

Bouygues Bâtiment  
International.

Customer Success Story

Autodesk® Revit® Architecture  
Autodesk® Revit® MEP  
Autodesk® Revit® Structure  
Autodesk® Navisworks®  
Autodesk® Ecotect® Analysis  
Autodesk® Quantity Takeoff  
Autodesk® Consulting

Using the Autodesk Revit family of software products, together with Autodesk Consulting, completely changed our perception of the different phases of the Malabo project. The result has been faster, more efficient processes and much better results.

—Karim Mechri  
BIM Manager  
Innotech  
Bouygues Bâtiment International

# Joining the club.

Bouygues Bâtiment International builds the Malabo Clubhouse with building information modeling and Autodesk.



Image courtesy of Bouygues Bâtiment International.

## Project Summary

Nearly six decades ago, Francis Bouygues founded Le groupe Bouygues with ambitious plans to service the building industry in and around Paris, France. It wasn't long before the company was expanding both in services and territory, providing property development, industrial precasting, and construction services in some 80 countries around the world. With a workforce of more than 145,000 people, the company has been run by CEO Martin Bouygues since 1989 and shows no signs of slowing down.

For the last decade or so, Bouygues Bâtiment International, a division of Le groupe Bouygues, has relied on AutoCAD® software to create 2D construction documentation. After much deliberation, however, the company selected the third and final stage of a recent project in Malabo - the capital city of Central Africa's Republic of Equatorial Guinea - to move its methodology and workflow to building information modeling (BIM) and software based on the Autodesk® Revit® family of software products. With help from Autodesk® Consulting, the Bouygues BIM team went about establishing a whole new way of working.

## The Challenge

"Moving to BIM was definitely a challenge," says Karim Mechri, BIM manager at Innotech, Bouygues Bâtiment International. "This was the first project that would be fully realized using 3D technology. We had to be sure it would work."

To that end, the company formed a task force for a long-term study examining the benefits of BIM and determining the best way of working with this new methodology. In the end, the firm chose Autodesk Revit software and Autodesk Consulting to help the transition.

# Bouygues worked from a single, shared building information model, leading to better collaboration, and creative design.

## The Solution

To make the move to BIM smoother, Bouygues used a combination of Autodesk® Revit® Architecture, Autodesk® Revit® MEP, Autodesk® Revit® Structure, and Autodesk® Navisworks® software to help design and build the Malabo Clubhouse, a luxurious structure that will join a football stadium and Olympic-sized swimming pool. In addition, Bouygues entered an agreement with Autodesk Consulting that included the BIM Global Implementation Methodology for implementing 3D-based design, including project assessment, BIM methodology definition and 3D model creation, high-level training, implementation, support, on-site mentoring, and follow-up activities. The company also took the opportunity to evaluate Autodesk® Ecotect™ Analysis and Autodesk® Quantity Takeoff software.

“Using the Autodesk Revit family of software products, together with Autodesk Consulting completely changed our perception of the different phases of the Malabo project,” says Mechri. “The result has been faster, more efficient processes and much better results. The Autodesk Consulting Global Implementation methodology brings consistency to all phases of the creative process, including bidding, architectural design, structural analysis, MEP implementation, and more. Understanding and decision making across the disciplines is much better, leading to more objective, balanced points of view.”

From multiple 2D documents used by a variety of isolated collaborators, Bouygues worked from a single, shared building information model on the Malabo Clubhouse project, leading to better coordination, collaboration, and creative design.

## The Result

The success of the Malabo Clubhouse has reinforced Bouygues’ decision to embrace BIM, Autodesk software, and Autodesk Consulting services.

“Initially, our team was somewhat reticent about this change in methodology,” says Mechri. “After trying it out, however, it is clear that this is simply a better way of working. With Autodesk Revit and building information modeling, we have a more efficient method of making important changes earlier and across the project. As a result, all stakeholders in all disciplines have a better understanding of the project as a whole. This technology has opened our minds and our methods to new ways of thinking and working on even our most challenging projects.”

The Bouygues team will soon face one such challenging project when they begin designing nine buildings for an even bigger project in Qatar. Once again, the company will use BIM, Autodesk software, and the expertise of Autodesk Consulting to help get the job done.

“We believe the Autodesk Revit-based products are excellent and ideally suited to our projects” says Mechri. “We look forward to working with the software and with Autodesk Consulting on all our future projects.”

To learn more about Autodesk Consulting, visit, [www.autodesk.com/consulting](http://www.autodesk.com/consulting).



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