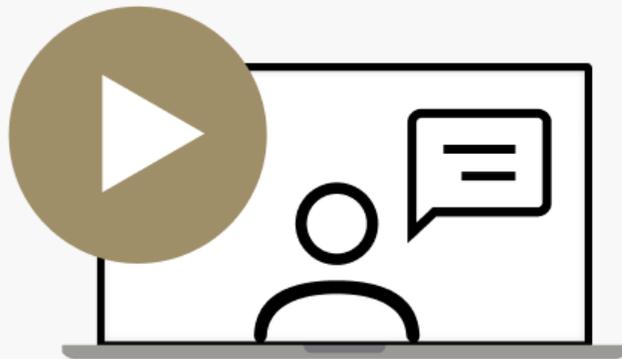


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LEVEL 3
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Expert
following ISO 19650

LESSON 5 : ISO 19650 Success

Collaborative Production of Information



*Collaborative
Production
Foundations*

Agenda

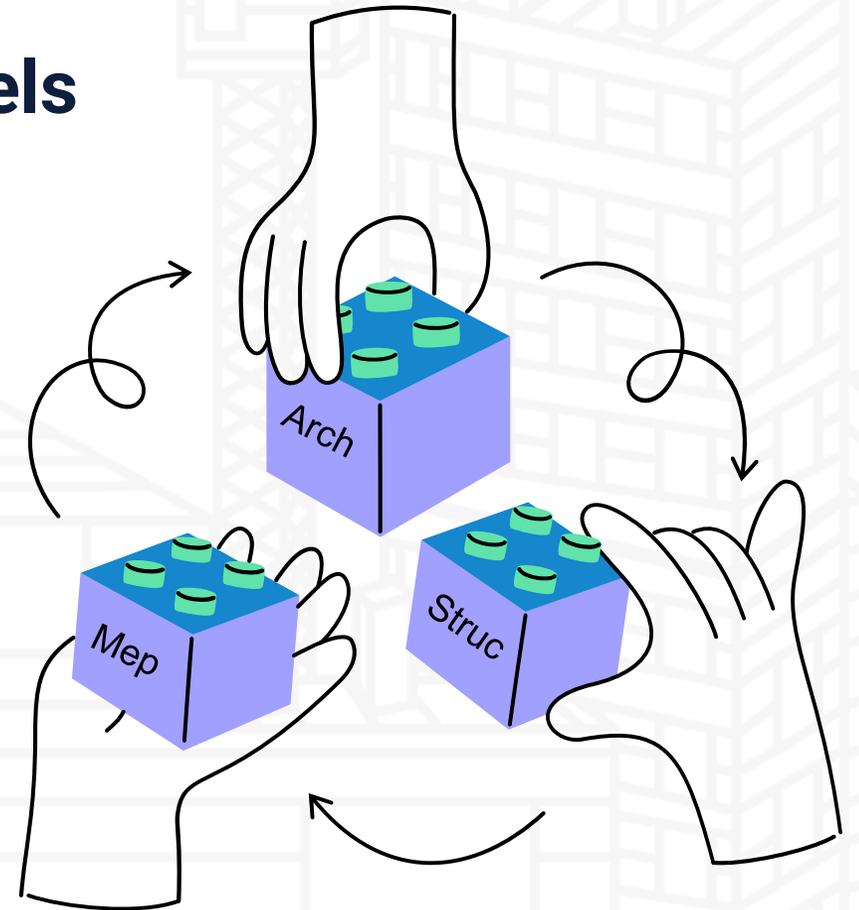
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- Federation strategy
- Clash detection vs Clash avoidance
- File naming convention

