



# Productivity and profit for mechanical & HVAC contractors

## TOP 5 BIM BENEFITS





# Big benefits. No regrets.

Transitioning from CAD to integrated BIM workflows can feel like a big change, but it's more than worth the effort.

That's what we learned from a comprehensive study conducted among mechanical and HVAC contractors in the U.S. by the researchers at Dodge Data & Analytics. Their report, "The Business Value of BIM for Mechanical and HVAC Construction," found that BIM resulted in greater precision, fewer mistakes, and collaboration at every step of the project.

Contractors who've made the leap would never go back.

**Here are their TOP FIVE reasons.**

Dodge Data & Analytics surveyed four types of mechanical and HVAC contractors:

- Sheet metal/ducting
- Mechanical piping
- Plumbing
- Multi-trade



# 05 Collaborate like a partner

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No one likes doing the same job twice, but when project teams aren't communicating early and often, mistakes are bound to happen. BIM workflows allow you to be a true partner in all of the assumptions and decisions for faster projects, less re-engineering, and happier teams.

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**You don't really have a choice in adopting BIM if you want to collaborate with other team members.**

—Joshua Getz, Southland, Senior Director  
AEC Technologies



**Time to review**  
**Time to deliver**



**Team morale**  
**End results**



# 04 **Reduce confusion**

Contractors are managing an ever-growing list of building components jostling to fit into tighter and tighter spaces on increasingly complex projects. BIM-enabled teams can quickly resolve questions and clarify job details without the slowdowns that come from RFIs.



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**Construction documents continue to get worse, and that’s impacting mechanical contractors greatly...BIM improves communication with the team onsite and helps get them ahead of potential change orders.**

—Josh Bone, National Electrical Contractors Association,  
Director of Industry Innovation



