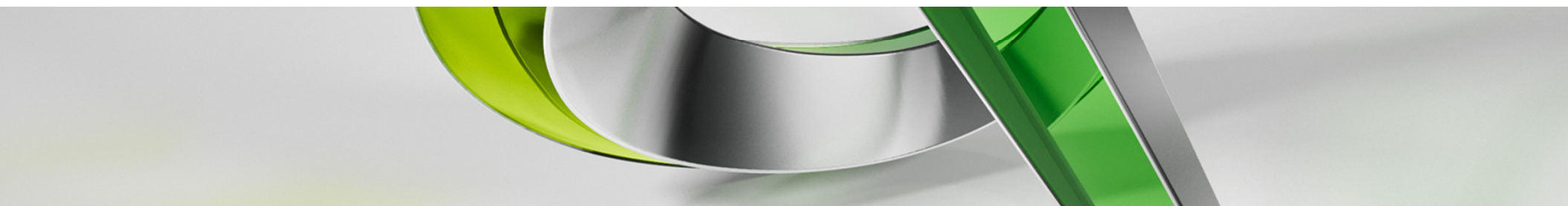


Design to Fabrication: Design, Validate, and Fabricate Anything Between Autodesk® Revit® and Inventor®

William Spier

MEP and Design to Fabrication SME

@MEPpated





Class Outline



Five Innovative Workflows (plus an intermission)!!

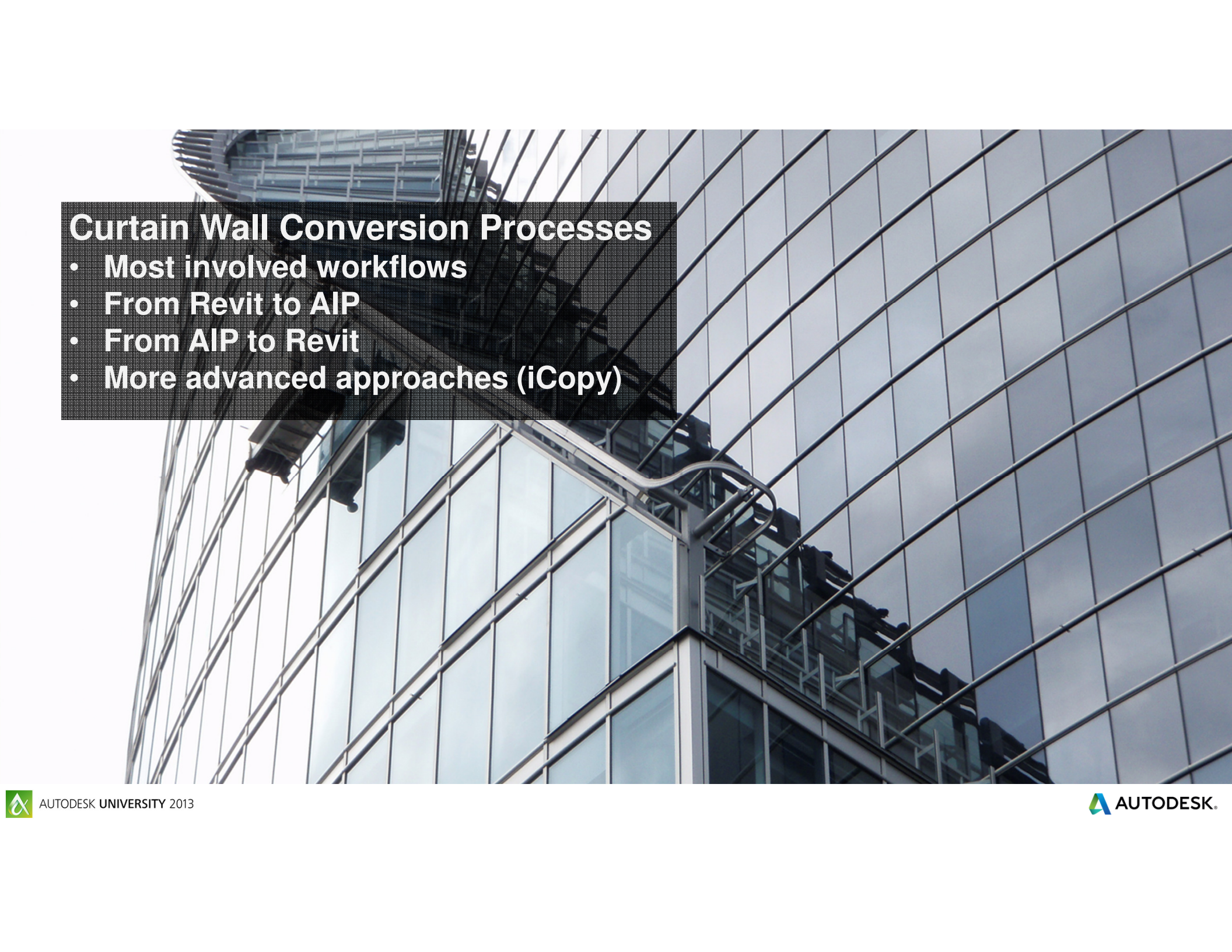
- Revit/Inventor Native Translation Functionality & Simplification
- Curtain Wall Conversion Workflows
- Concrete Formwork in AIP from Revit
- Revit ETO
 - Intermission & Prizes!! -
- CNC Fab Directly from Revit Architecture
- Piping Fishmouths & Copes



