AEI Conference 2017

Transform Your Design Construct Process
Crossing the Divide from CAD to Revit to BIM

HingePoint

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Themes emerging from AEI Conference 2017

How can we be more resilient?

Collaboration

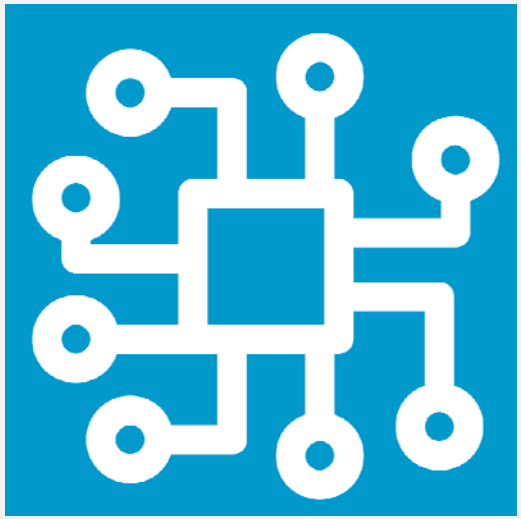
Communication

Better Planning

Oversimplified Workflow Identifies Busy Work

Are you doing the work of a device, system, or human?

Devices
Collect Data



Systems
Transform Information

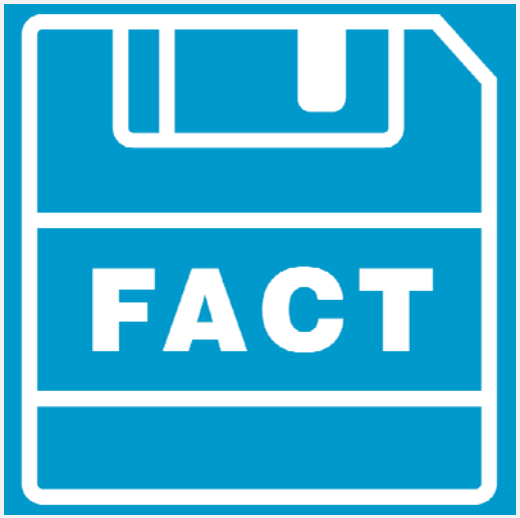
Humans
Make Decisions

What is the digital divide in the AEC Industry?

It’s not a connection issue, but an adoption issue.

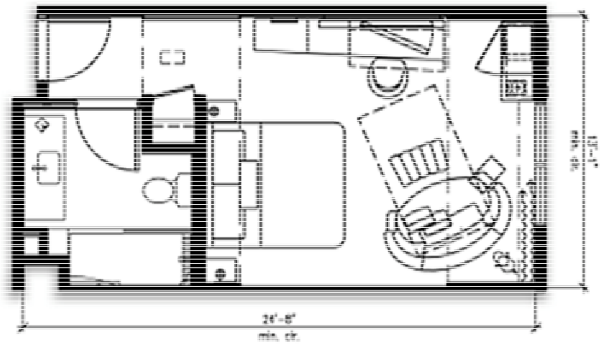
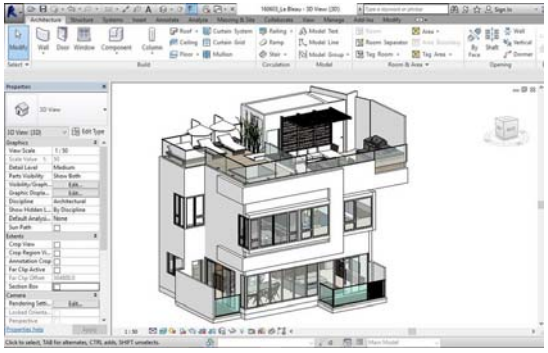
Not Connections

