

3 WAYS TECH IS RESHAPING AND IMPROVING CONSTRUCTION

TECHNOLOGY IS RAPIDLY CHANGING HOW WE DESIGN AND BUILD. HERE ARE THREE AREAS WHERE TECH IS HAVING A MAJOR IMPACT



IMPROVE PRODUCTIVITY

- Software & cloud-based mobile apps deliver real-time collaboration and communication.
- Offsite construction methods deliver projects in a fraction of the time.
- AI & Machine Learning can monitor real-time jobsite progress, creating real-time data.

1



REDUCE WORKER DEATHS

- Augmented Reality and Virtual Reality allow for more detailed safety plans and improved virtual training.
- Wearables imbed sensors into hard hats, gloves, safety vests, and work boots to track worker movements.
- Site sensors can be used to monitor, collect, and analyze data and send safety alerts.

2



OVERCOME LABOR SHORTAGE

- Drones can be used for inspections, to document progress, identify hazards, site surveying, and monitoring workers.
- Robots can do simple, repetitive tasks like lifting and laying bricks.
- Autonomous heavy equipment can be used on jobsites to perform excavation, grading, and sitework.

3