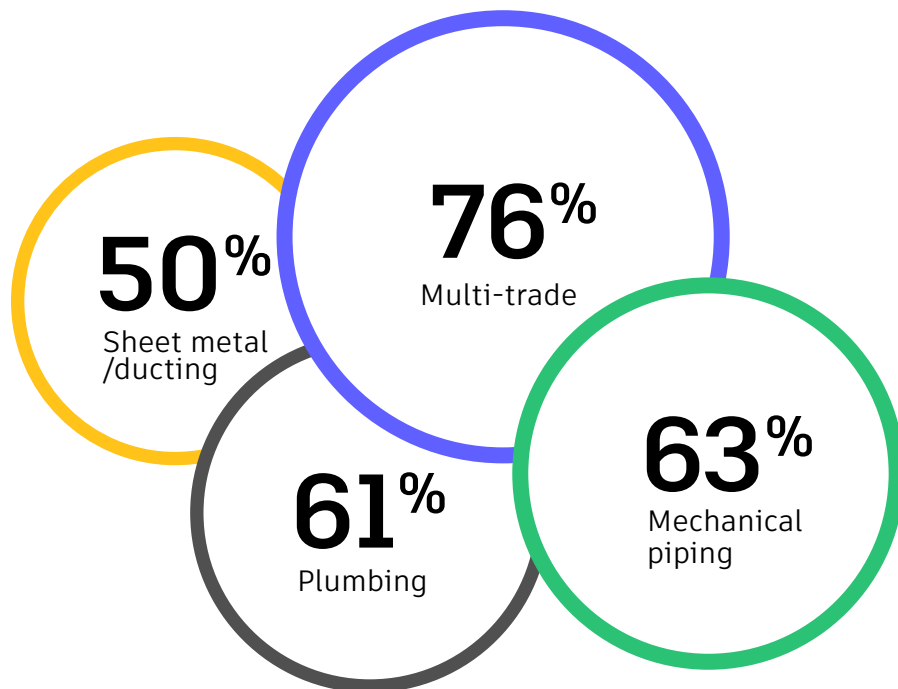


# 03 Supercharge productivity

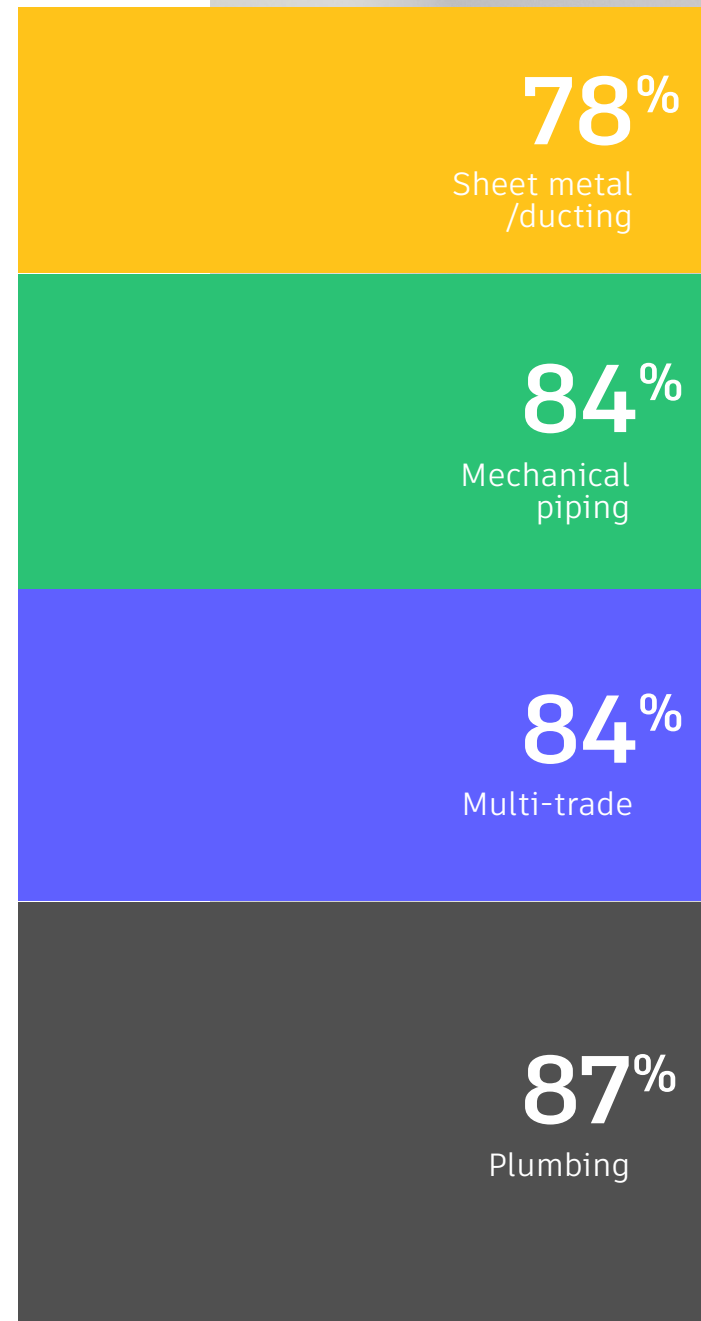
The improved communication and exceptional accuracy from BIM workflows allow for detailed, precise shop drawings and improved productivity across project lifecycles.

