

DATA SHEET

# MapInfo® Engage3D™ & Engage3D™ Pro

RECREATE YOUR WORLD WITH POWERFUL GRID AND 3D MODELLING,  
ANALYSIS AND VIEWING.



## Summary

MapInfo® Engage3D is a powerful suite of tools that extends the efficiency, analytical and 3D capabilities of MapInfo Professional®.

Engage3D Pro goes even further with more extended functionality and massive data processing.

Advance your MapInfo Professional data visualisation and analysis by creating continuous surfaces from point to polygon data.

## Benefits

- Organisations benefit from improved productivity of MapInfo Professional users. See "PRODUCTIVITY"
- Organisations benefit from the ability to apply a wider range of visualisation and analytics to their business challenges. See "ANALYSE" and the sections on 3D on pages 3 and 4.
- MapInfo Professional users benefit from experiencing a wider array of statistical, temporal, surface and 3D GIS analysis. Build your GIS skills!

## OVERVIEW

The latest release of the MapInfo® Engage3D Pro software application from Pitney Bowes Software, reinforces it as the essential grid interpolation and 3D platform for the MapInfo Professional® GIS environment. Engage3D and Engage3D Pro v7.0 notably incorporates major enhancements in our massive grid technology, interactive 3D image registration, automatic batch printing from a map series, direct import support for ECW and ALG formats, batch operations for image processing (such as reprojection and clipping), as well as many enhancements.

### Import

The Engage application extends the data handling capabilities of MapInfo Professional, with read and write support for over one hundred industry standard tabular, vector and raster image data formats. These include advanced functionality such as image rectification and reprojection, direct ECW and ALG import, and extensive vector import and conversion capabilities (such as .GPX and Google Earth .KML).

### Analyse

A detailed analysis and understanding of all aspects of your datasets, such as demographic, sales or incident information, can add significant value to the resulting interpretations and modelling. The Engage application provides an extensive array of advanced analytical functionality at your fingertips, allowing varied datasets to be assessed dynamically in statistical, spatial, temporal and graphical views.

Engage's analytical tools can help distinguish trends and anomalies in multivariate data acquired from multiple sources. Just as importantly, these tools will assist in identifying and eliminating false anomalies that can arise from sampling and assaying errors or bias, with options such as data conditioning, null handling, and data normalisation.

### Productivity

Engage provides a rich set of productivity tools that will enhance the experience of any MapInfo Professional user. This enhanced set of layer, window, object, table, and data tools comprises a multitude of short-cuts and useful new functions which make complex and repetitive tasks easy to perform, many with batch processing capabilities. Once you've used Engage's productivity tools, you'll wonder how you ever survived without them.

### Digitise

The Engage application simplifies the digitising of area usage polygons (e.g. flora mapping) by intelligently converting linework into attributed polygon vector objects. Engage3D automatically checks and cleans the linework, resolving gaps, overlaps, and loops, and streamlines the process of adding attributes to the resulting polygons.

