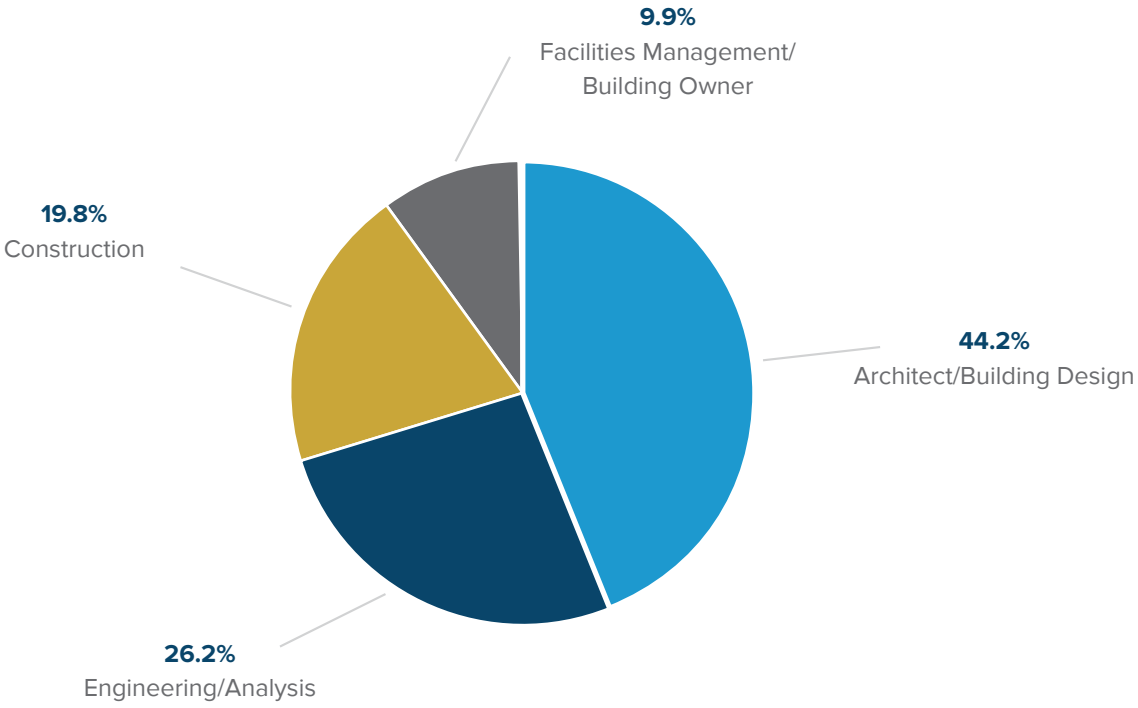
IMAGINiT TECHNOLOGIES

WHITEPAPER

Insights into the Data Gap: BIM and Facilities Management Sectors

In July 2017, IMAGINiT Technologies invited AEC firms and building owners to participate in its third annual survey on building information modeling (BIM) and facilities management practices. Over a period of two weeks, individuals representing several different disciplines participated in the survey. Approximately 44% work in architecture and building design, with the rest working in engineering and analysis, construction, facilities management, or building ownership.