Adoption

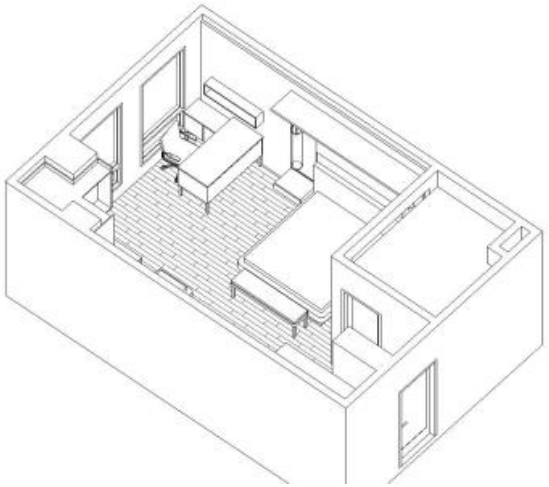


About AEC’s Divide

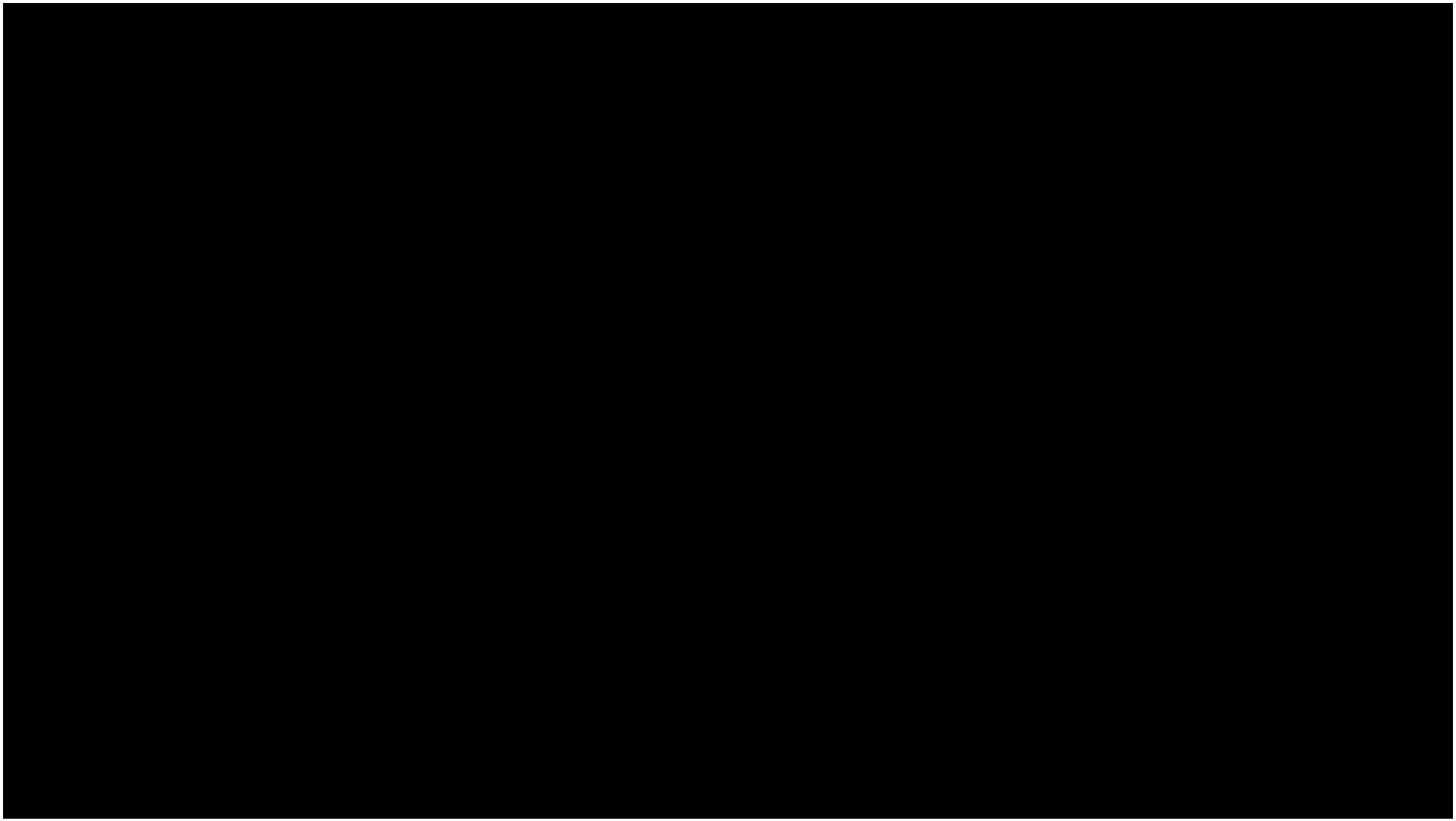
Data Format is Foundation of BIM

Desktop CAD	Desktop Revit	BIM
		

Data Format is Foundation of BIM

2D	Desktop Revit	BIM
		

Data Scales, Documents Don’t



Comparison of BIM Stages

The differences in CAD, Revit and BIM

HingePoint

BIM Characteristics	Desktop CAD	Desktop Revit	Building Information Modeling
Format of Your Data	Vector and 2D Drawings	3 Dimensional parametric models	3D models with subsystems
Automate Tasks - Steps to perform work across design & engineering roles	Manual	Semi-automated	Fully Automated
Integration - Combine systems/software to exchange data	Minimal	Cloud, Mobile	Few Limitations
Collaboration - How internal & external teams work together	Minimal	Many Possibilities	Limitless
Paper - Procedures are dependent on paper	Paper required for Inputs and Outputs	Digital & Print on Demand	Fully Digital