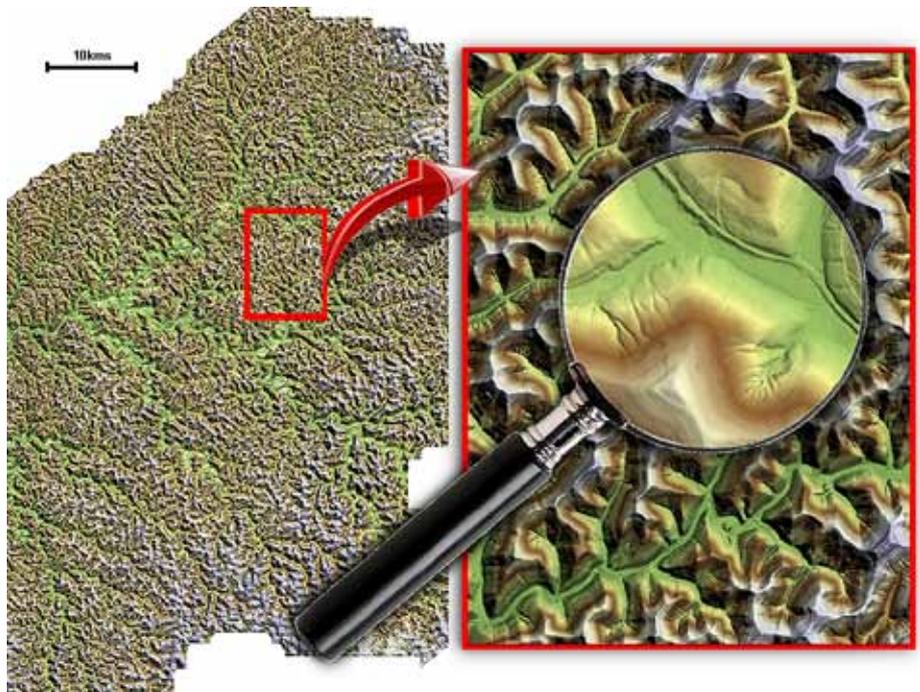
Engage can also auto-increment integer attributes (e.g. sample numbers) during digitisation, as well as auto-fill text or numeric attributes, and prompt for other location-specific data.

## MapInfo® Engage3D™ & Engage3D™ Pro v7.0

PRESENT DATA IN MORE WAYS  
THAN EVER TO TRACK THOSE  
ELUSIVE TRENDS.

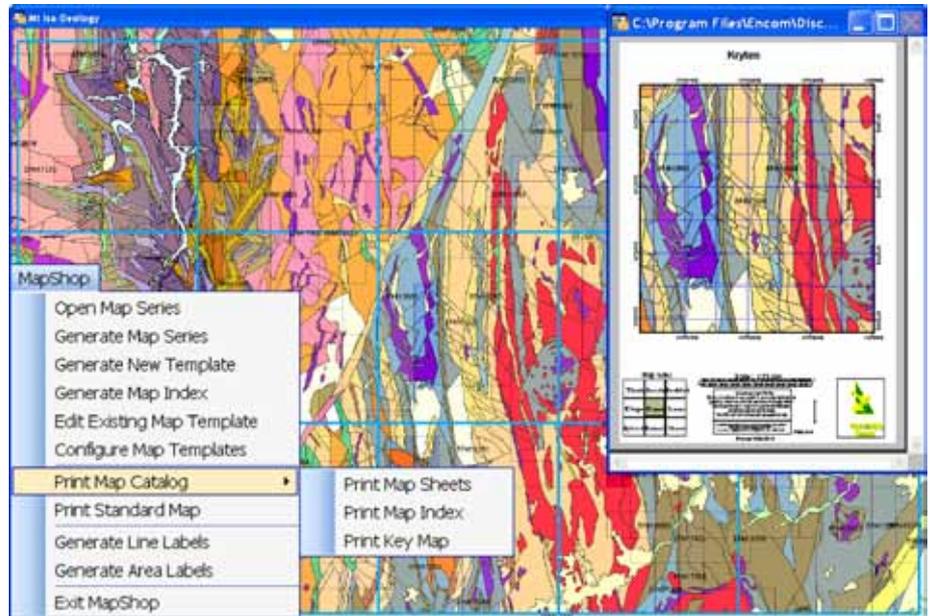


*Import and visualise flood modelling surfaces to help with risk assessment and mitigation planning.*



*Import, interpolate and manipulate massive continental-scale gridded surfaces such as LIDAR topographic data.*

EXPAND YOUR MODELLING CAPABILITIES BY CREATING REALISTIC MODELS USING SMOOTH INTERPOLATION BETWEEN 3D FEATURES.



Batch create and print a series of similarly themed maps using fully customisable layout templates.

### Map Making

Professional map production is a breeze with the Scaled Output wizard. Automatically create correctly scaled and sized layouts for your desired page size, with titleblocks, scalebars and map grids. Use the new Engage batch printing module to create a series of map sheet boundaries over a region and automatically batch print an entire map series onto pre-defined templates. Items such as map name, map number, date, scale, etc are automatically updated on each map. Location indexes can be automatically generated to assist with generation of map books such as street directories. Dynamically create perfectly-sized text labels at a specified output scale with the new label creator functionality.

