

Give me a scenario for how it would improve bridge management.

AS: Let's say you're doing inspections on a major crossing. A red flag comes in. When I was in Albany, what we needed to do was go back to the drawings, find the location, figure out what needed to be done. In this scenario you have all that at the tip of your finger. The inspector will have a handheld device with which he takes a picture and transmits it to Albany. You can analyze the situation much faster. Faster action is critical.

At the 2008 IBC conference, Dr. Chen, you were asked about geotechnical aspects of BrIM. Any updated response?

SC: Some of the things the questioner had in mind were a bit beyond what we were doing then. But it is quite reasonable to include soil boring data, blow counts, geotechnical assessments of bearing capacity. Some state DOTs already require bridge substructure data to be supplied in 3D form to reference into their maps. The contrators in turn can update their digital terrain models through their GPS-controlled equipment.

When doing survey data for road design, it's a logical and relatively small step to say, "Okay... why not go below the surface?" I admit that at this moment we've not yet incorporated that. It's on the ongoing list of software upgrades.

What is the status of your Federal Highways Administration research project on integrated bridge project delivery and life cycle management?

AS: It's up for advisory panel review. Comments will come back after August, then we're out on the road...half-day presentations for bridge engineers and two days for those who work with everyday bridge operations.

What would you like to see as the next step for BrIM?

AS: I'd hope there will be at least one or two pilot projects...the first avenue would be in a design-build scenario. That's where the low-hanging fruit is.

SC: I'd like to see a better industry-wide, collaborative and substantive effort at defining life-cycle data standards.

What about the vendors?

AS: Vendors like Bentley and Autodesk are pieces of the puzzle. From an in-the-trenches viewpoint, obviously we have to work with the commercial vendors and we need to tell them what we want. Many people use different parts—visualization, for example. The pieces are there, but it's fragmented.

Are you optimistic?

AS: Knowing how the industry works, it's going to take more than five years. But it has to happen. The world is going this way. Or, you could stick your head in the sand.

SC: In the bridge world the owners, transportation departments, etc., simply by transitioning to mandating some form of modeling delivery — that will be an irresistible force.

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