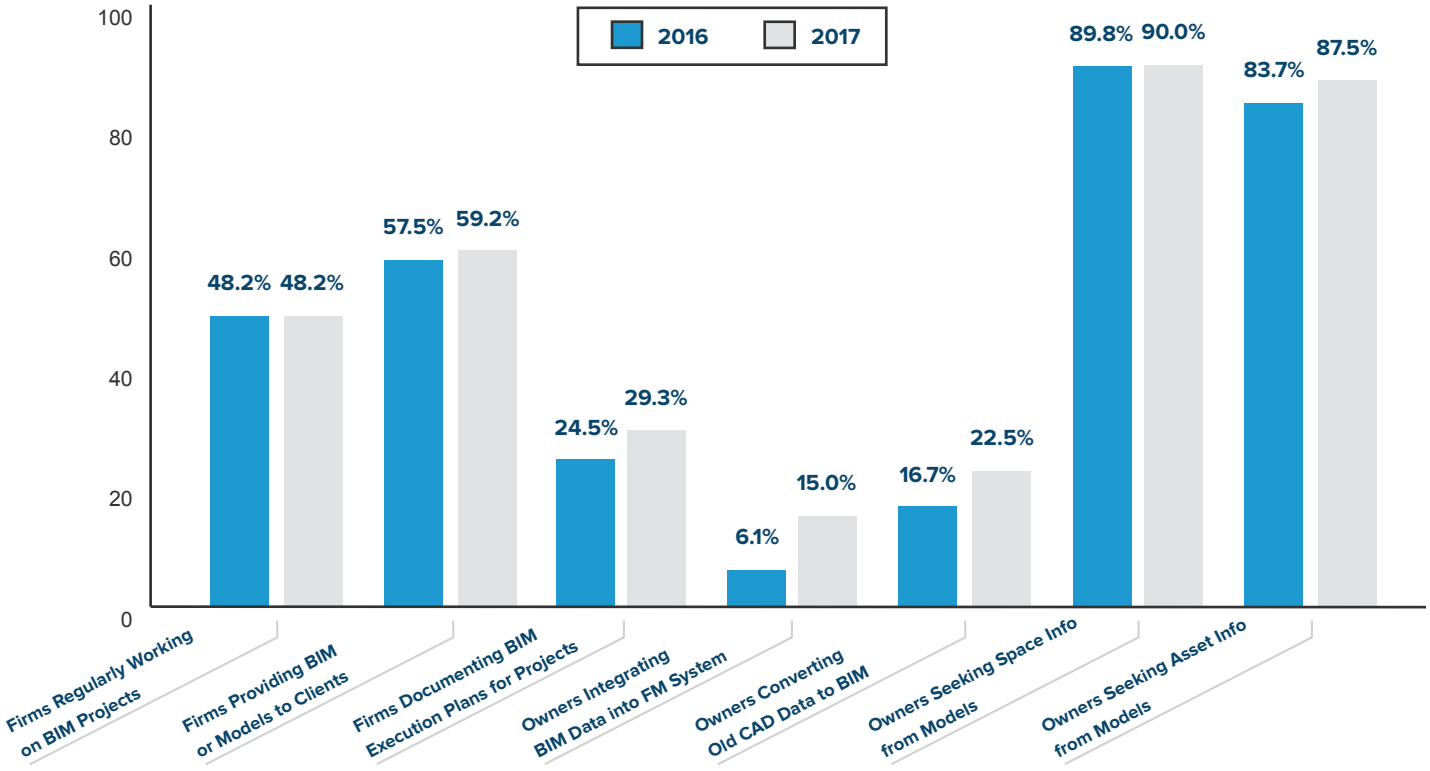
What is your primary role/discipline?



Building owners' use of BIM data is on the rise.

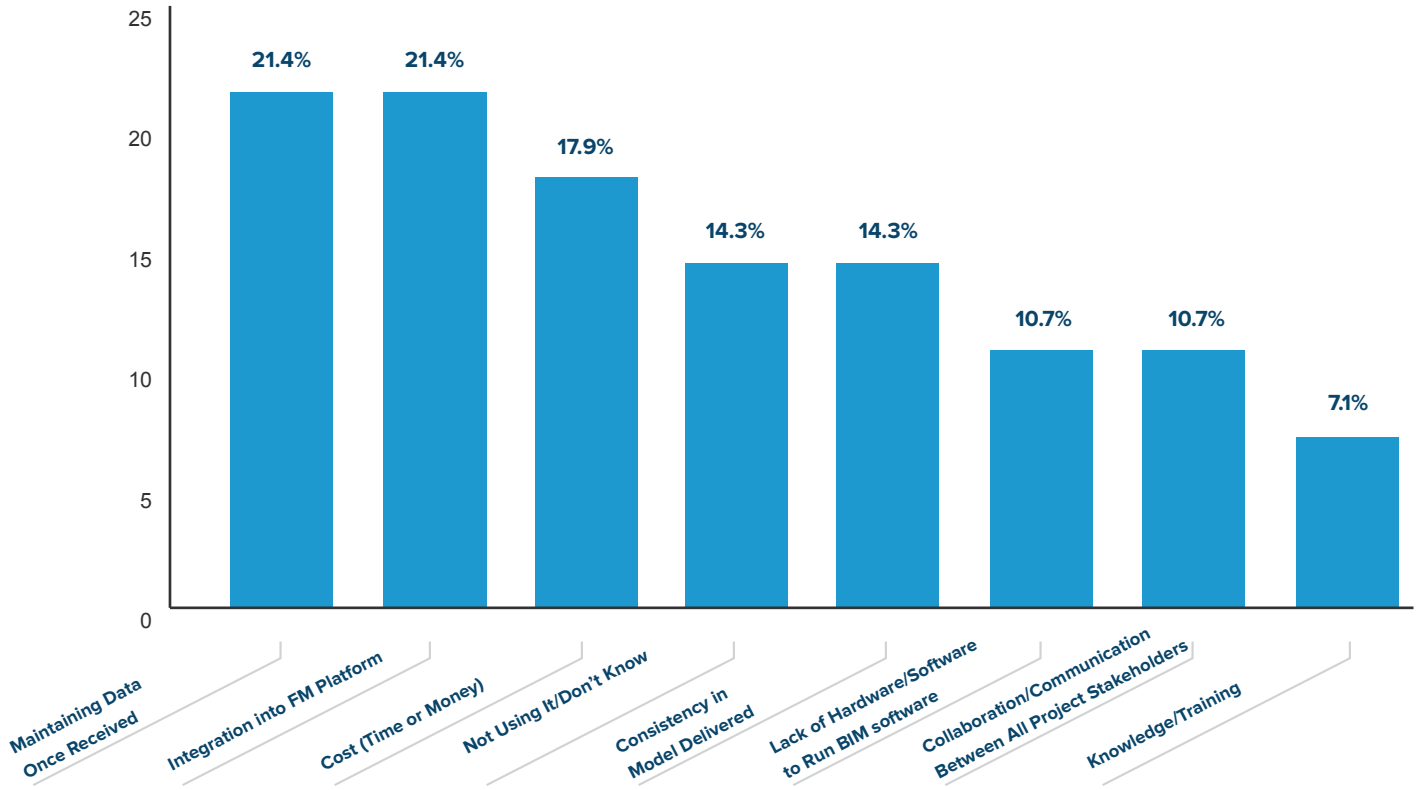
- **Firms continue to work on BIM projects.** This year, the percentage of firms reporting that they are working on BIM projects regularly remained steady at 48%, compared to 2016. The percentage of firms providing BIM or models to clients as a deliverable increased by 1.7%. In addition, 4.8% more architecture and building design firms indicated that they document a BIM Execution Plan for each project.

