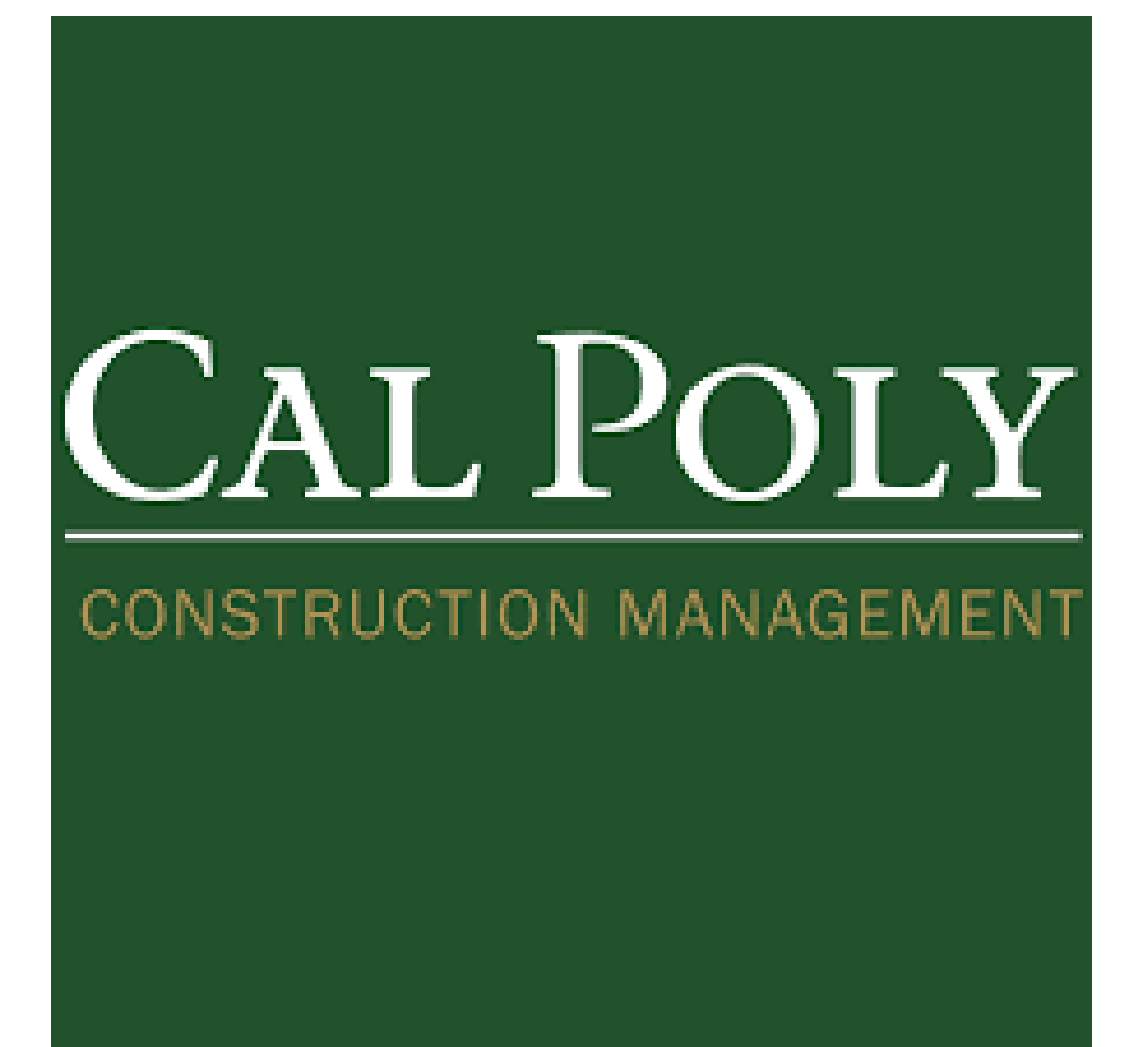


Effects of the Implementation and Use of BIM Technology: A Case Study

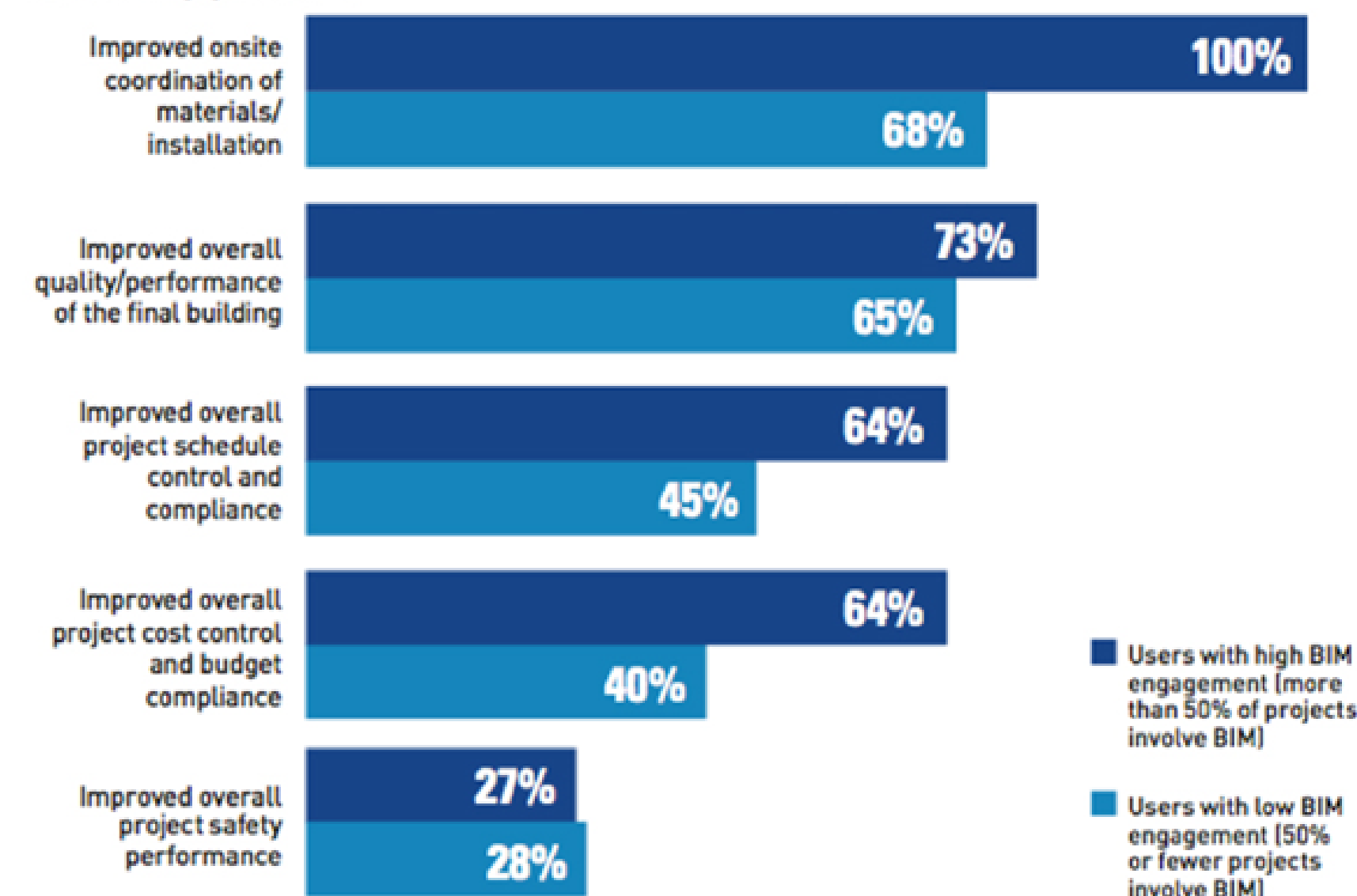
Andy J. Stone
California Polytechnic Institute
San Luis Obispo, California



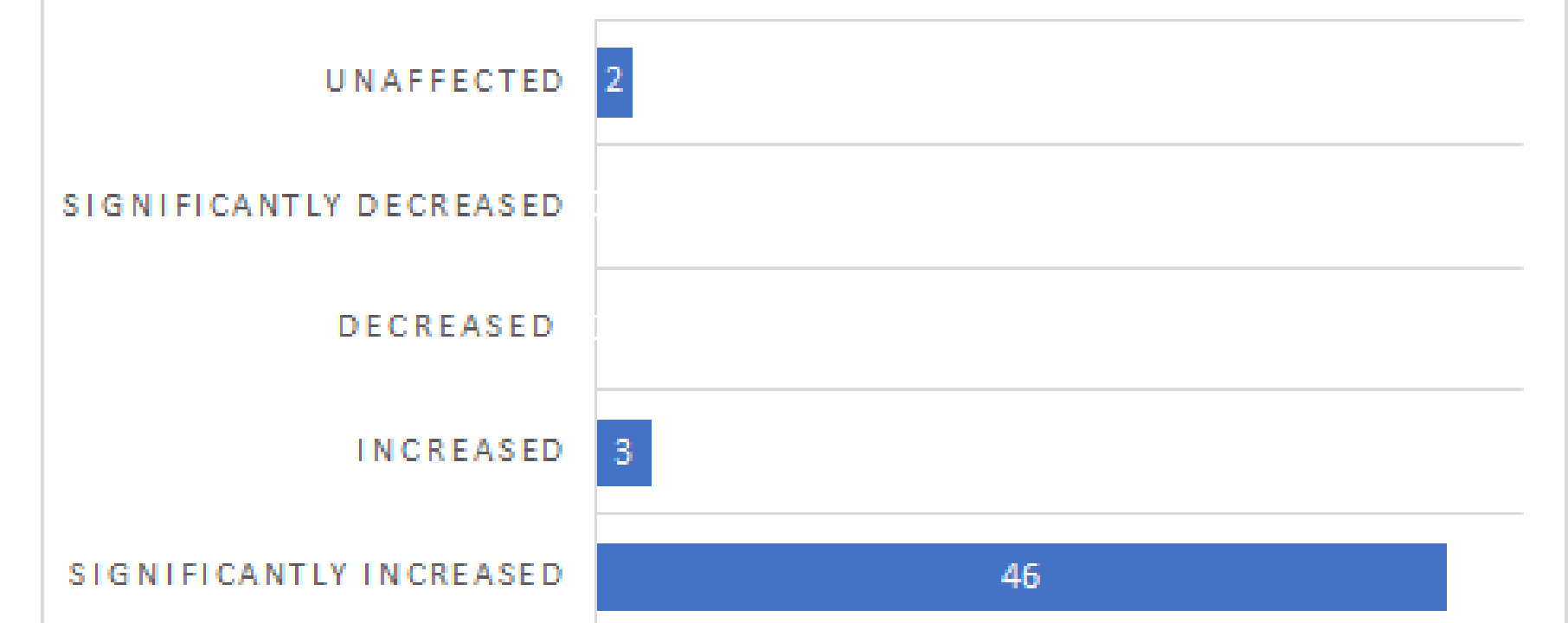
On any relatively large construction project, coordination between stakeholders, project managers, superintendents, subcontractors or any other entity becomes vitally important to the project's success. Building Information Modeling (BIM) creates a virtual design model of a building, which helps construction managers increase efficiency in terms of cost, schedule and overall quality. By connecting 3-D models to coordination and clash detection software's, construction managers can solve issues quicker or prevent them from happening in the first place. This case study aims to analyze the implementation and use of BIM technology by Shawmut Design and Construction. This study will also focus on the effect of using BIM on customer satisfaction, employees and company reputation. The results of this case study show that companies who invest in BIM will increase project efficiency, customer satisfaction and company reputation.