Federation Strategy

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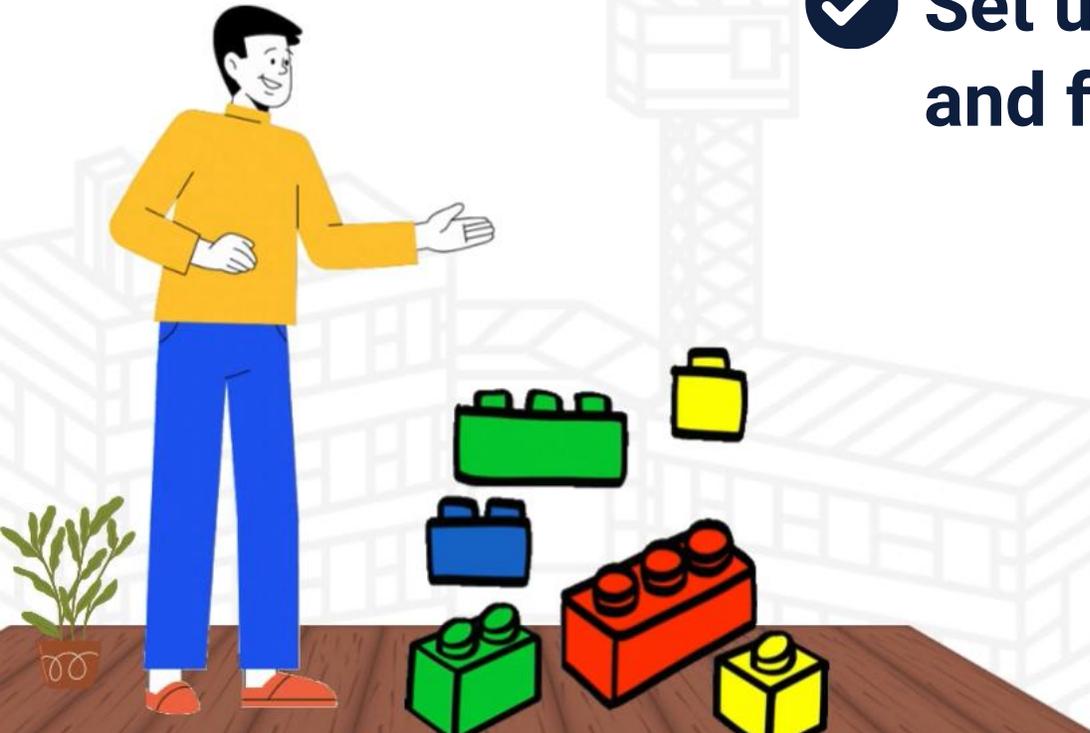
- 🎯 Breaks down projects into manageable parts
- 🎯 Ensures stability and security of models
- 🎯 Streamlines delivery of the LOIN



Implementation Steps

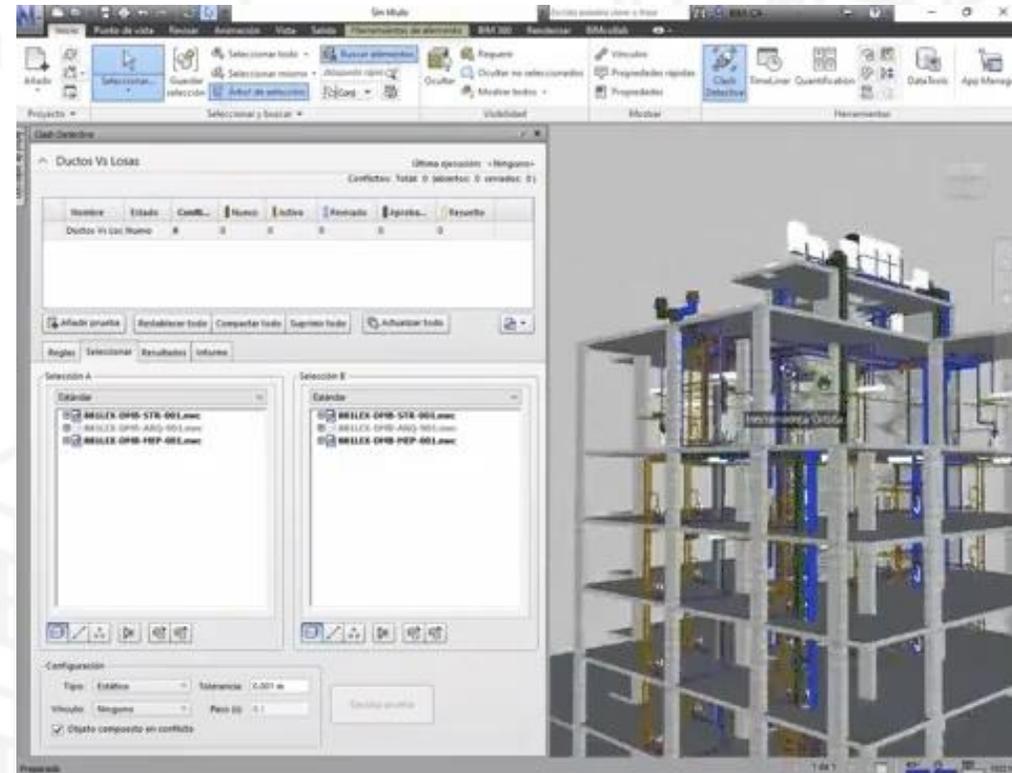
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- ✓ Establish a container breakdown structure
- ✓ Host discipline-specific models in the CDE
- ✓ Set up boundaries, clash detection processes, and federated model quality checks