### Gridded Surface Interpolation and Manipulation

Engage3D provides a comprehensive set of surface gridding tools for interactively interpolating point, line and region data, such as demographic, sales, meteorological, topographic, chemical and environmental surveys. A broad range of gridding methods are available, such as Kriging, Density ("hot spot map"), Inverse Distance Weighting and Minimum Curvature algorithms. The resulting grids can be contoured, queried and modified

with a versatile collection of transformation tools. Compute curvature, slope, aspect, volumes, and other surface properties, or use the versatile grid calculator to derive values from user-defined expressions.

Are you working with large high resolution grids, such as continental-scale SRTM data? Engage3D Pro can create and import massive multiple-gigabyte grids, then zoom and pan around them in real time and modify their appearance. These massive grids can be processed, manipulated and analysed with many of the grid utilities, such as conducting flood risk analysis from regional high resolution LIDAR DEM data.

### A Unified 3D Environment

The Engage3D Pro application allows you to combine, visualise, interrogate, and model your data in a dynamic and immersive 3D environment. Buildings and infrastructure, client and sample locations, photogrammetry, interpretations, surface models, solids models, and voxel models can all be viewed in the same 3D space. So when modelling and interpreting in 3D, you can be sure your interpretations are fully informed and precise—in every dimension.

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## 3D Vector Creation, Editing and Manipulation

All of these visualisation options are great, but I really want to interpret my 3D data!

You can precisely interpret and digitise directly in 3D, with accurate snapping to 3D datasets as well as freeform drawing. Create points, polylines, polygons and surfaces, and edit, combine, cut and manipulate these objects to delineate targets and boundaries. Then use these objects as the basis for more advanced modelling techniques.

## Powerful Modelling Capabilities

Engage3D is much more than a 3D visualiser, providing users with a powerful suite of surface and solids modelling tools. These can assist in trend interpolation and analysis, such as experimentation with salinity and pollution migration scenarios.

### Wireframing

After digitising and editing your 2D outlines or 3D interpretations, Engage3D provides an effective wireframing tool for the modelling of solids. Use tielines to control and refine complex polyhedral shapes in a dynamic 3D environment. Surfaces and solids created in Engage3D or imported from external sources can be combined, intersected, cut, and trimmed with any other surface or grid. For example, you might trim the top of a wireframed pollution model with the current topographic surface.

### Surface Gridding

Interpolate grids surfaces from point and polylines digitised directly in 3D.

### Extrude 2D Shapes into 3D Solids

The 3D extrusion tool allows you to quickly transform any 2D outline into a 3D object. This is the perfect tool for extrapolating pollution extents from a topographic surface to create a volume of influence, or converting site plans into three-dimensional structures, such as buildings.



Create accurately scaled maps quickly using the extensive Map Layout tools in Engage3D. Map data (c) Crown Copyright. License number 100020348.

### Voxel Models

Reveal or reinforce trends and extensions in your 3D data by 3D grid interpolation, using powerful methods such as density, inverse distance weighting, and kriging. Maximise the value of these interpolations with a range of 3D grid manipulation and analysis utilities.

## Produce Exciting 3D Presentations

Need to share your 3D environment with other users? Complex Engage3D Pro sessions can be viewed by any Engage3D user with the included 3D viewer. Create professional movies (in standard video formats) with dynamic data content throughout; perfect for eye-catching shareholder, public-relations and conference presentations.

## Effortless 3D Navigation

Navigating in 3D can be precisely controlled by various combinations of mouse and keyboard commands. Or hook up a 3DConnexion SpaceNavigator™ controller for easy and intuitive navigation.

FOR MORE INFORMATION VISIT

[HTTP://WWW.PBSOFTWARE.EU/ENGAGE3D](http://www.pbsoftware.eu/engage3d)