

STADIUM EGRESS AND BLEACHERS CONNECTION TO STAIRS AND EXIT PLATFORM

FEMTC 2022

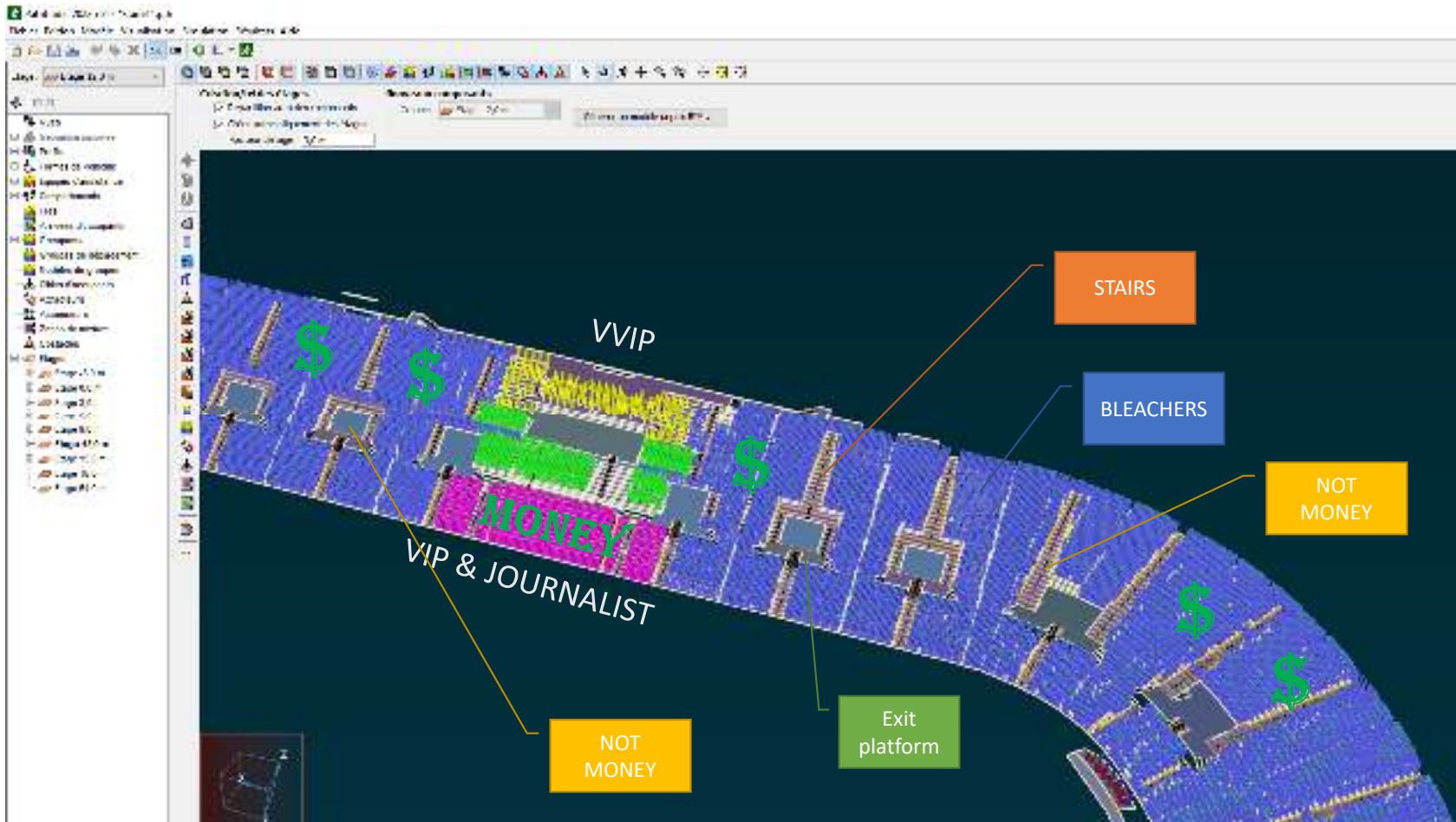
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FIFA requirement : more than 20K Stadium egress in less than 8 min

