

# Walk-in Slide: AU 2014 Social Media Feed

1. Click on the link below, this will open your web browser

<http://aucache.autodesk.com/social/visualization.html>

2. Use “Extended Display” to project the website on screen if you plan to work on your computer. Use “Duplicate” to display same image on screen and computer.

# PF6425 - Getting to the Point with Reality Capture and Factory Design Suite

Steve Schuchard  
3D Laser Advantage

# Class summary

How can you use Laser Scan data in the Factory Layout Process?

- Organize your data with ReCap
- Produce data directly from AutoCAD
- Model Data in Inventor
- New ways to do feasibility and proposals

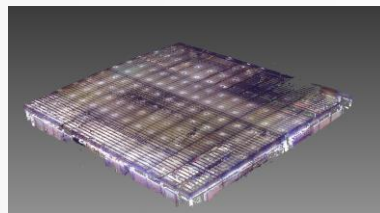
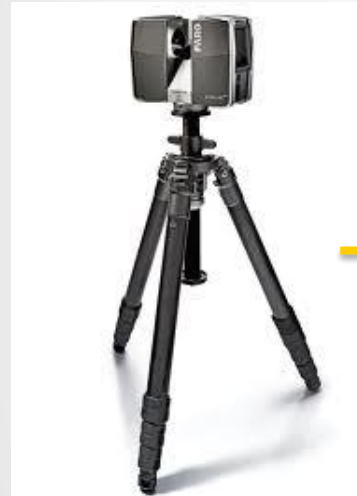


# Ways to Use Scan data

Wide Area  
Laser  
Scanning  
Captures Data  
with accuracy  
to 2mm +/-

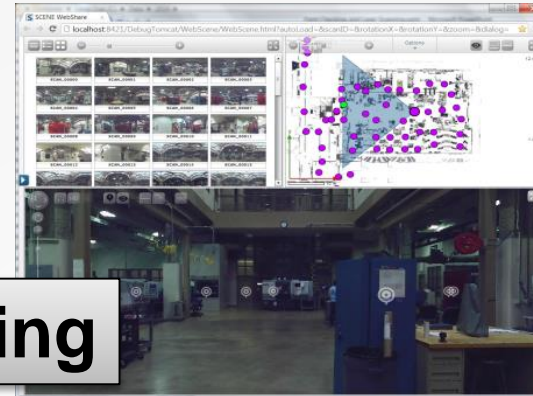
Once  
Captured, the  
data can be  
used in many  
different  
capacities. This  
adds value to  
the data, and  
expands the  
time and  
money saving  
potential.

Eliminate  
Perception  
problems and  
bring the  
project site to  
you and  
engineers.