Clash Detection Challenges Unveiled

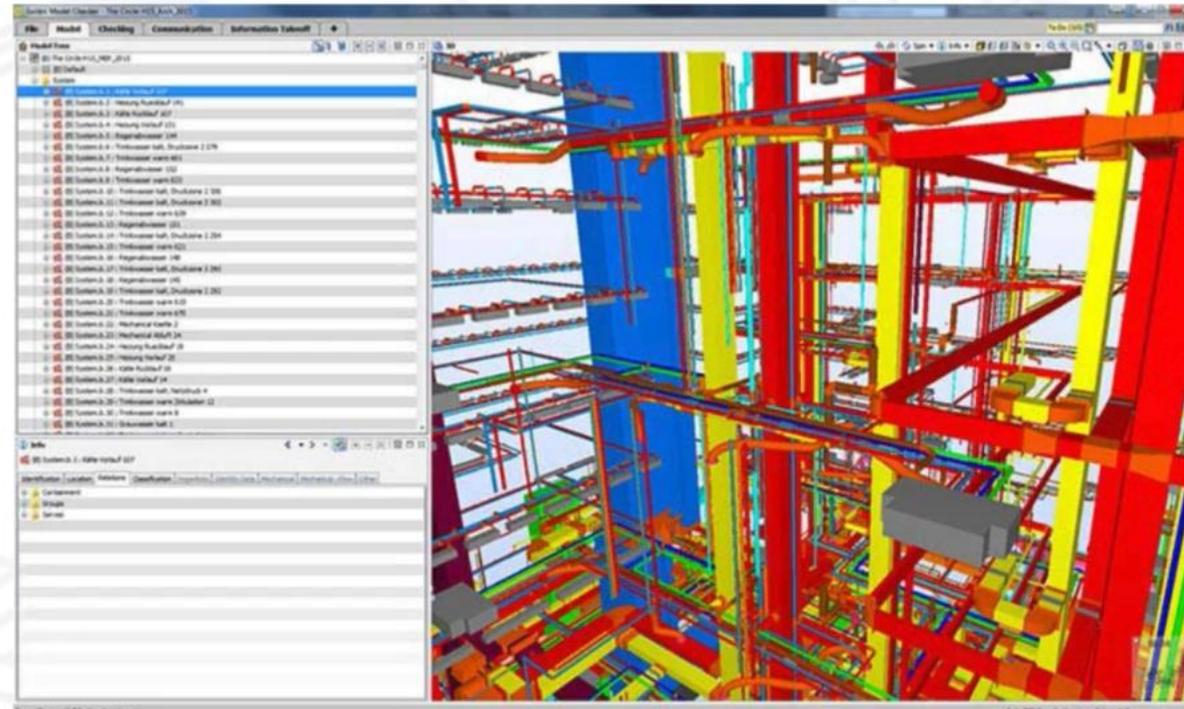
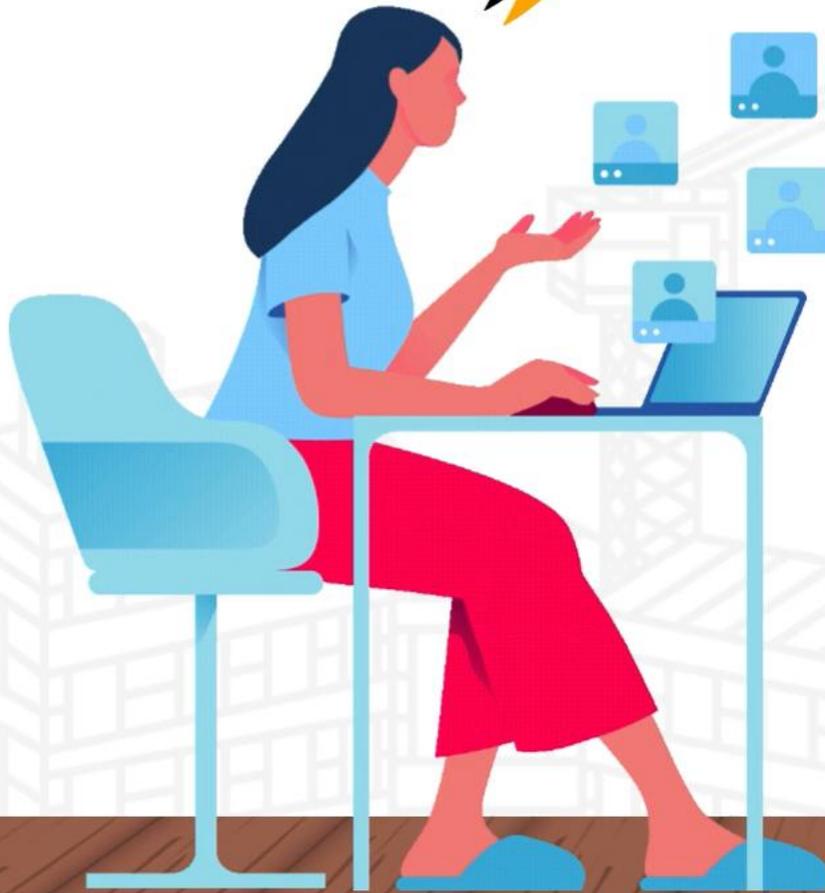
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Coordination Meeting 1

