

# Trinity Tower, Paris, France



FRANCE



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## 1. Project content:

The project is to build an office tower of 50 000m<sup>2</sup> on 31 levels and 135m (from public access) on top of the exit of a motorway in the business district of Paris la Défense. BIM is not mandated by the client Unibail and VINCI Construction France took the advantage to choose to go to FullBIM as the first really FullBIM project of the company in France.

## 2. Project participants:

The participants to the BIM initiative on that project are the General Building Contractor and its direct subcontractors : VINCI Construction France Bateg and Sogea TPI subsidiaries and their internal engineering departments, VINCI Energies Phibor, Lefort-Francheteau, SDEL subsidiaries and their subcontractors, Balas, Thyssen and central BIM Engineering departments of VINCI Construction France for almost all the FF&E subcontractors. As supplier for the Climbing Formwork VINCI involved PERI for the delivery and design.

## 3. Reasons for BIM? (Why are you doing BIM?)

BIM because the construction project manager thought it would be a good thing for the Project in terms of risk mitigation and quality, and so decided to embrace the revolution and push/help all the project team to move to BIM.

## 4. Target definition

Ease the engineering of a formerly 2D project, manage the complexity of the project and of the site, stakeholders transparency

## 5. Reference to national requirements

None. The project uses the VINCI Construction France national requirements. There are no national standard defined or required

## 6. Overview of BIM use cases along project phases:

Better coordination in between each job but also within each job, 2D quality, QTO, site modeling (due to site complexity), real estate program adequacy, contract evolution tracking, project review, as-built classification, 4D, link with survey, AR, VR, engineering dashboarding, use of the BIM on site.

## 7. Presentation of BIM use cases (main focus of the presentation):

The presentation will propose a feedback on 5 uses: existing condition scan and modeling, formwork and pouring modeling, MEP coordination, use of Peri Library, BIM on site with Digital Totem, BIM onsite with AR.

## 8. Lessons learned

To spread BIM in the DNA of your project, take good care of humans

## 9. Benefits

The benefits are in the quality and safety by design of the project and in the most terminal uses like AR and on-site technical communication. The investments are in final design phase with a better understanding, definition and coordination of the project. Globally, on this kind of project it is too hard to calculate a ROI of such a revolution which still requires financial and personal investment of the management.

