Creating **Value** beyond the **Build**

100 years of reliable solutions for long-term success

---

**BIM and Energy Performance of Buildings**

« BIM as working today »

25th of June 2018

J. NOLET
BESIX context
A strategy for diversification

- N°1 in Belgium
- N°75 TOP 250 International Contractors
- 65% activities abroad
- 22 countries
- +90 years international activity
- +50 years experience in the Middle East
- Privately Owned
  - 50% MCI
  - 50% OCI

BESIX context
Some key projects

- Burj Khalifa
  - Dubaï - UAE
- Grand Egyptian Museum
  - Cairo - Egypt
- Al Wakrah Stadium
  - Wakrah - Qatar
BIM uses for Contracting

Visual support

Overall communication & Building permits

Material approval

Design development

BIM uses for Contracting

Visual support

4D animation

Commercial video
BIM uses for Contracting
Coordination & Integral Engineering

- Clash detection
- Model compilation
- Information Management
- BIM uses for Contracting

Systems Engineering

- Parametric Design

BIM uses for Contracting
Simulations & Analysis

- Crowd Modeling
- Design for manufacturing
- Structural Analysis
- Wind Tunnel Test
BIM uses for Contracting
Information centralization

Cost extraction & QTO’s

Drawings production

Change Management

Single source of information

BIM uses for Contracting
Construction

Construction verification

Planning control

As-is
BIM uses for Contracting
Evolution of our know-how

Key learnings

- Mass customization
- Difficulty to find adequate resources
- Success of a BIM project is more a contractual than a technological challenge
- 5D is the real challenge but also the real opportunity
- BIM is a mean and not a goal as such
BIM requires change and calls for close collaboration

Contact Us
jnolet@besix.com
0479 49 20 57