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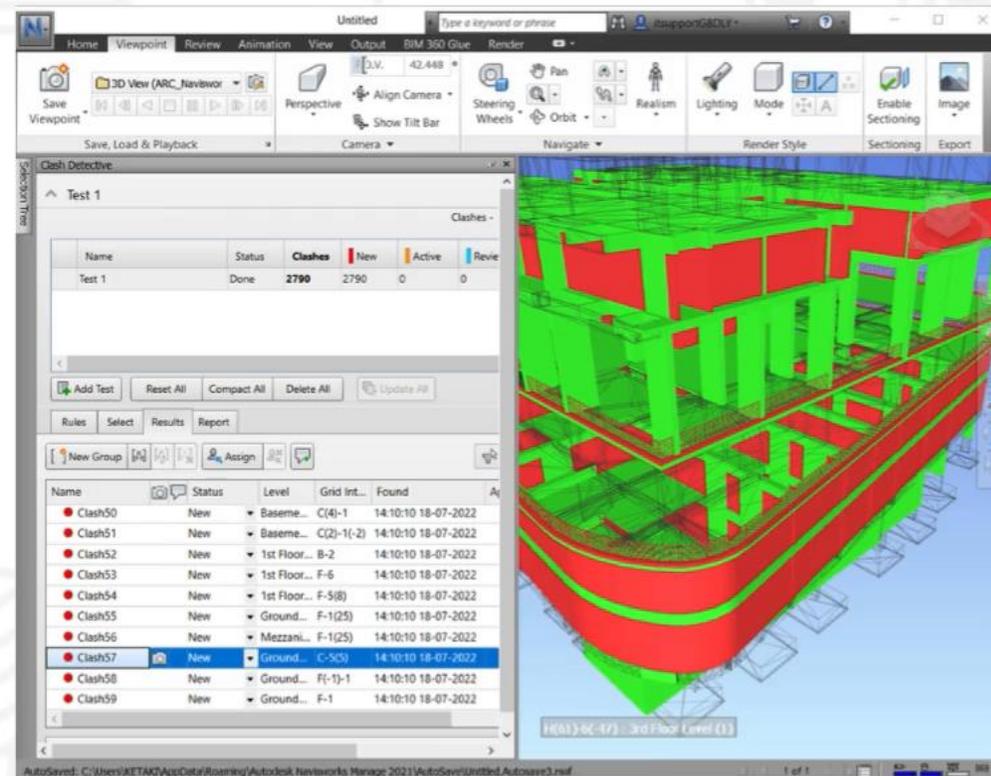
3000 Unresolved Clashes



Coordination Meeting 2

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3210 Unresolved Clashes



Root Cause

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- ✘ Two objects occupy the same space
- ✘ Models uploaded at the same time
- ✘ Traditional phase-based approach
- ✘ Large batches of work

