



Creating Value  
beyond the Build



100 years  
of reliable  
solutions for  
long-term success



**BIM and Energy Performance of Buildings**  
*« BIM as working today »*

25<sup>th</sup> 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



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## BESIX context

Some key projects



Burj Khalifa  
Dubai - 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

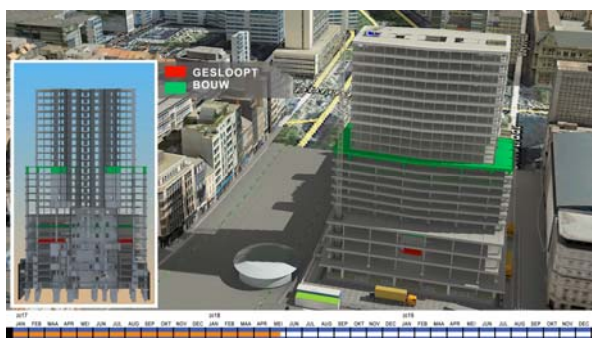


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## BIM uses for Contracting

Visual support

4D animation



Commercial video

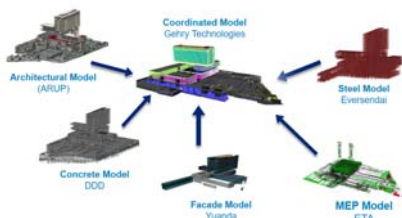


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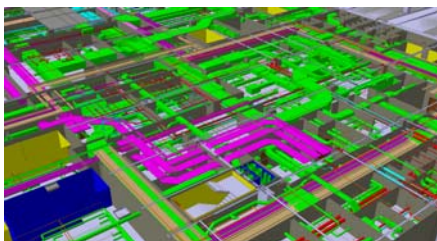
# BIM uses for Contracting

## Coordination & Integral Engineering

Model compilation



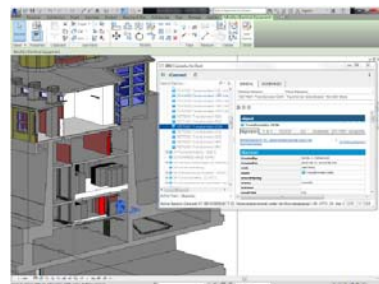
Clash detection



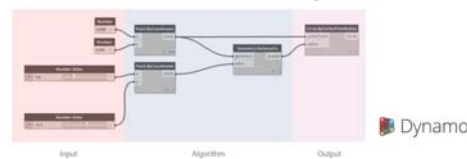
Information Management



Systems Engineering



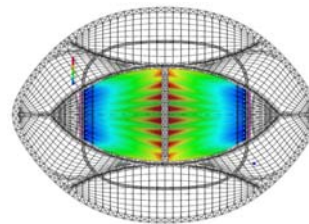
Parametric Design



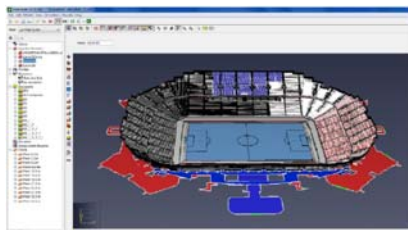
# BIM uses for Contracting

## Simulations & Analysis

Structural Analysis



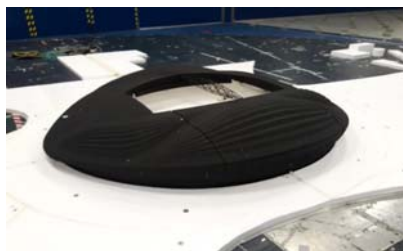
Crowd Modeling



Design for manufacturing



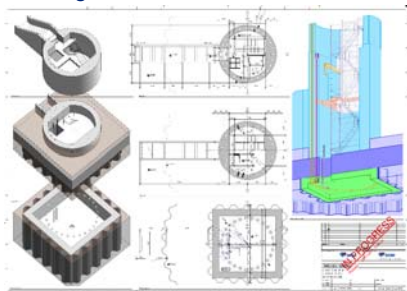
Wind Tunnel Test



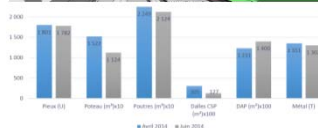
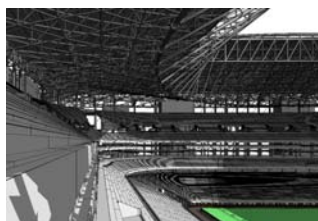
# BIM uses for Contracting

## Information centralization

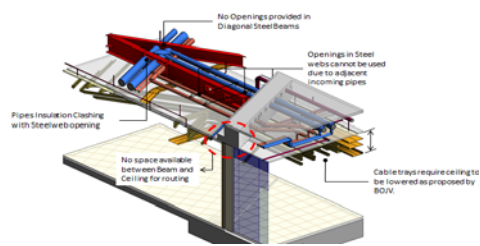
### Single source of information



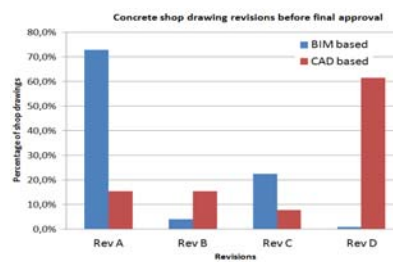
### Cost extraction & QTO's



### Change Management



### Drawings production

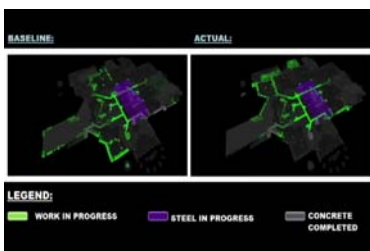


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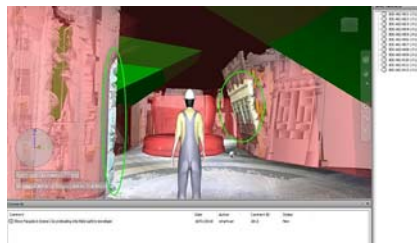
# BIM uses for Contracting

## Construction

### Planning control



### Construction verification



### As-is



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## BIM uses for Contracting

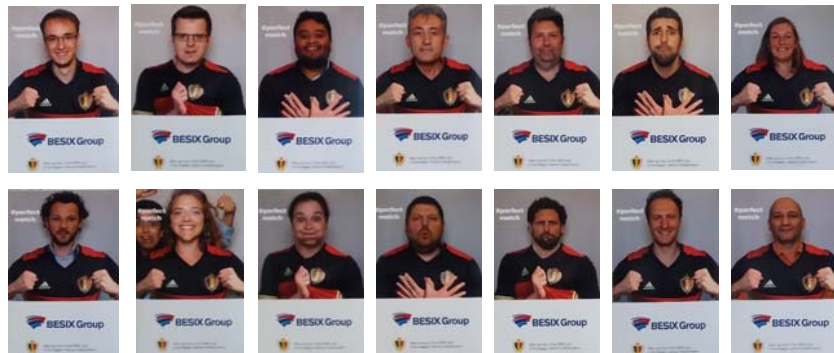
### Evolution of our know-how



## 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



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