



France presentation

1. Plan BIM 2022
2. MINnD

French Strategy for digital transformation

General Assembly
EU BIM Task Group

10/01/2019

Brigitte Jacquemont, Ministry for Ecological and Inclusive
Transition

Benoit Senior, ADN Construction

Souheil Soubra, CSTB





Plan Transition Numérique dans le Bâtiment

- On December 10th 2014, the Minister of housing Sylvia Pinel announced the launch of the Digital Transition Plan in order to accelerate the deployment of digital tools within the construction industry
- 3 years budget of **20 M€**
- The Minister then nominates Bertrand Delcambre as a president of the steering Committee of this plan



Plan Priorities

1. Convincing and inspiring all stakeholders, especially project owners
2. Responding to stakeholders needs for equipment and improved digital skills, particularly among SMEs and micro-businesses
3. Develop a trusted digital ecosystem including encouraging standardization work in order to facilitate the interoperability of software and standardized access to information on materials, products, equipment and systems.

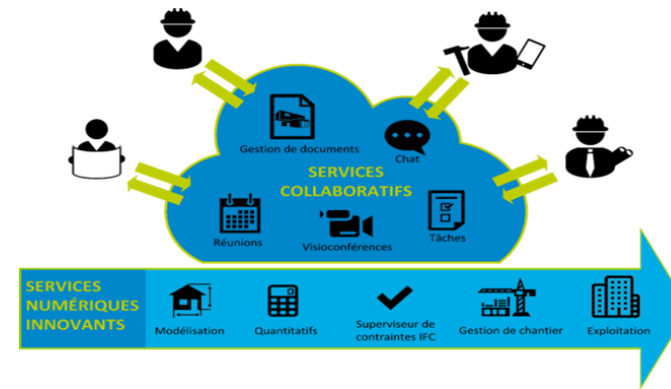
Governance structures

- A **steering committee** brings together government representatives and construction industry stakeholders: construction companies, architects, engineering firms, contractors, insurers...
- Professional organisations are involved in strategy, project definition and action plan implementation:
 - ✓ virtuous circle
 - ✓ open and proactive dialogue with stakeholders
 - ✓ continued support for innovation.
- The steering committee is supported by a **technical committee** (stakeholders representatives and experts) responsible for producing the technical, legal and financial response to needs expressed by the Steering Committee

Flagship initiative: a Digital Platform for Construction

3 main aspects

- **Support of open-Standards**
 - ✓ IFC, BCF, ect.
- **Collaborative Platform “for” SME**
 - ✓ Avoid the digital gap with SME (free of charge)
 - ✓ Answer the needs of professionals : simplicity, reliability, security
 - ✓ Initiate a dedicated digital marketplace with start-ups and software vendors
- **Digitalisation of rules**
 - ✓ Automatic checkers to support BEP
 - ✓ Code checking (acoustics, fire safety, accessibility, ...)





Association pour le Développement
du Numérique dans la Construction



CSTB
le futur en construction

Plan BIM 2022

- January 2019: Launch of Plan BIM 2022 by the French minister Julien Denormandie
- President: Yves Laffoucrière – Former president of Immobilière 3F (major social landlord)
- Steering Committee: government representatives and construction industry stakeholders: construction companies, architects, engineering firms, contractors, insurers...
- 2 project's holders : ADN Construction – CSTB
- 2 axes - 8 actions
 - Generalize the order in BIM for the construction sector.
 - Deploy BIM nationwide for all type of stakeholders
- Budget : 10M€



Plan BIM 2022



- 8 actions :
 - Secure order and BIM contracts
 - Simplify control and autocontrols of construction projects
 - Standardisation
 - National Observatory of the digital in construction sector
 - Develop user friendly learning tools
 - Measure BIM maturity
 - Foster a dynamic ecosystem allowing all the stakeholders to discuss and exchange on a local scale
 - Support the development of the national BIM platform: Kroqi

BIM for Infra MINnD



modelling of interoperable information for sustainable infrastructure

Christophe Castaing @egis



Ministère de la Transition
écologique et solidaire







2019 - 2021

Chairman: Bernard Schaer

Directors: Pierre Benning (Bouygues TP), Christophe Castaing (Egis)

Budget: 5 M€ of resources
including 1,2M€ in cash by the Partners

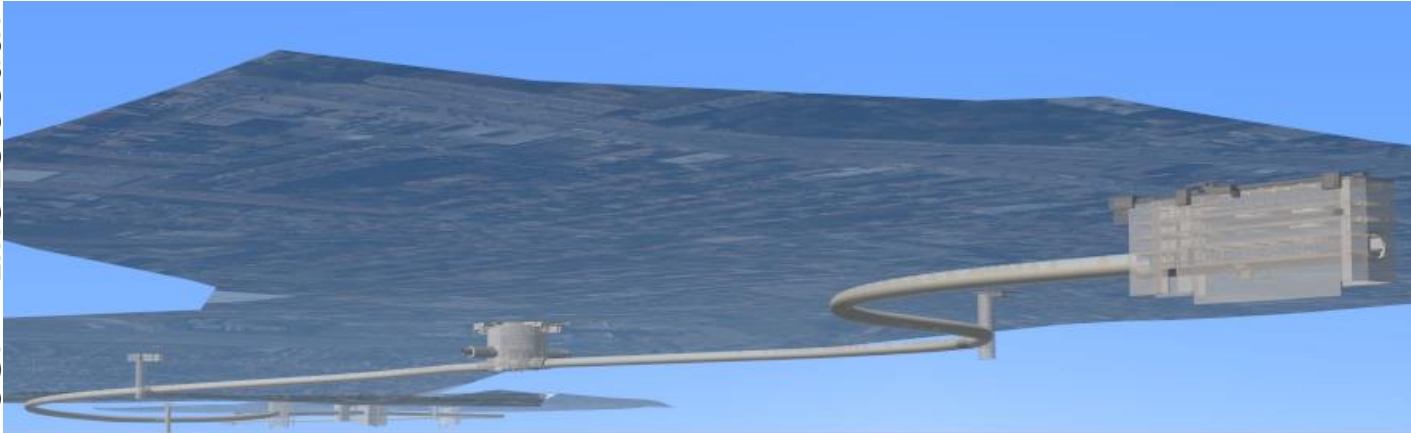
BIM & infrastructures:

modelling of interoperable information for sustainable infrastructure

Supported by the French ministry for an ecological and inclusive transition, in charge of the Construction sector

- › Launched in 2014, the MINnD National Research Project worked on structuring information used to model infrastructure in its design, construction and operation phases.
- › recognized as a structuring project, guaranteeing a shared public/private vision, at national and international levels
- › In 2014, unique approach in Europe (except Finland) .
- › many deliverables already available :
 - common guidance MINnD and BuildingSmartFrance for:
 - BEP implementation compliant with Iso 19650
 - Project georeferencement

SGP – Line 15 South



MINnD in the IFC roadmap

- 1-1 IFC Bridge
- 1-2 IFC Rail
- 1-3 IFC Road
- 1-4 IFC Tunnel
- 1-5 IFC Geotechnics
- 1-6 IFC Earthwork



§ 1.7 Archiving



- › Collaboration
- › Data structuring / Data qualifying
- › Digital continuity
- › BIM-GIS convergence
- › System engineering
- › Heritage and Asset management



Beyond BIM: Digital engineering !

- › Data responsibility (changes & decision tracking)
- › Data right (access & storage)
- › Intellectual property (know-how protection)

