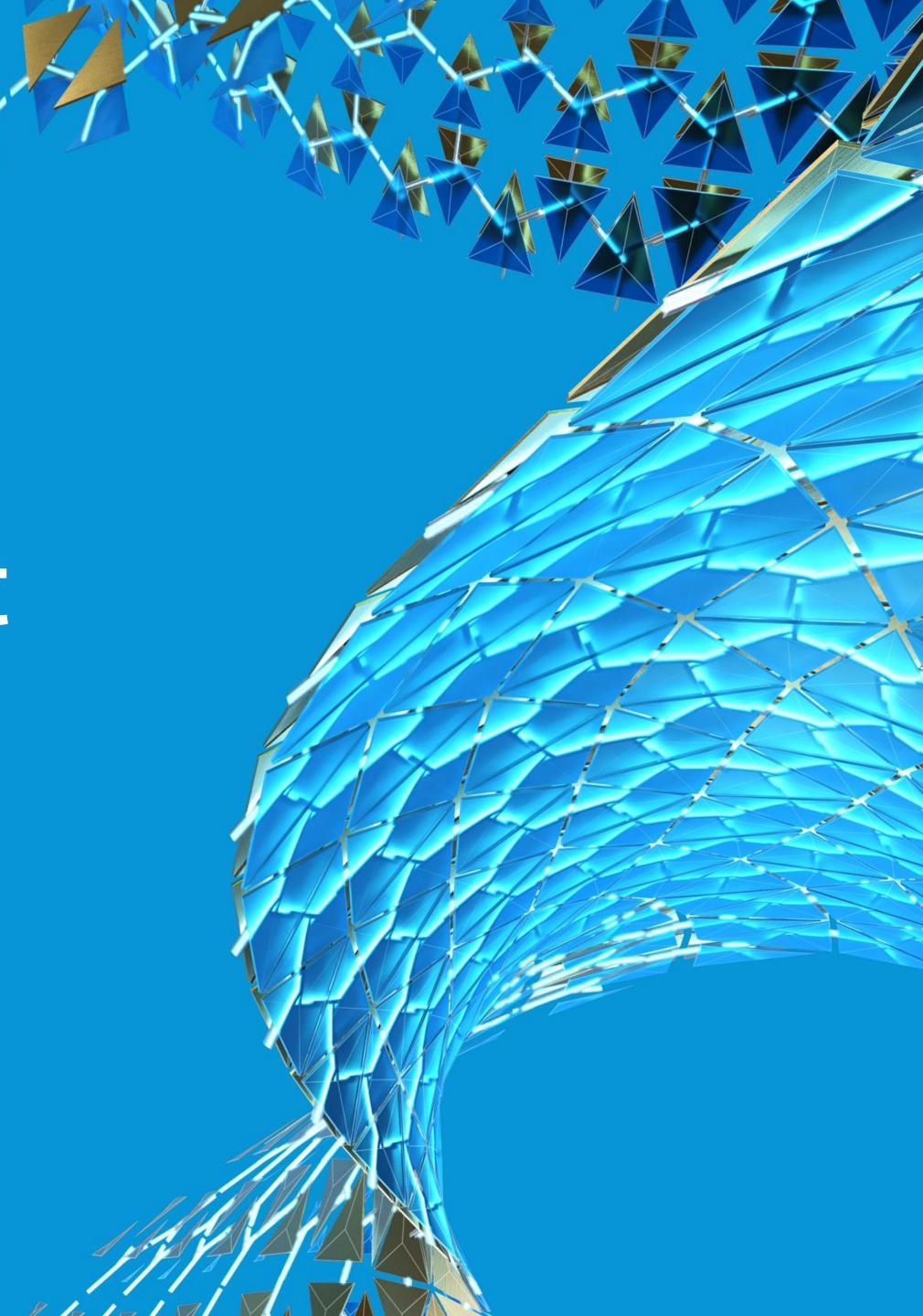


Supercharge your Dynamo Graph with Civil 3D Toolkit

Jowenn S. Lua

Implementation Consultant | Autodesk





About the speaker

Jowenn S. Lua

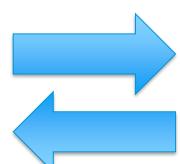
- Over 17 years industry experience in design and construction
- B.S. Civil Engineering degree from De La Salle University
- MBA degree from Ateneo De Manila University
- Alumni Autodesk Expert Elite / Autodesk Gunslinger / Infrastructure Inside the Factory

Learning Objectives

- Be familiarized and use Civil 3D Toolkit
- Create simple and re-usable routine
- Navigate and debug your dynamo graph
- Create your own automation routine

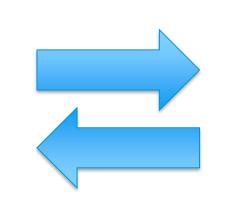
What to Expect?

