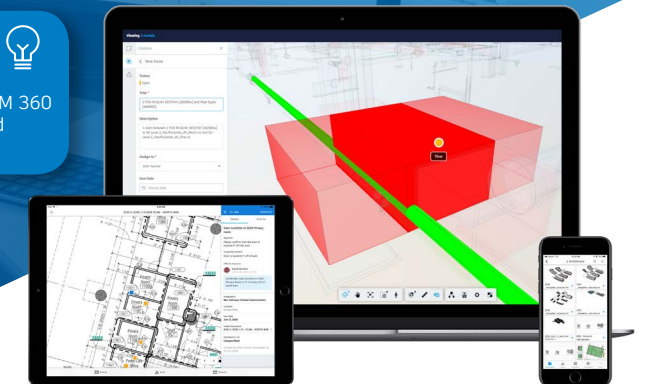


CLOUD-CONNECTED BIM COORDINATION

Accelerate Workflows. Increase Transparency. Improve Accountability.

BIM 360 improves model quality and minimizes unnecessary rework by putting 3D model coordination into the hands of the whole project team. All stakeholders can instantly visualize the impact of model changes on the overall project. And with automated clash detection and clash resolution in shared multi-model coordination spaces, teams can identify and assign coordination issues to solve constructability problems earlier.

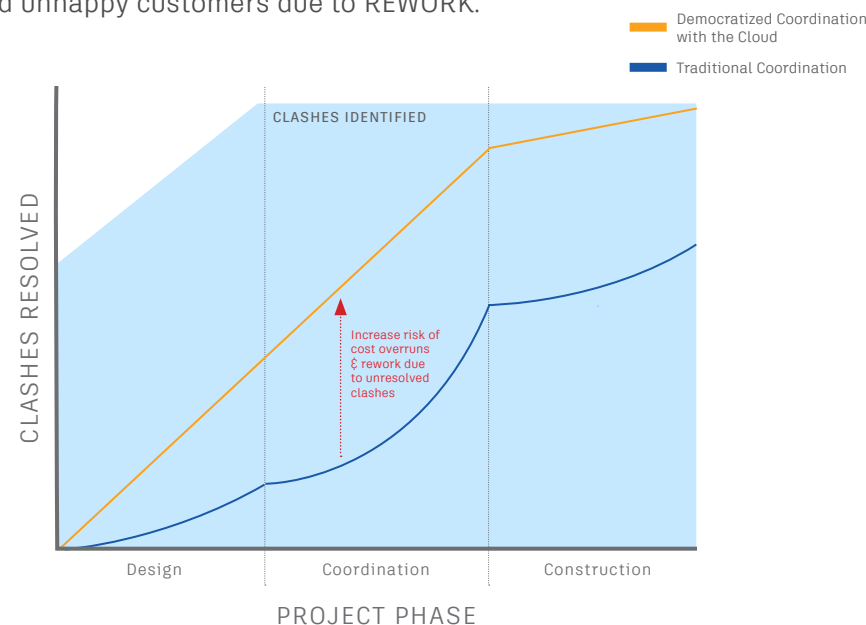
BIM 360 Coordination Workflow Guide
Click to view suggested BIM 360 workflows, capabilities, and step-by-step guides.



COST OF CLASHING

In most commercial construction projects, there are thousands of clashes identified during the coordination process. But with the reliance on a single individual to manage the resolution process, efforts are only focused on resolving significant problems between certain sets of priority objects. This only accounts for a small percentage of the overall issues identified, leaving a massive number of unresolved “small” issues to build-up and make their way onto the construction site.

What does this mean? Increased risk of budget overruns, schedule delays, and unhappy customers due to REWORK.



5 BENEFITS OF CLOUD-BASED COORDINATION

- 1. Lowering the barrier of entry.** Giving all stakeholders access to the federated models and involving them in the coordination process earlier keeps the entire project team in sync and generates more constructible models.
- 2. Removing information silos.** BIM 360 enables teams to centralize their project data with access anytime, anywhere. Clash data is no longer buried in reports or stored on one power-users machine – increasing efficiency, improving quality, and reducing risk.
- 3. Automated clash detection.** Clash detection no longer needs to be a linear process reliant on manual steps from the VDC/BIM Manager. When models are published/updated in BIM 360, clash detection runs automatically.
- 4. Removing noise (when a clash isn't a clash).** BIM 360's 'not an issue' workflow enables users to classify clashes where they may be false positives. By grouping large numbers of clashes using BIM data, teams can quickly review and closeout more issues helping them focus their attention on the issues requiring action.
- 5. Transparency in the clash resolution process.** Efficiency increases while workload minimizes by being able to treat multiple clashes as a single issue. With an issue or clash group assigned, team members are notified and can view details, respond with comments, include attachment, and update the issue status. The model changes can then be reviewed, and the issue closed out when the clash is resolved.