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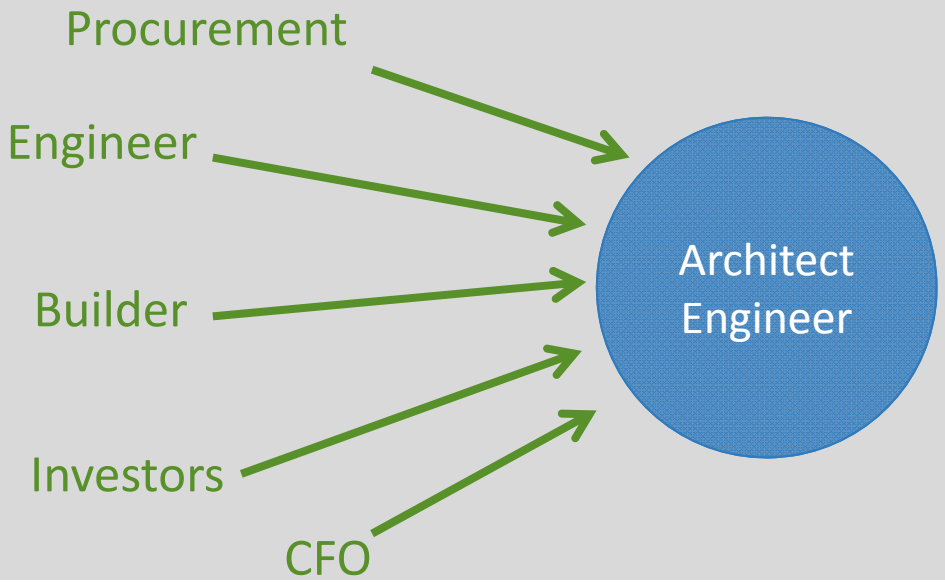
Busy Work Consumes AEC Industry

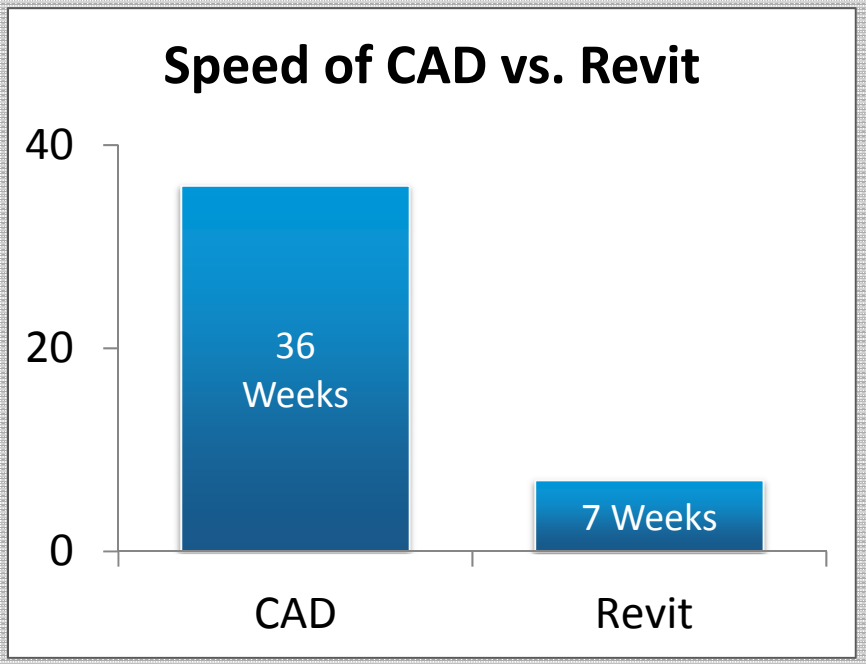
Architects and Engineers can't just design, they must:

- Create Take Offs
- Drawing Packages
- Coordinate issues and get client's approval



Compare Speed of CAD to Revit drawings

- **Old School**
  - 9 plus months, and drawings weren't even accurate for construction.
  - Didn't even have a grid!
  - No renderings, no seeing how things work
- **New School**
  - Revit – July 17th, drawings submitted Sept 9th – 7 weeks, Arch, Structural, MEP, Civil partial
  - All reviews
  - revisions
  - 3D BIM and 100 sheet package, clash detection, issues resolution.



Format of data determines how you will work