AUTODESK UNIVERSITY 2013

Partnering for BIM Lifecycle Success

Bill Meyer, FM:Systems, Senior Application Engineer - Primary Speaker

Jerry Motto, USCAD, Technical Specialist-Architecture - Co-Speaker

FM2275 - FM:Systems® Building Information Modeling (BIM) integration software enables architecture, engineering, construction (AEC), and facilities professionals to connect Autodesk® Revit®-based software models to a cloud-based system to help them manage space, plan maintenance, and more. This class explores the opportunity for AEC professionals and building owners and operators to partner on a BIM lifecycle approach to managing facilities. We demonstrate how to create and maintain a live bidirectional integration between Revit software and the FM:BIM cloud-based system. We explore how AEC professionals can work more closely with building owners to develop BIM guidelines, workflows, and methods of integrating Revit models into a full BIM lifecycle. Finally, we discuss setting up a model in Revit, including defining rooms, spaces, and assets and publishing facility plans from Revit into FM:BIM.

Learning Objectives

At the end of this class, you will be able to:

- Describe how the design team fits into the BIM lifecycle of a building
- Explain how a Revit model can be used to expand the services that design and construction teams provide to building owners
- Set up BIM lifecycle workflows, including round-tripping model information between Revit and an integrated workplace management system
- Connect a Revit model to FM:Systems BIM lifecycle solutions

About the Speakers

Bill Meyer - Senior Application Engineer, FM:Systems
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Bill Meyer began his career as an Architectural Design Specialist using AutoCAD in 1990, graduating at the top of the class at MTI in SoCal Bill began work at Fluor Daniel (the world's largest engineering and construction firm, at the time). In 1993 Bill began work for StorageTek as an Architectural Designer in their Facilities group. In 2000 Bill was handed FM:Systems software and within 3 months became the lead system administrator. Bill also provided custom reporting services and training for personnel. In 2006 Bill started his own consulting company performing installations, configurations, custom reporting, training and documentation. In 2008 Bill was hired by FM:Systems as their first Applications Engineer, continuing his work in the FM:Interact and Autodesk products.

Jerry Motto- Technical Specialist-Architecture, USCAD
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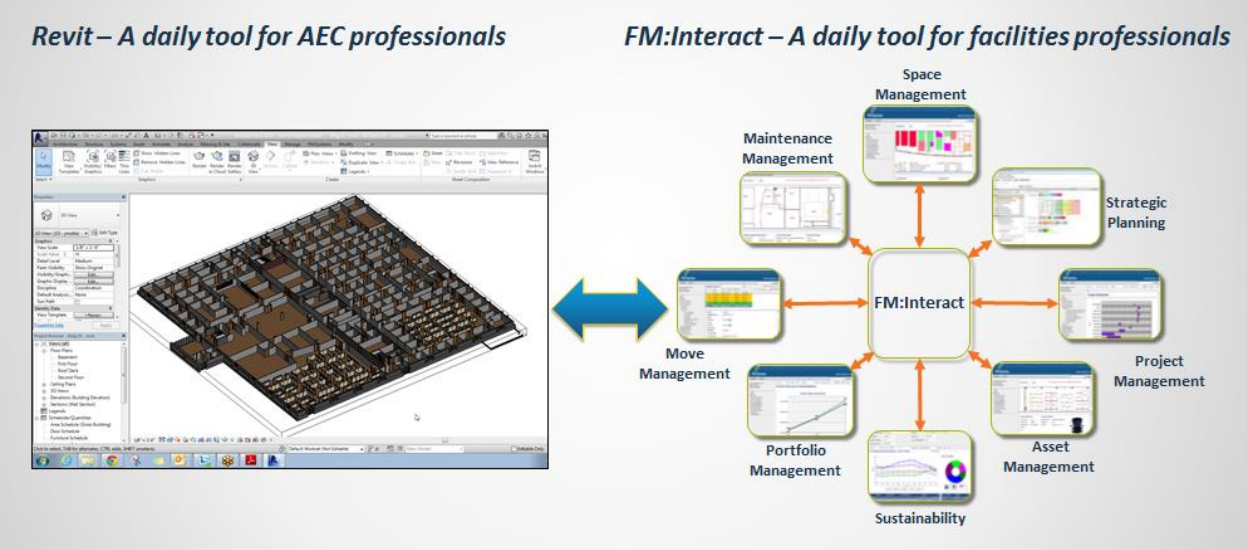
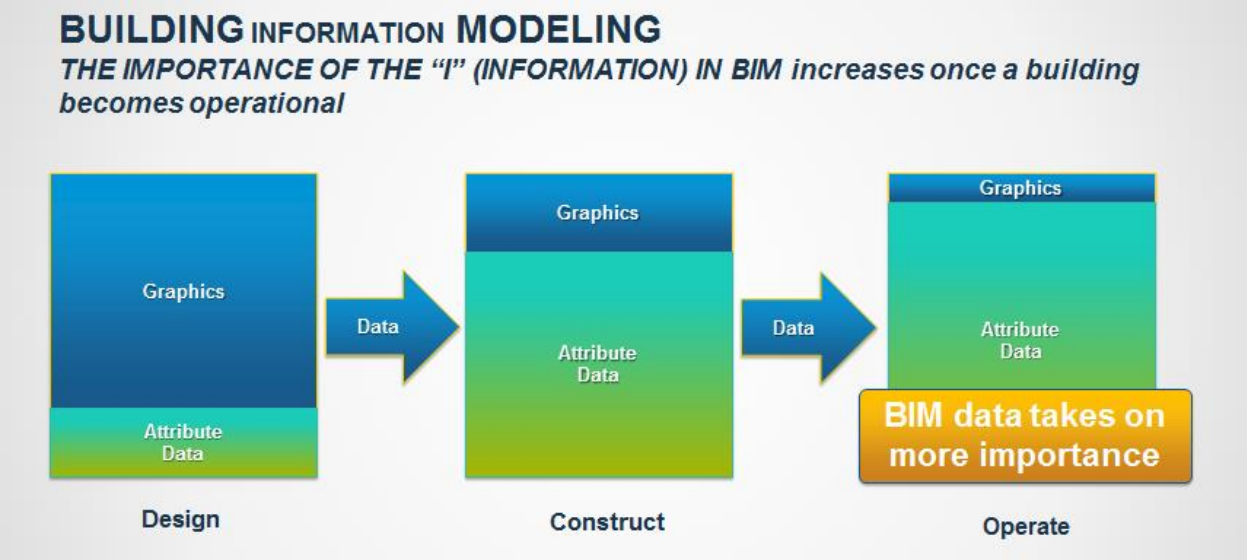
Jerry has been a Solutions Technical Specialist for U.S. CAD with over 11 years of experience in the architectural industry. Prior to joining U.S. CAD, Jerry worked as a drafter, job captain, designer and BIM Manager for various Architectural firms where he has worked on a variety of types of projects including institutional, commercial and residential projects. Jerry is an experienced Revit professional and trainer and holds associate and professional Revit certification. Currently, he helps provide implementation, customization, training, and technical support services to AEC design professionals.