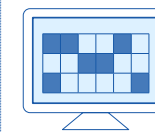
KEY CAPABILITIES OF BIM 360 COORDINATE



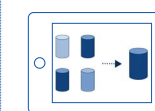
3D Model Access & Navigation: Access models online or offline, including RVT, DWG and IFC formats. Easily pan, zoom, and orbit models using gravity assisted walk through navigation or make calculations using point-to-point tools.



Automatic Clash Detection: When models are published or updated clash detection runs automatically providing teams with quick visibility into the impact of changes.



Clash Matrix: View clashes across all published models in a coordination space and drill into clashing objects. Heat maps identify areas with the most clashes to prioritize efforts.



Model Aggregation: Automation of multi-discipline model aggregation. Take advantage of project standards for spatial breakdown to easily review coordination issues.



Issue Management: Assign coordination issues with details including type, location, and due date to speed up clash resolution, increase accountability, and resolution tracking. Or mark clashing objects as 'not an issue' to remove noise.



Saved Views: Save short-cuts to predefined filters on a coordination space for personal reference or wider access to a subset of clashes, actionable issues, or to help iterate the models towards sign-off.



2D & 3D Compare: Better understand incoming design changes with advanced change visualization features on 2D plans or individual 3D models.

“ We're seeing an interesting democratization of the tool. Rather than needing an expert in Navisworks or Revit, anyone can look and use BIM 360 Model.”

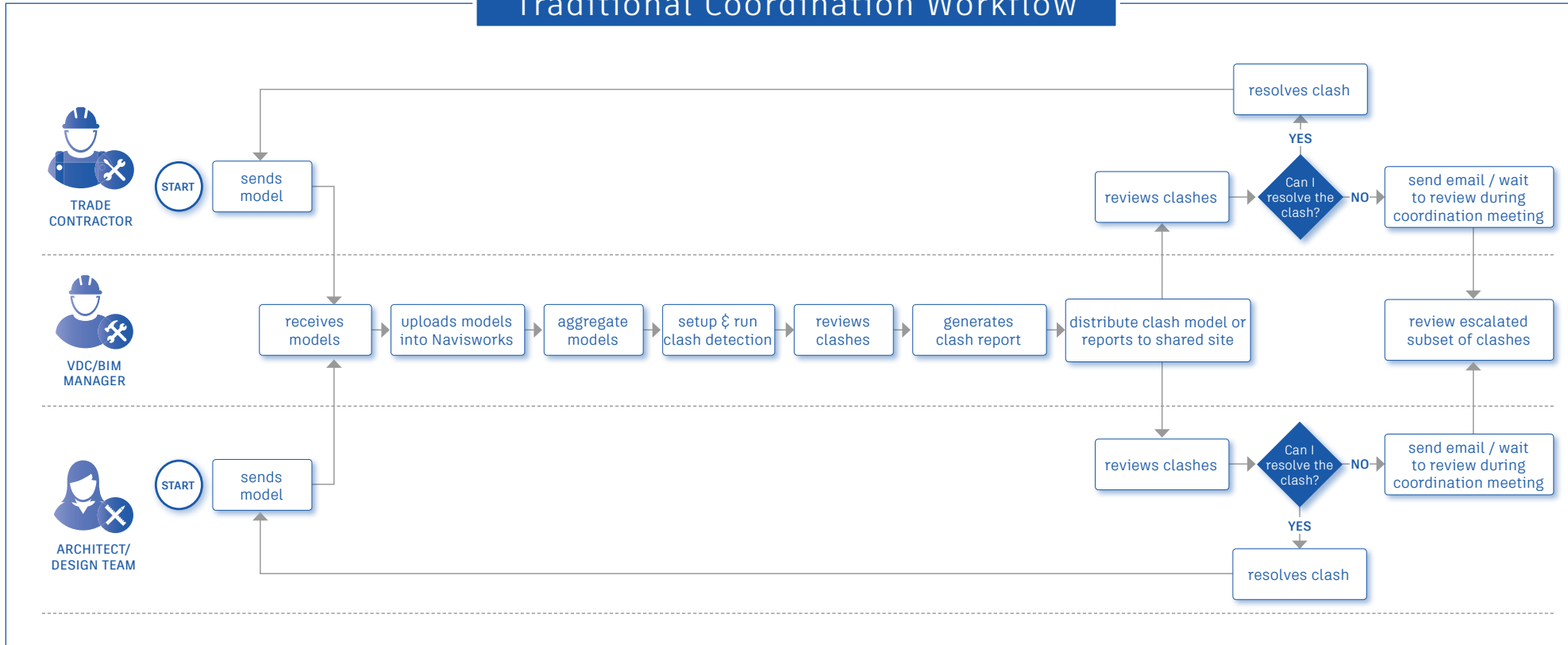
– DENNIS MCNEAL, BIM MANAGER, AECOM

“ With BIM 360, we don't have to wait for weekly coordination meetings anymore. Clash detection and coordination happens in real-time.”