Benefits of BIM (High Engagement Users Only)

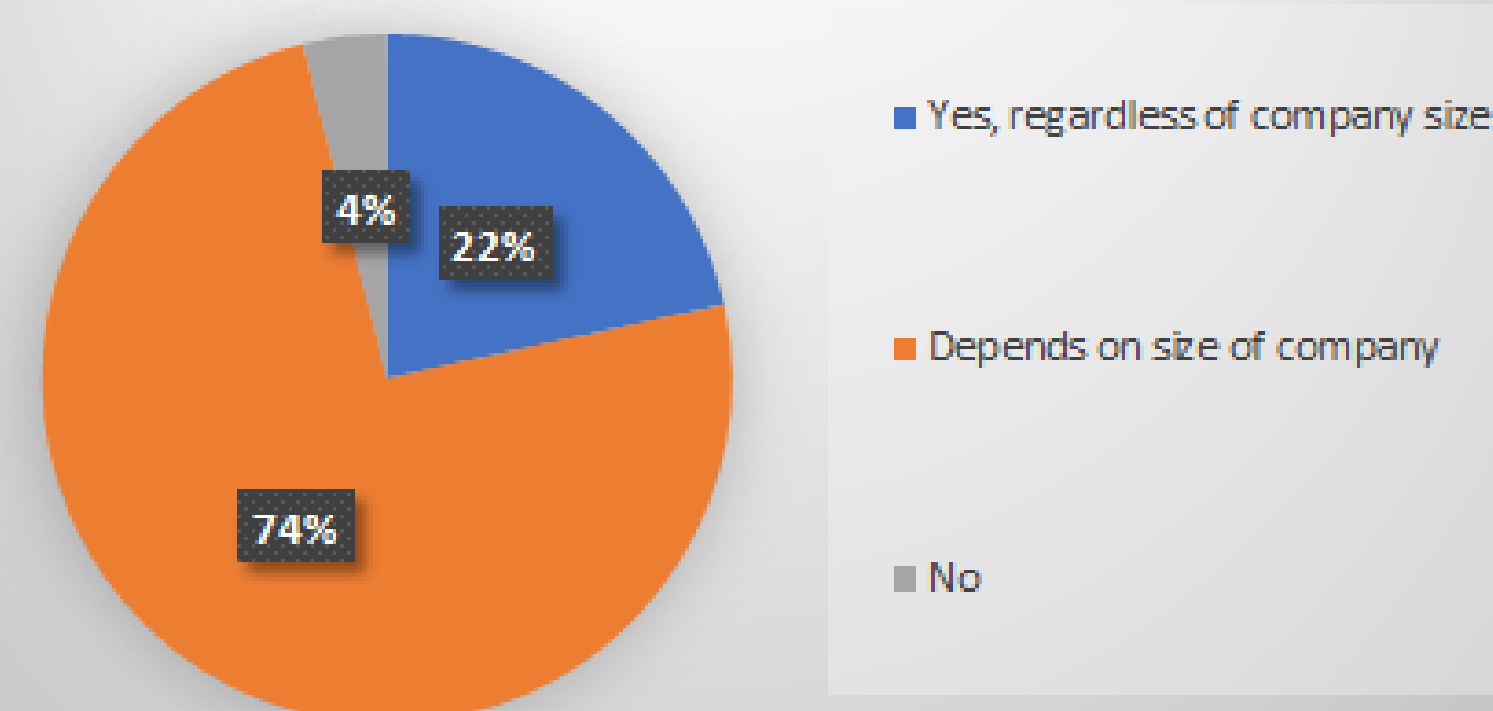
Percentage of highly engaged BIM users who cite each of five