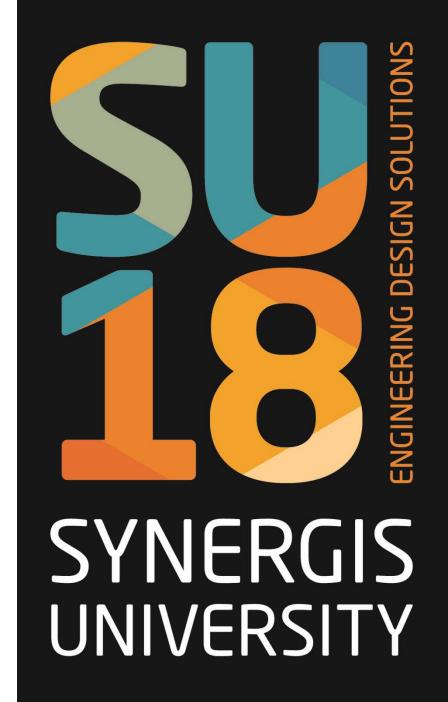
A Practical Guide to GIS in AutoCAD Civil 3D

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Who am I...

- Rick Ellis
- Portland, Oregon
- Originally a CAD Manager and Civil Designer
- I've been teaching AutoCAD, Civil 3D, and AutoCAD Map since mid-90's
- Consultant
- Author
- 12 years teaching at AU
- Member of the Autodesk University
 Advisory Council





Who are you?



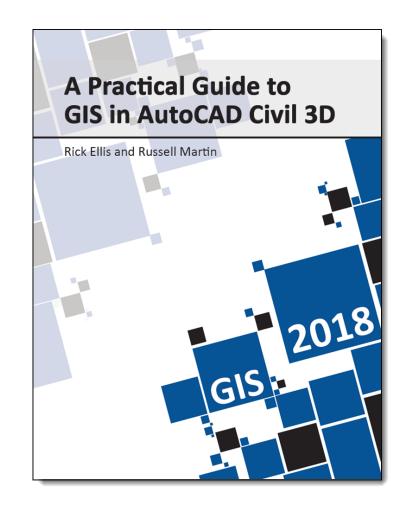
Handouts

- Download handouts for my classes
 - www.cadapult-software.com/su2018/

A Practical Guide to GIS in AutoCAD Civil 3D 2018

This class is based on selections from this book.

www.cadapult-software.com/books

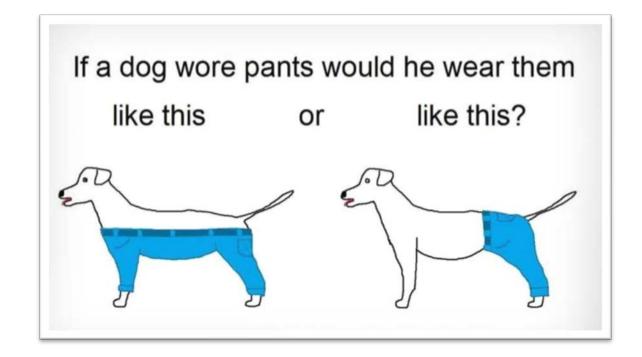


Course Agenda

- Introduction to GIS in Civil 3D
- Importing GIS Data from other Formats as AutoCAD Objects
- Label Objects with Annotation Templates
- Importing GIS Data as Civil 3D Objects
- Connecting to GIS Data

