MEASURING THE IMPACT OF BIM
on complex buildings

TOP 5-RATED POSITIVE IMPACTS OF BIM

74% CONTRACTORS — IMPROVED CONSTRUCTABILITY OF FINAL DESIGN

73% OWNERS — INCREASED OWNER UNDERSTANDING OF PROPOSED DESIGN SOLUTIONS

71% ENGINEERS — IMPROVED QUALITY / FUNCTION OF FINAL DESIGN

70% OWNERS — GENERATED BETTER CONSTRUCTION DOCUMENTS

70% OWNERS — IMPROVED ABILITY TO PLAN CONSTRUCTION PHASING AND LOGISTICS

5 PROJECT OUTCOMES EXPECTED TO HAVE GREATEST IMPACT FROM BIM IN THE NEXT 5 YEARS

Accelerated project completion due to schedule compression. **#1**

23% average schedule **reduction** with VDC project delivery when compared to traditional project delivery methods at SSOE.

Reduction of final construction cost. **#2**

Requests for Information (RFI) reduction. **#3**

Improved labor productivity. **#4**

Reduction of site labor due to increased offsite fabrication. **#5**

"The quality of construction documentation and the constructability of final design are critical to many downstream project activities on complex project—from estimating and bidding to the number of RFIs and amount of rework."
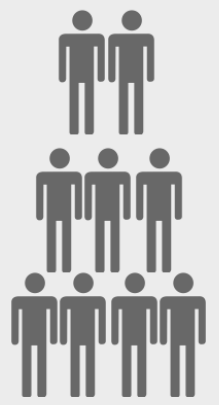
VDC UTILIZATION AT SSOE

OUR 2015 GOAL
50%
of EPC / EPCM projects to use VDC

2015 RESULTS
100%
of EPC / EPCM projects used VDC

OBSTACLES PREVENTING ORGANIZATIONS FROM ACHIEVING GREATER EFFICIENCY THROUGH BIM

FOR OWNERS
change management

FOR DESIGN TEAMS
training & education in using the tools / technology

FOR CONTRACTORS
getting owner buy-in

THIS STUDY, PERFORMED BY DODGE DATA & ANALYTICS, FOCUSED ON QUANTIFYING HOW BIM IS CONTRIBUTING TO IMPROVED OUTCOMES IN THE STAGES OF DESIGN AND CONSTRUCTION FOR COMPLEX BUILDINGS.

Data and analytics are based on an online survey of 391 owners, architects, engineers, and contractors who indicated that their company uses BIM and that they had a moderate or higher level of knowledge about the use of BIM at their company. Click here to dowload the full report.