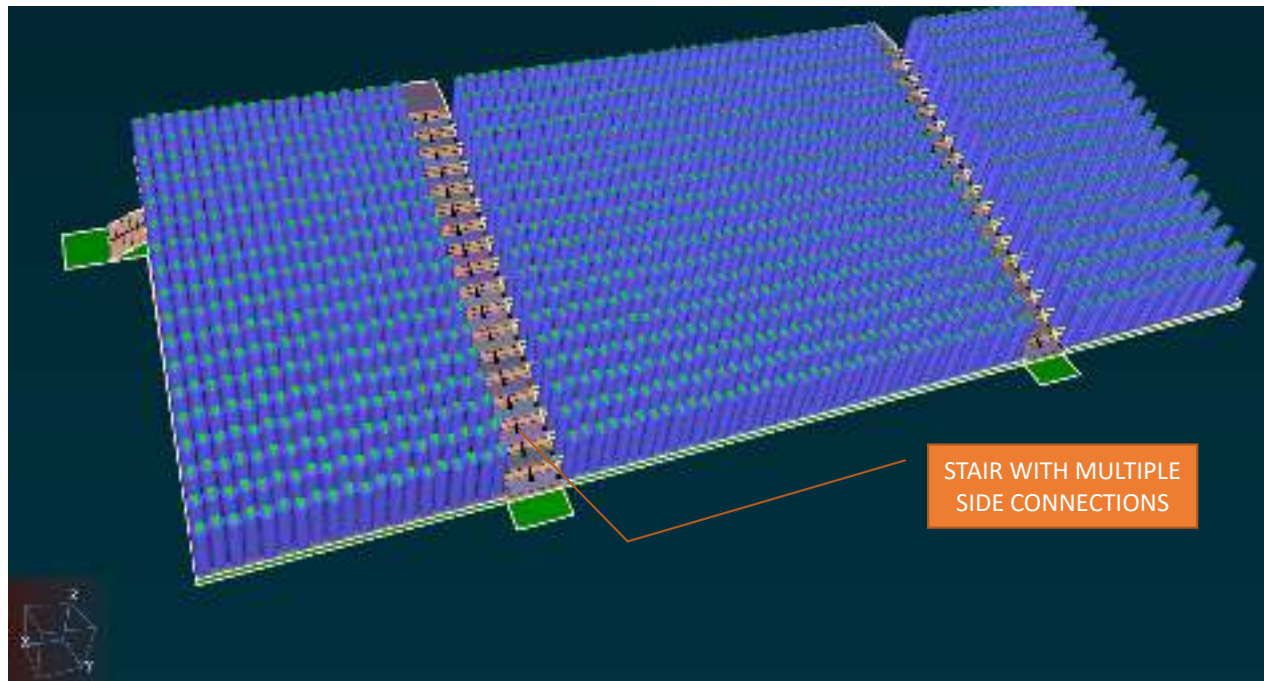


Safety Vs Money, a competition for space



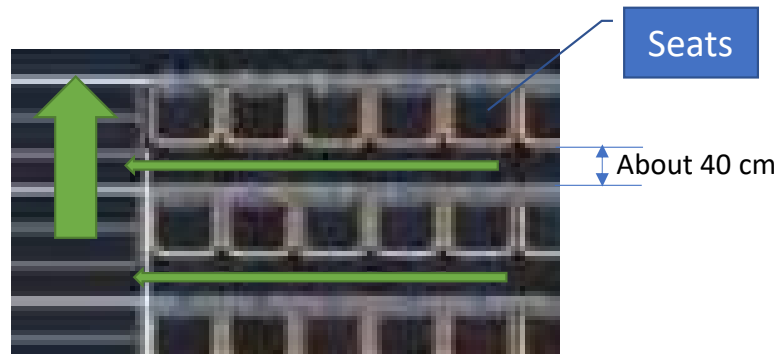
STADIUM SPECIFIC GEOMETRY CHALLENGE FOR PEDESTRIAN SIMULATION SOFTWARE

STAIRS ARE CONNECTED BY THEIR SIDES