## Leading firms are experiencing better productivity by using BIM.

Percentage of BIM users reporting improved labor productivity



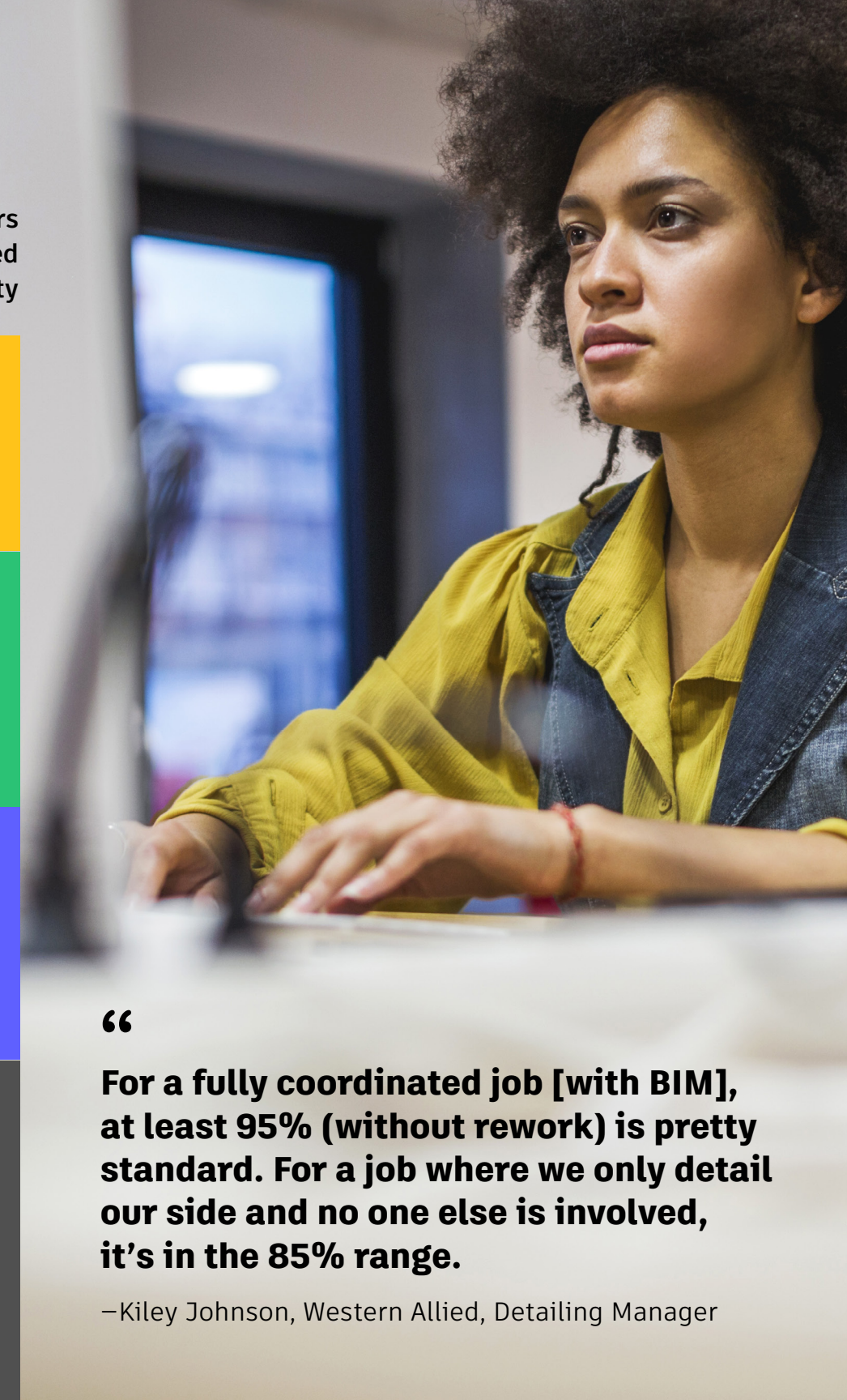
Percentage of BIM users reporting improved layout productivity



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**For a fully coordinated job [with BIM], at least 95% (without rework) is pretty standard. For a job where we only detail our side and no one else is involved, it's in the 85% range.**

–Kiley Johnson, Western Allied, Detailing Manager



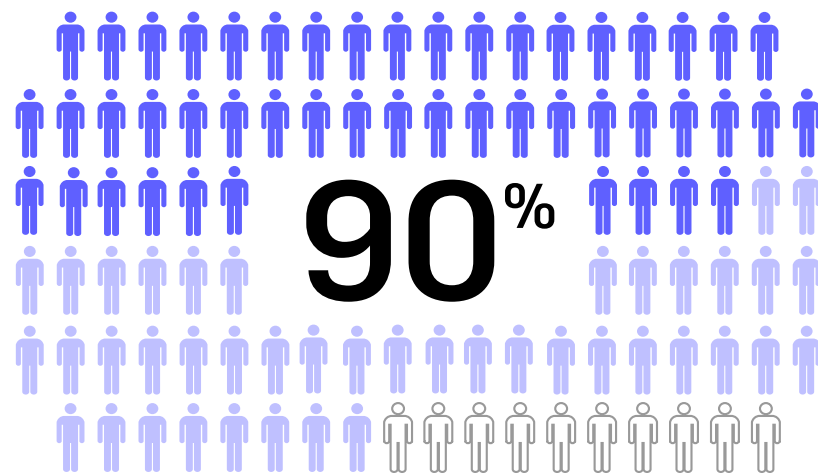


# 02 Reduce waste. Increase profit.

In a tight market with razor-thin profit margins, waste can be a project killer. That's why contractors are embracing the power of BIM-enabled prefabrication to reduce waste and streamline workflows.

## Top firms are wasting less material by using BIM to prefabricate.

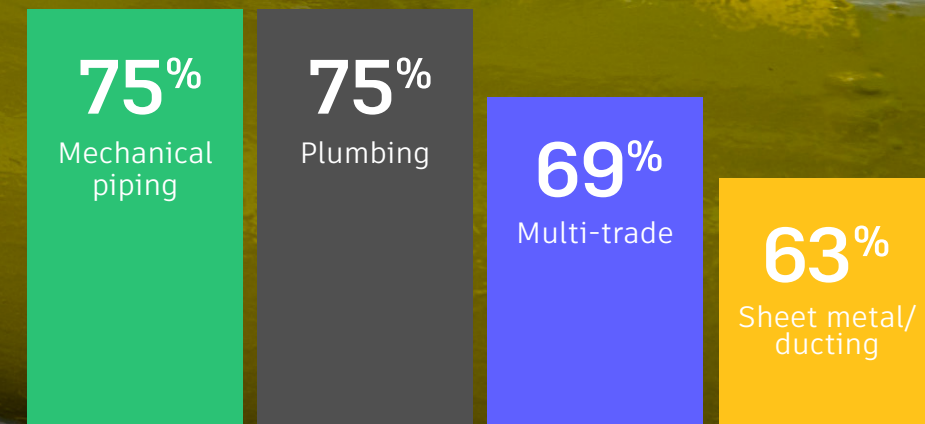
90% of BIM users report positive impact on material waste



