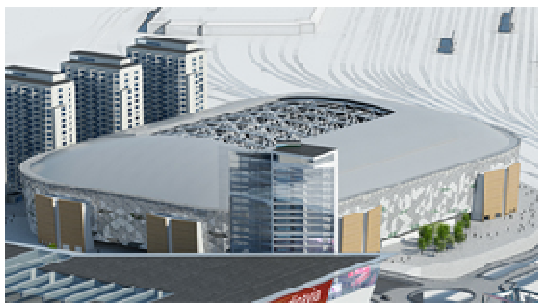


Project:	Swedbank Arena
Client:	SWECO
Location:	Solna, Sweden
Role:	Modelling External Crowd Movements of the Stadium

Crowd Dynamics were employed by SWECO to assist in the crowd modelling of a newly planned stadium near Stockholm.

Many scenarios were run to cope with the variation in data that may occur between the existing stadium and the proposed design.

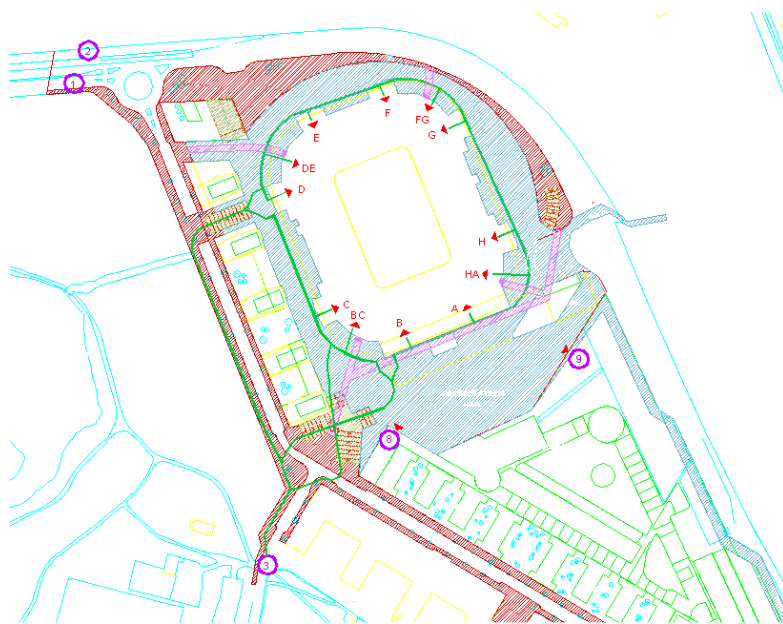
Microscopic models using the agent tool were run in small scale areas to discover how the areas operate.



Myriad II crowd simulation tools were used to model the complex movements that may occur.

The crowd movements around the outer concourses and routes to and from the stadium entrances and exits were modelled.

The first modelling step was to build Myriad II networks for various scenarios to gain a macroscopic understanding of the site and its crowd dynamic.



These also provided a visualisation of the build up of crowds in these areas, which in turn helped to convey where changes needed to be made.

Spatial Analysis techniques were used to predict where crowding may occur, but also where the unused space in the design is likely to be, providing a value engineering aspect to the work.

The comprehensive analysis of the modelling work will be used to form a Safety Plan for crowds around the Arena.