

MassMotion and MassMotion Flow are the world's most advanced software tools for simulating pedestrian movement and analysing crowd behaviour. They quickly deliver results in both technical formats and as easily communicable client-facing visuals.

Used by engineers, architects, designers and planners worldwide, these scalable and flexible programmes offer a comprehensive and flexible solution for all your pedestrian movement analyses. Quickly integrated into your workflow, they can predict the movement of small groups or of hundreds of thousands of smart, individual personalities in complex 3D environments. Their unique proximity modelling tools assist post-pandemic occupancy planning.



Request your free trial from
oasys-software.com

CREATE



You can import CAD/BIM geometry with ease or build from scratch with inbuilt modelling tools.

SIMULATE



Simulate complex scenarios such as queues, security checks, evacuations and route closures.

ANALYSE



Diagnose potential capacity, flow and congestion problems early with verified evidence.

REVISE



Scenario testing - fix issues early, saving design time and money during planning phases.

What is it used for?



Airport
Terminal Design
& Planning



Fire Safety &
Evacuation
Planning



City & District
Modelling



Themed
Entertainment



Stadia Planning &
Maintenance



Office
Development



Rail & Transit
Terminal Planning





Public
Spaces

Compatible with your favourite tools

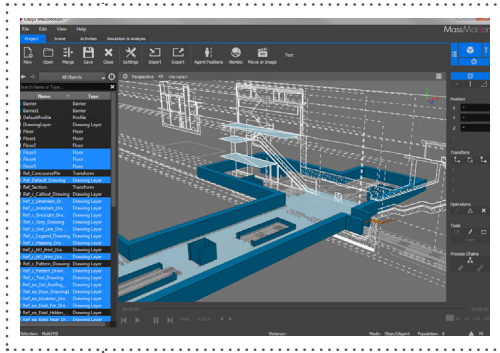


Used globally

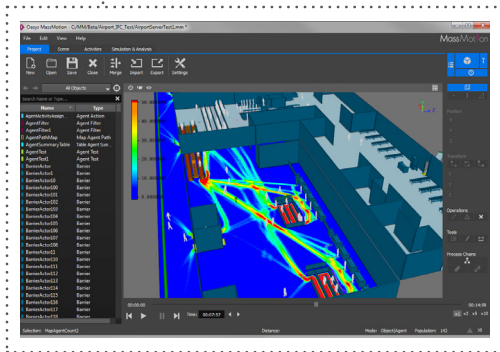
-  MassMotion Customers
-  MassMotion used in Arup Offices



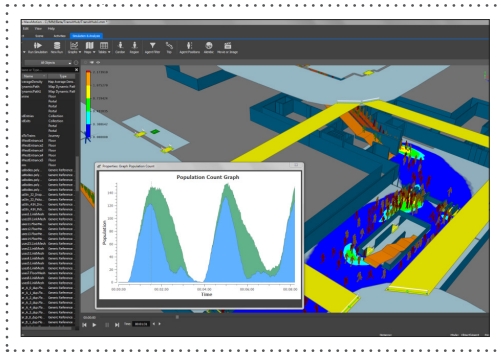
CREATE



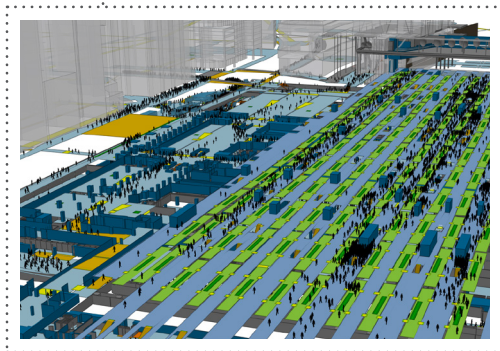
SIMULATE



ANALYSE



REVISE



BIM COMPATIBLE MODELLING

BIM is at the heart of the design of MassMotion and Flow. Users can rapidly transfer BIM models using the open IFC standard. Work from 2D drawings or 3D BIM geometry or create from scratch using the inbuilt modelling tools, allowing you to edit models quickly whenever necessary. Files from all leading CAD programmes can be imported and combined.

TRUE WAYFINDING

MassMotion has the ability to program individual personalities with unique agendas from start to finish in their journey through the environment. They will also respond uniquely to changes in real time, for example choosing to take the stairs when faced with congestion at an escalator. The SDK gives the user complete control over the advanced algorithms used.

IN-DEPTH ANALYSIS

Test and verify design assumptions based on objective and subjective analysis of simulation results, develop custom analyses such as queuing times and lengths, level of comfort, retail footfall, and optimum signage locations based on spatial, temporal, operational, and personal characteristics. With MassMotion, you can also import and test full schedules, such as bus or flight times.

HIGHLY VISUAL OUTPUT

The visual outputs make it easy to communicate to stakeholders in either 3D or 2D, they do not require a MassMotion licence either - they can use the standalone Viewer app, which is free to download. MassMotion allows you to report in a variety of ways with visually engaging graphics, tabular and data-driven outputs, all presented as easy-to-understand graphics and visuals.

A selection of our customers



Foster + Partners



aurecon

ARUP



KPF



“ We have found it to be intuitive and flexible. The thing that particularly impressed us was the simulation speed. We were able to run a large number of models much more quickly than we have been able to do with other packages. ”

Alan Kerr - Technical Director, BECA

+44 (0) 207 755 4515

oasys@arup.com

oasys-software.com

in Oasys Software @Oasys_Software TheOasysSoftware

Oasys