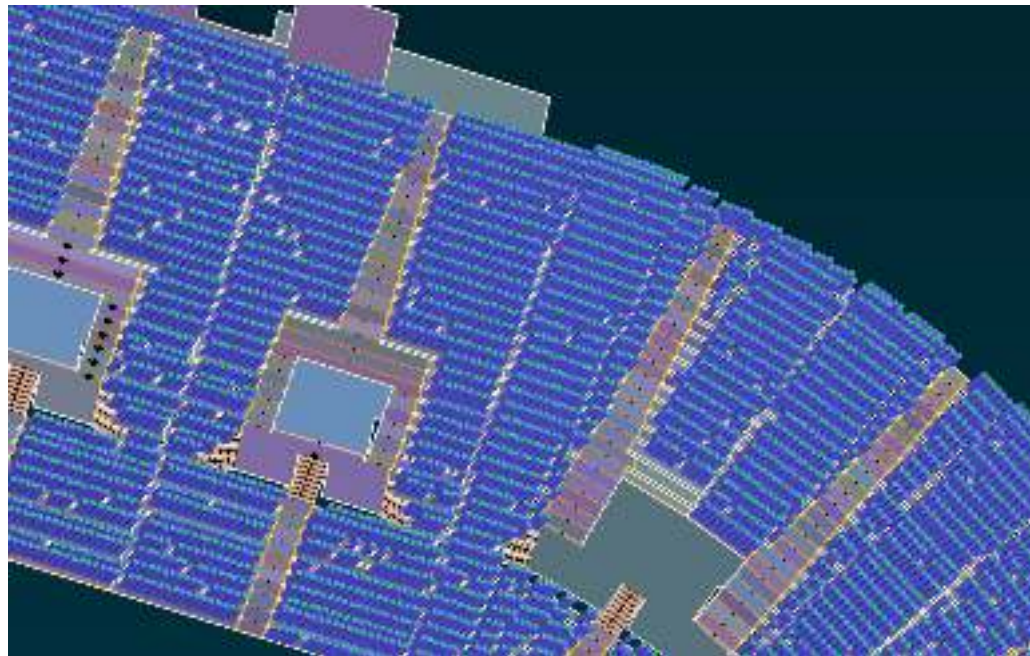
STADIUM SPECIFIC GEOMETRY CHALLENGE FOR PEDESTRIAN SIMULATION SOFTWARE

VERY NARROW SPACE IN FRONT OF SEATS



STADIUM SPECIFIC GEOMETRY CHALLENGE FOR PEDESTRIAN SIMULATION SOFTWARE

PYRAMIDAL STAIRS

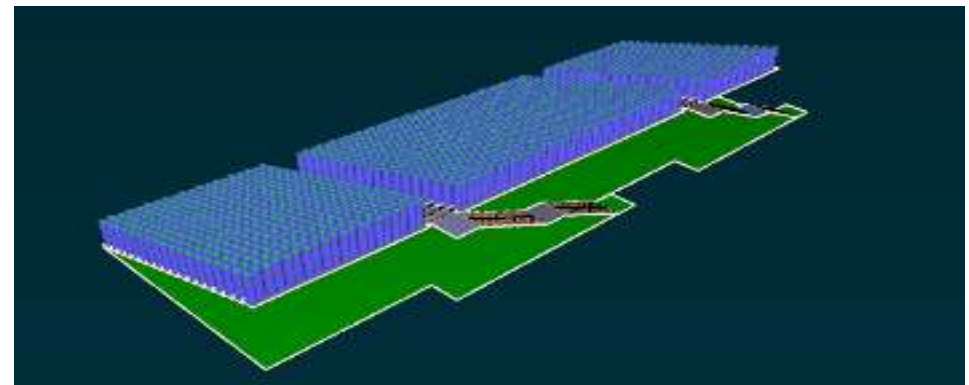