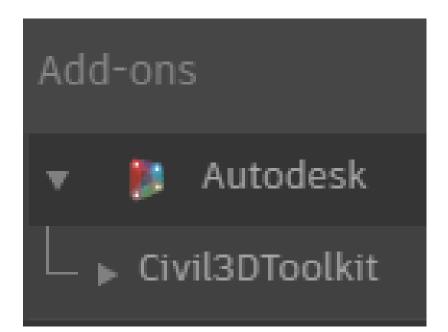






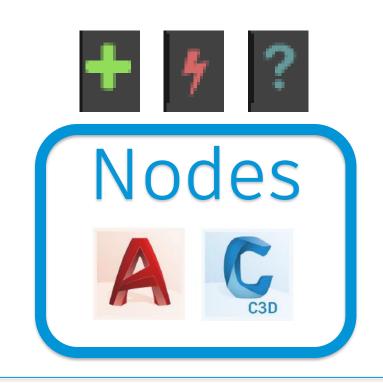
Dynamo











Presentation Download

WHAT IS CIVIL 3D TOOLKIT?

- Package created inside dynamo for Civil 3D
- Developed to supplement the out of the box nodes

WHO DEVELOPED THIS?

- Paolo Emilio Serra
- Safi Hage

WHY DO I NEED THIS?

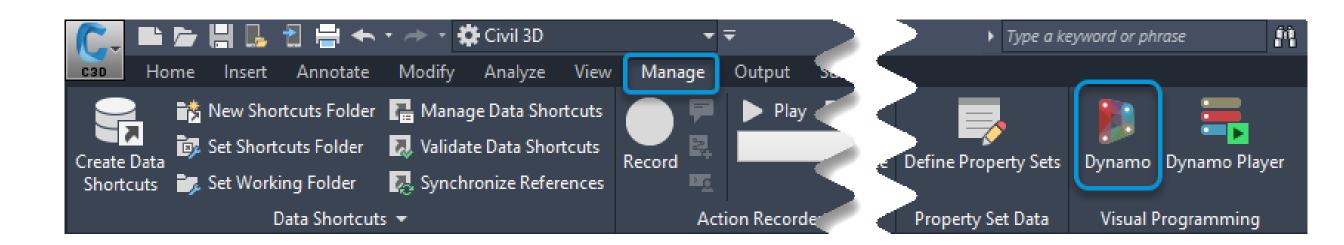
- Offer at least 500+ additional nodes
- Widely used in the Civil 3D community

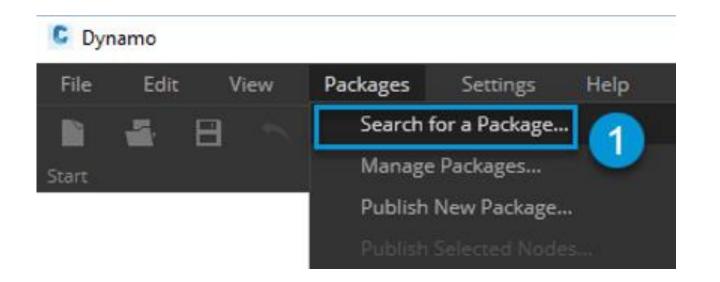


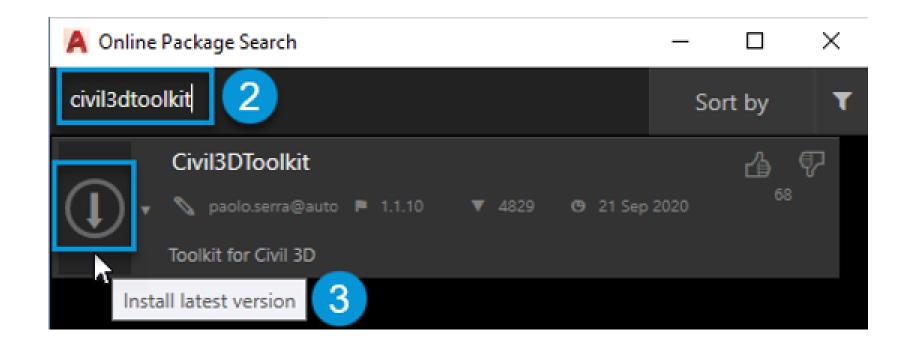


WHERE TO GET IT?