Much better with BIM ■ Better with BIM □ No reported benefit

**Mechanical contractors are saving time by using BIM to modularize multiple services into a single rack system.**

Percentage of mechanical contractors reporting time savings



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...How much BIM has increased our fabrication abilities has got to be the biggest benefit by far.

– Brian Zorbini, U.S. Engineering, Project Manager



# 01 Embrace new capabilities

Success in a changing market comes from your ability to adapt while doing more with less. For more and more mechanical contractors, that success starts with BIM and the prefabrication capabilities it enables.

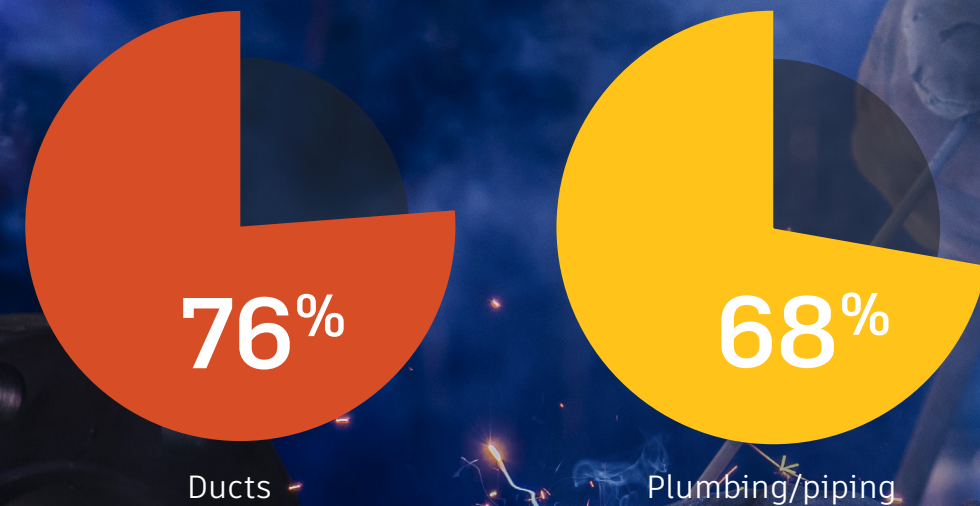
**By using BIM to prefabricate vs. site construction, top firms are experiencing improvements across the board.**

Percentage of BIM users reporting improvement



**More and more, mechanical contractors are improving productivity by using BIM for prefabrication.**

Percentage of BIM users reporting improvement



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**As we design something, we can take the data and track it easier, and figure out how long it's taking us. Bringing that information back into estimating and refining our process...is going to help us be lean and mean when the economy turns.**

—Angie Simon, Western Allied, President



A large industrial facility, likely a manufacturing or construction site, with a worker on a blue scissor lift. The worker is positioned near a large metal structure. A bright blue light source is visible on the structure. A yellow BIM (Building Information Modeling) overlay is visible, showing a complex network of pipes and structural elements. The background shows the interior of a large building with a high ceiling and various industrial equipment. The text "Future-proof your business" is overlaid on the left side of the image.

# Future-proof your business

The industry is changing fast, with added pressure on your team to deliver the best work, faster—and on increasingly complicated projects. For mechanical contractors, BIM is an essential part of adapting to new expectations. With improved collaboration throughout the project lifecycle, savings in time and money, and new capabilities like precision prefabrication, BIM makes the difference between surviving and thriving.



The background of the entire page is a close-up, high-angle photograph of numerous blue and yellow pipes. The pipes are arranged in a way that creates a strong sense of depth and perspective, with many circular openings visible. The lighting is dramatic, with highlights on the edges of the pipes and deep shadows in the recesses, giving the image a textured, industrial feel.

# Embrace the power of BIM with the full Autodesk AEC Collection

Integrates BIM and CAD tools for building design, civil infrastructure, and construction. Includes Revit, AutoCAD, Civil 3D, Navisworks, Fabrication CADmep, and more.

Get in touch now to arrange a 1:1 consultation to learn how BIM can work for you.