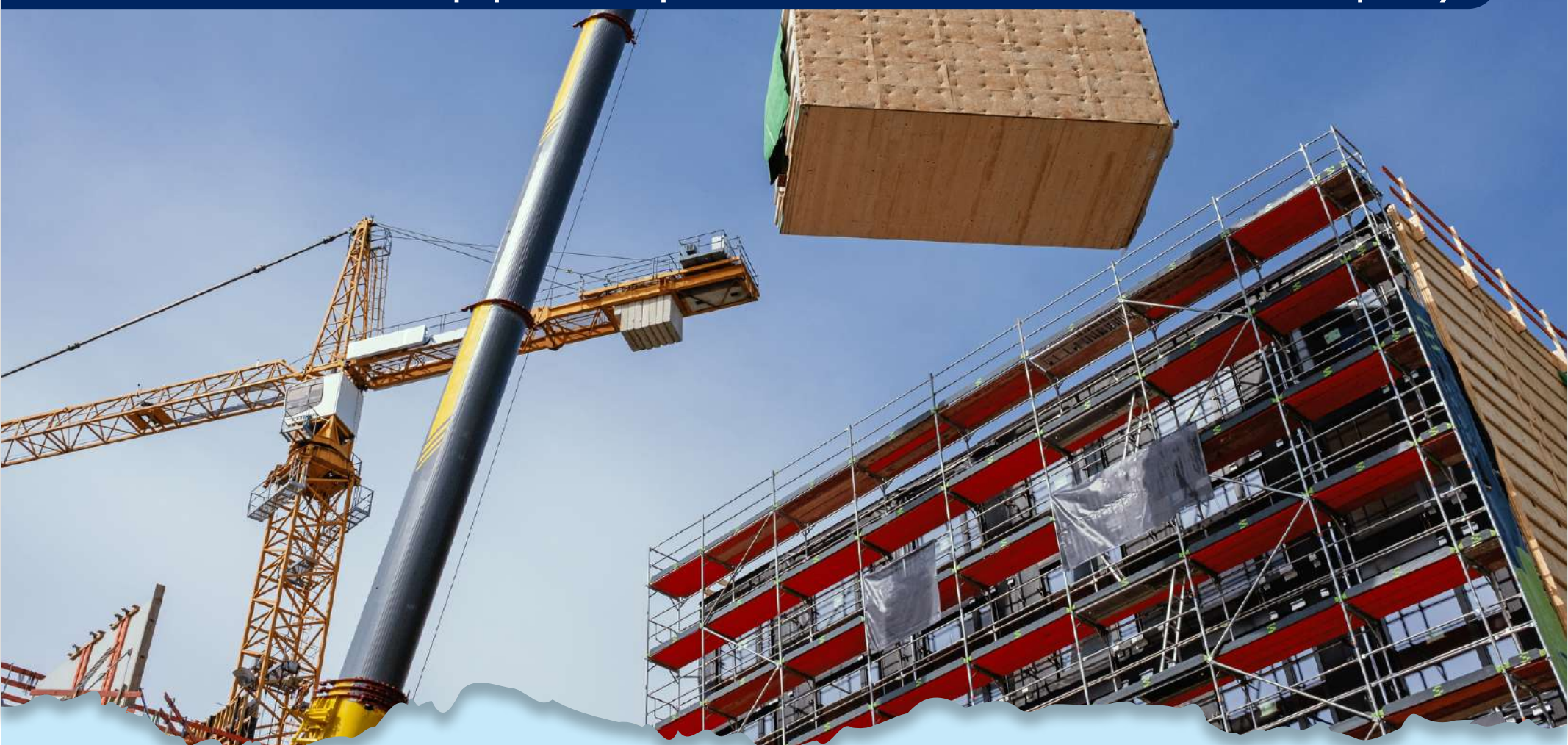


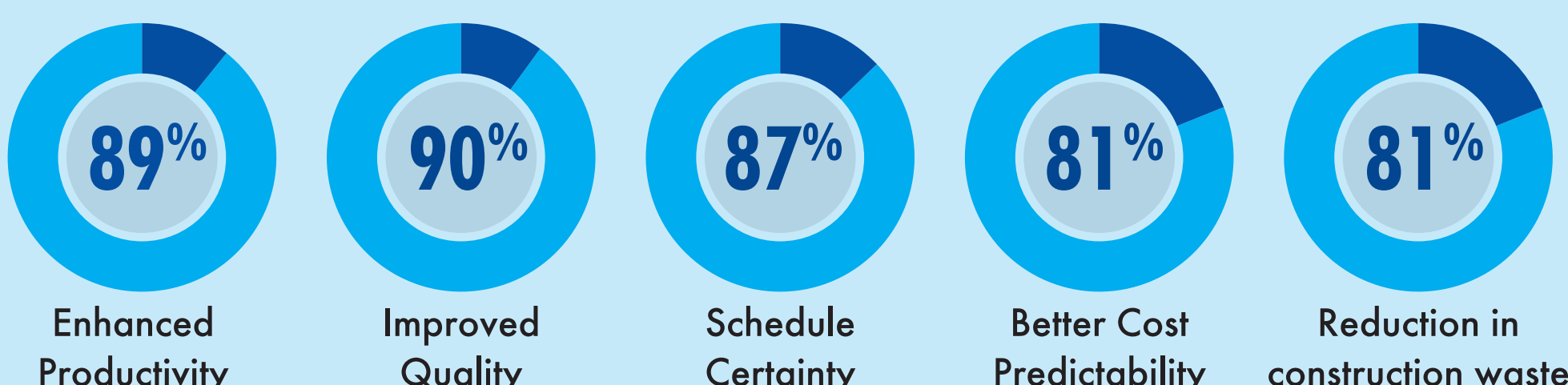
Benefits of Creating Prefabricated MEP BIM Modules in Construction

Prefabrication of MEP equipment is quicker, safer, cost-efficient and ensures quality.