Section 1 – Lifecycle BIM for AEC and Facilities Teams

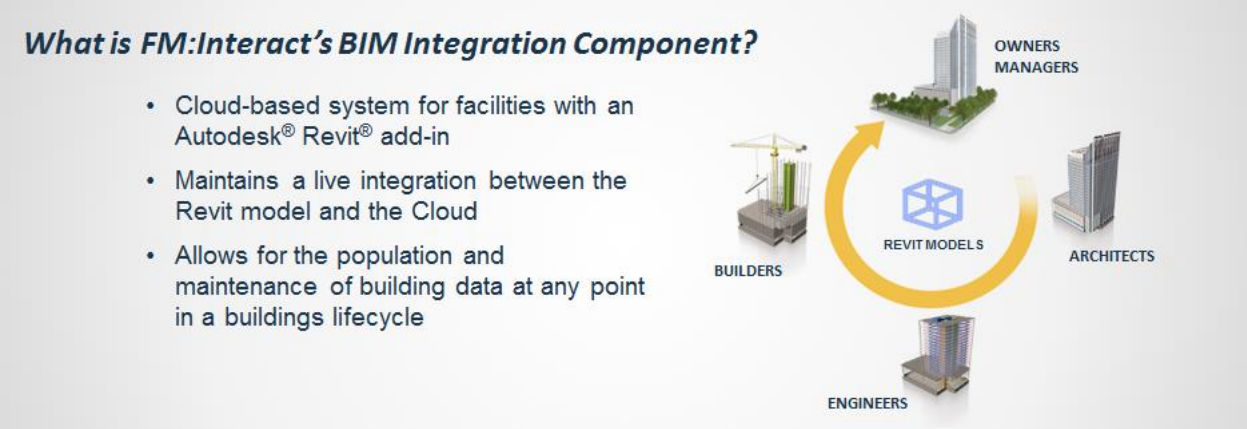
The daily tools for AEC and facilities professionals



