

# SEAMLESS DESIGN COLLABORATION BENEFITS ANY PROJECT DELIVERY TYPE

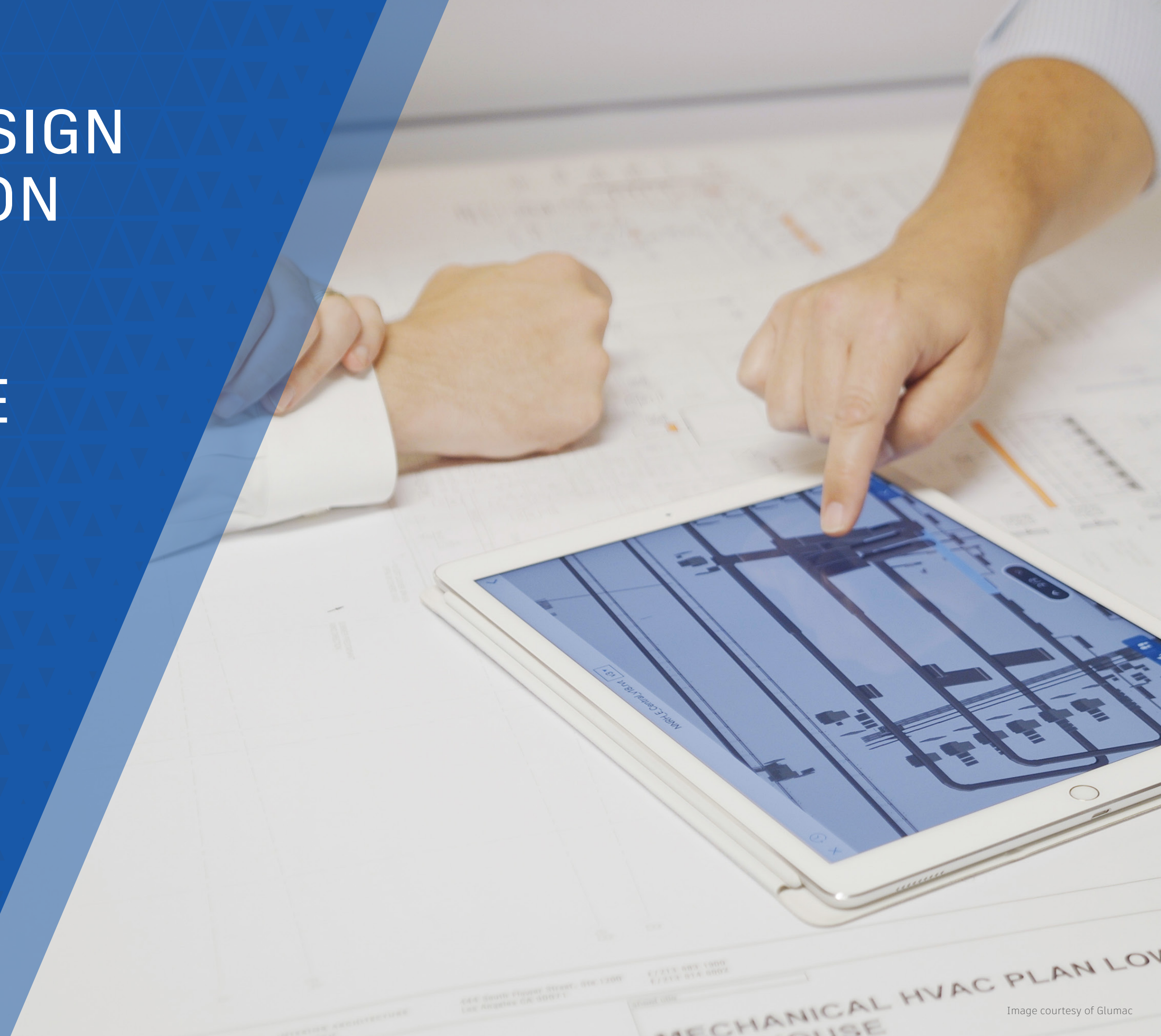


Image courtesy of Glumac

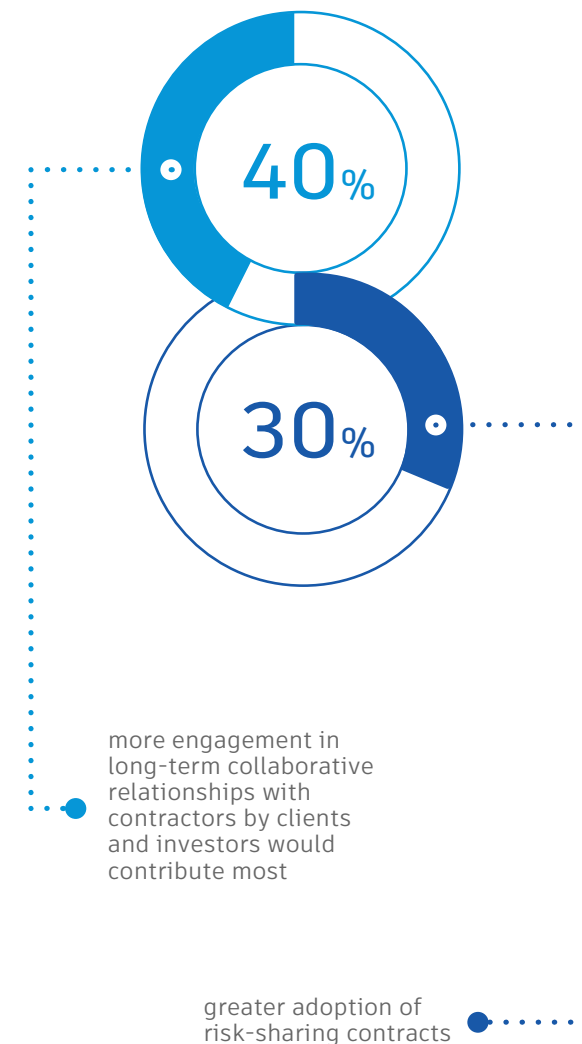
## Which delivery models apply to your sector?

The way that building projects are tendered, won and completed is changing. There is an increased emphasis on collaboration between multiple specialists to deliver the best possible result for the owner, including post-construction and into the lifecycle of the building. Unfortunately, a design contract doesn't solve the problem of communications between all parties. You need a communications plan beyond a legal agreement to work together effectively. A design collaboration solution can help put a project communications plan in action and enable teams to follow through with best practices. Building owners typically select the delivery model for the project, so design firms must understand these models and how to operate within their frameworks. Here are the most commonly used collaborative project delivery models in AEC:

### Integrated Project Delivery

Integrated Project Delivery, or IPD, is a project delivery method distinguished by early collaboration between cross-functional teams through all phases of design, fabrication, and construction. By entering this type of contractual agreement, teams are able to collaboratively harnesses the talents and insights of all participants to optimize project results, increase value to the owner, reduce waste, and maximize efficiency through all phases of design, fabrication, and construction. It offers the chance for all partners to adopt a share of the risk, so that all can benefit from the reward. It requires great collaboration to be successful.

Ways to improve productivity according to AEC professionals<sup>01</sup>



## Design-build

A design-build project is comprised of two or more teams working together by enabling one team to focus on design, and the other on the building process. In contrast to a traditional design-bid-build project in which the design and building team bid on a project separately, a design-build project requires that both the design and building teams bid on a project together.

### Joint-venture partnership (JV)

A joint-venture partnership, or JV, is a project partnership that creates a new legal entity made up of two or more separate firms. Many times, two companies will form a JV partnership when pursuing a contract in order to benefit from shared skills and resources, allowing them to collectively win larger or more complex projects than they would have been able to win alone.

