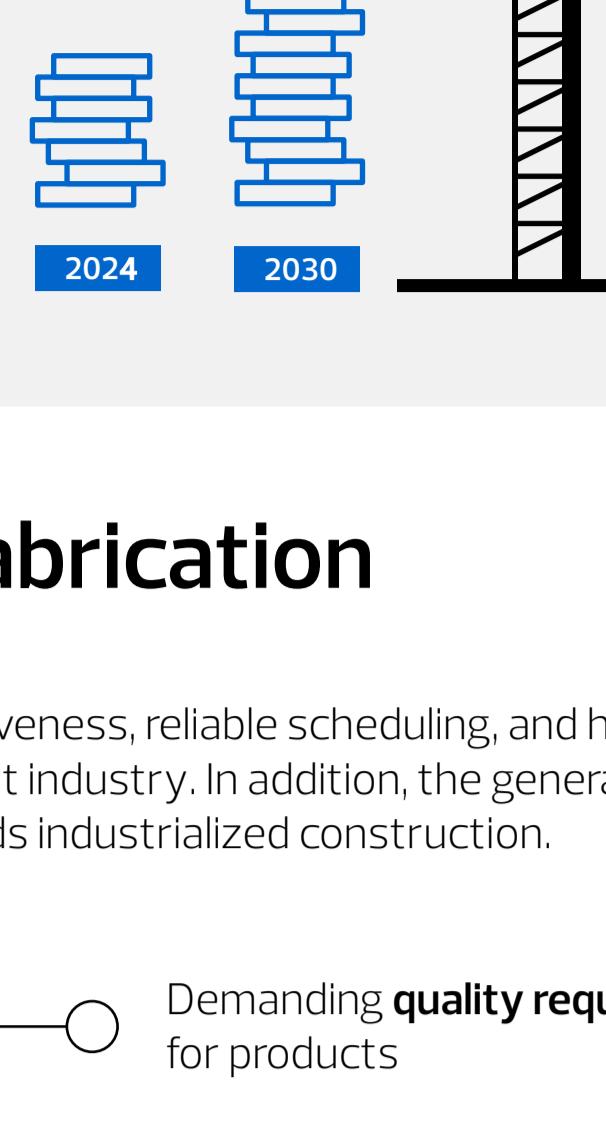
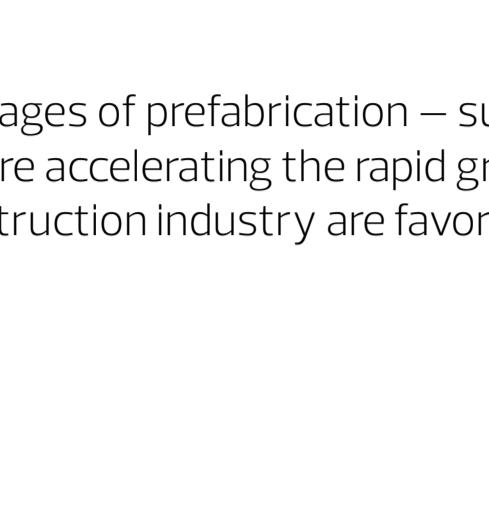


Growth opportunity for prefabrication

The global precast concrete market is set to grow by **40%** from USD\$111,21 billion to **USD\$156,13 billion** between 2024 and 2030*.

*Source: Grand View Research



Factors for a shift towards prefabrication

The numerous advantages of prefabrication – such as cost-effectiveness, reliable scheduling, and high production quality – are accelerating the rapid growth of the precast industry. In addition, the general market conditions in the construction industry are favoring the shift towards industrialized construction.



Challenges of the precast industry and suitable solutions

Digital tools are a decisive success factor for increasing efficiency in precast projects. This is because only specialist software solutions for precast design and detailing take into account the specific requirements of industrial prefabrication.

Challenges	ALLPLAN's Software Solutions
	Growing demand, maintaining competitiveness
	Provision of 3D models
	Fulfilling BIM requirements
	Precise production data
	Increasing complexity of projects and products
	Increasing number of project participants
	Lack of skilled staff for both planning and production phases
	Managing last-minute changes
	Automated workflows for more efficiency and precision
	Create a 3D model using 2D or 3D workflows with 100% consistency between the two views
	BIM-compliant solution that satisfies requirements for all levels of BIM
	IFC interface for loss-free export of all precast elements, with attributes, fixtures, reinforcement, & formwork
	Automatic functions – such as collision checks – remove manual tasks for higher quality in less time
	Seamless collaboration through Bimplus and Allplan Share, enabling real-time access to current project data from anywhere
	Attract and retain talent with up-to-date working methods, and lower learning curve for new staff
	Efficient change management through smart features that reduce the impact of changes

Automated workflows

Through automated workflows, ALLPLAN's solutions enable significant efficiency gains in your precast projects.

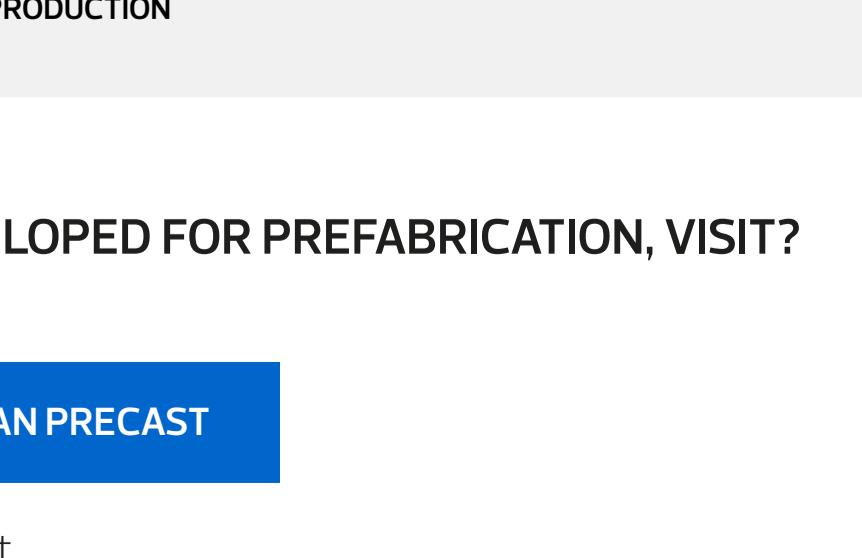


WALLS AND SLABS

- > Automated panel distribution
- > Automated generation of basic reinforcement
- > Automated generation of shop drawings
- > Automated sleeves and transport anchors
- > Automated further processing of imported IFC data
- > Automated quality assurance mechanisms
- > Efficient implementation of changes (e.g. automated adjustment of drawings, reinforcement, etc.)

STRUCTURAL PRECAST PARTS

- > Automated generation of shop drawings
- > Efficient handling of identical components
- > Automated labeling with the correct position numbers
- > 100% consistency between the model and all plans at any second (making changes more efficient)
- > Efficient further processing of any 3D bodies
- > Parametric design options with Pythonparts, for efficient, simplified, and automatic model creation based on parameters – no manual modeling required



FOR SOFTWARE SOLUTIONS SPECIFICALLY DEVELOPED FOR PREFABRICATION, VISIT?

> COMPETENCE CENTER ALLPLAN PRECAST

allplan.com/prefabrication

PRECAST

„We roughly estimate that ALLPLAN Precast saves us about **70% of the design time** and reduces the **production time by 30%**.“

Krzysztof Jaskolski, precast part designer, Leier Polska