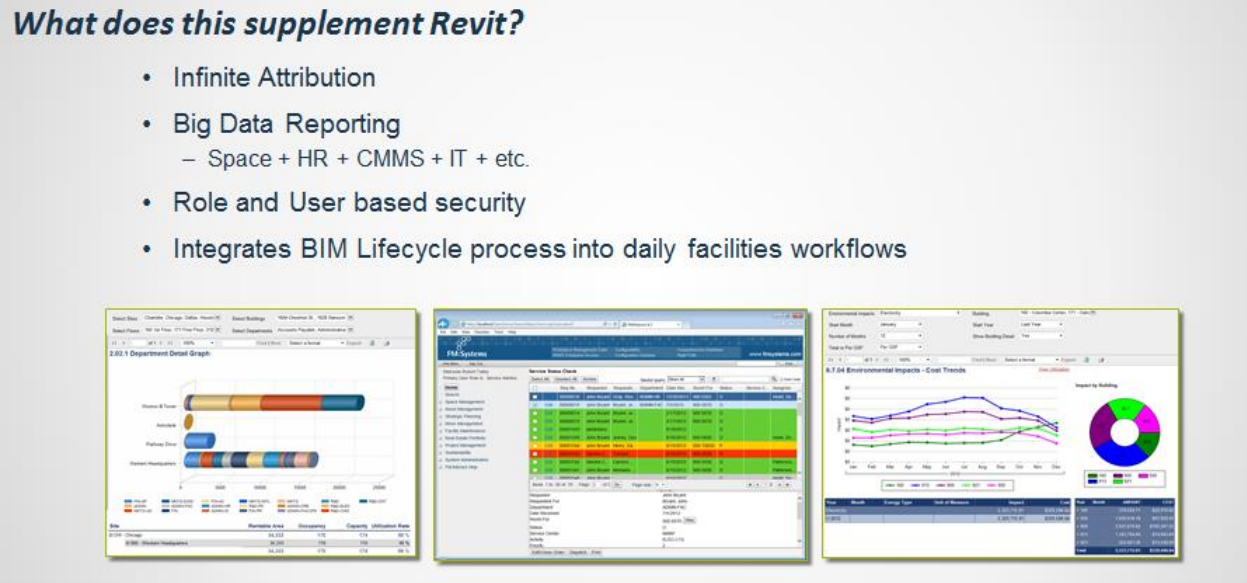
The importance of the "I" in BIM for facilities owners



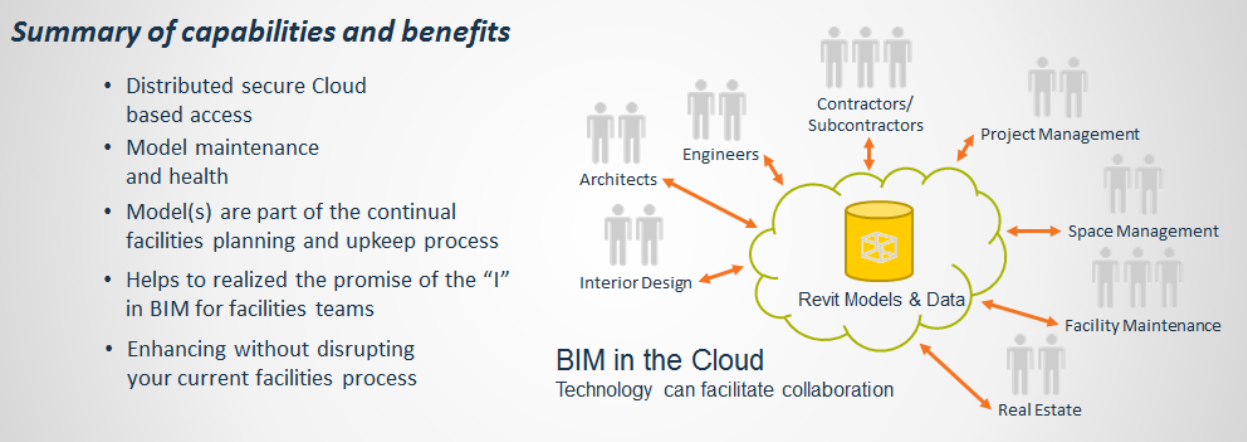
Understanding FM:Interact's BIM integration technology



Using Revit to power data that facilities teams interact with every day



Summarizing the capabilities and benefits of the FM:Systems BIM lifecycle workflow



Section 2 – Benefits for AEC in helping building owners adopt to a BIM based building lifecycle

Develop new revenue streams – With a BIM based building lifecycle you can maintain the model for your clients and publish BIM data and floor plans to a simple, easy-to-use Web-based system for space and occupancy, maintenance, and more.

Differentiate your services – You can provide a rich base of data about the building to your clients, enabling a smoother hand-off of information and helping the owner streamline commissioning, jump start maintenance processes, and plan for occupancy.