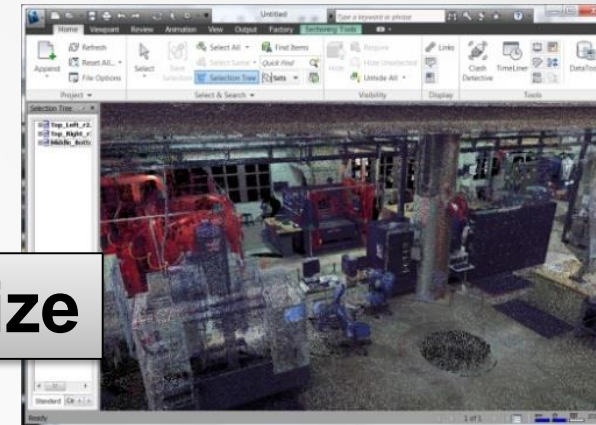


**Point  
Cloud**

**Web Viewing**



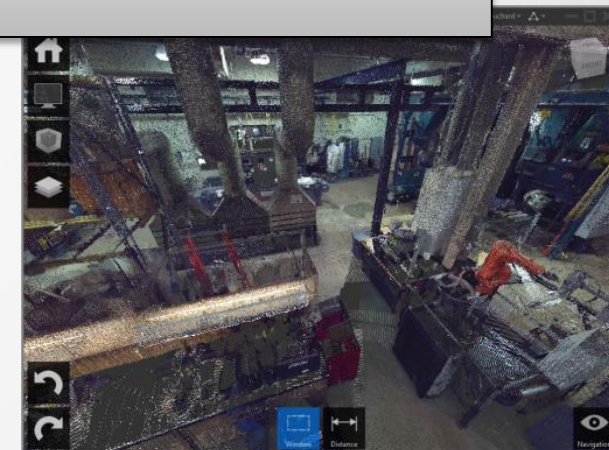
**Visualize**