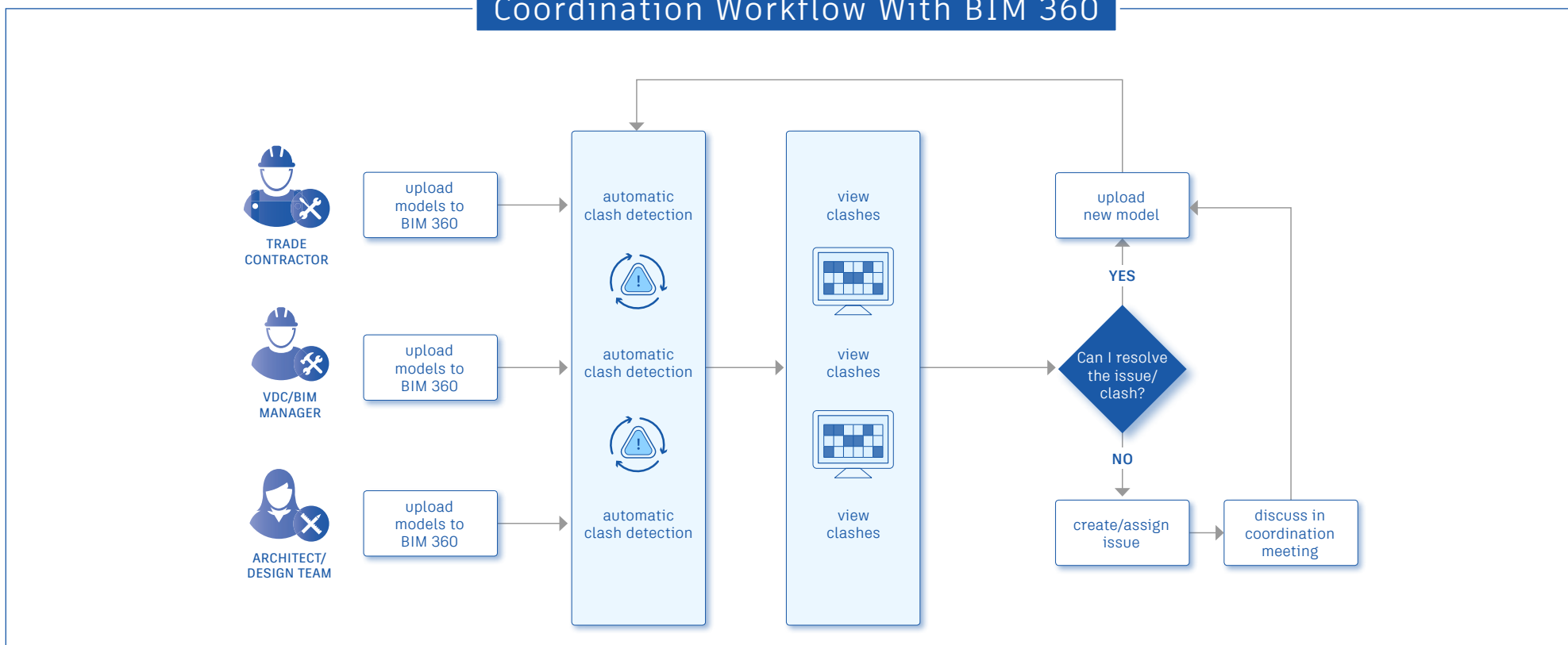
– CHRIS WEAVER, DIRECTOR OF TECHNOLOGY, ANDY J. EGAN

FASTER CLASH DETECTION & RESOLUTION

Traditional Coordination Workflow



Coordination Workflow With BIM 360



BENEFITS OF BIM 360 COORDINATE FOR THE PROJECT TEAM



PROJECT MANAGEMENT

- Easy access to project-specific data
- Quickly identify major issues & trends early to resolve proactively
- Reduce duplication of effort, administration & tasks



DESIGNERS & TRADES

- Work together efficiently with all project stakeholders
- Gain insights on decisions taken & correct whenever necessary
- Improve model quality and reduce design rework



VDC/BIM TEAMS

- Minimize administration burden & push coordination responsibility to design & trade teams
- Identify changes, non-issues & group problems
- Simplify the distribution & management of clash issues



CONSTRUCTION TEAM

- Reduce the likelihood of rework stemming from poor design quality or missing information
- Track the full history of any issues that reach the field
- Identify issues & changes that may affect construction