

# THE FUTURE OF BIM

The Impact of Building Information Modeling in Construction—And How It Will Continue to Shape the Built World



## BIM HAS BECOME AN INDUSTRY STANDARD IN DESIGN

**86%** of architects and engineers say that BIM enables better design insight.



## BIM'S VALUE IS CLEAR

**82%** of BIM users say they've achieved a positive ROI.

**25%** have seen an improvement in labor productivity.



Among highly engaged BIM users:

**84%** say it eliminates unnecessary rework.

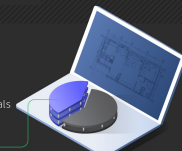
**69%** say it reduces costs and materials waste.

**60%** say it engages the material supply chain earlier and mitigates risk.

## BUT BIM IS UNDERUTILIZED OUTSIDE OF DESIGN

### In the Field...

**32%** of construction professionals use mobile devices to view BIM files in the field.



### In O&M...

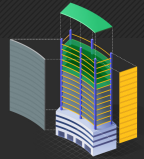
**5%** of operating costs per annum were saved in facility management with access to BIM models.



But only 14% of US owners believe they currently have the capability to leverage it in facilities maintenance.

## A NEED FOR BIM SKILLS IN THE WORKFORCE

BIM was the 2nd most requested skill, behind field experience, construction firms desire from their future workforce.



But...

**29%** of firms have a dedicated BIM/VDC department.

**28%** of companies do not bid on projects involving BIM.

**59%** of companies state that their workforce doesn't have the skills needed to work with BIM.

## TOP WAYS TO USE BIM THROUGHOUT A PROJECT LIFECYCLE

### Preconstruction & Design

- Project visualization
- Clash detection
- Scheduling
- Estimating

### Construction

- Prefabrication to reduce waste
- Update models to account for changes

### Closeout

- Create accurate as-builts
- Prepare turnover package

### Operations & Maintenance

- Accountability and efficiency manage facilities
- Monitor building performance data

## KEY WAYS COMPANIES CAN GET MORE OUT OF BIM

