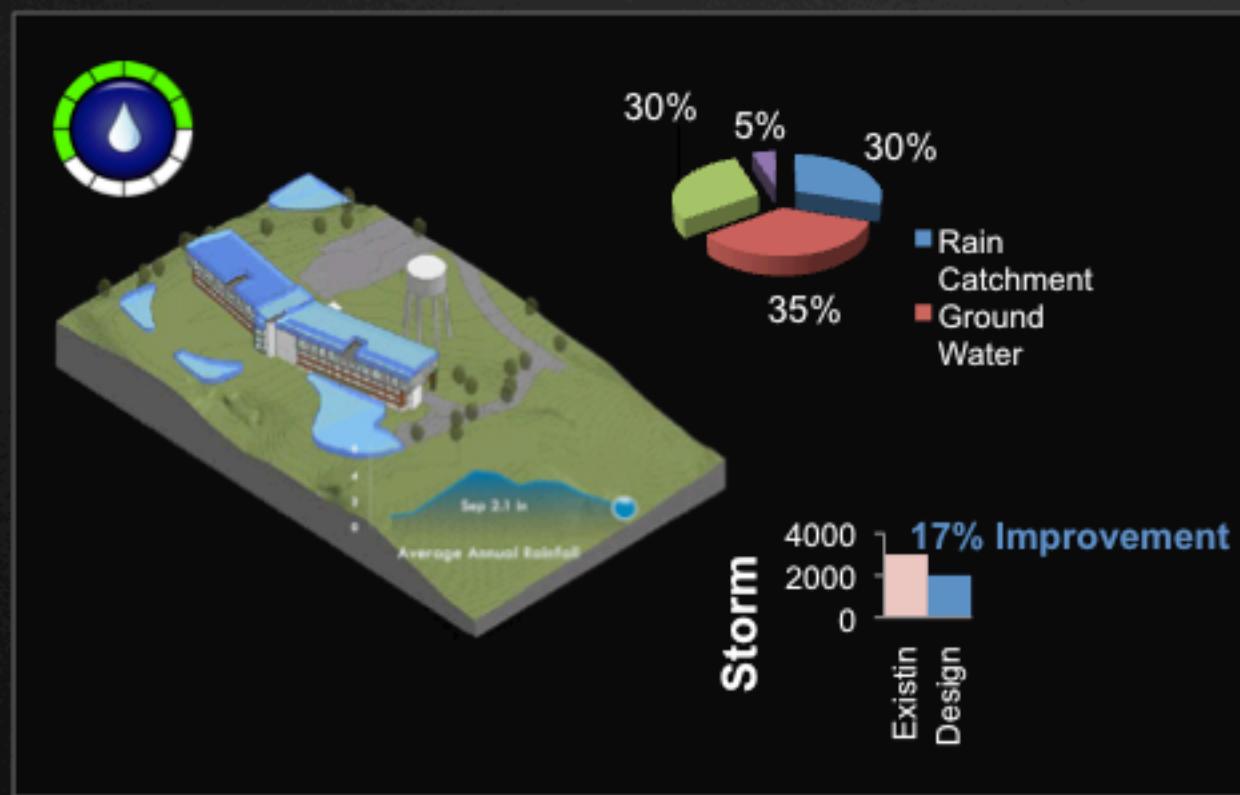


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