- **Owners are utilizing BIM data more frequently.** In 2017, the percentage of building owners integrating BIM data into a facilities management system increased 8.9%. In addition, 5.8% more owners indicated that they are converting old CAD data into BIM. As in 2016, adoption of BIM—particularly through space and asset information—is on the rise. However, significant challenges remain. Many organizations are not prepared or equipped to make the process and technology changes required for BIM adoption.



- **Integration and data maintenance issues, however, continue to be obstacles.** Owners suggested that the biggest challenges associated with using BIM data in their facilities management system were integrating the information into their FM platform (21.4%) and maintaining the BIM data once it was received (21.4%). Maintenance of data is a perennial challenge due to traditionally limited budgets in facilities management departments. However, many organizations are looking to implement BIM standards that are too complex, creating integration and data management issues.

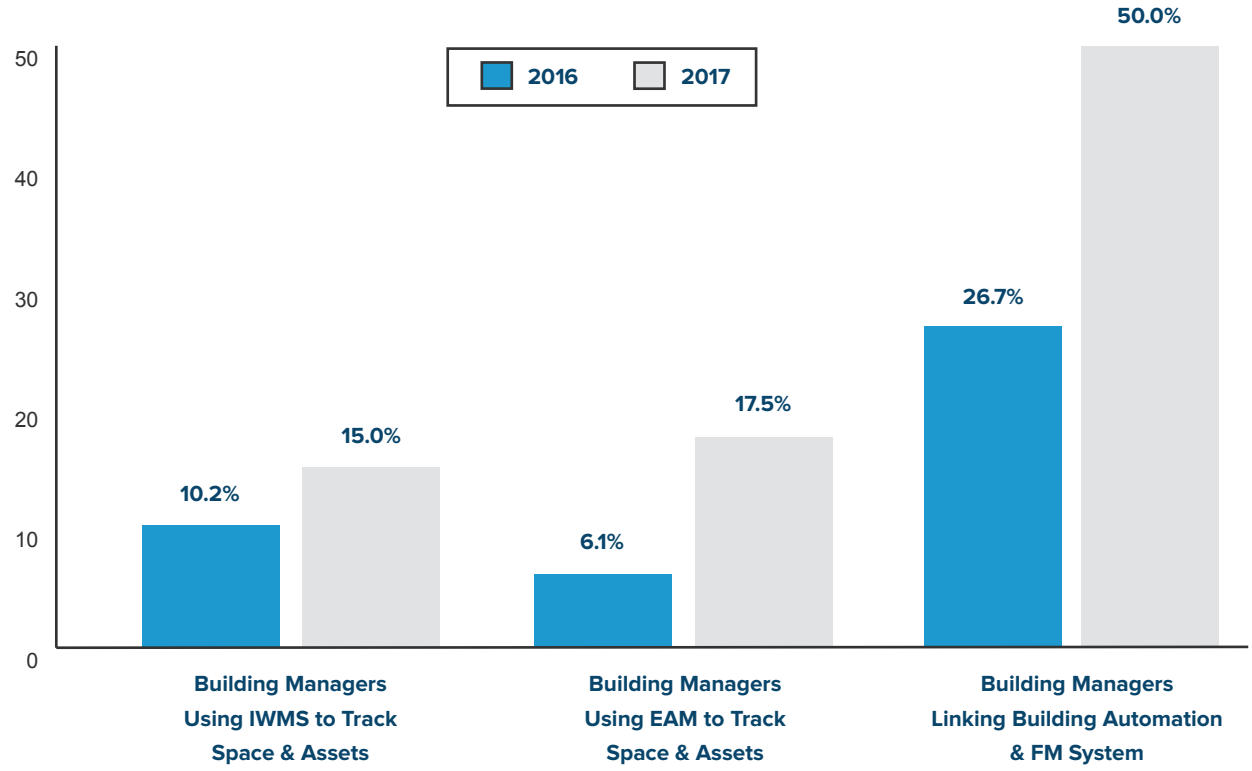
What is your biggest challenge in using BIM data within your facilties management system?