What is Clash Avoidance

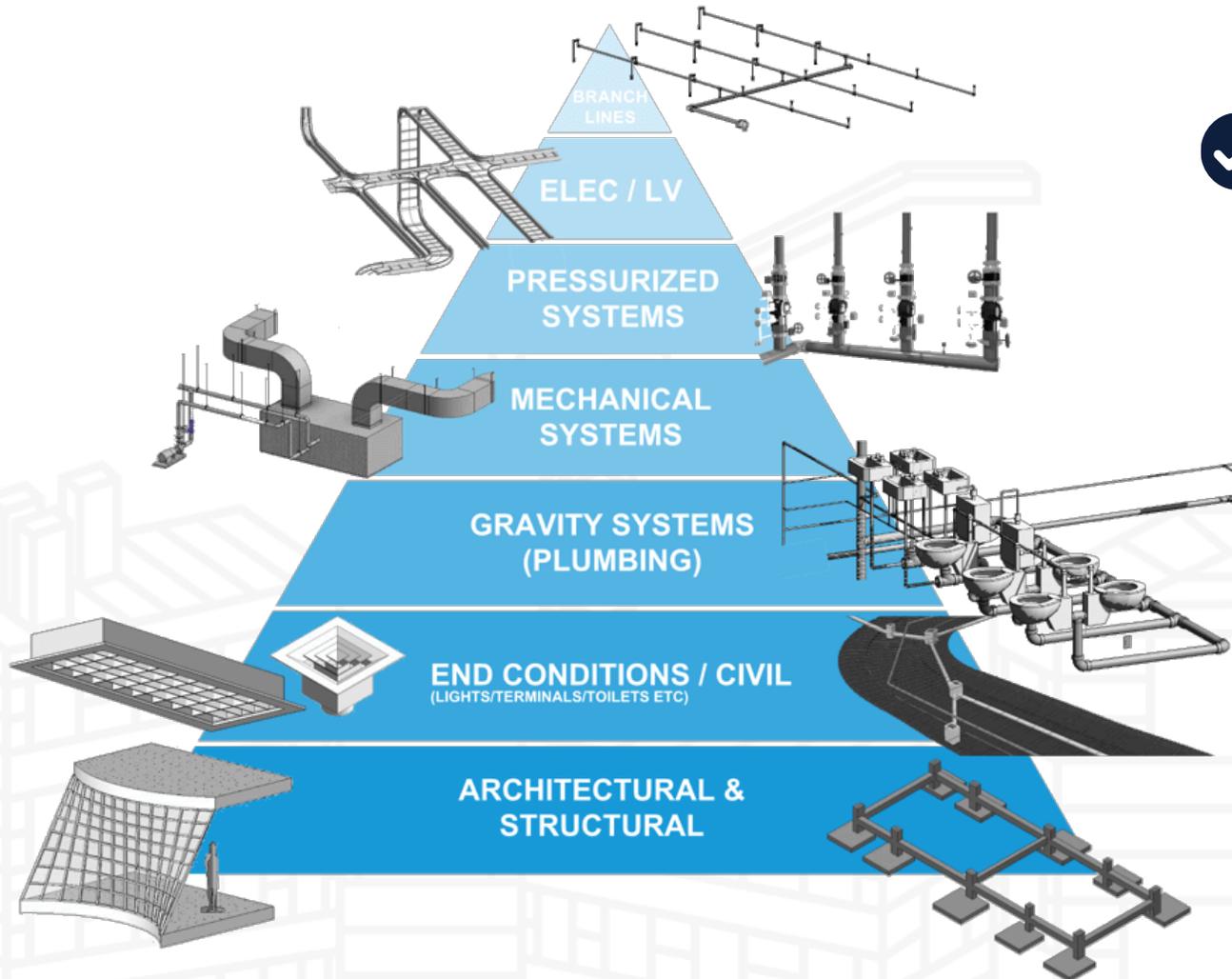
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Clash avoidance uses **proactive techniques** to prevent conflicts in BIM models before they happen