Revit/Inventor Native Translation Functionality & Simplification

- RVT into AIP
- RFA & ADSK out of AIP
- ACIS / SAT both directions
- Assembly vs. Part files
- Simplification
- Feature Recognition
- No Parametrics
- Business Value/Problem Solving Cases





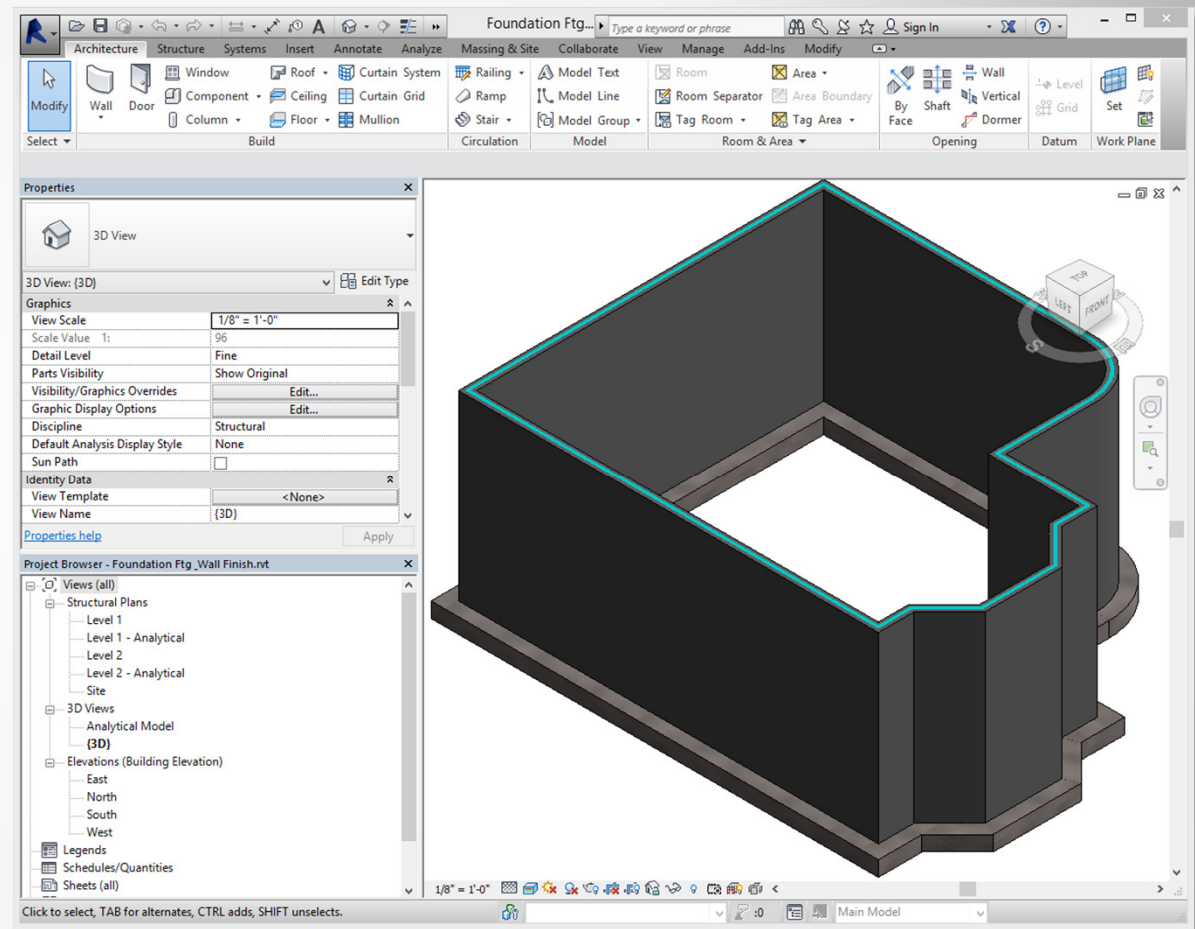
Curtain Wall Conversion Processes

- Most involved workflows
- From Revit to AIP
- From AIP to Revit
- More advanced approaches (iCopy)



Concrete Formwork in AIP from Revit

- Real World Scenario
- RVT into AIP
- ACIS / SAT both directions
- Two methods:
- AIP Sheet Metal Template Repurposed
- AIP Standard Modeling



Revit ETO

- Automation for AIP, now for Revit...
- Rules based design on steroids
- Instantaneous change & reassignment
- ETO – a taste of things to come!