benefits generated by having other key team members engaged with BIM



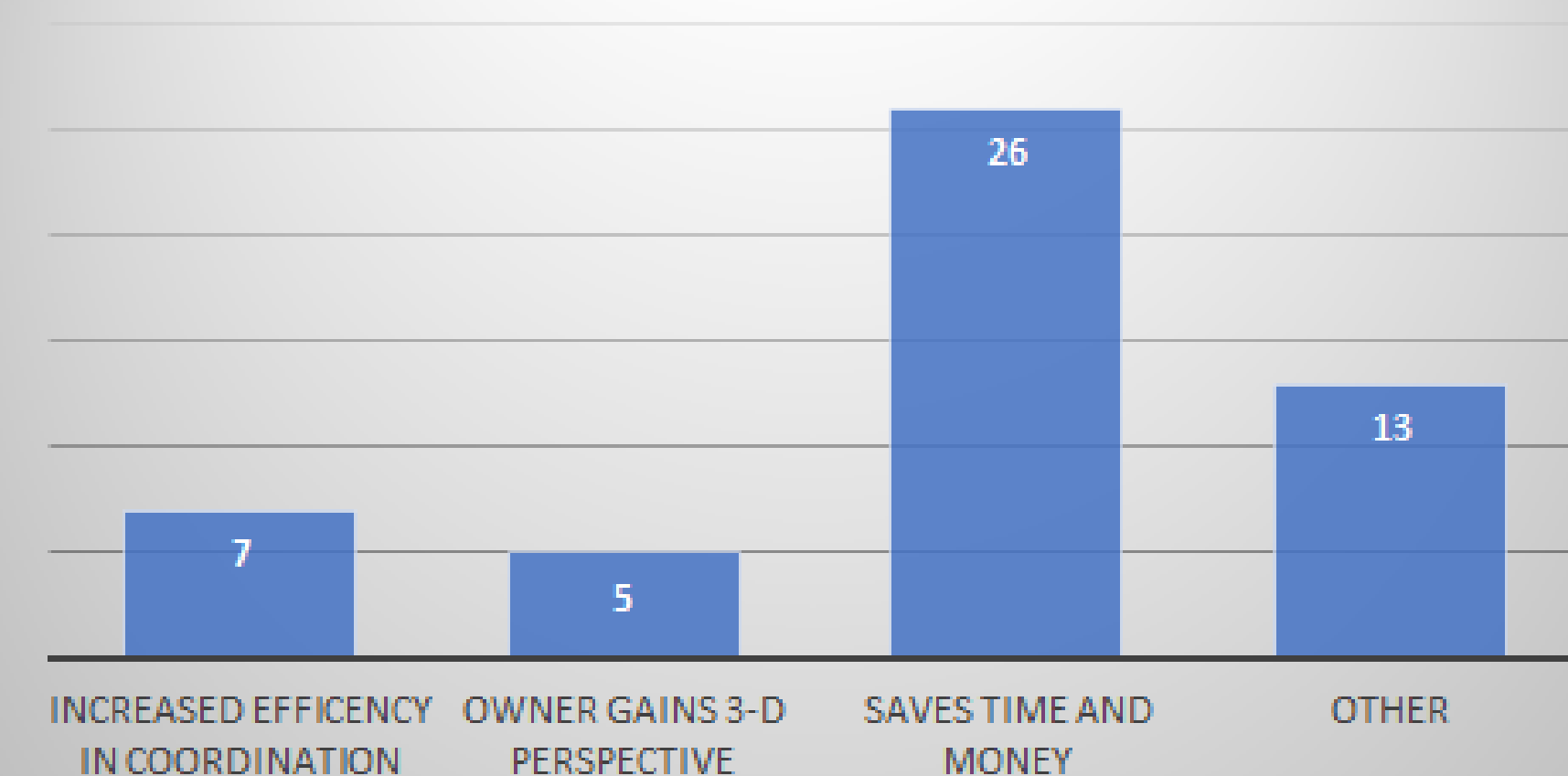
BIM'S EFFECT ON CUSTOMER SATISFACTION