**View, Edit, and Consume  
2D / 3D**



**CAD Conversion 2D / 3D**

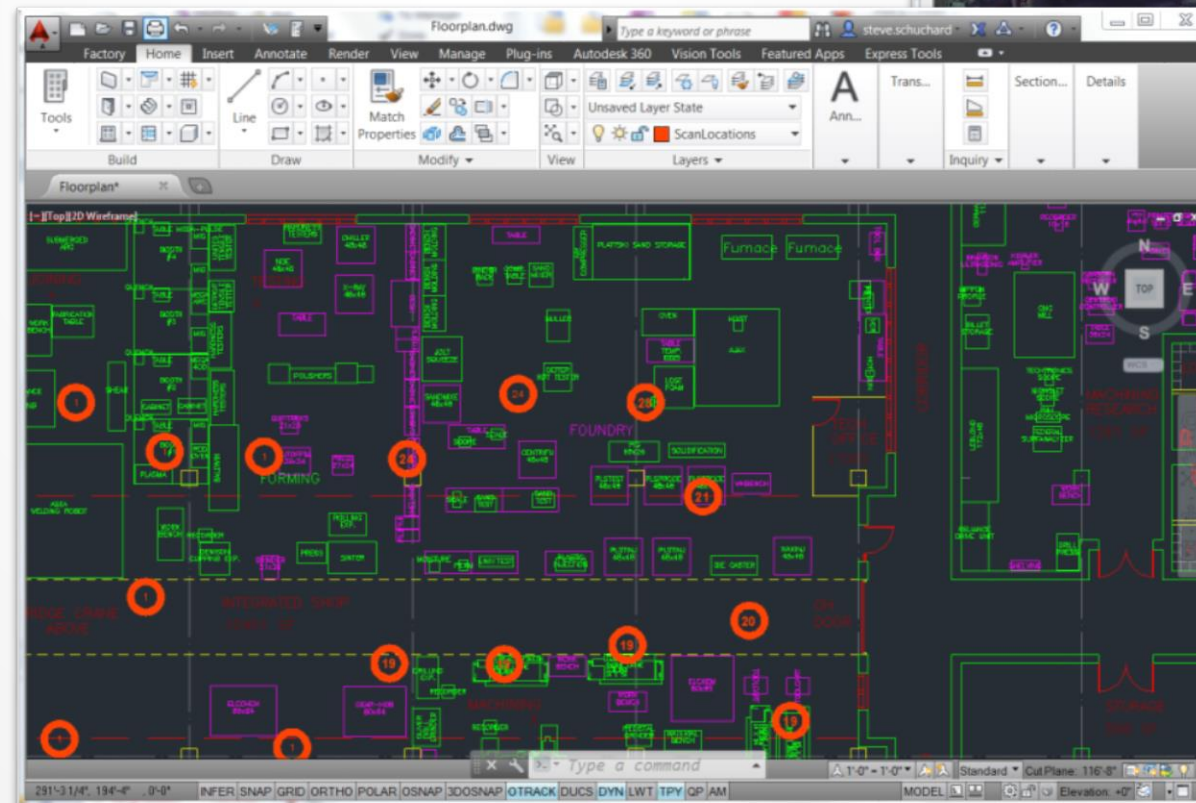
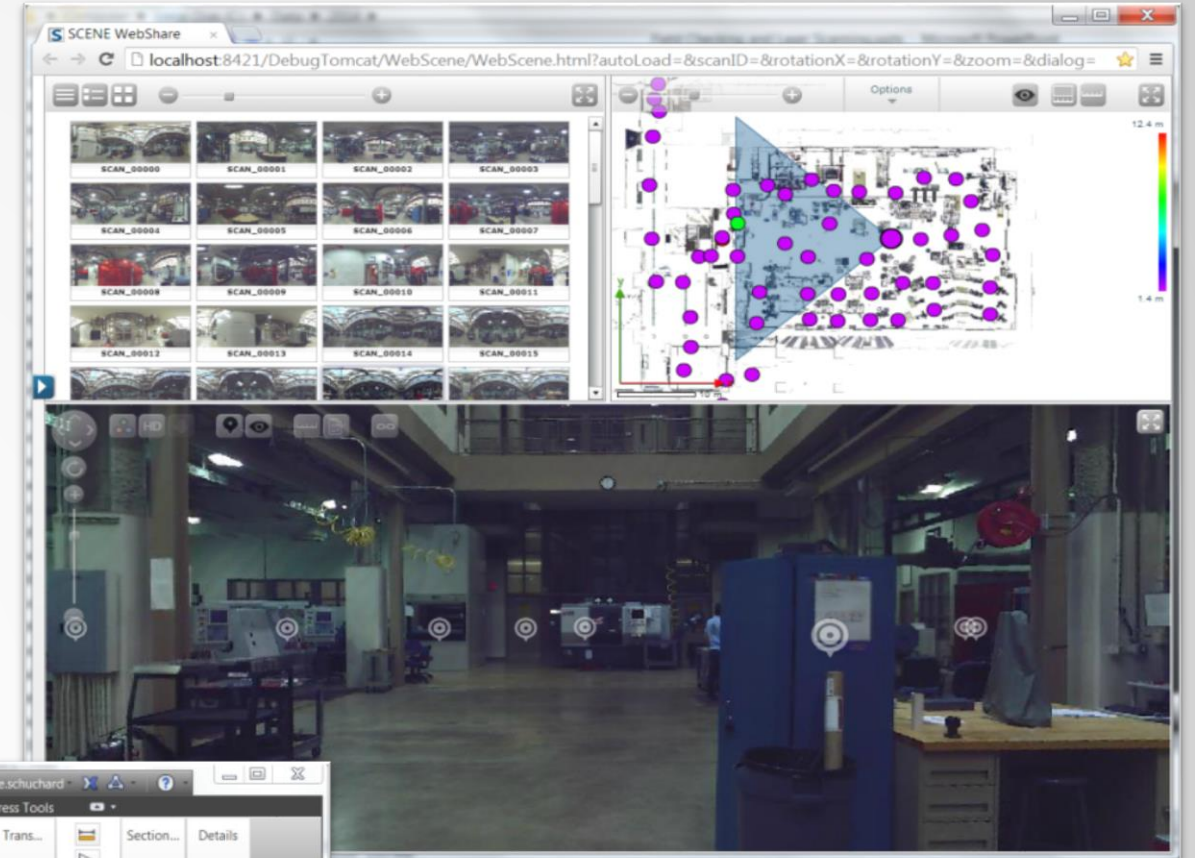