- Open Dynamo in Manage tab
- Go to Packages tab search for Civil3DToolkit
- Install the latest version





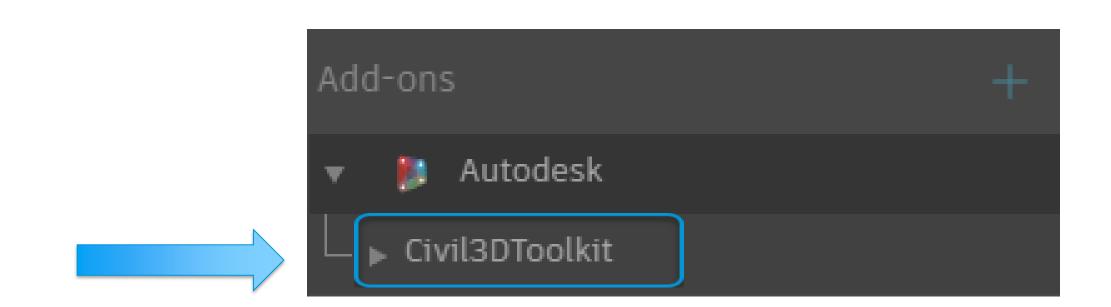


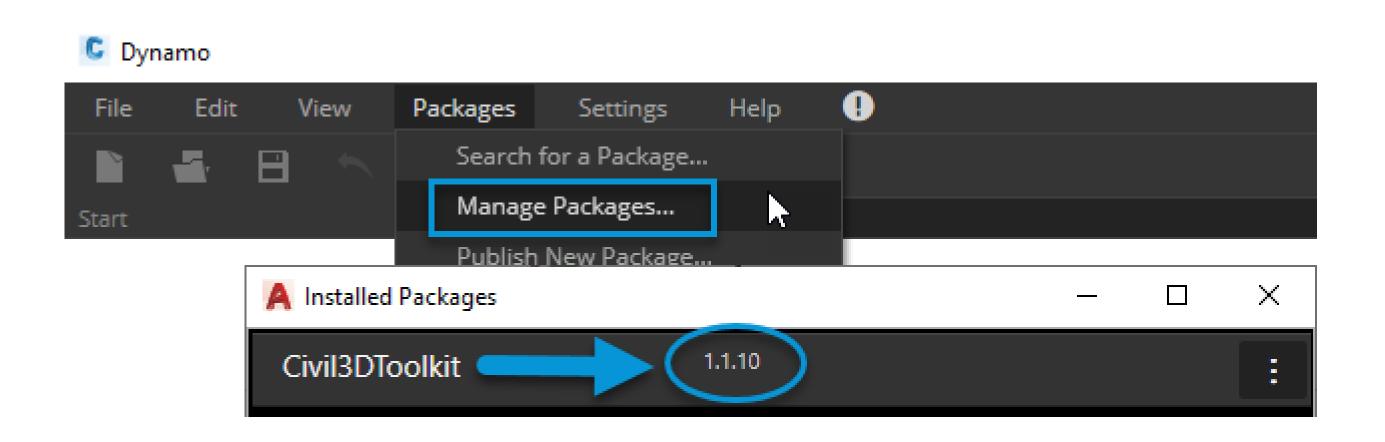
WHERE TO FIND IT?

