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# Transportation Information Modeling and the Perfect Case Study

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## Learning Objectives

- Get a feel from a company that collects mobile LIDAR how it is utilized to win work
- Learn how to get additional use out of several collaborative AEC products
- Learn how to use InfraWorks, AutoCAD Civil 3D, and 3ds Max in a cyclical fluid manner
- Get a real-world example of how VR can be informative for the public

## Description

In the class, we'll follow the cyclical Architecture, Engineering, and Construction Collection flow of products to produce the all-encompassing product for our client and the public. We'll start with InfraWorks software for planning and studying purposes. Then we'll move to a survey mobile LIDAR (light detection and ranging) in using ReCap software and InfraWorks software. Next we'll finalize our InfraWorks conceptual for presentation purposes to win the job. At that point, we'll use a combination of AutoCAD Civil 3D software and InfraWorks to meet biweekly with a team of a few dozen key engineering personnel. As the design moves to preliminary plans and prepares for the public meeting, the InfraWorks model has transformed into a graphical representation of the precise design in AutoCAD Civil 3D that is pleasing to the eye and mind of the general public. This includes animations for InfraWorks done in 3ds Max software. We'll touch on preparing virtual reality for the public meeting and other ideas. The project preps for automated machine guidance at submittal time while always being synced with InfraWorks.

## Speaker(s)

Rusty Steel is the Technology Manager at CEC Corporation. Having a background in Survey and all aspects of Infrastructure Design he oversees IT and other technologies while specializing in 3D design, modeling, and visualization with Infrastructure Design at CEC. With 13 years of experience in designing major civil projects, training other experts in the industry he has worked in most major design software. He has gained professional Autodesk certifications in AutoCAD and Civil 3D and has developed an Autodesk Certified Training Center in Oklahoma City. Additionally, of the 38 Autodesk Certified Instructors, he is the only based in Oklahoma.