More owners are applying technology solutions to facilities management challenges.

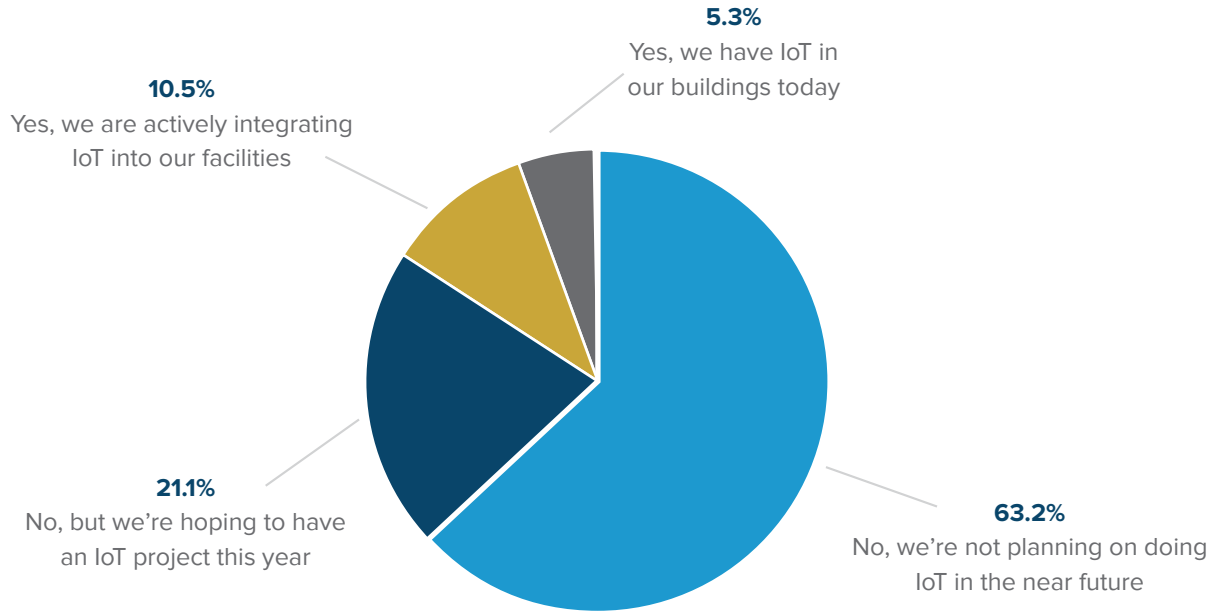
- **Adoption of facilities management systems is on the rise.** Facilities managers appear to be turning to information systems to track space and assets. This year, there was a 4.8% increase in usage of Integrated Workplace Management Systems (IWMS) and an 11.4% increase the use of Enterprise Asset Management systems (EAM) for this purpose.

- **Integration of building automation and facilities management systems is also growing.** In 2017, 23.3% more building managers indicated that they are linking these systems together.