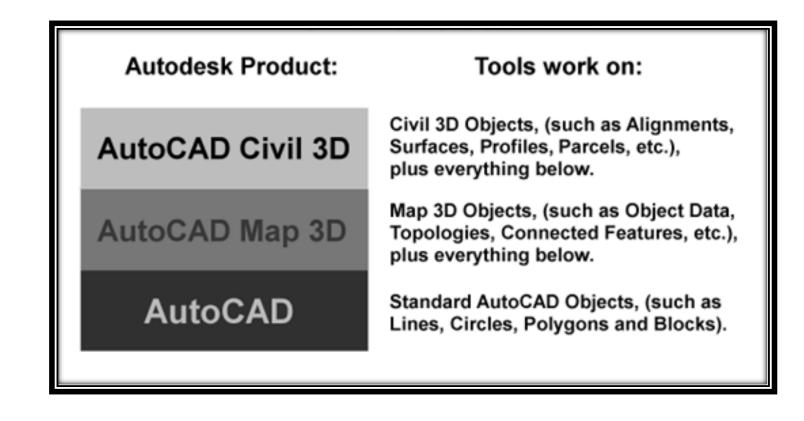
What About Questions???

- Short time for questions at the end of each topic
- After the session
- Via email



Introduction to GIS in Civil 3D

- It's really 3 programs in 1
 - So what data can I create and who can use it?



Using GIS Data from other Formats

- Three ways you can bring GIS data into Civil 3D:
 - Importing GIS Data as AutoCAD Objects
 - Importing GIS Data as Civil 3D Objects
 - Connecting to GIS Data

- Important to understand how GIS data is structured
 - Feature Classes

Importing GIS Data as AutoCAD Objects

AutoCAD Civil 3D can import the following types:

- Autodesk SDF
- ESRI ArcInfo Coverage
- ESRI ArcInfo Export (E00)
- ESRI Shape file
- GML
- MapInfo MIF/MID
- MapInfo TAB

- Intergraph/MicroStation Design (dgn)
- OS (GB) MasterMap (GML 2)
- Spatial Data Transfer Standard (SDTS)
- Vector Product Format Coverage (VPF)



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Annotation Templates

Several types of data can be used to drive an Annotation Template. These include:

- Object Data
- Linked data sources
- Object properties



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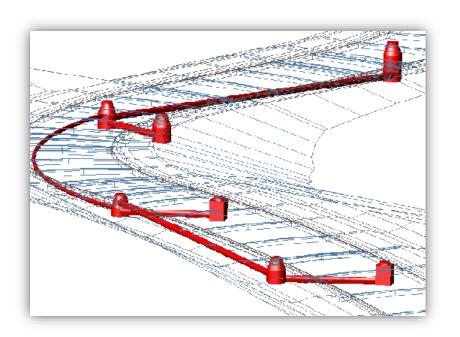




Importing GIS Data as Civil 3D Objects

There are two types of Civil 3D objects that can be created directly from GIS data.

- Surfaces
- Pipe Networks





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Connecting to GIS Data

- Direct Connection
- Not an Import
- Creates Map Features not AutoCAD Objects
- Stylized in the Display Manager



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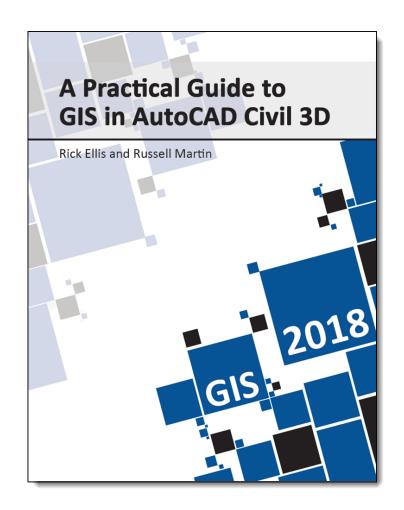
Other useful GIS tools in Civil 3D

- Drawing Cleanup tools
 - Automate the process of cleaning many common geometry errors
- Thematic Mapping
- Dynamic North Arrows, Scale Bars and Legends
- Map Books

A Practical Guide to GIS in AutoCAD Civil 3D 2018

- This class is based on selections from this book.
- We have only scratched the surface of this topic.

- Get your copy at:
 - www.cadapult-software.com/books



Still have Questions???

- Via email
 - rick@cadapult-software.com
- Talk to me here at the conference





Thank you for your time and attention!

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