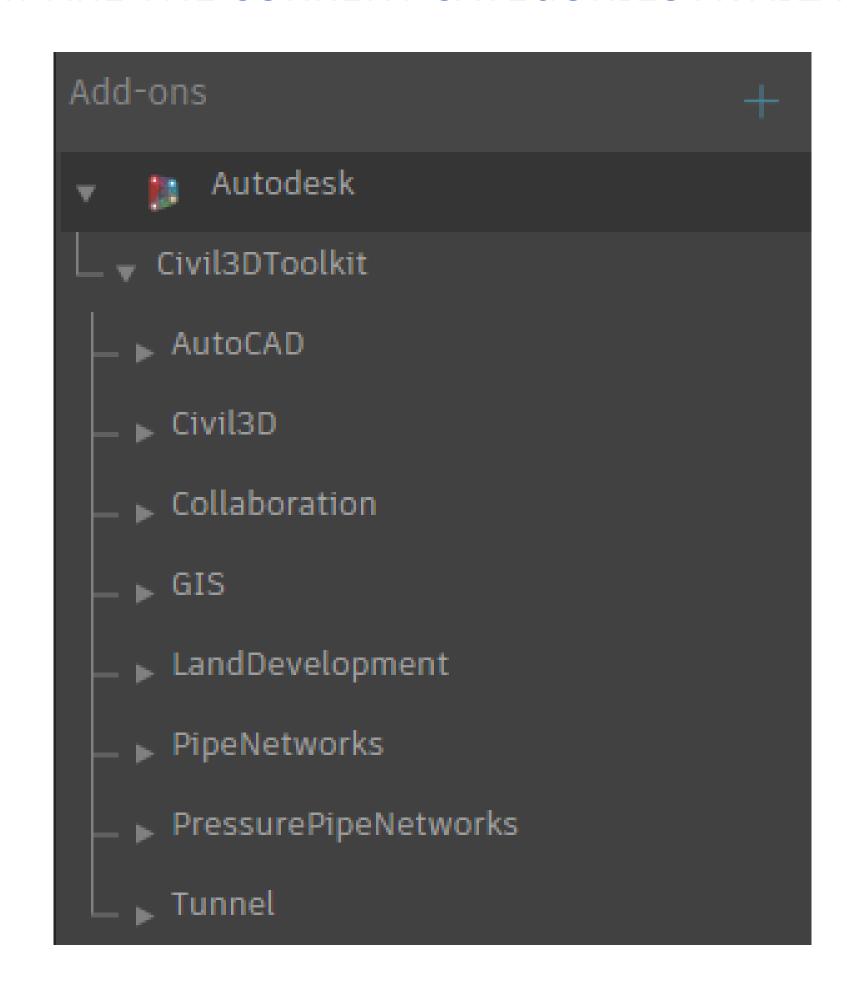
In the library side below Add-Ons

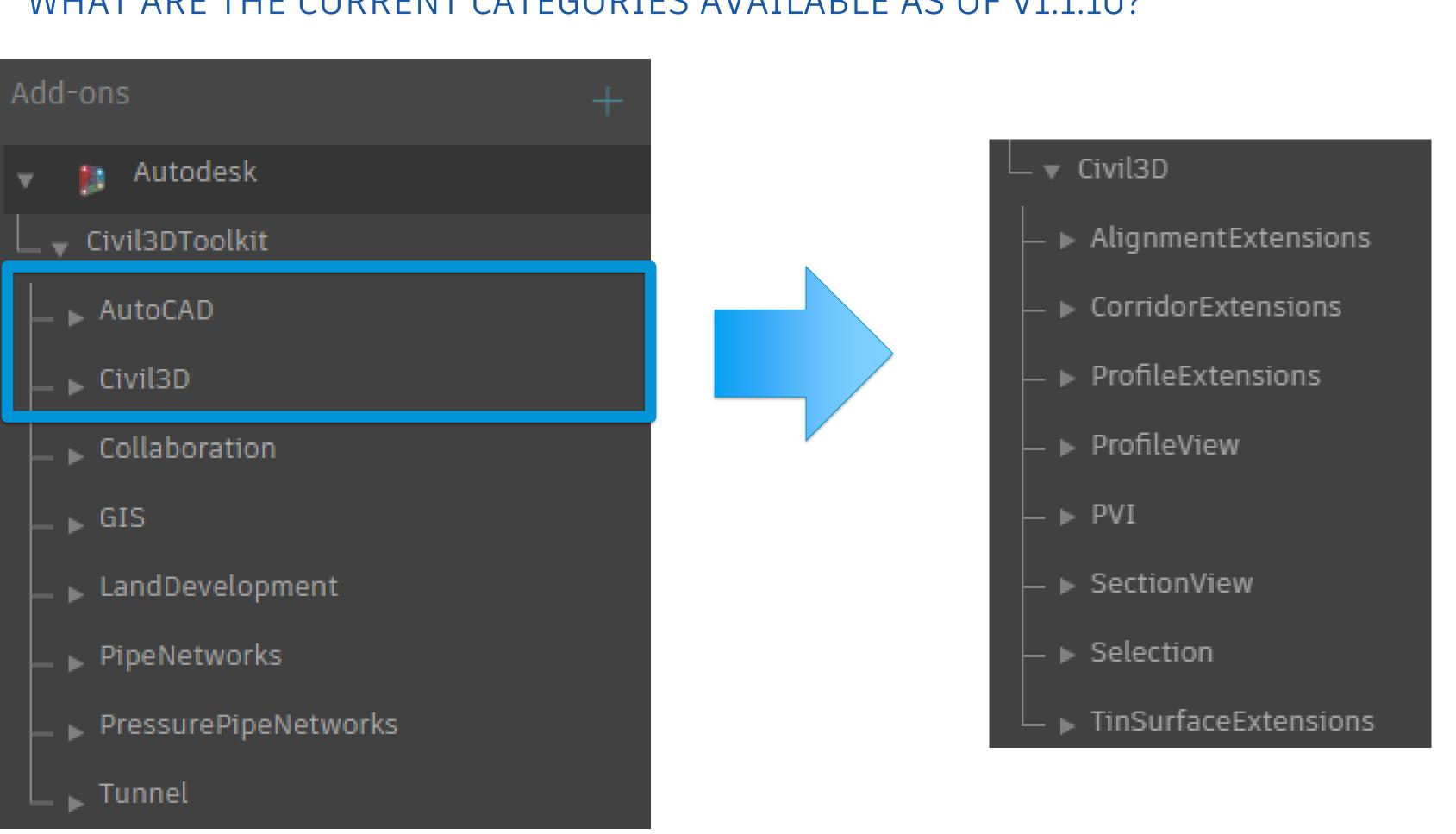
HOW TO CHECK VERSIONS?

