

SODIS LAB does not only use BIM as a technological tool, it uses it as a management tool as well. Besides the famous fully integrated 3D models, your project will benefit from:

- Better coordination and development management
- Material management, planning and optimization
- Clash detection between different disciplines
- Interconnection design between different disciplines
- Direct link between 3D models and 2D plans
- Visualization & rendering
- Complex geometry design & manufacturing
- Automatic parts list generation
- Time, cost and waste reduction
- Asset management
- Optimized future work

SODIS LAB provides the following services:

- BIM project oversight
- Transformation from traditional 2D plans to 3D models
  - Structural system
  - MEP system
- Design of systems directly into BIM
  - MEP systems
  - Communication systems
  - Security systems
- Visualization
- Specialized tool development
- Operational management
- Real-time sensor system integration into BIM operational software



Benefits of BIM backed by research [1]:

- Return on investment for BIM: 140% to 39900%
- Elimination of unbudgeted change of up to 40%
- Cost estimation time reduction of up to 80%
- Contract value price reduction of up to 10%
- Reduction of project execution time of up to 7%

What other projects have identified as their benefits [2]:

- Faster project execution
- Sequencing coordination
- Less rework (less)
- Visualization
- Increased productivity
- Decreased project cost
- Improved communication between involved parties
- Improved design & engineering
- Decreased physical conflicts
- Decreased labour
- Increased safety
- Decreased amount of change orders
- Maintenance applications
- Possibility to employ prefabrication
- Improved quality
- Simulation of project build and as-built

DESIGN

CONSTRUCTION

OPERATION

References

- [1] Salman Azhar. Building information modeling (BIM): Trends, benefits, risks, and challenges for the AEC industry. Leadership and Management in Engineering, 11(3):241–252, 2011.
- [2] Kristen Barlish. How to measure the benefits of BIM — a case study approach. Master's thesis, Arizona State University, 2011.