

PRODUCTIVITY & PROFIT

Top 5 BIM benefits for mechanical & HVAC contractors





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

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

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.

05 Collaborate like a partner

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

BIM-savvy firms are finding new ways to resolve issues onsite rather than resorting to RFIs.

Multi-trade contractors reporting:

49%

Reduction in RFIs in the construction phase

41%

Reduction in RFIs rejected due to insufficient information

27%

Reduction in RFIs caused by outdated documents

27%

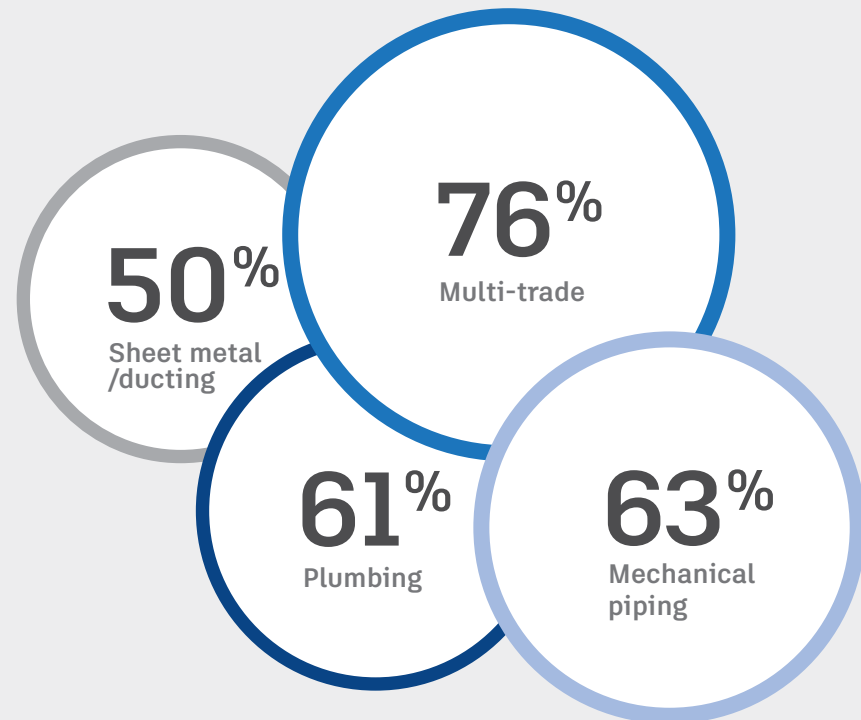
Reduction in RFIs at the preconstruction stage

03 Supercharge productivity

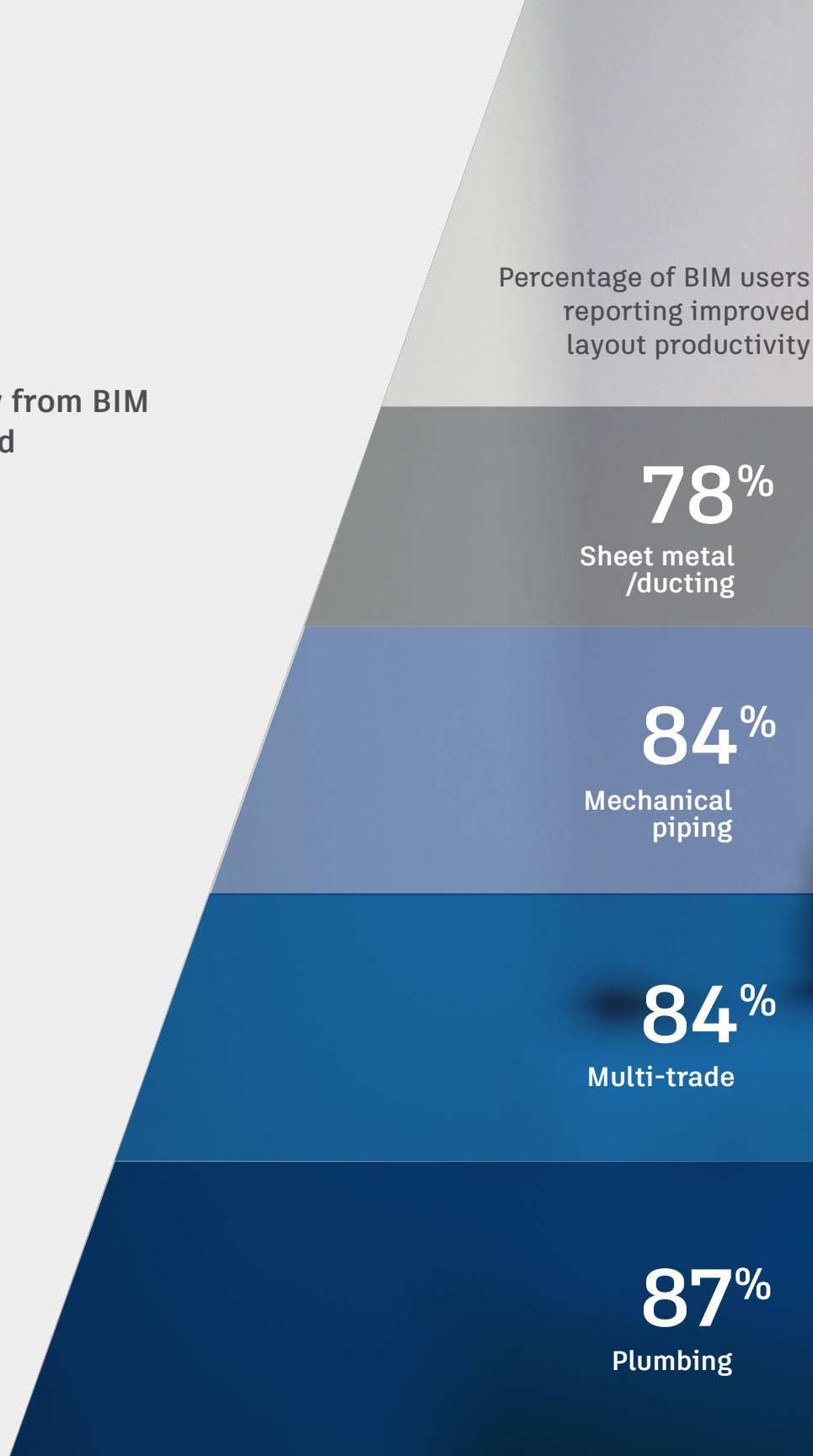
The improved communication and exceptional accuracy from BIM workflows allow for detailed, precise shop drawings and improved productivity across project lifecycles.

