

# InfraWorks 360 in Motion: Getting Things Moving in Your Model

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# Class summary

This class is designed to show the steps needed to get objects moving in your InfraWorks model.

The round-trip of data will flow like this:  
InfraWorks 360 to AutoCAD Civil 3D to 3ds Max plus Civil View and back to InfraWorks 360.

# Key learning objectives

At the end of this class, you will be able to:

- Learn how to create paths using InfraWorks 360 road tools: Design and Component Roads
- Learn how to use AutoCAD Civil 3D to convert imported alignment(s) to Feature Lines, and create individual paths for vehicle movement (lanes merge, bus turnout, and so on)
- Learn how to use 3ds Max and the Civil View extension to assign vehicles to imported paths, set speed, direction, vehicle type, starts, stops, and so on
- Learn how to use InfraWorks 360 to import and configure the animation file(s), and account for transformation shift on import

# Takeaways

1. No animation controls in InfraWorks 360:
  - a. The Animations are either on or off
2. Speed, paths, direction, timing, etc. need to be set in 3DS Max.
  - a. What you see in 3DS Max is what you will get in InfraWorks 360
3. Global shift [applied in 3DS Max] is different for every import:
  - a. Even when exporting from the same project
  - b. Check and verify global shift each time
4. When importing 3DS Max back to InfraWorks:
  - a. Global shift in Positive direction [moving back to origin]
  - b. Micro adjustments may need to be applied to the import shift
  - c. Scaling the import to Metric [3.2808 X,Y,Z] may be necessary
5. The more animated objects you have in the model, the more potential for degraded model performance.

# How did I do?

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- Activate your own profile and start contributing.
- Complete your profile while at AU Las Vegas and Autodesk will make a donation on your behalf.

The screenshot displays the Autodesk University profile for Sam Lucido. The profile includes a circular profile picture of a man wearing a yellow hard hat and glasses. Below the picture are social media icons for LinkedIn and YouTube. The profile text identifies him as a Civil Designer and CAD Services Manager at Haley and Aldrich, Inc. in Ann Arbor, Michigan, with over 20 years of experience in engineering projects and a BS in Computer Aided Design from Eastern Michigan University. The profile also shows statistics for Discussions (4 solutions, 1 idea, 22 kudos), Contributions (65 on AKN, 5 AU classes), Autodesk Affiliations (Autodesk and AIA), and Certifications (Autodesk). Below the profile is a section titled 'AU CLASSES' featuring a grid of six class cards. Each card has a thumbnail image and a title: 'No sheet - you can do that with the SSM in AutoCAD' (2015 Las Vegas), 'Might macros: pumping up productivity 1 character at a time' (2014 Las Vegas), 'AutoCAD® alphbetized: tips and tricks from A to Z' (2012 Las Vegas), 'Might macros: pumping up productivity 1 character at a time' (2014 Las Vegas), 'AutoCAD® alphbetized: tips and tricks from A to Z' (2012 Las Vegas), and 'No sheet - you can do that with the SSM in AutoCAD' (2015 Las Vegas).



