Road Work Ahead: New Techniques for Road Reconstruction Using Civil 3D

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About the speaker

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Overview

Road Reconstruction

With 80% of road construction budgets going toward road rehabilitation, is "mill 2/overlay 2" the best that can be done? This class will explore the new road rehab tools in Civil 3D software and show how you can use them to reduce milling, cut materials costs, and produce a smoother final road surface. We'll explore the new tools, as well as how to incorporate mobile LiDAR (light detecting and ranging) into your design process to identify potential problems during design instead of in the field. We'll also look at how the techniques in these new tools are being used at the United States Department of Transportation.
Quick video on how we collected and processed the LiDAR data
Class Outline

COLLECTION
In order to use model road reconstruction, you need data to create a model of the existing conditions. Mobile LiDAR is an efficient method to collect the data.

PROCESS
After collecting the data, it needs to be processed and blended together into a surface model.

ANALYZE
The processed data can be analyzed a number of different ways, including looking at existing slopes and for looking for major issues on the road surface.
Class Outline

MODEL
Using the Rehab corridor tool in Civil 3D, we can model

REPORT
The final step is creating reports that show the milling and overlay depths as well as the target cross slopes of the new road
Demo Time

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Questions?