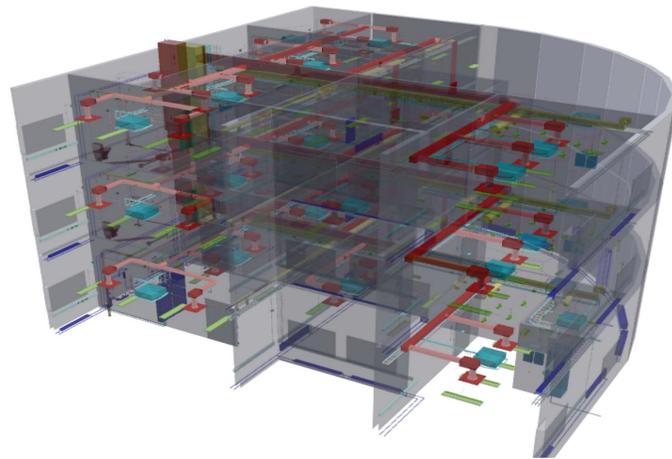


## BACKGROUND



I PRO338 BIMiIT TEAM IS SPONSORED BY THE ECA: ELECTRICAL CONTRACTORS ASSOCIATION. MEMBERS OF THE ECA ARE EXPERIENCED CONTRACTORS IN THE ELECTRICAL CONSTRUCTION INDUSTRY THROUGHOUT CHICAGO, WHO OFFER AND PROVIDE QUALITY AND COST EFFECTIVE SERVICES. I PRO338 BIMiIT'S PURPOSE IS TO IDENTIFY STRATEGIES THAT IMPROVE EFFICIENCY OF ELECTRICAL CONTRACTING PROJECTS THROUGH THE UTILIZATION OF BIM: BUILDING INFORMATION MODELING.

## PROJECT OBJECTIVES



- SUMMERIZE MAIN SOURCES OF INEFFICIENCY IN THE ELECTRICAL CONTRACTING FIELD
- TO CREATE AN INFORMATIONAL GUIDE TO HELP ELECTRICAL CONTRACTORS UNDERSTAND BIM
- DEVISE AND IMPLEMENT A PLAN FOR DISTRIBUTING THE TEAM'S RECOMMENDATIONS FOR IMPROVING EFFICIENCY TO ELECTRICAL CONTRACTORS

