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# BIM SAVES UNIVERSITY TIME AND MONEY ON RENOVATIONS

Using BIM, the facilities management department at OSU began creating 3D, digital, intelligent project models of more than 500 buildings and 35.4 million square feet of interior space on its main campus—and the savings add up.

Images courtesy of The Ohio State University

The Ohio State University (OSU) is among the top public universities in the United States and managing the facilities that serve the OSU community is no small task. The facilities information department at Wexner Medical Center at OSU undertook an ambitious initiative to bring the power of building information modeling (BIM) to the way it manages its buildings and plans for future renovations.

Outcomes achieved

- Saved time and money on planning for building renovation projects
- Improved and accelerated facilities management decision making
- Provided better building information for reduced energy consumption
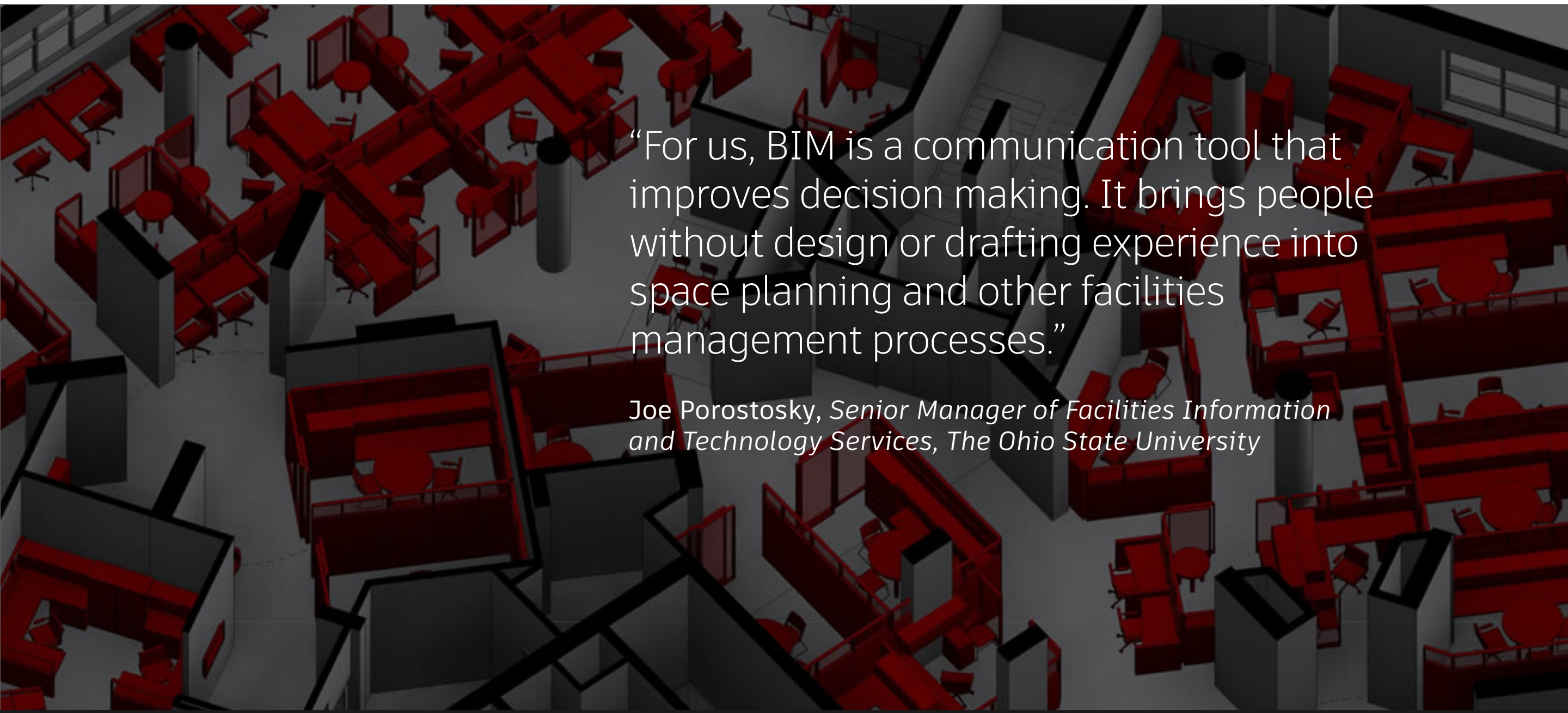
"For us, BIM is a communication tool that improves decision making. It brings people without design or drafting experience into space planning and other facilities management processes."

Joe Porostosky, *Senior Manager of Facilities Information and Technology Services, The Ohio State University*

How they did it
Ohio State's methodology

Better renovation decisions
### BIM data for more informed decision making

The facilities information team chose to use Revit to develop models of the Wexner Medical Center buildings. Getting the right details into the models gave OSU a very powerful tool to improve decision making and plan renovations. They had more than just 3D visualizations of walls and rooms; the models captured and conveyed important details about how the space was being used.

After seeing how much they could do with the medical center models, the OSU team decided to expand BIM to all buildings at the university. When planning a large or small renovation, OSU now turns to BIM to help plan the project.