- **The Internet of Things (IoT) has not yet gained a strong foothold in facilities management.** Only 5.3% of survey respondents currently use IoT in their buildings and 10.5% are actively integrating IoT into their facilities. While 21.1% hope to have an IoT project this year, close to two thirds (63.2%) are not planning on using IoT in the near future.

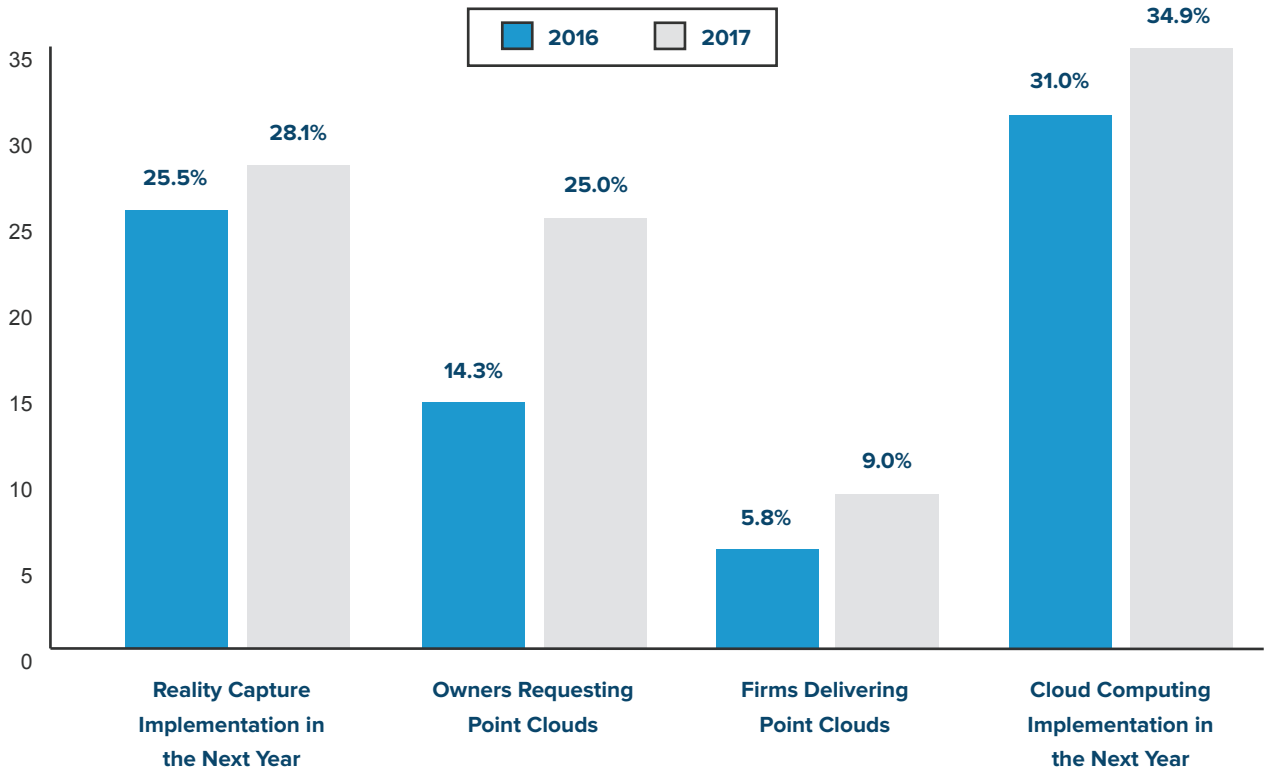
Are you leveraging IoT (Internet of Things) for facilities management?



New cloud adoption is on the horizon for the next year—point clouds and cloud computing.

- **Reality capture is of greater interest to both owners and architecture and building design companies.** This year, 2.6% more survey respondents indicated that they expect to implement reality capture this year. Owners in particular seem to recognize the value of reality capture. In 2017, 10.7% more owners indicated that they want point cloud data as a part of model deliverables and 3.2% more firms indicated that they were providing point clouds as a deliverable to clients.

- **Cloud computing continues to grow in popularity.** In 2017, 3.9% more survey respondents indicated that they expect to implement cloud computing within the next year.



We will continue to monitor these trends and evaluate how data flows throughout building projects as both AEC firms and building owners see the benefits of obtaining more information earlier in the project lifecycle. The gap between building information modeling and facilities management continues to close and key stakeholders are finding ways to address unforeseen challenges and to make more informed decisions.