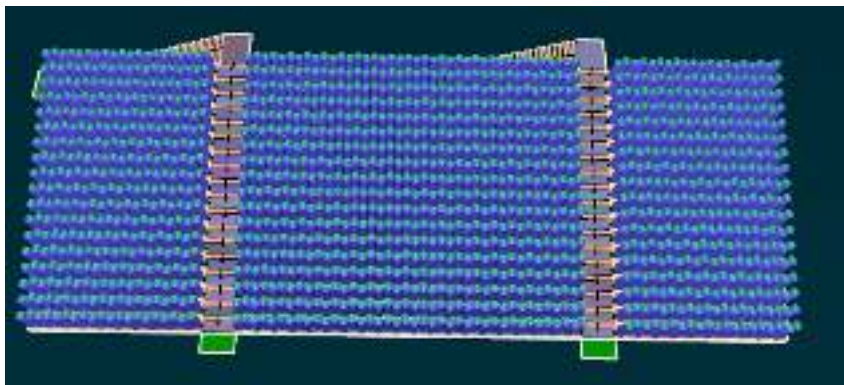
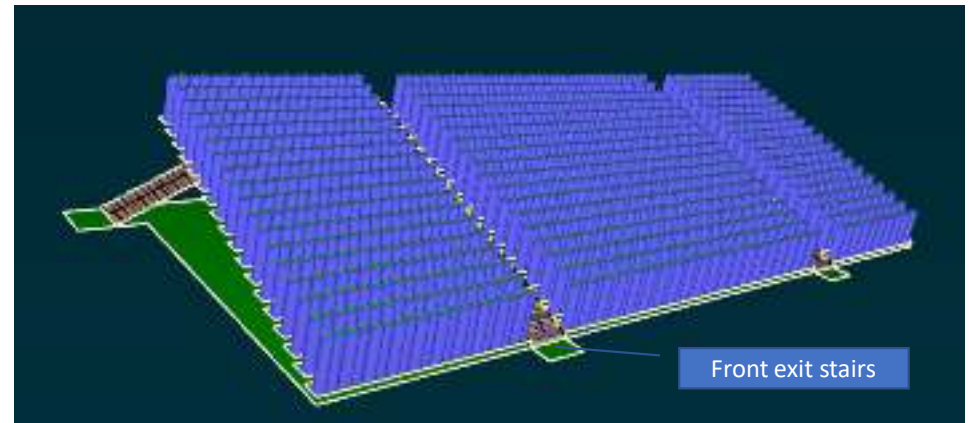
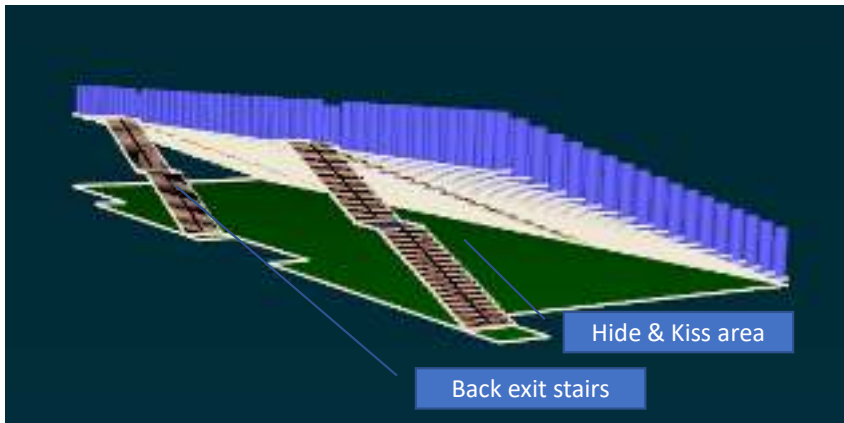


ADD NON FLAT SLABS & DILATATION JOINTS THAT MAKES IFC IMPORT VERY TRICKY AND TIME CONSUMING. AND FOR THE CONSULTANT TIME IS MONEY