# Integrate Simplicity

## Simplicity

- Browser based viewing and measurement.
- High fidelity
- Little training needed.
- No software to install by users.
- Local or server based.
- Links to AutoCAD Drawings.





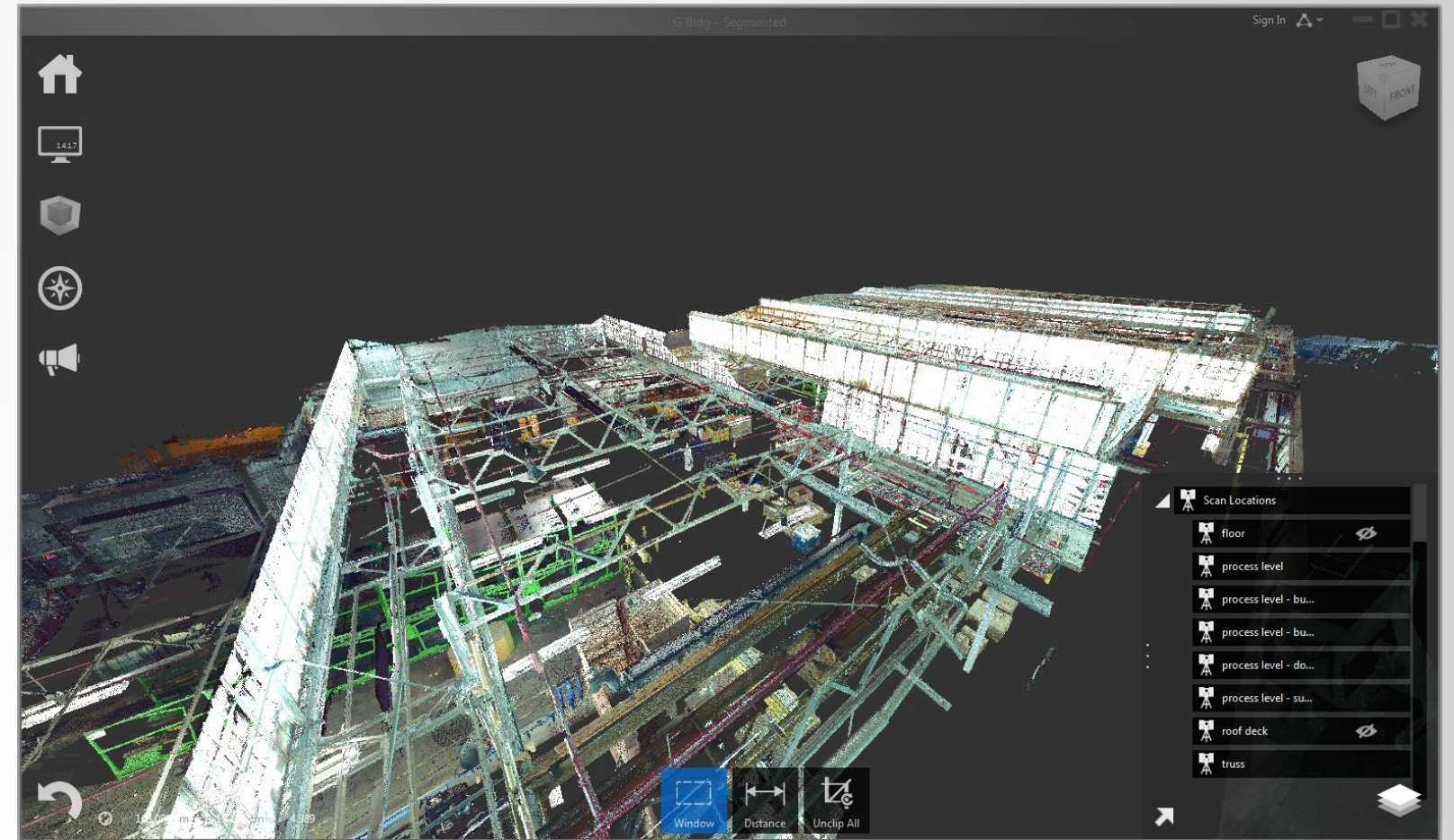
# Organize your Data

- Autodesk ReCap

- View Data
- Clean Scan Data
- Segment
- Re Assemble

- Why:

- Common format in CAD Tools
- Works with multiple scanner types.
- Can be used with any registered data.
- Work with Point Cloud data the way you want.