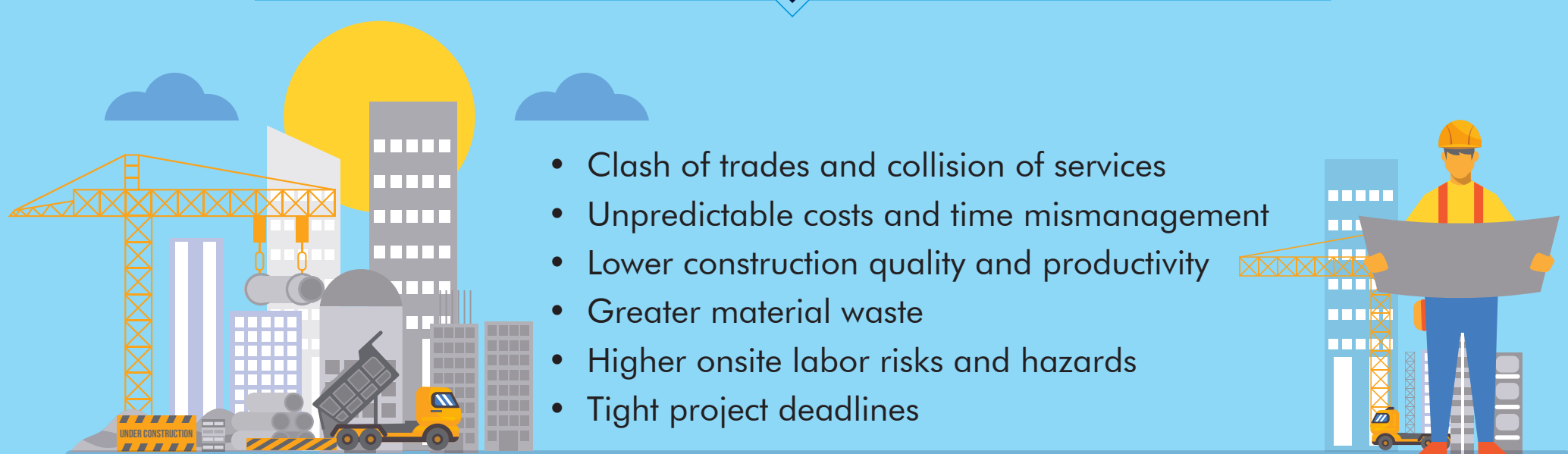
Based on Dodge Data and Analytics on prefabrication and BIM, cost predictability is a top advantage of modular construction and prefabrication.