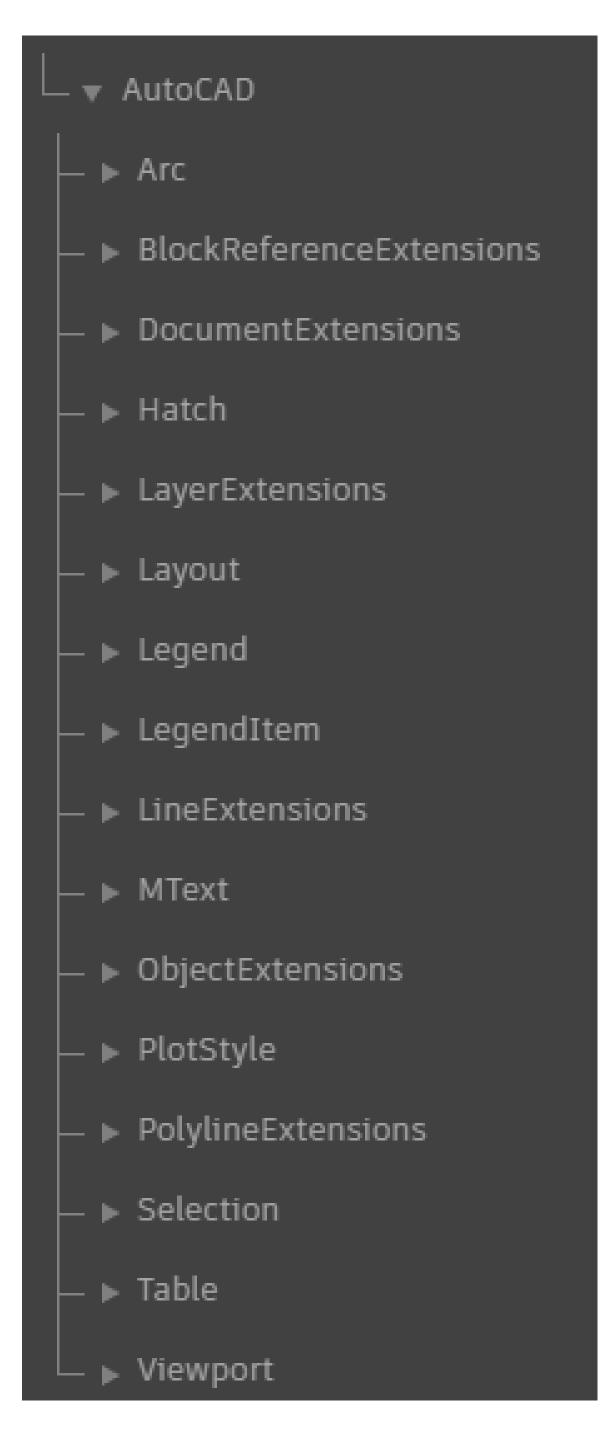
- Go to Packages tab
- Click Manage Packages

