

Methodology

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In terms of contracts awarded to you last year, what percentage of each project delivery method did your firm perform? *

	0-20%	20-40%	40-60%	60-80%	>80%
Design Bid Build	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design Build	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Construction Management Agency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Construction Management at Risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrated Project Delivery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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What percentage of your firm's man-hours worked last year used prefabrication? *

Prefabrication is the planning, design, fabrication and assembly of building elements at a location other than their final installed location to support the rapid and efficient construction of a permanent structure (e.g. using concrete forms poured off-site and transported on-site to reduce time to construct formwork and wait for concrete to cure).

	0-20%	20-40%	40-60%	60-80%	>80%
Building	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Highway	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Municipal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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What percentage of each area of construction did your firm use industrialized construction strategies last year? (BIM, Prefab, Automation, etc.) *

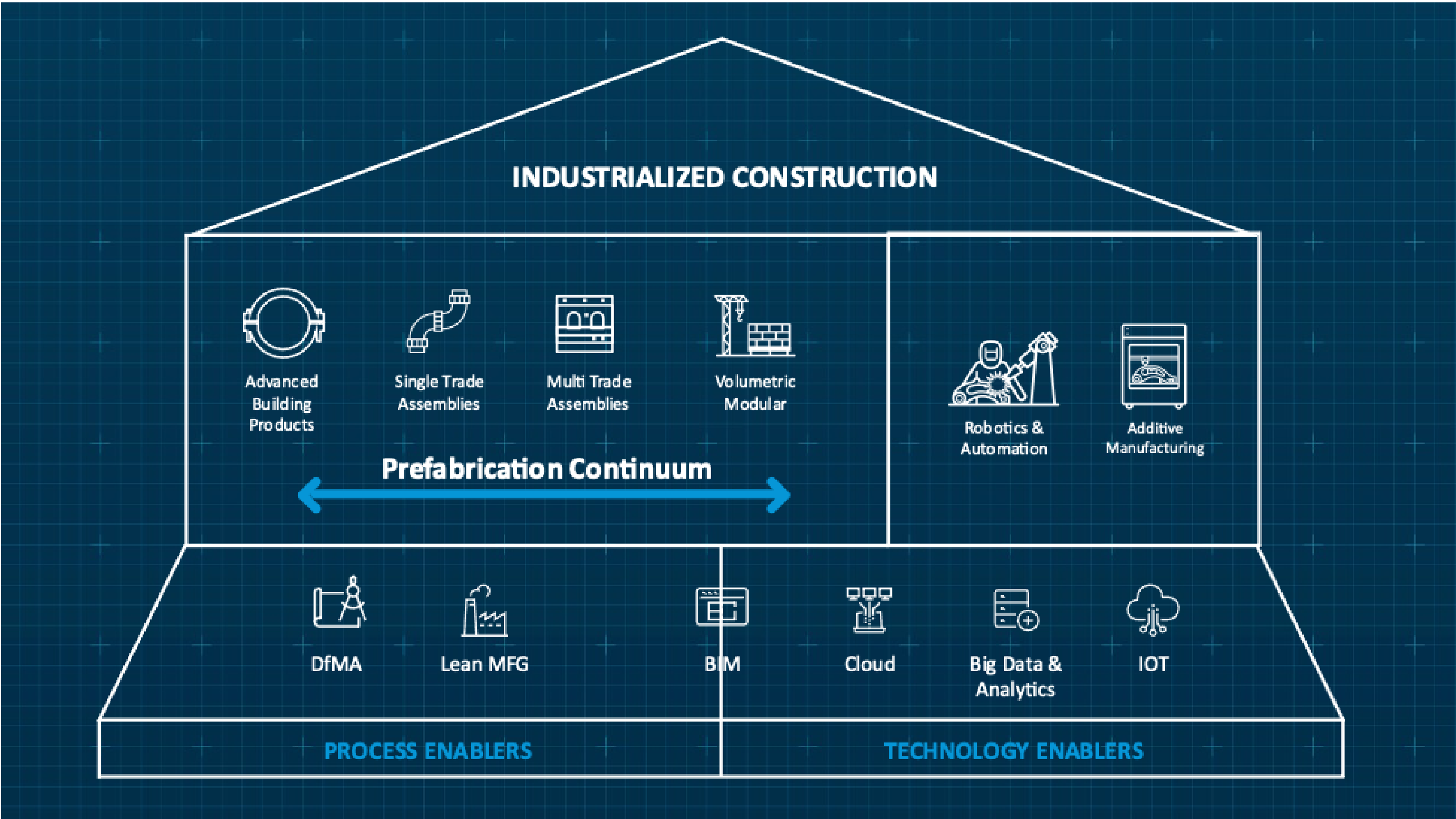
	0-20%	20-40%	40-60%	60-80%	>80%
Framing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electrical	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plumbing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HVAC	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Concrete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Multi-Trade	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Use of Industrialized Construction Among Associated General Contractors of America

Abstract

Industrialized construction strategies are techniques used on a construction project that allows for significant time and schedule savings. The goal of this study is to analyze trends among general contractors and their experience with these strategies. Associated General Contractors of America (AGC) firms were asked various questions including size of firm, experience with several types of IC strategies, and their willingness to use similar strategies in the future. The success of certain firms' use of IC strategies can be applied to similar projects and firms to ensure the reliability and lowered risk of adopting strategies like building information modeling, prefabrication, and automation.

Key Words: Industrialized Construction, Prefabrication, Automation, BIM, AGC

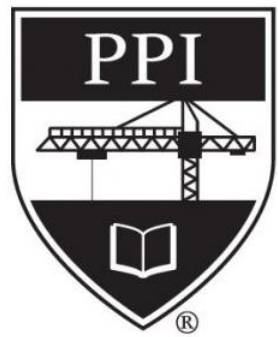


Expectations

- Larger firms will have more experience with IC and higher willingness to use it in the future.
- Firms with experience with BIM will have more experience with prefabrication and automation.
- Firms that use BIM in conjunction with other IC strategies will see higher level of success through reduction of cost and schedule.
- Firms with more experience with unit price or highway projects will have more experience with IC strategies.
- Use of concrete prefabrication will be more prevalent in highway and unit price contracts while multi-trade prefabrication will be more prevalent in commercial or industrial projects.



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