Reducing energy consumption
Leveraging interoperable BIM data for energy analysis

OSU is underway with ambitious plans to drastically reduce its energy consumption—and BIM is already playing a role. The facilities information department has begun sharing its Revit models with the team conducting energy use analysis for the university. Compared to 2D plans, the facilities team says Revit models are more accurate and easier to use with the team's energy analysis software. This process is playing a key role in helping OSU achieve its goal of being carbon neutral by 2050.
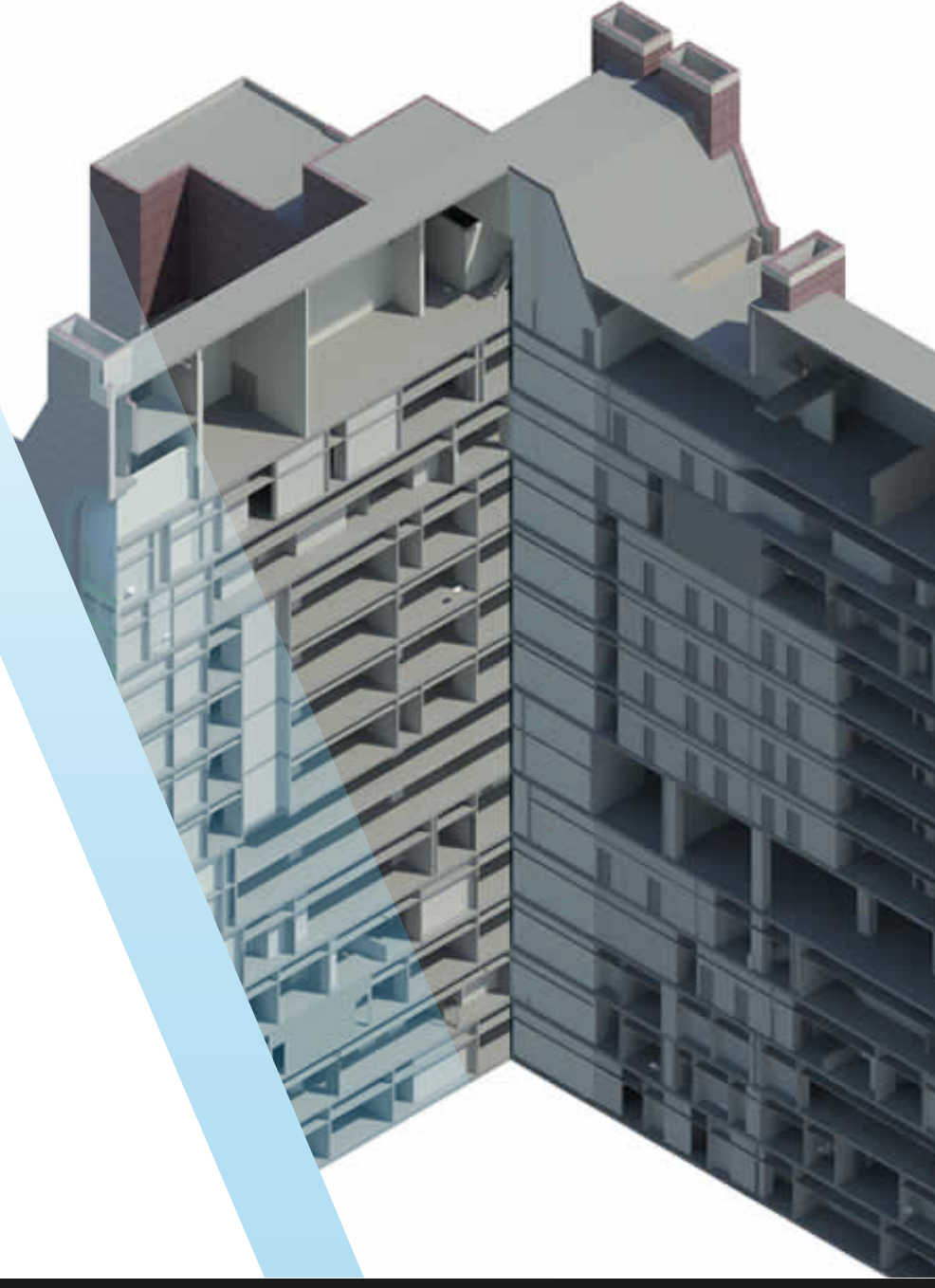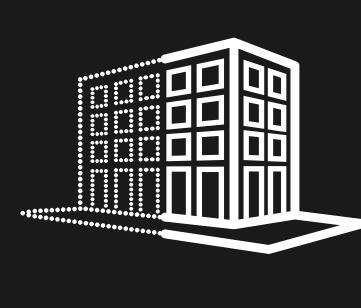
The bottom line
Key benefits of Ohio State's approach

IMPROVED BUILDING USER COMMUNICATION

CONSTRUCTION COST SAVINGS WITH MODEL-BASED PLANNING

ENERGY ANALYSIS TO MEET CARBON-NEUTRAL GOALS

"Requests for changes were common, but not anymore. [Building occupants] can now review and comment on a 3D model. We apply their preferences in Revit and secure final approval before modifying the office … making those changes after construction would've taken time and cost thousands of dollars."

Joe Porostosky, *Senior Manager of Facilities Information and Technology Services, The Ohio State University*

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