Joint-venture agreements enable small and medium firms, or firms with complementary expertise, to combine their efforts to bid on a project as a single, unified entity. Joint-venture project delivery style not only requires a high-level of collaboration between these two teaming partners, but often times across multiple disciplines who may be located in multiple cities, states or countries.

“We have teams collaborating who can see the design updating live. BIM 360 Design helped bridge the gap between the four design Joint Venture firms, with one common model in the cloud.”

William Wallace, Woods Bagot

“AECOM has leveraged BIM 360 Design to **connect more than 135 global offices.** Allowing it to facilitate its integrated project delivery approach and utilize its global teams to contribute to key international projects, further reducing delivery costs.”

Chris Crowe, AECOM



## Teaming Agreements

In a Teaming Agreement (TA) firms with different expertise form a partnership to create a combined team that can more effectively compete in requests for proposals and design competitions. They align with collaborative design in that they focus on bringing together the best specialists for a project, and building the project around the key skills of the contracted parties.

The main benefit of the TA is to be able to win more work immediately, but it also gives your organization exposure to more complex projects, and the chance to 'upskill' to become the prime contractor in the future, as well as sourcing partners who may funnel more business your way.

Teaming Agreements are more popular than IPD in the USA. The collaboration between architects, MEPs and structural engineers is fairly advanced.

When it comes to design collaboration in the cloud, designers face a conundrum. They want collaboration, and the legislation surrounding all cloud data in the USA is a factor in their solution decisions. Choosing a solution in which you can be confident about the lifetime safety of that data, to comply with the twelve-year statute of limitation on building projects, is a must.

## Public-Private Partnership

A public-private partnership project, or PPP, P3, or PF2, is a project delivery method that includes at least one public sector authority and one or more private sector parties. This type of contract enables the public sector to effectively utilize a private sector skillset and minimize their risk simultaneously. A typical PPP project will include an integrated project team responsible for delivering across the full project lifecycle, from design through construction and ongoing operations.





## Autodesk solutions for better design team collaboration

Tools like Autodesk® BIM 360® Design are helping to provide design teams with a cloud enabled, collaborative BIM environment.

BIM 360 Design enables design collaboration and data management across the project lifecycle. Teams can securely co-author a Revit model within one firm or across multiple firms and control the exchange of work-in-progress data. It allows teams to streamline deliverable coordination, visualize changes to the project model in an aggregated view, track project progress, and manage issues. Extended team members benefit from greater project visibility for faster and more informed decision making.

Design teams are freed from the requirement to physically co-locate or share a server. This is a major time and money saver since feedback is shared in real-time, and teams are able to resolve issues together quickly within the model, a process that may have previously taken weeks.

With anytime, anywhere access, plans, models and documents are always available, ensuring the right information is in the right hands throughout the project. The common data platform helps to reduce data silos and keep teams on the same page. The change visualization tool allows the team to review contents of incoming sets and packages and easily visualize changes from past versions. Comparing differences between phases, building levels, and design teams can help identify how the project has progressed. Communication really is the key to effective collaborative design, and reliable data exchange is critical.

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“BIM 360 Design was like a dream come true. As soon as we began using it, we knew it was going to revolutionize our collaborative design process.”

Kal Houhou, Director of Technology,  
Martinez + Johnson Architecture

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## AUTODESK® BIM 360® DESIGN

BIM 360 Design enables design collaboration and data management across the project lifecycle. It allows teams to securely co-author a Revit model within one firm or across multiple firms and control the exchange of data. Streamline deliverable coordination, visualize changes, track project progress, and manage issues to help improve project outcomes.

BIM 360 Design trial

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## AUTODESK® BIM 360® DOCS

BIM 360 Docs is a cloud-based document management solution that provides teams with the ability to find, publish, manage, review and approve project information on a common data platform with unlimited storage. With anytime, anywhere access to the latest information, teams can reduce errors, make informed decisions, and improve project outcomes.

BIM 360 Docs trial

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