Maintain an ongoing relationship with key clients – Buildings never stop being built. With a BIM based lifecycle approach to helping building owners, your firm can help clients navigate those changes by managing the BIM models, helping you maintain an ongoing partnership with your clients to drive down the life-cycle costs of the building.

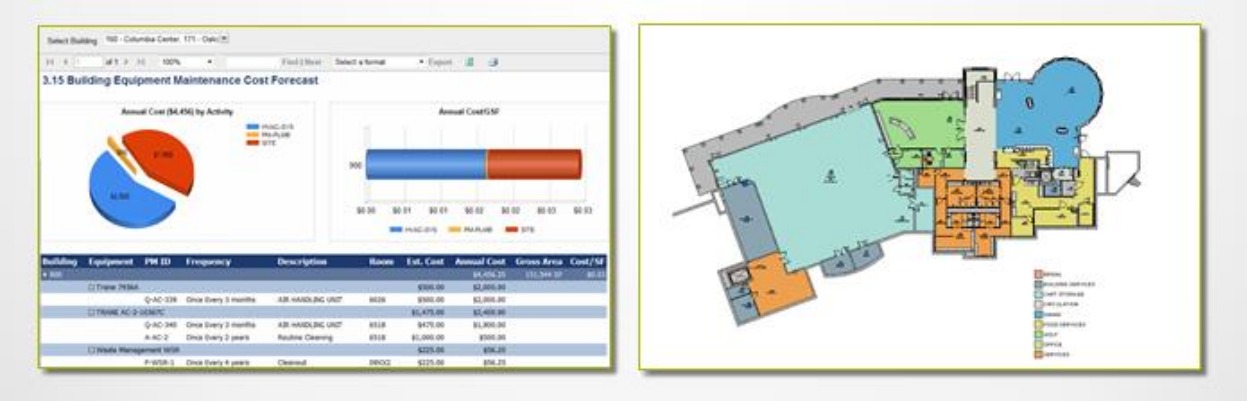
Section 3 – Benefits of Lifecycle BIM Pre and Post-Occupancy

Pre-Occupancy

- Begin space and maintenance planning
- Entering building product data and documents
- Creating inventory of building equipment
- Streamlines the AEC handover process

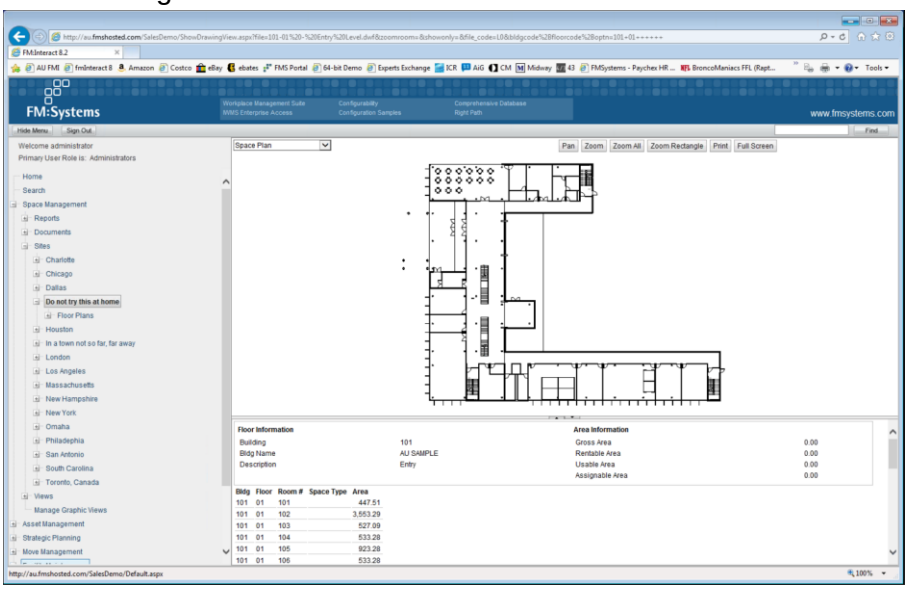
Post-Occupancy

- Smoother transition to facilities operations
- Leverages BIM investment for the building lifecycle
- Greater efficiency and Accuracy (No polylining!)
- Models are ready for future projects



Section 4 – Demonstration and discussion of the BIM lifecycle workflow using Revit and the FM:interact BIM integration component

- Bill Meyer will be in the role of a facilities team member for a Building Owner (client) who has taken on the task to convert their AutoCAD drawings to Revit as they update their portfolio of buildings



- Jerry Motto will be in the role of an AEC team member challenged with maintaining a client portfolio across multiple buildings that will facilitate a workflow that allows information gathering and asset tracking from design to facility management. The dilemma is the client has all their buildings in AutoCAD right now but would like to get existing buildings and all new buildings into Revit.