## TEAM ORGANIZATION

### RESEARCH

SCOTT ANDERSON  
EUNICE CACHERO  
FADE KHALEQ  
SUKWON KIM  
MICHAEL MALONEY  
SYEDA FATIMA RIZVI  
MINJEONG SON

### CONTENT

TAEHOON KIM  
SEWON LEE  
JENNIFER YI

### TECH

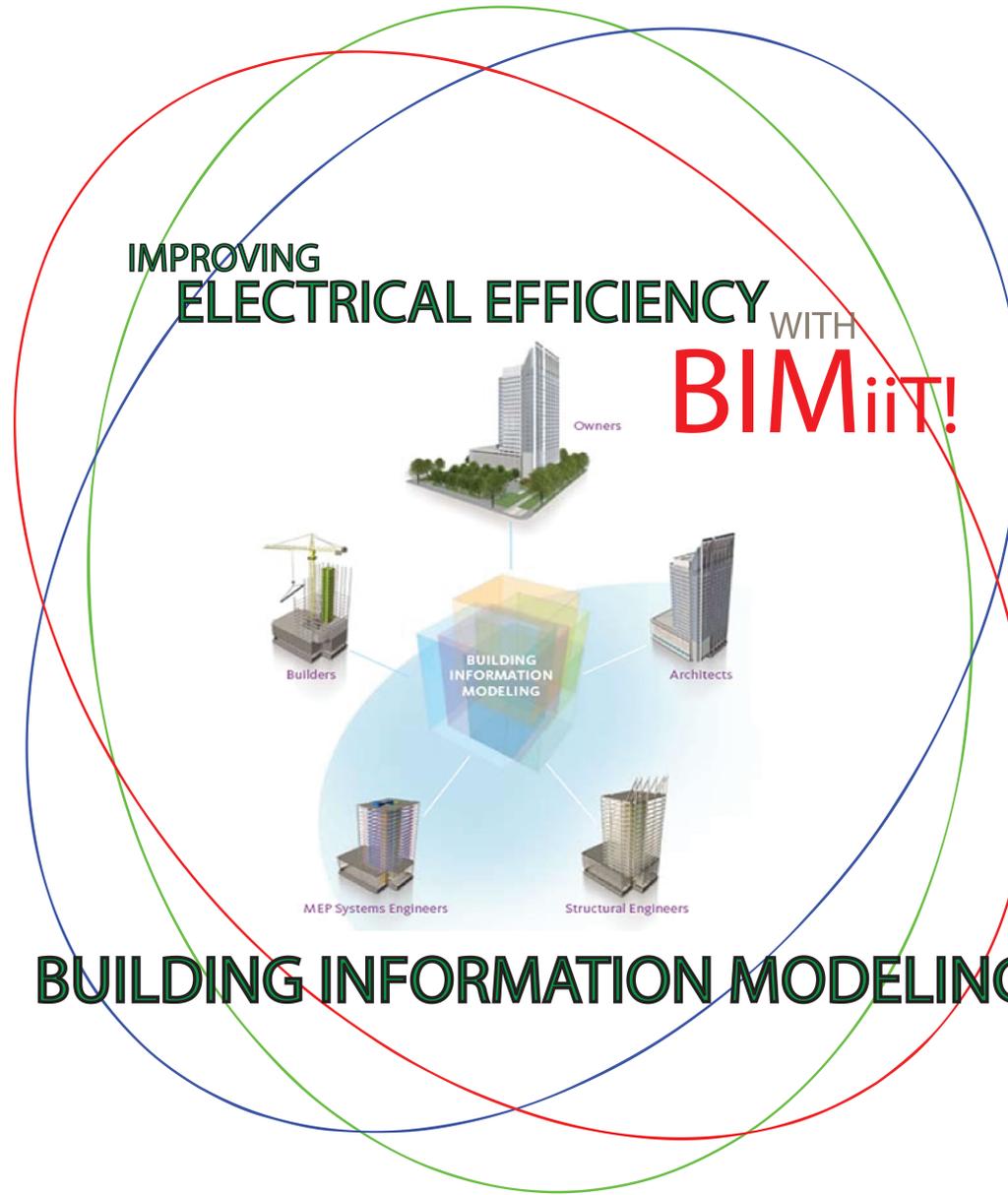
DAVID BABNIGG  
JOHN CAROLL  
CHANGHAN JUN  
LILLIAN PARK

TEAM LEADERS: JOHN CAROLL, MICHAEL MALONEY  
ADVISOR: DR. DAN TOMAL  
SPONSOR: ELECTRICAL CONTRACTORS ASSOCIATION

BIMiIT @ ILLINOIS INSTITUTE OF TECHNOLOGY  
MEMBERS OF NECA



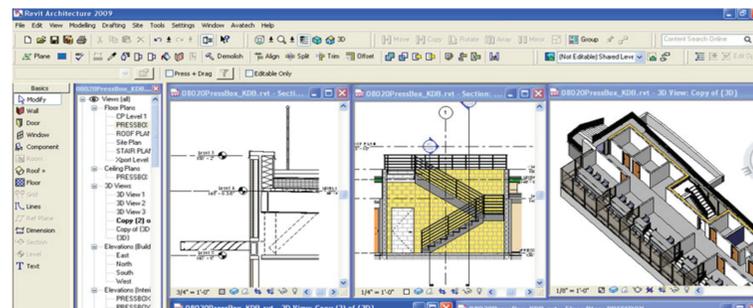
# IMPROVING ELECTRICAL EFFICIENCY WITH BIMiIT!



## BUILDING INFORMATION MODELING

## WHAT IS BIM?

BIM IS NOT A SOFTWARE.  
BIM IS AN IDEOLOGY; SOFTWARE CREATES BIM.



BUILDING INFORMATION MODELING, BIM, IS A BUILDING DESIGN METHODOLOGY CHARACTERIZED BY THE CREATION AND USE OF COORDINATED, INTERNALLY CONSISTENT COMPUTABLE INFORMATION ABOUT A BUILDING PROJECT DESIGN AND CONSTRUCTION FIELDS.

## WHY BIM?

IT IS ESTIMATED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY THAT THE CONSTRUCTION INDUSTRY LOSES ABOUT \$16 BILLION PER YEAR BECAUSE OF INTEROPERABILITY COSTS. BIM PROVIDES THE EFFICIENCY NECESSARY TO GREATLY REDUCE THESE LOSSES BY BY ACTING AS A COMMUNICATION TOOL FOR EVERYONE THAT IS INVOLVED IN THE PROJECT.

BIM ALLOWS EASY IMPLIMENTATION OF PREFABRICATED PRODUCTS, CLASH DETECTION, TOTAL STATION LAYOUT, AND SMOOTH COMMUNICATION.

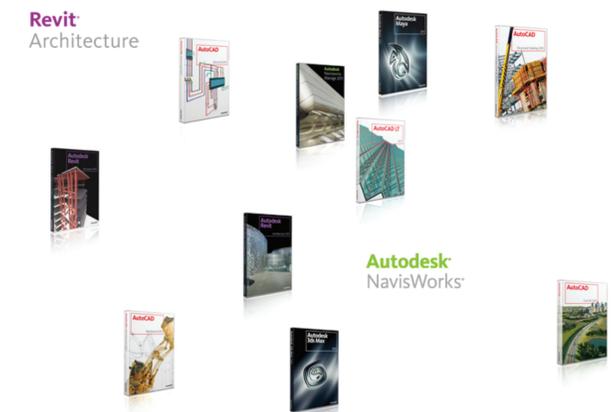
REDUCES THE NUMBER OF DRAFTSMEN BY ALLOWING MULTIPLE PROJECTS AT A TIME

BIM HAS THE ABILITY TO PLACE COMPONENTS AND EDIT THEM AS THE PROJECT PROGRESSES, WHICH SAVES A LARGE AMOUNT OF TIME.

BIM INSTANT SCHEDULE SHEETS COUNT AND ACCOUNT FOR EVERY ITEM, AND ARE FORMATTED, AND READY TO BE PLACED INTO THE DRAWING SET.



## SOFTWARES THAT CREATE BIM



## COST

Auto-CAD MEP with BIM functionality	\$5,000
AutoCAD	
Navisworks	\$8,000-\$14,000
Autodesk Navisworks	
PC with 8 gigs of ram, quad-core processor	\$4,000
Two 24" monitors	\$800
<b>Total:</b>	<b>\$17,800-\$28,300</b>