# Author with your data in 2D

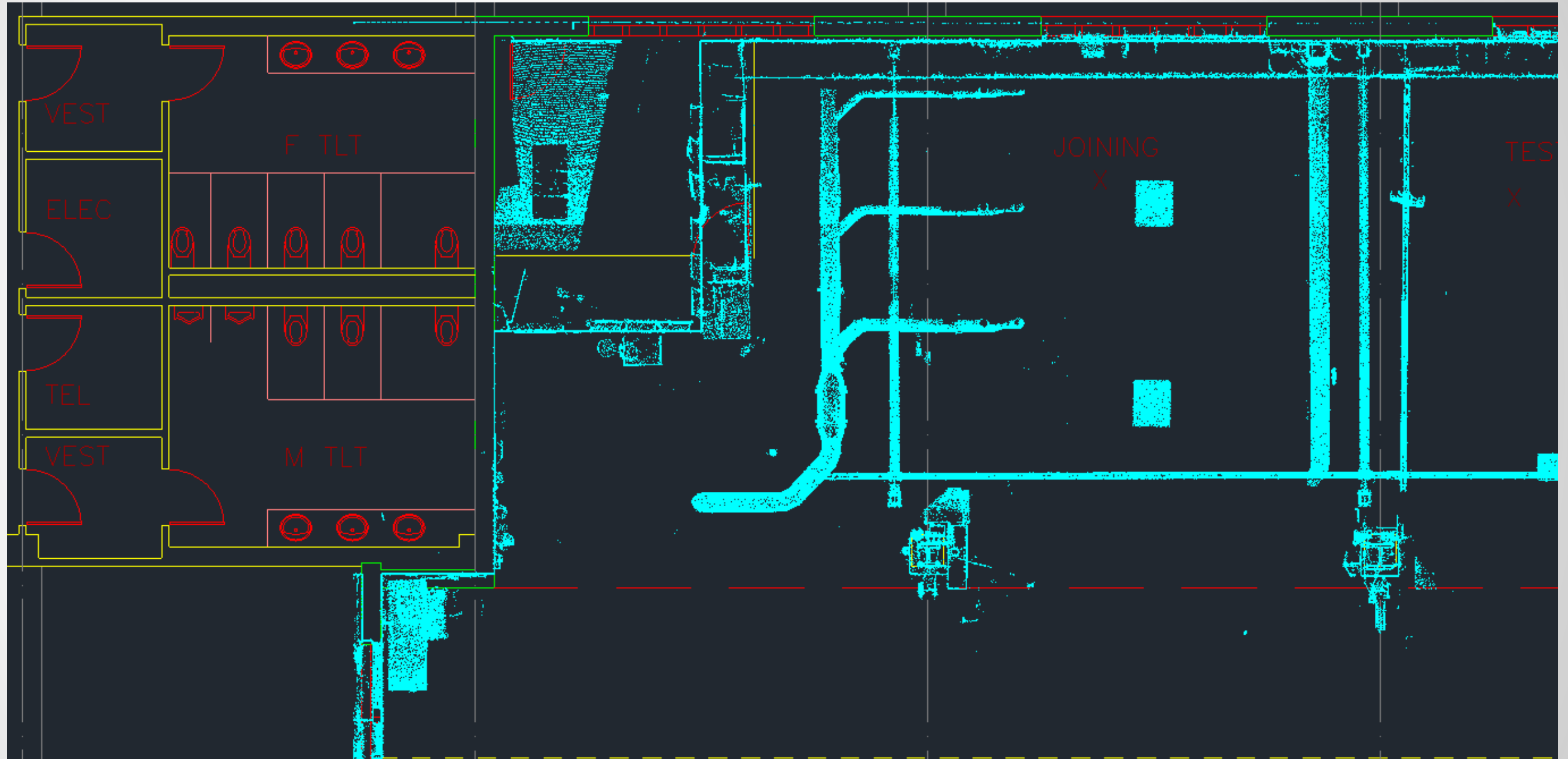
Snapping –  
Node Onsnap (all ACAD  
Versions).

AutoCAD 2015 – New 3D  
Snap Options

Be Aware - AutoCAD  
2014 and AutoCAD 2015  
generate different DWF  
files due to change in  
ReCap display engine

Clarity and Quantity of  
Points displayed in  
AutoCAD 2015 are  
dramatically more dense  
than 2014

