

**BIM = key in pressing search for more sustainable solutions**



# BIM Task Force

# 2018-2019 activities



## ■ Monitoring CEN/TC 442, in charge of BIM standardisation

- Participating in CEN/TC 442 plenary session – Liaison report to TC 442
- Participating in Working Group session and common session with ISO/TC 59 WG 13
- Reporting to the BIM Task Force

## ■ buildingSMART International Summit (Tokyo, 16-19 October 2018)

## ■ ‘Digital project for Construction in Europe’ project (DigiPLACE )

## ■ EFCA booklet

- to provide guidance to the firms for introducing the ISO 19650 standard

# 7 December 2018: launch ISO 19650



[Home](#) > [All about ISO](#) > [News](#) > [News archive](#) > [Better building with new International Standards...](#)

## Better building with new International Standards for BIM

# BIM today

- ❖ In Europe, most of the big projects are now in BIM level 2:
  - Building and Infrastructure
    - ✓ e.g. Hinkley Point C nuclear power station (HPC)
    - ✓ Egis : €400 millions in design delivered under BIM in 2020
- ❖ Open BIM with IFC is becoming a standard:
  - IFC Bridge, IFC Rail, IFC Road, IFC Harbour, IFC Tunnel in ISO for 2020

(% d'utilisation BIM)

|                              | 2016      | 2017       | 2018       | 2019       | 2020       | 2021       |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| MOA                          | 23%       | 26%        | 42%        | 54%        | 64%        | 73%        |
| MOE                          | 37%       | 50%        | 62%        | 80%        | 92%        | 99%        |
| Entreprises*                 | 1%        | 3%         | 23%        | 55%        | 79%        | 94%        |
| Industriels                  | 20%       | 35%        | 59%        | 83%        | 99%        | 99%        |
| Exploitation - Maintenance** | 8%        | 12%        | 31%        | 59%        | 80%        | 94%        |
| <b>Global</b>                | <b>8%</b> | <b>12%</b> | <b>31%</b> | <b>59%</b> | <b>80%</b> | <b>94%</b> |

\*Retraitement chiffres PTNB

\*\*Pas de source PTNB

# Table of Contents

Abbreviations .....

Preface .....

## 1. Introduction .....

- 1.1. ISO 19650 and BIM .....
- 1.2. Aims of publication .....

## 2. ISO 19650 Standard .....

- 2.1. Introduction .....
- 2.2. ISO 19650 'Part 1: concepts and principles' .....
- 2.2.1. ISO 19650 in the life cycle .....
- 2.2.2. Definitions used in project management .....
- (a) Building Information Modelling .....
- (b) BIM Execution Plan .....
- (c) Level of information need .....
- (d) Information container .....
- 2.2.3. Two key concepts for consulting engineers .....
- (a) Common Data Environment .....
- (b) Requirements management .....
- 2.3. ISO 19650 Part 2: 'Delivery phase of the assets' .....

## 3. Important issues for managing BIM (but not covered by ISO standards) .....

- 3.1. Project management and BIM .....
- 3.2. Processes .....
- 3.3. Common Data Environment .....
- 3.4. Exchanging/sharing information in a BIM process .....
- 3.5. Effective BIM implementation from a project manager perspective .....
- 3.6. BIM deliverables – reusability .....

## 3. Important issues for managing BIM (but not covered by ISO standards) .....

- 3.1. Project management and BIM .....
- 3.2. Processes .....
- 3.3. Common data environment tools .....
- 3.4. Exchanging / sharing information in a BIM process .....
- 3.5. Effective BIM implementation from the perspective of a project manager .....
- 3.6. BIM deliverables – reusability .....
- 3.7. Education and training .....

## 4. How to implement BIM according to ISO19650 .....

- 4.1. Contents .....
- 4.2. Level of definition / level of information need .....
- 4.3. BEP and information management .....
- 4.4. BIM uses .....

## 5. Impact on contracts .....

- 5.1. Intellectual ownership .....
- 5.2. Software tools .....
- 5.3. Liability .....
- 5.4. FIDIC impact .....

# Next steps

---

- ensure a leading position in the debate on security and safety of BIM storage and software in ISO 19650 part 5
- develop the European industry's policy statement on the use of cloud services, bringing special focus to issues related to security, financial concerns and economic sustainability, classification, data ownership & transfer, access/user/storage rights, and regulation
  - as member of the EU project 856943 (DigiPLACE)
- organise debate and action on EFCA recommendations to positively influence legislators/policy makers at national/European level

# Thanks to the EFCA BIM 'TEAM'

Ingrid Alvsåker, Ioannis Ladopoulos, Maximilian Grauvogl, Jan Van der Putten,  
Christophe Castaing (Chair),

Veljko Janjić , Michel Bernard, Daan Alsem

and Joseph Ickmans, Ondřej Budík , Stig Brinck, Jørgen Storm Emborg, Antonio  
Vettese, Szymon Dorna and Boban Djordjević