Top 5 drivers for MEP contractors and construction companies to adopt prefabrication



Source: Dodge Data and Analytics

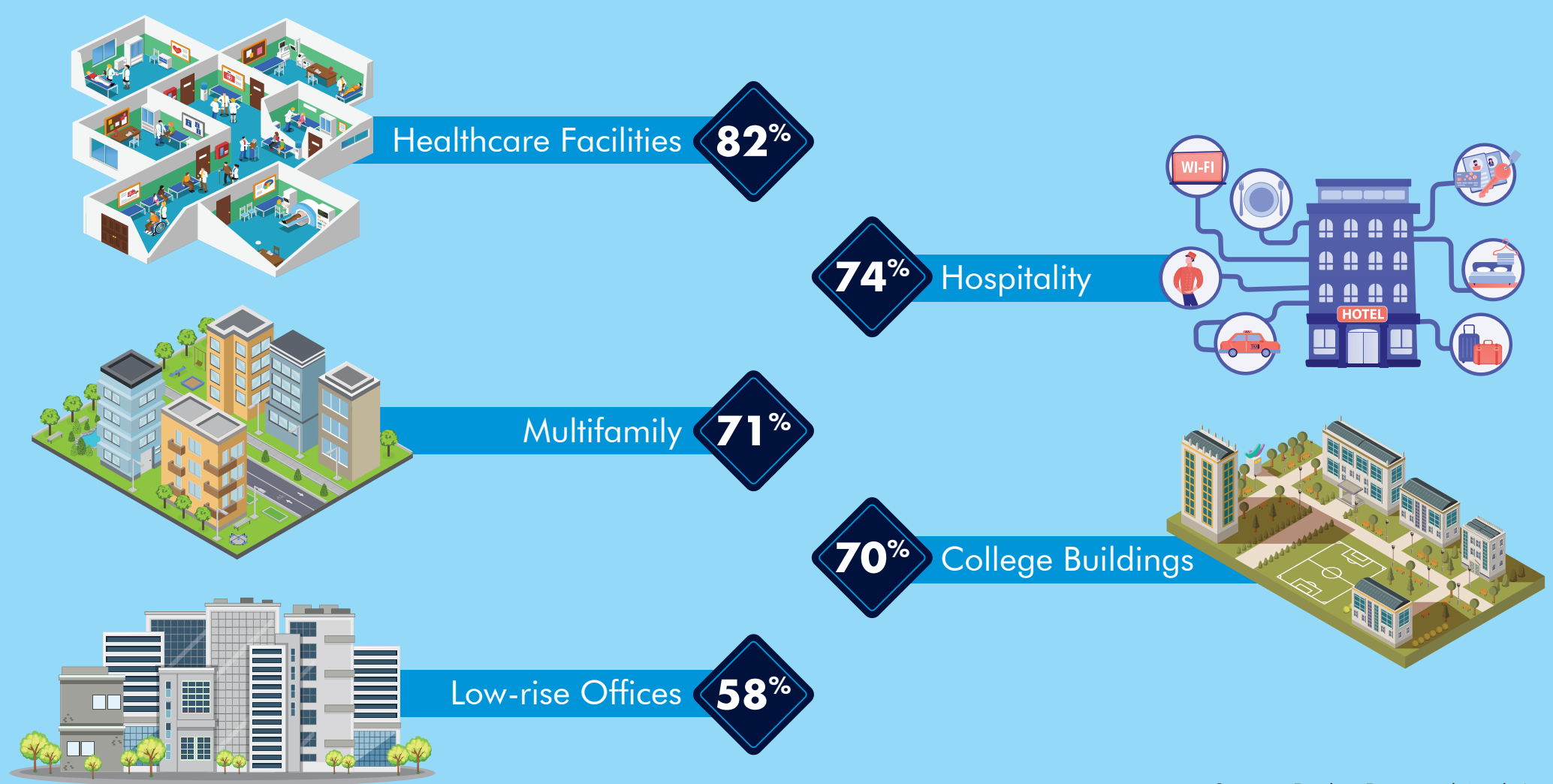
Challenges faced with legacy construction methods