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.

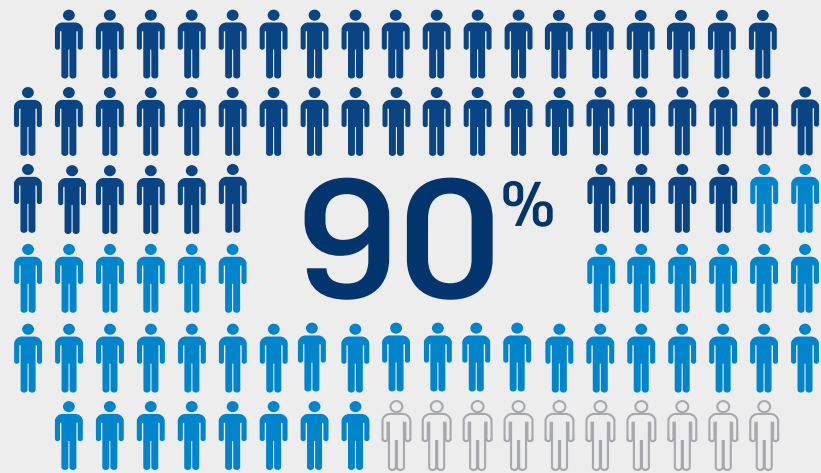
–Kiley Johnson, Western Allied, Detailing Manager

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.

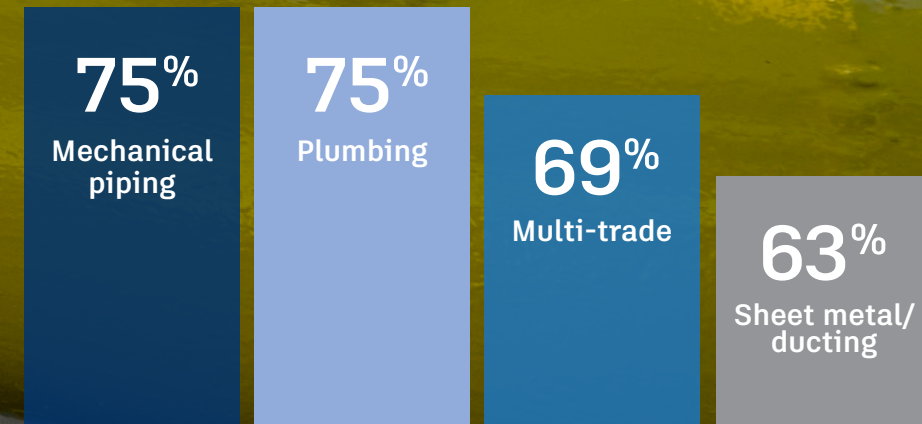
90% of BIM users report positive impact on material waste



■ 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.

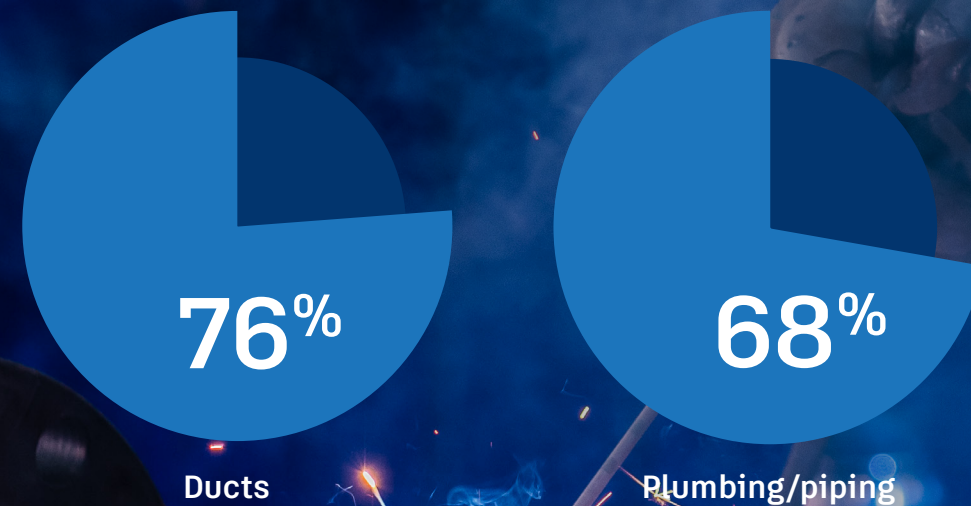
By using BIM to prefabricate vs. site construction, top firms are experiencing improvements across the board.

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



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.

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ENGINEERING & CONSTRUCTION
COLLECTION**

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