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Dang It, Jim! I'm a Modeler, Not a Data Scientist: Dashboarding Model Health

Dr. Kristopher Dane
Thornton Tomasetti

Learning Objectives

- Discover the value of monitoring model health
- Discover the process of setting up the Revit Model Analytics Dashboard in an AEC firm
- Discover alternative dashboards for monitoring model health
- Learn about the implications to daily modeling practice as a result of monitoring models

Description

This class will introduce and discuss the Autodesk Model Performance Analytics Dashboard, a tool that lets BIM managers, IT managers, project leaders, and firm leadership monitor Revit model health. The class will introduce the tools and the metrics it collects, and then discuss the steps to implement the tool in a 50-office structural engineering firm with 100% Revit adoption. We'll discuss the key findings and improvements noted as a result of having visibility into the health scores. Finally, we'll discuss other approaches to creating dashboards for tracking model performance in architecture, engineering, and construction firms.

Speaker(s)

Dr. Kristopher Dane, Thornton Tomasetti

Dr. Kristopher Dane is a Vice President and Director of Digital Design for Thornton Tomasetti (TT), an international structural engineering firm. He has 11 years of experience managing teams, administering technology, and developing custom tools to support the design of over 5-million square feet of structures around the world. His experience includes working with clients to set modeling strategy for complex projects including the adoption of project specific workflows such as quantity control and 3D visualization.

Dane has in-depth technical knowledge in various parametric modeling platforms such as Revit, CATIA/ Digital Project, Rhino and Grasshopper, as well as data exchange through APIs (Application Programming Interfaces) of Revit, Excel, Bentley RAM, CSI SAP. Knowledge of programming languages includes VBA, C#, and PHP.

In collaboration with the CIO, CTO, and business leaders, Dane oversees a group charged with improving BIM workflows across all practices and making strategic investments in future technology. This includes adopting best practices from around the world to support TT's 50 offices while maintaining consistency in internal workflows.

Dane contributes to the advancement of BIM in the industry through participation in the Autodesk Engineering Executive council, the Structural Engineering Institute BIM Committee, and as the United Kingdom's technical expert to European Committee for Standardization TC442/WG3 on "Information Delivery Specification."

In his doctoral work at the George Washington University, Dane studied the influence of building geometry on active shooter events. Dane is now working to incorporate such simulations into the building design process through a systems engineering approach.

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