Benefits of using pre-fabricated MEP BIM modules in construction

- Fully coordinated, clash-free, and pre-engineered deliverables → Faster project construction
- Accurate manufacturing cost and timely project delivery → Reduced costs and manpower
- Improvements in fabrication quality and efficiency → Reliable quality and better finish
- Lower material waste reinforced by greater performance → Eco-friendly
- Improved predictability and reliability lower risks and improve safety → Increased safety
- Better onsite logistics and production accuracy promotes schedule reliability → Minimal site interruptions

Top 5 building types where prefabrication proves most beneficial



Source: Dodge Data and Analytics

Successful stories of prefabrication and modular construction

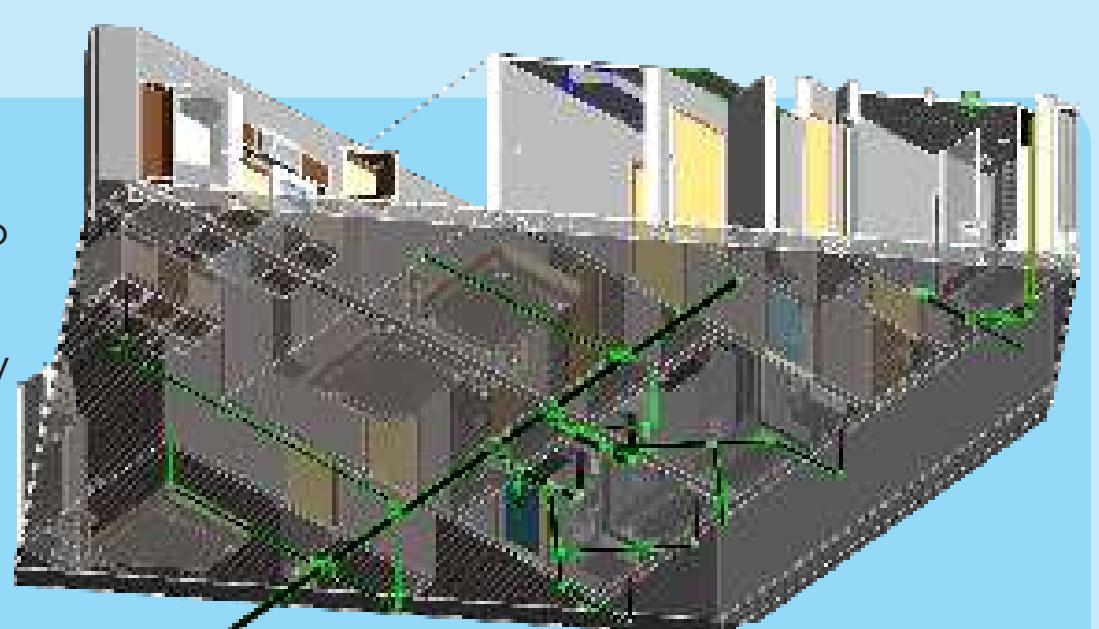
1. MEP BIM Modeling at LOD 400 for a residential building drives accurate fabrication and installation

Business need

Construction drawings extracted from MEP BIM model at LOD 400 in Revit to achieve higher efficiency of MEP systems.

Approach

- The drawings were imported into Revit MEP to build a 3D BIM model
- BIM models were created and interdisciplinary clashes were eliminated
- Final BIM MEP model was shared with the client



Result

- Seamless fabrication and installation of MEP components
- Reduced rework saved costs and time