System Priority Structure

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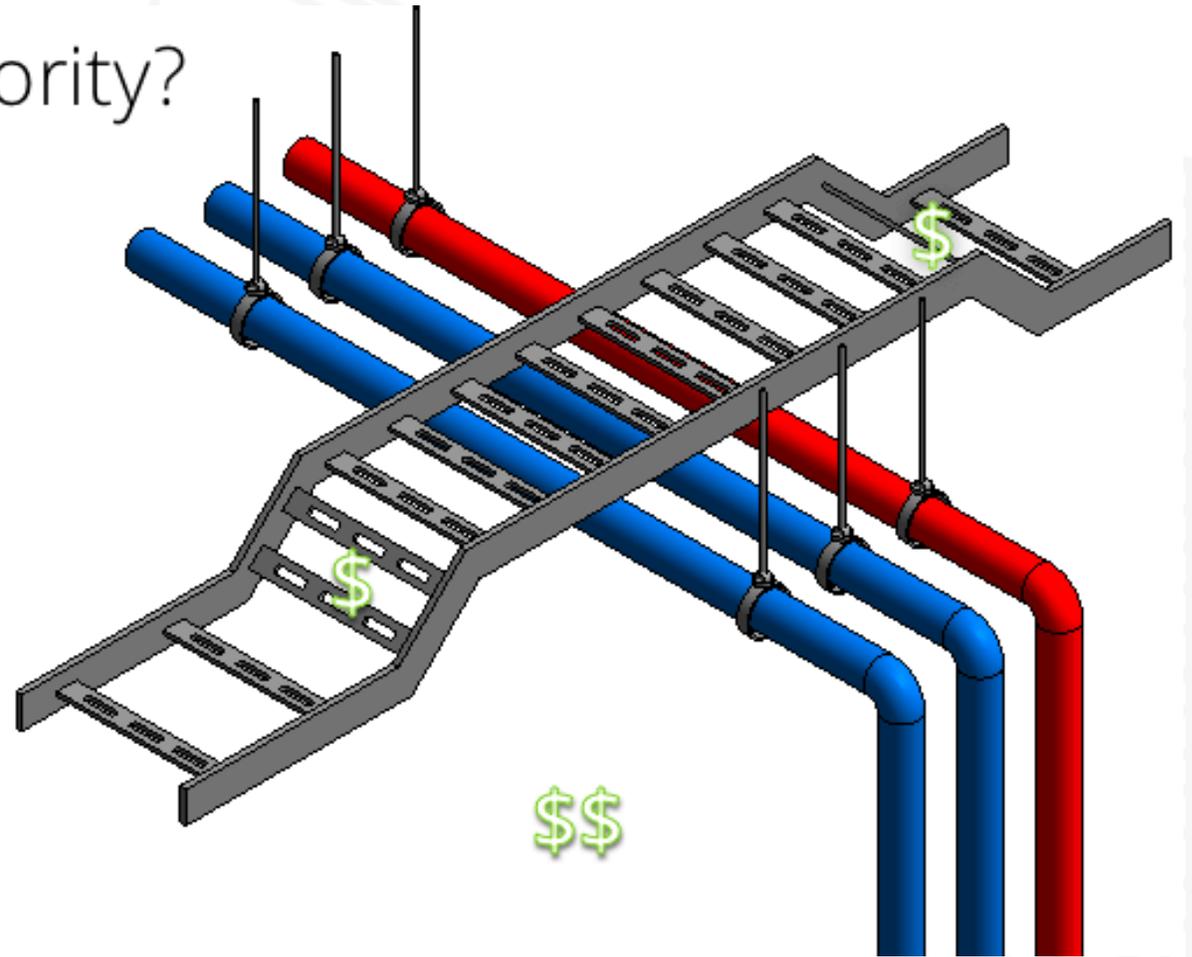
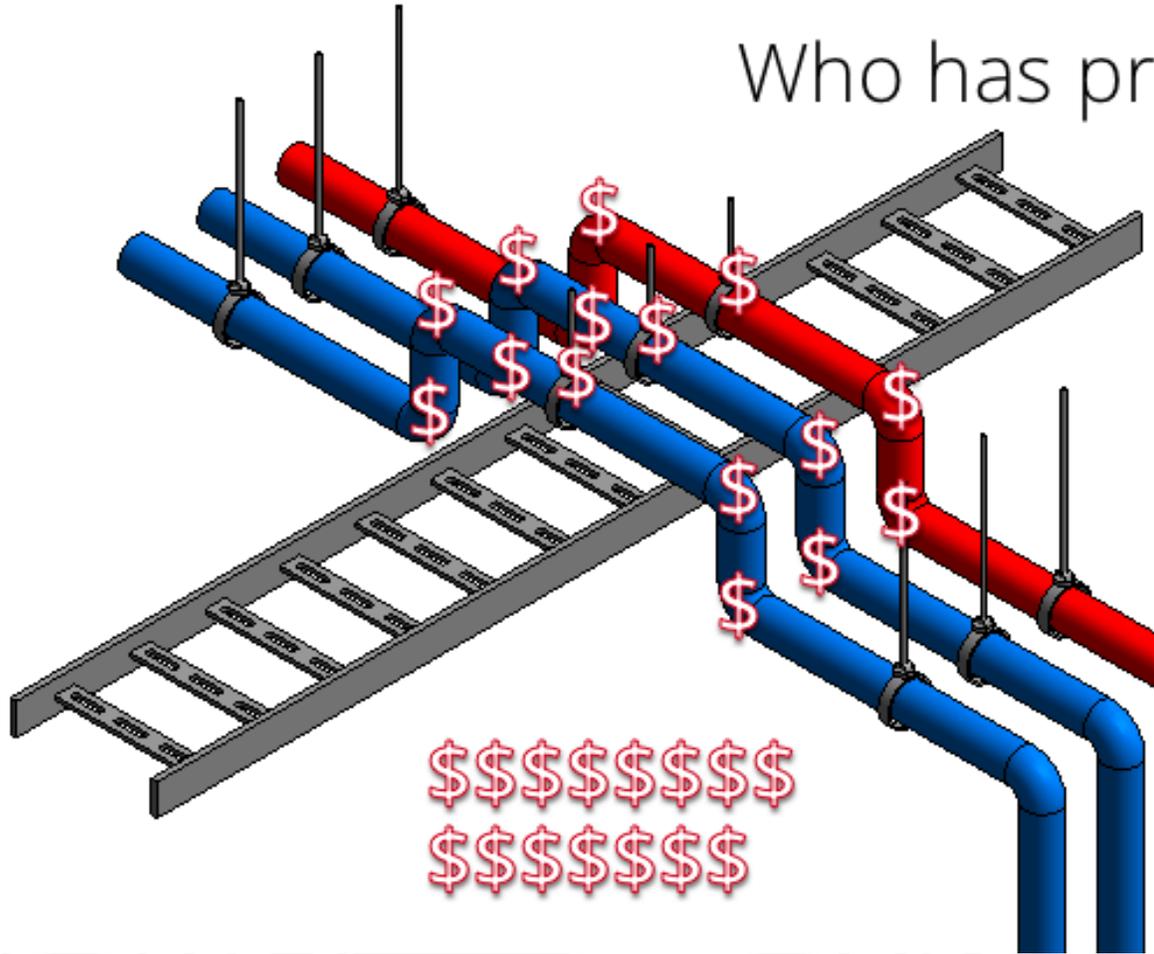