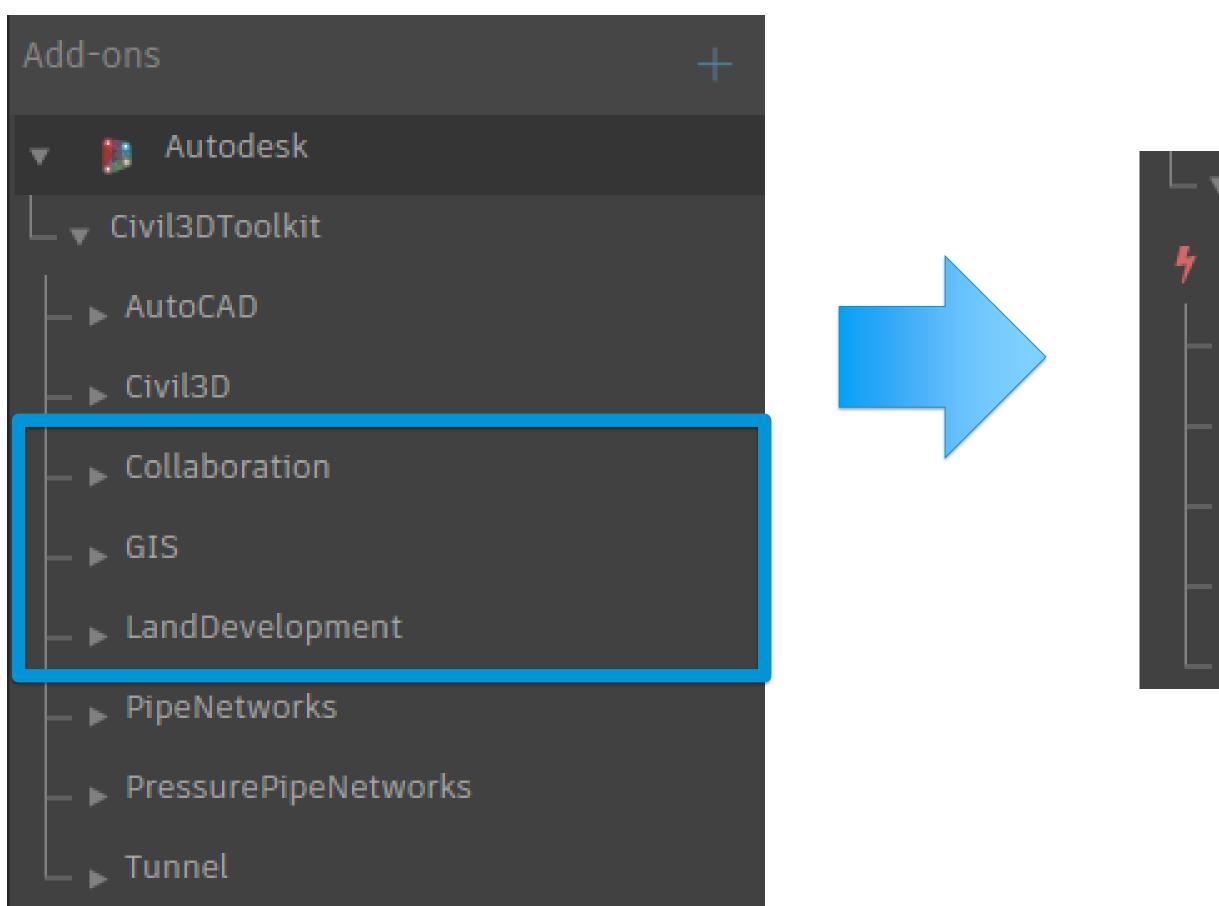


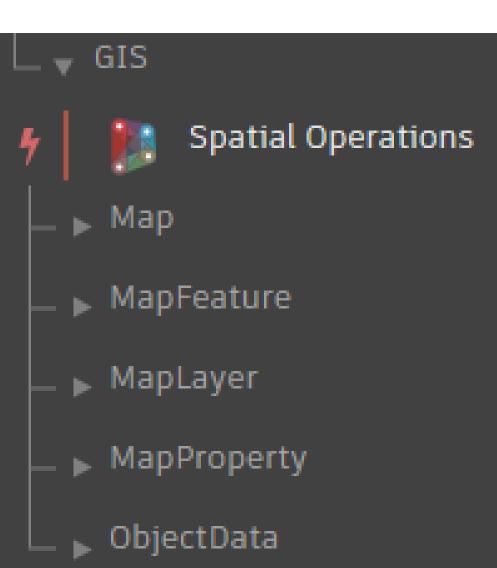


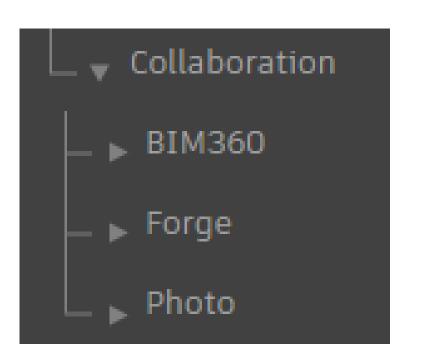




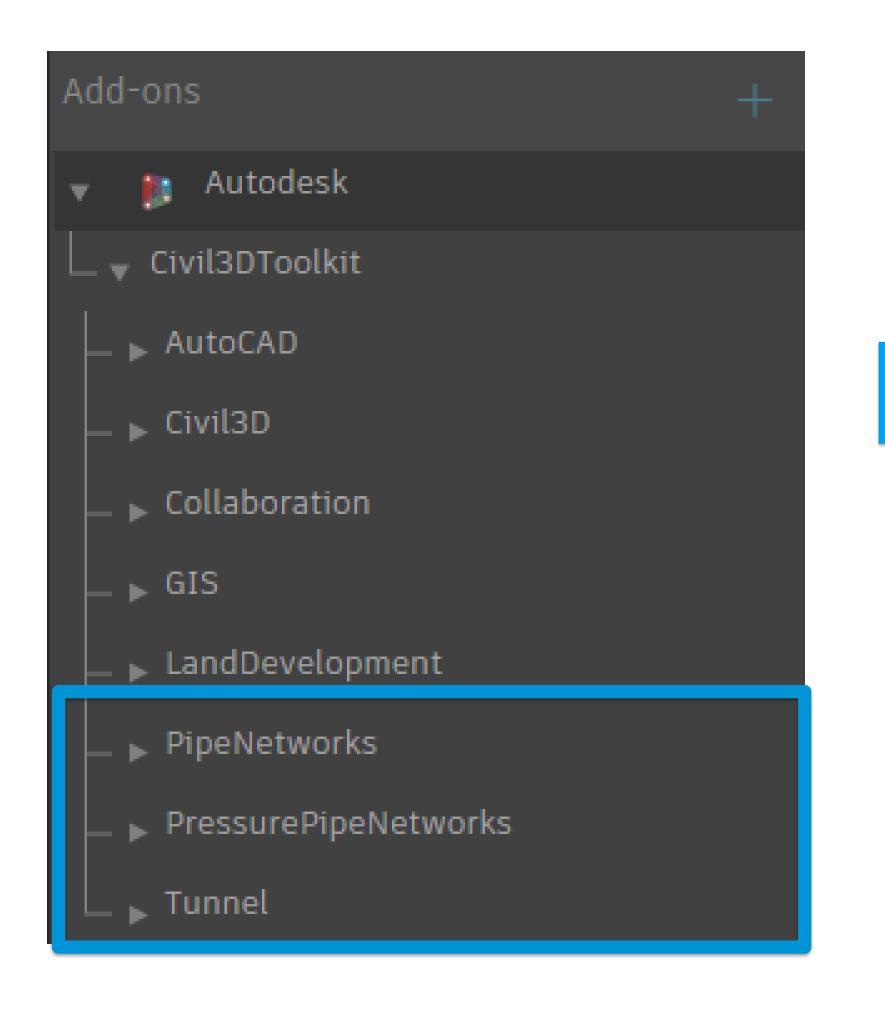


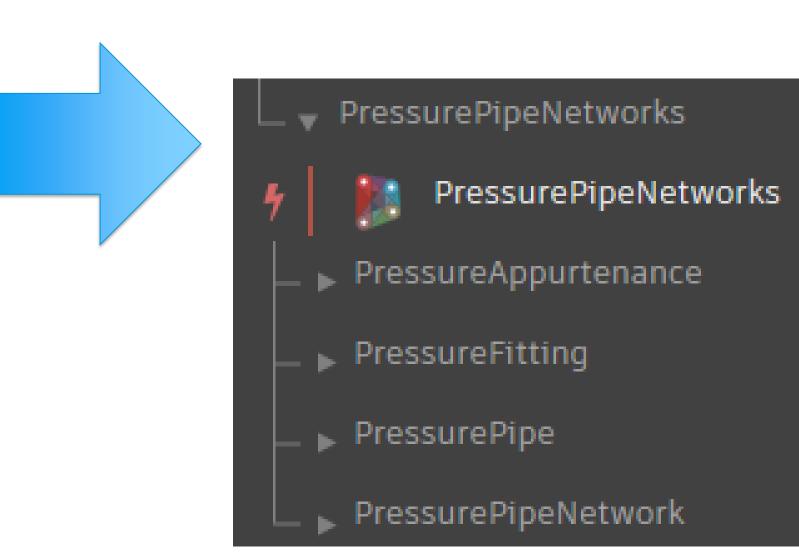


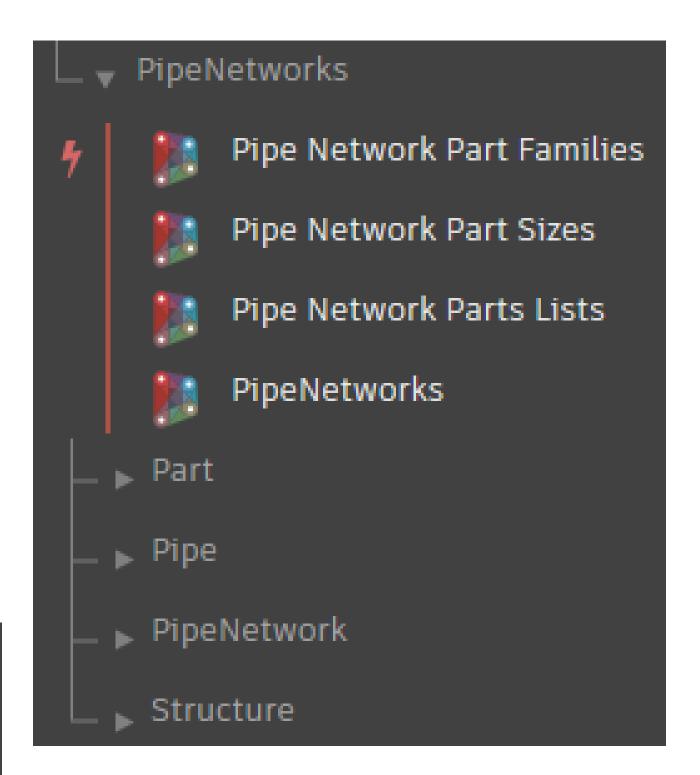


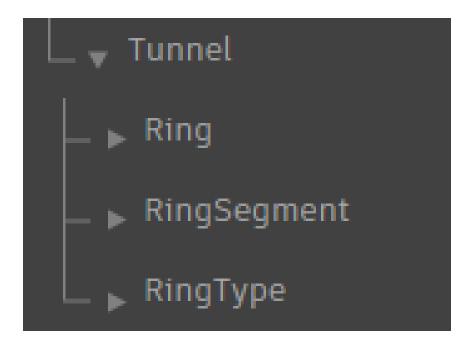












Re-usable Routine