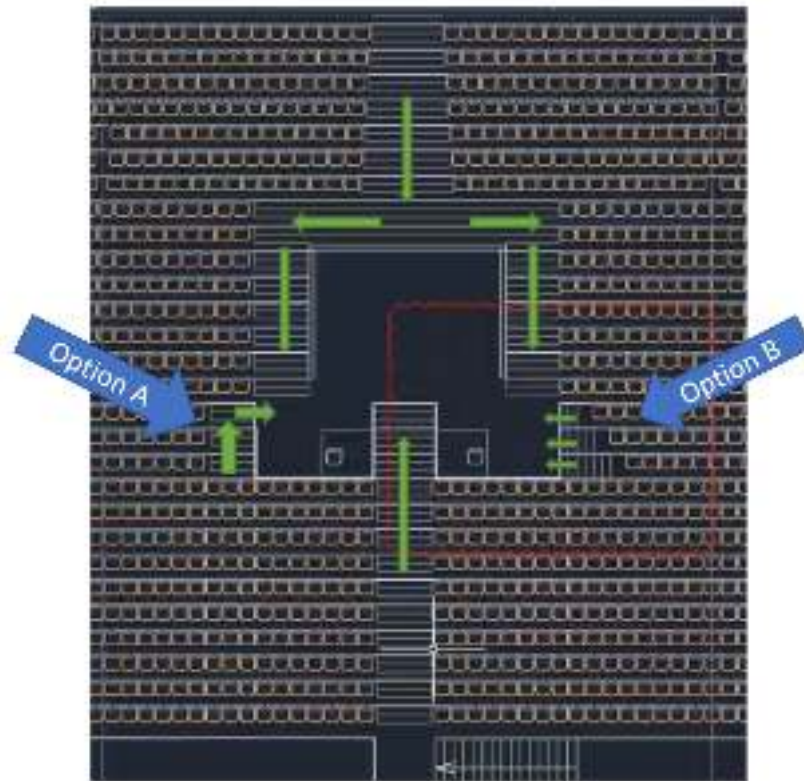
STADIUM SPECIFIC GEOMETRY

A TYPICAL BLEACHER GEOMETRY

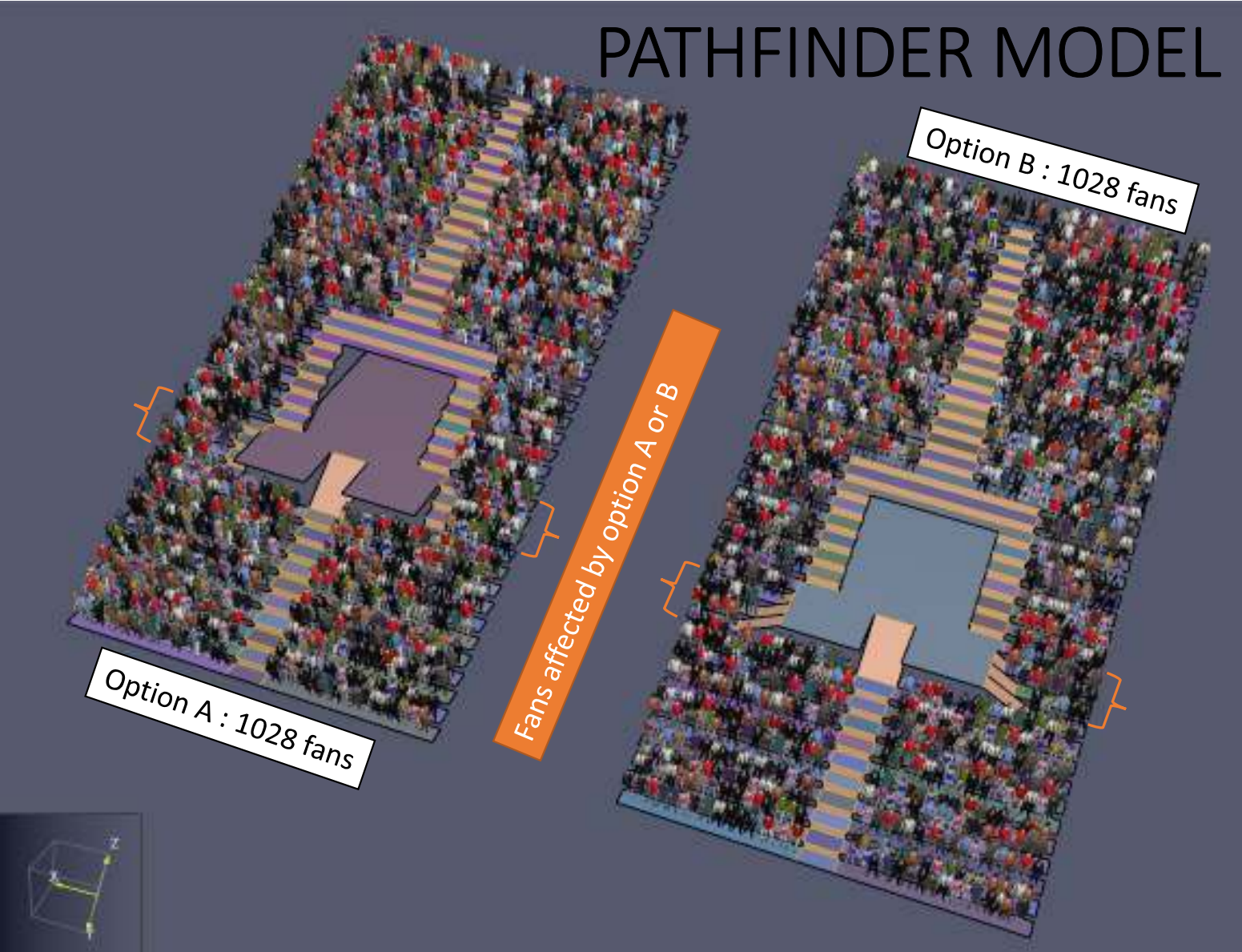
IT IS USEFULL TO BUILD A LIBRARY OF REUSABLE BLEACHERS