- ✓ Install priority elements first
- ✓ Following the right order
- ✓ Coordination across trades

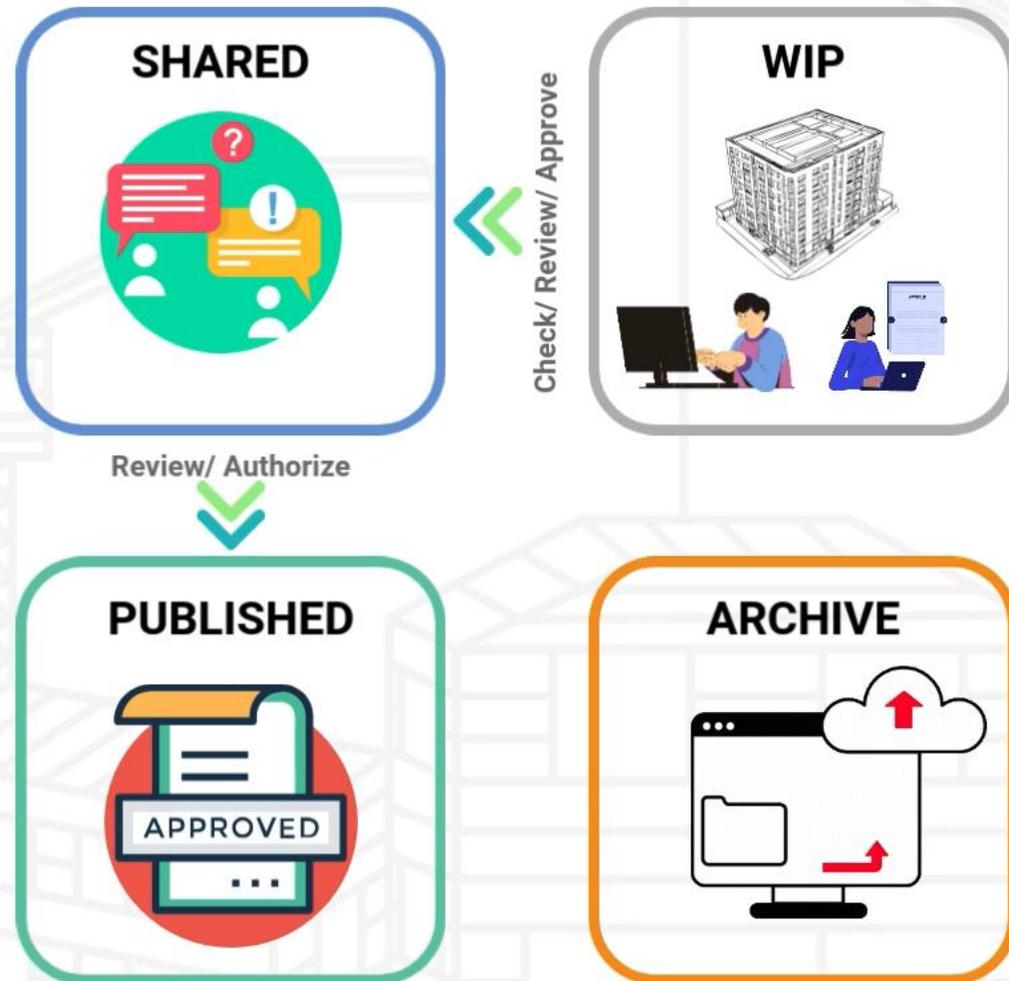
Example

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Who has priority?



Common Data Environment (CDE) Workflow

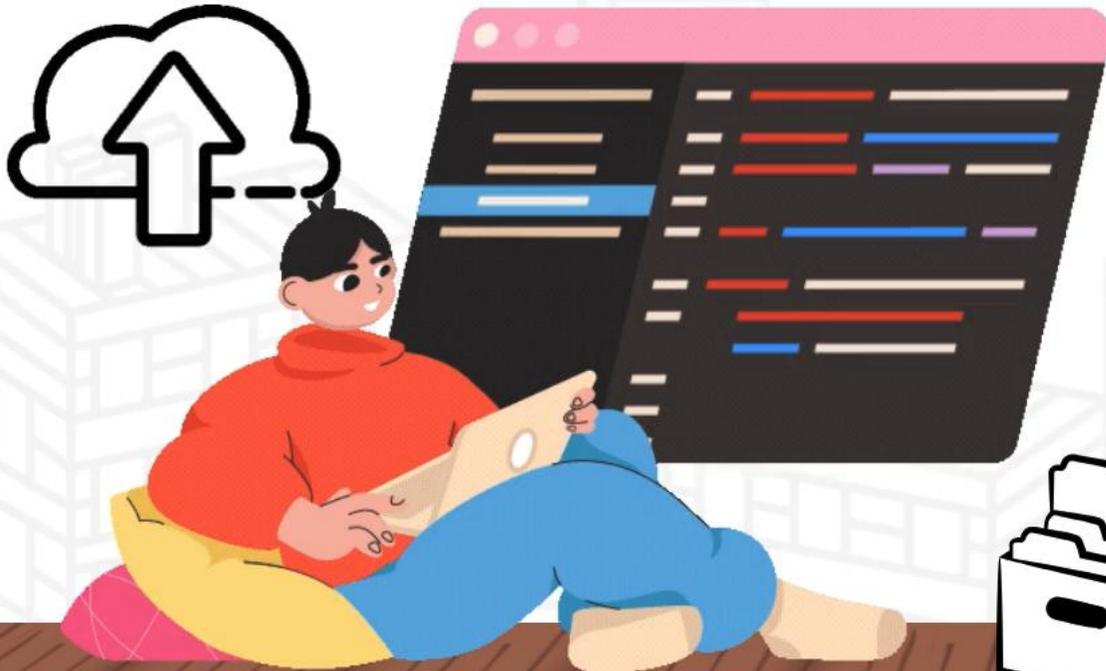


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File Naming Convention

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- 🎯 **Unique Identification**
- 🎯 **Helps track revisions systematically**
- 🎯 **Enables quick filtering and locating of files in CDE**



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