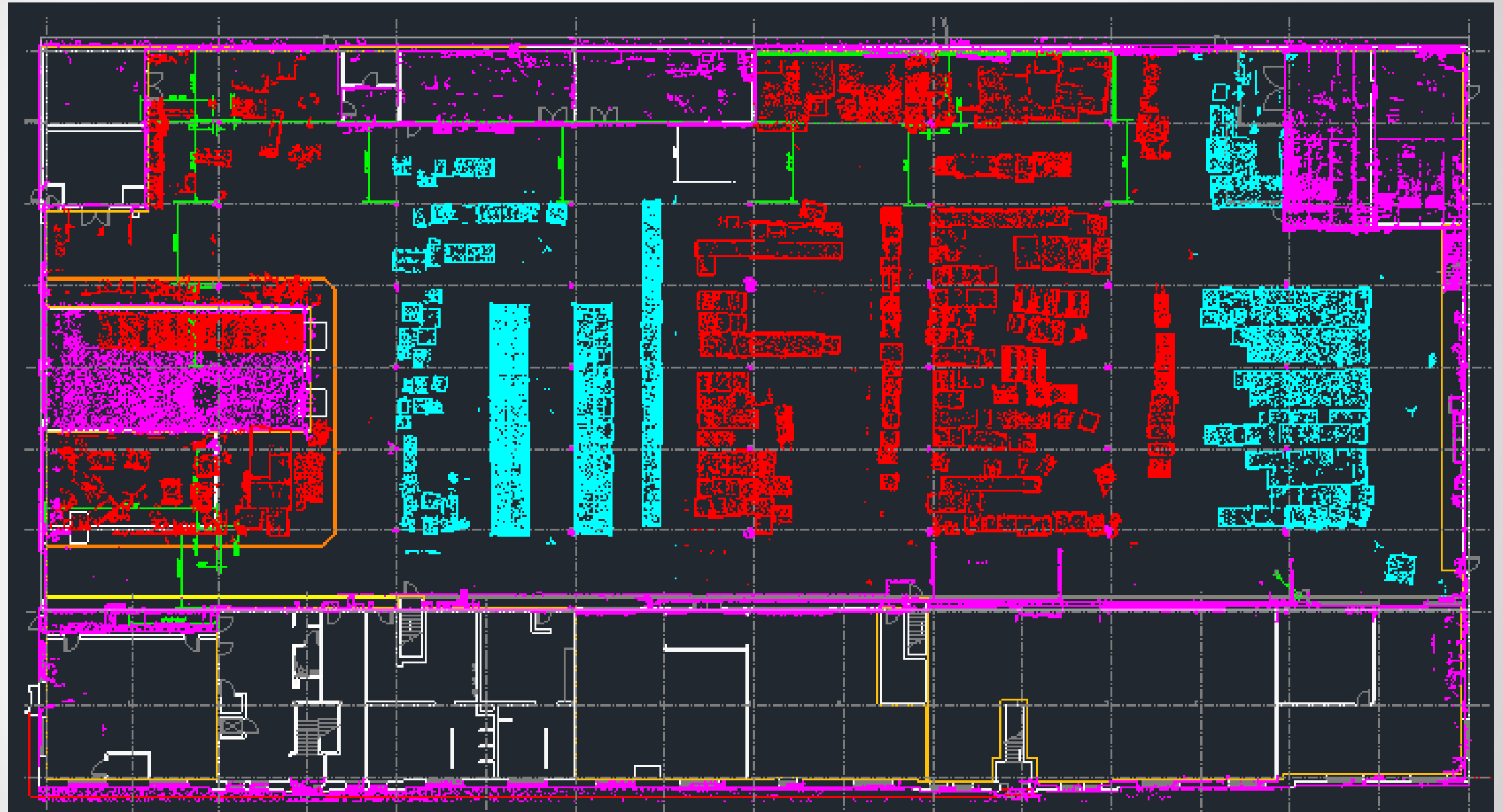
Select the Point Cloud to  
locate different viewing  
options.



# Feasibility and Proposals – 2D / 3D

Select the Point Cloud to locate different viewing options.

Open the drawing in Navisworks Visualize the data. Note: Colors do not come across, but layers do.