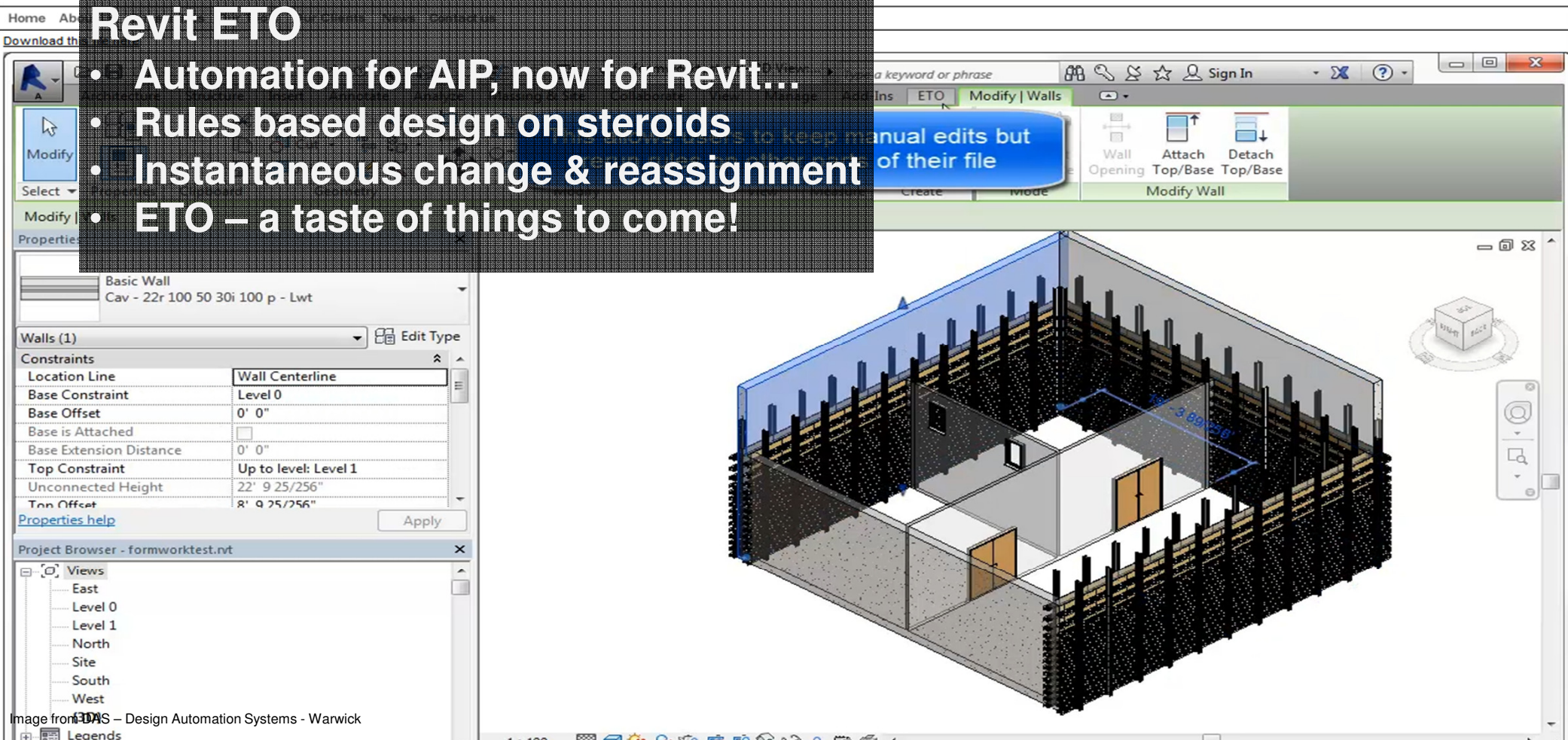


Image from DAS – Design Automation Systems - Warwick

Half time festivities: Trivia & Prizes!!

CNC Fab Directly from Revit Architecture

- RVT direct to CNC (via DXF)
- BIM for Subcontractors
- Field fab becomes field install
- Prefabricated = Pre-coordinated
- Accelerated Workflow
- Less materials
- Track stock in Revit
- Autodesk BIM 360 Field



Piping Fishmouths & Copes

- Repurposing AIP's Sheet Metal environment
- Lateral fishmouths for piping subs
- End fishmouths (copes) for piping subs and for Round Structural Column end cuts
- Reuseable AIP file for plotting overlay cut patterns