ABIDJAN STADIUM BLEACHERS CASE STUDY

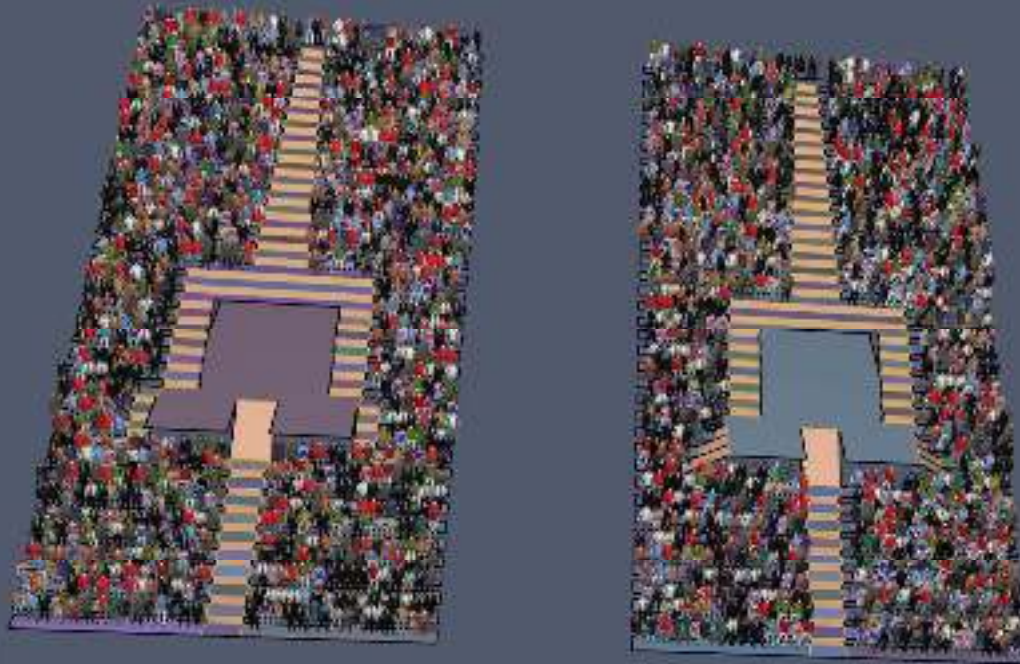


PATHFINDER MODEL



SIMULATION RESULTS

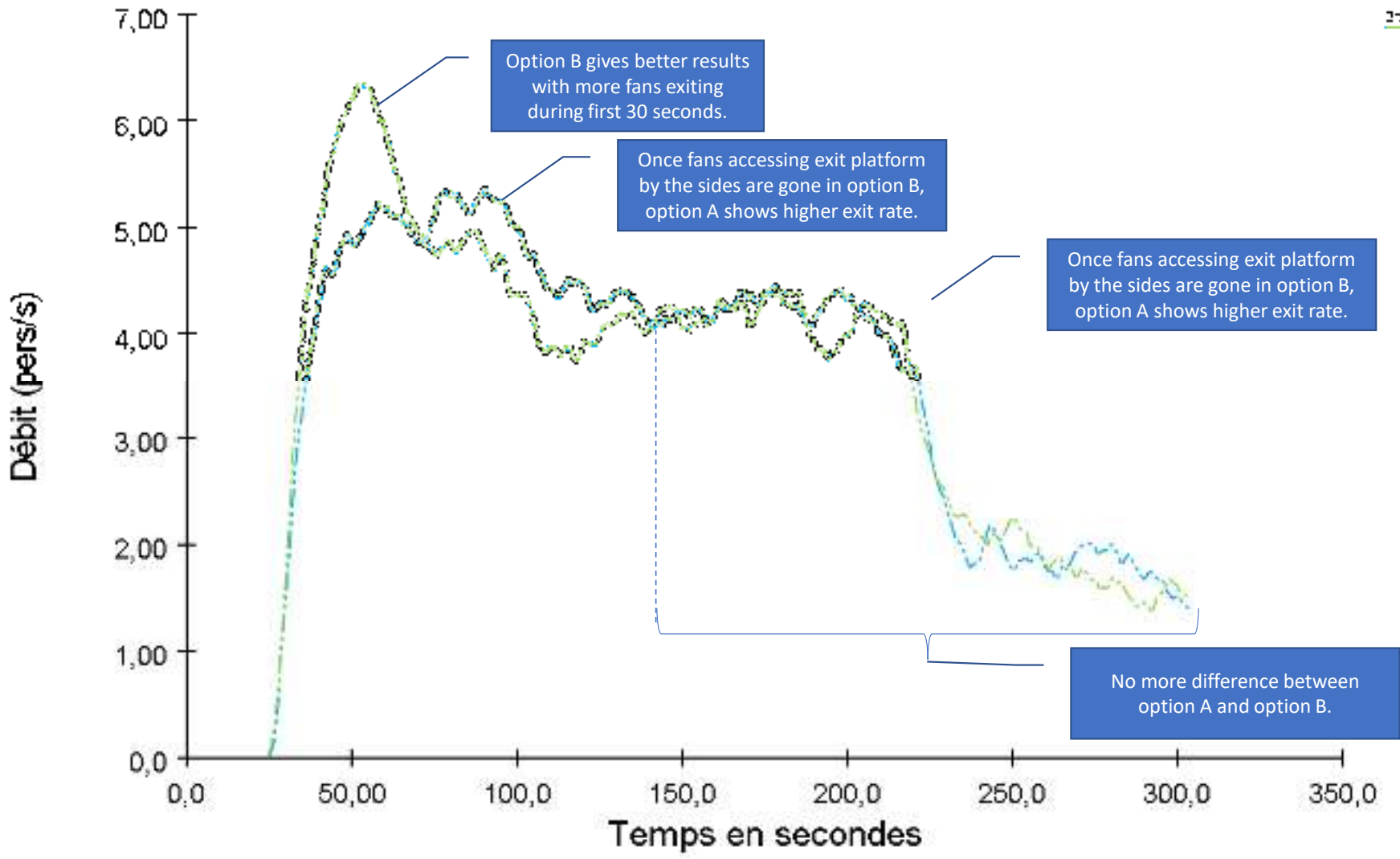
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0,0

Exit rate (p/s) for option A (blue) and option B (green)

Etape 1.0 n > Case_A
Etape 1.0 n > Case_B





DIFFERENT THAN

