MassMotion
ADVANCED PEDESTRIAN SIMULATION SOFTWARE

Flow
PEDESTRIAN SIMULATION SOFTWARE

MassMotion and MassMotion Flow are the next generation of advanced software from Oasys for simulating pedestrians and analysing crowds.

Used by engineers, architects, designers & planners worldwide to predict the movement of hundreds of thousands of individual personalities in complex 3D environments.

It is important that buildings, large complexes and city districts are designed with occupants and pedestrians in mind. Our pedestrian simulations, analysis and modelling tools recreate crowds in real-life situations to test complex designs quickly. Witness in real time how people will use the building or space you are simulating. Optimise layouts for space utilisation and a safer, more comfortable environment for people.

Its robust validation and verification makes it incredibly reliable and accurate.

Request your free trial today 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
Fix issues early, saving time, money and manpower during planning phases.

Request your free 30 day trial version from oasys-software.com

Oasys

WHAT IT IS USED FOR

Airport Terminal Design & Planning

Fire Safety & Evacuation Planning

City & District Modelling

Stadia Planning & Maintenance

Office Development

Rail & Transit Terminal Planning

ULTIMATE PED SIM SOFTWARE

Capable of simulating **100,000's** of people within a matter of hours, reducing simulation time by several days.

Award winning software

With awards including Construction Computing's *'Best Use of IT in an Infrastructure Project'* for MassMotion's work on Union Station, Toronto.
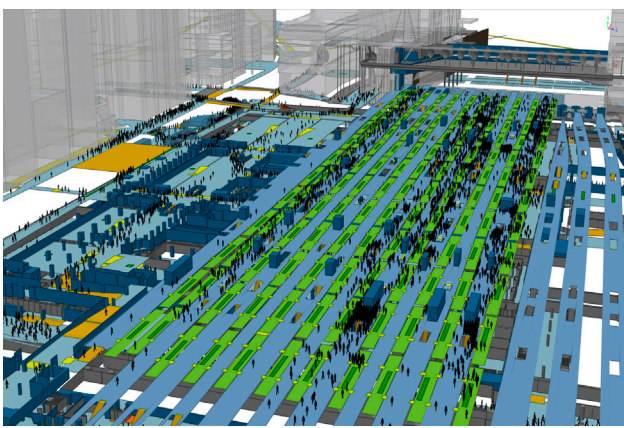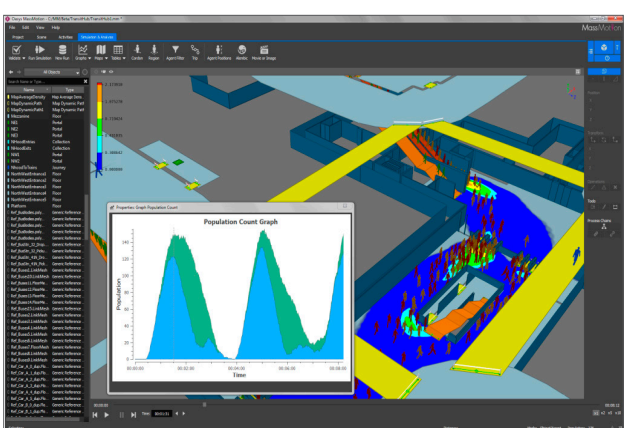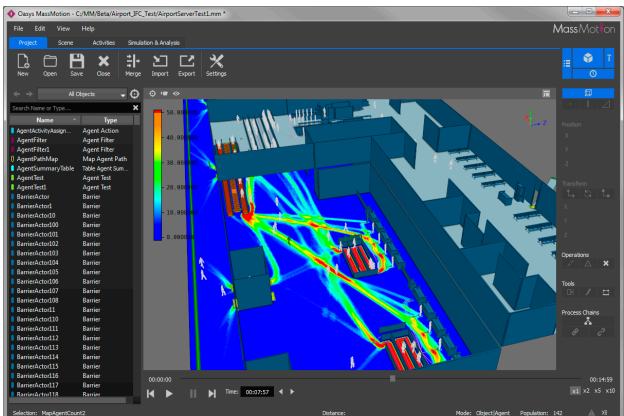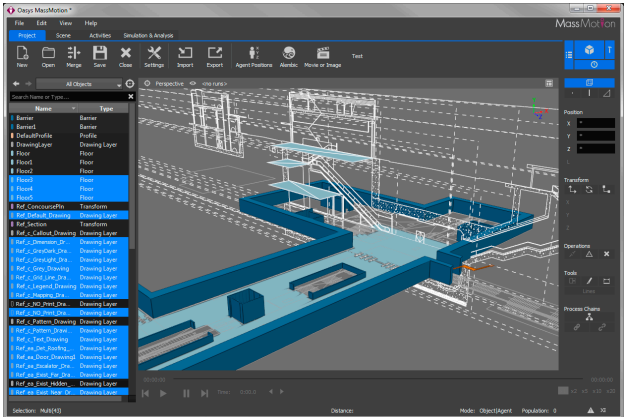
COMPATIBLE WITH YOUR FAVOURITE TOOLS

3DS MAX | AUTODESK REVIT | AUTODESK AUTOCAD | Rhinoceros | GRAPHISOFT ARCHICAD | SketchUp | VECTORWORKS | Bentley MicroStation

FEATURE LIST

	Flow	MassMotion
Unlimited crowd sizes	✓	✓
Powerful 3D editing and simulation environments	✓	✓
Multithreaded 64-bit crowd simulator	✓	✓
BIM compatibility (IFC 2x3)	✓	✓
Direct support for SKP, DGN, and 2D CAD files	✓	✓
Time controlled gates and complex crowd scheduling	✓	✓
Accurate evacuation and circulation behaviour	✓	✓
Flexible and powerful SQL driven analysis tools	✓	✓
Realtime view of 3D results	✓	✓
Image and movie export	✓	✓
Ticketing and process modelling		✓
Dynamic agent properties - Logical control of agent behaviour		✓
Dynamic agent dynamics - Agents react to their environment		✓
Spreadsheet based scheduling		✓
MassMotion SDK (Software Development Kit)		✓

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 2x3 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 neccesary. 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 CUSTOMERS

WOODS BAGOT™

loh+k

nikken.jp

Newcastle University

Royal HaskoningDHV
Enhancing Society Together

SMRT

HATCH

dar al-handasah
shair and partners

Foster + Partners

JENSEN HUGHES
Advancing the Science of Safety

KPF

L&B
Aviation Planning at the Leading Edge

TÜVRheinland®

Mitsubishi Jisho Sekkei Inc.

ARUP

AECOM

> " 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

Press Enquiries

Alex Mullen

✉ alex.mullen@arup.com

☎ +44 (0) 191 479 1705

Sales Enquiries

Chris Down

✉ chris.down@arup.com

☎ +44 (0) 207 755 6052

Product Enquiries

Peter Debney

✉ peter.debney@arup.com

☎ +44 (0) 113 237 8116

🌐 oasys-software.com

in Oasys Software   🐦 @Oasys_Software   ▶ TheOasysSoftware

☎ +44 (0) 207 755 4515

✉ oasys@arup.com

Download your free 30 day trial version from our site today

Oasys