

# A realization of 1Point2

Designation: **Evacuation for the « Stade de la Paix »**

Client: Mota-Engil – José Cascao, for Côte d'Ivoire

Date: 2020

## Brief description of the project:

As part of the African Nations Championship in 2021, the Stade de la Paix in Bouaké (Côte d'Ivoire) must be rehabilitated to be able to accommodate 40,000 spectators (currently 25,000) while respecting the standards requested by CAF (Confederation of African Football).

IFC files were provided by the client Mota-Engil in order to retrieve the exact dimensions of the stadium. The simulated scenario involves a population of 40,000 spectators during a football match, the objective being to verify that the evacuation of the stadium is complete in less than ten minutes.

Simulations have shown that the total evacuation can take place in less than eight minutes.

However, the simulation highlighted bottlenecks forming at the entrance to the vomitorium of the general public bleachers, where the flows of all the adjacent bleachers are concentrated, and this is a potential risk of jostling, crushing, etc.

Thus, even if the objective is reached, measures are recommended to optimize evacuation, in particular by allocating the bleachers to the various vomitorium, and also by allowing the evacuation of the bleachers of the lower levels using the stadium lawn.

The exits to the outside are not saturated and although there is heavy traffic on the vomitorium stairs, it remains fluid.