Civil 3D Toolkit > AutoCAD & Civil 3D





Tips in Navigating Dynamo Graph

ANALYZE

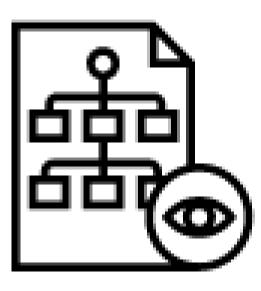
- Purpose
- Input and Output

UNDERSTAND

- Graph management and labels
- Freeze nodes

MODIFY

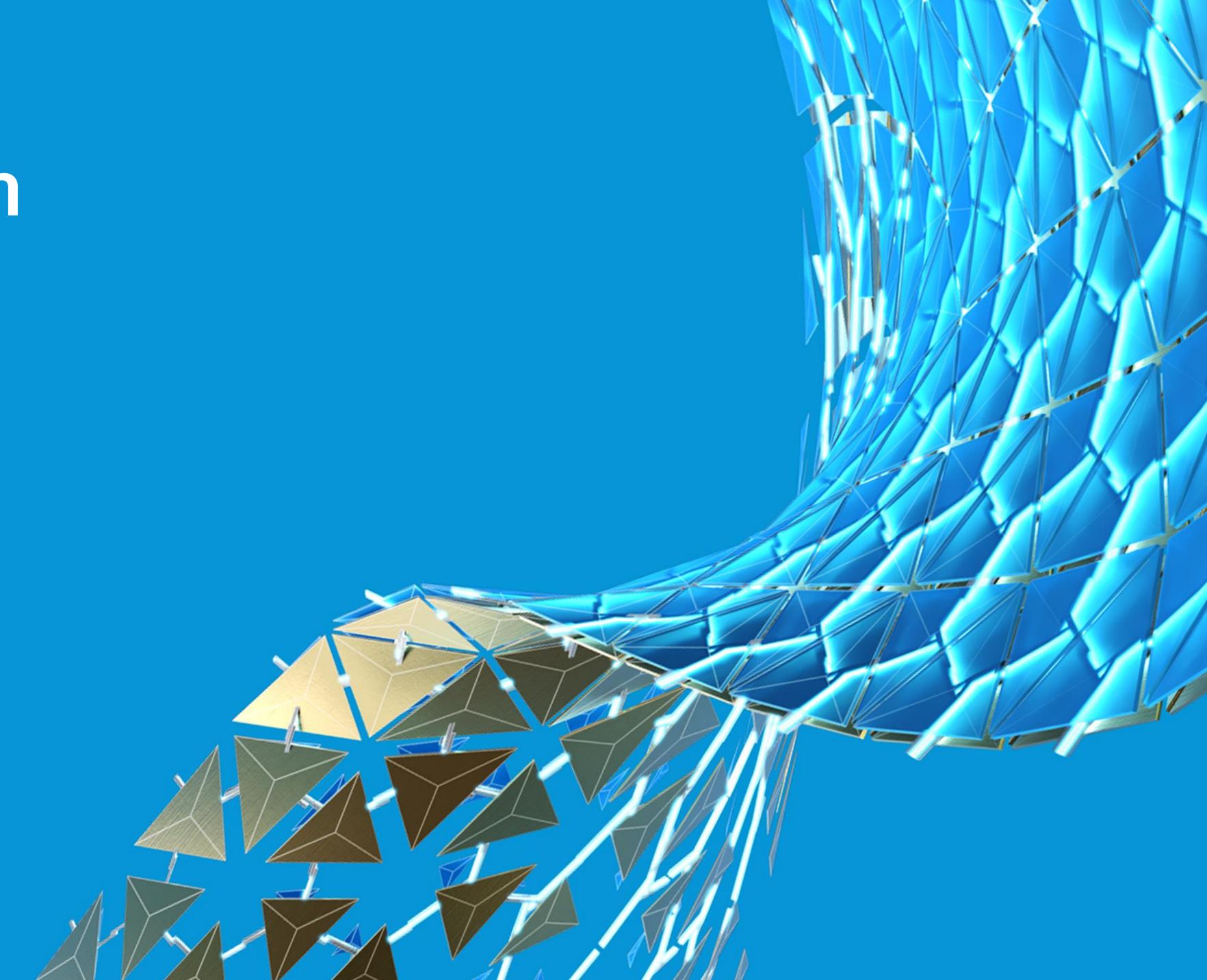
- Understand error messages or state of nodes
- Find ways to make graph efficient







Automation



Tips in creating your own Automation

WHICH TASK TO AUTOMATE?

- Identify repetitive design task
- Small re-usable routine

MEASURABLE AND SCALABLE?

- Time and savings
- Small and bigger scale project

USEFUL IN NEXT PROJECT?

- Re-use or Recycle graph
- Manageable and easy to modify





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