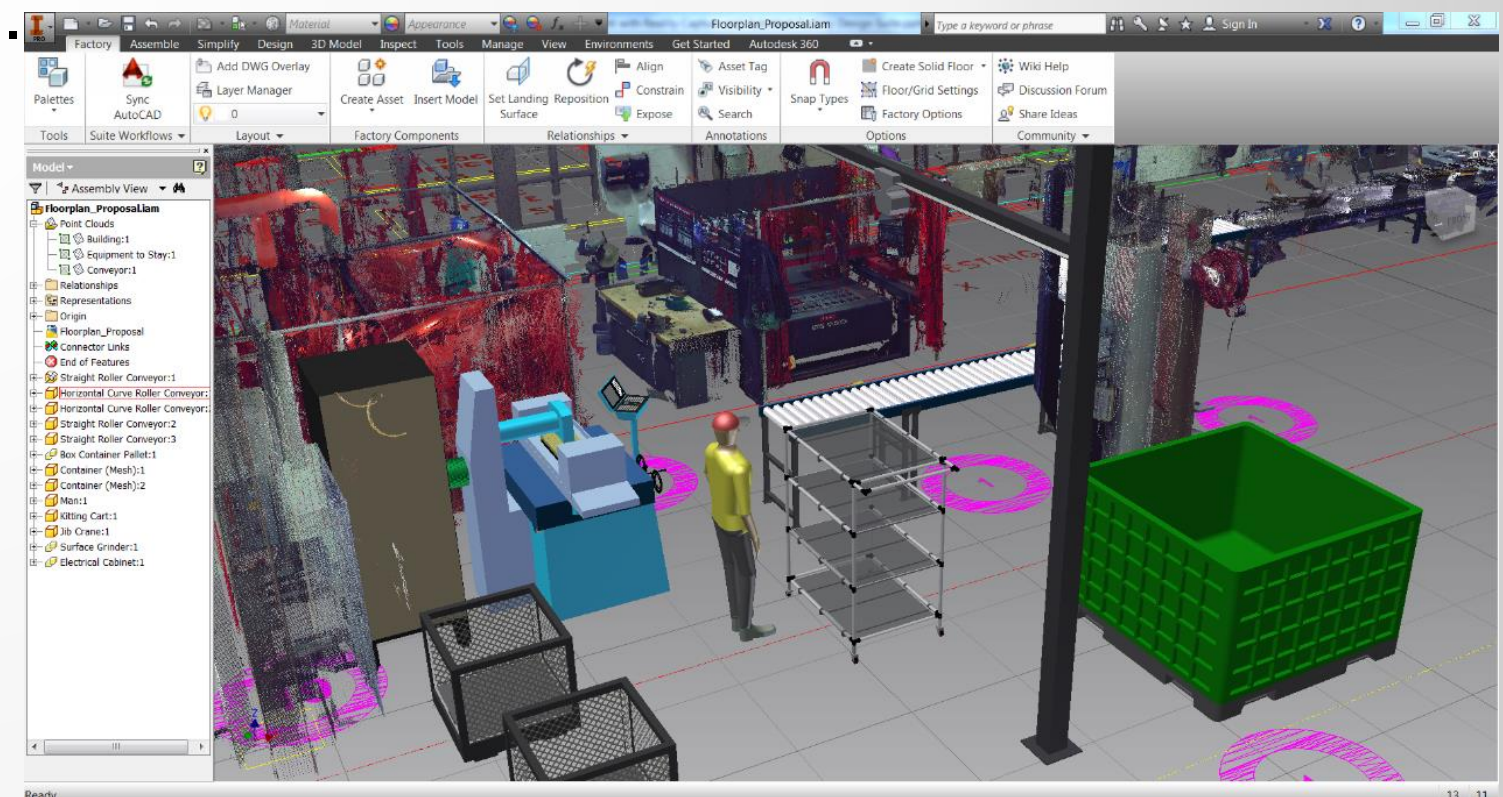




# Authoring in 3D – Cloud as CAD

- Consider ways to utilize Point Clouds as CAD elements.
- Create Point Clouds files based on CAD data.
- Convert Points Clouds to DWFs' JPG files and Xref.
  - 2D Sections
  - 2D Combine Point Cloud and CAD.
  - Email Point Cloud
  - Simple entry level capabilities
- Point Clouds as Assets
  - Only AutoCAD to Inventor
- Partial Modeling
  - Model Only New geometry.

Clarity and Quantity of Points displayed in AutoCAD 2015 are dramatically more dense than 2014



# Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2014 passes given out each day!
- Best to do it right after the session
- Instructors see results in real-time









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