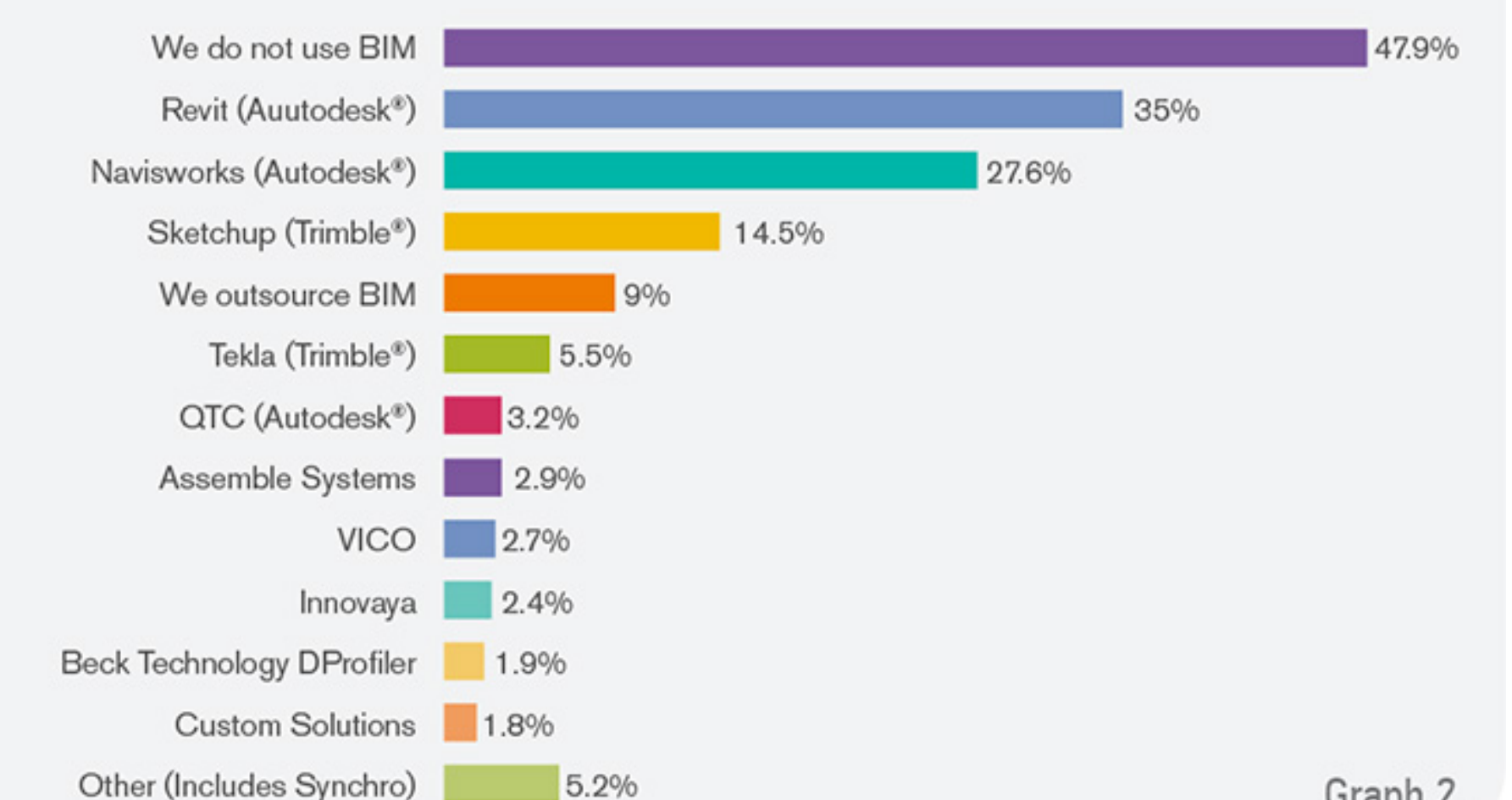
Is BIM worth intial time and money investment?



Postive Effects of Implementing BIM



BIM SOFTWARE



Graph 2.