

# 12d<sup>®</sup> Model<sup>™</sup>

Fast. Flexible. Comprehensive.



Your comprehensive civil *solution*.

12d Model offers an integrated solution for the survey, design, modelling, analysis and construction of civil engineering projects worldwide.

Specifically designed and created for the civil engineering industry, 12d Model improves your project efficiencies, completes projects in shorter timeframes and reduces costs with **12d's comprehensive 3D solution!**



# 12d® Model™. Your project *solution*.

## Solutions across a range of project types

12d Model is a comprehensive surveying and civil engineering software package providing specialised solutions for all types of projects including the 12 typical uses below:



### Roads and Highways

12d Model's design option is the smarter solution for the design, modification and maintenance of Road and Highway projects.

Enjoy advanced 3D tools to design local and major roads, intersections, roundabouts, highways, interchanges and much more.



### Ports and Dredging

12d Model is the solution for port infrastructure and dredging, easily managing the very large datasets and complex volume calculations often required by these projects.

A complete range of flexible and customisable volume calculation tools allow teams to extract and present the information quickly and easily.



### Land Development

12d Model is the most versatile solution for the creation of sustainable land development projects, including residential, commercial and industrial developments, recreational areas, landfills, and agriculture projects.

Easily manage all aspects of your land development project from earthwork quantities, road design utilities and drainage design.



### Airport Infrastructure

12d Model provides a solution for the design, construction and analysis of new airports, as well as the upgrade and maintenance of existing runways and airport infrastructure.

Easily manage large airport infrastructure projects and share data across multi-disciplinary teams.



### Rail

12d Track has been specifically designed for the survey, design and construction of light, heavy and high speed rail projects.

Extensive railway tools in 12d Track allow the rail designer to quickly and easily design their projects. These options are built on the existing 3D modelling and design tools available in 12d Model.



### Mining Infrastructure

12d Model's powerful set of exploration, site investigation, survey and analysis tools are crucial for the initial design, construction and ongoing operation of mining projects.

Comprehensive tools for the survey, design and construction of access roads, railways, earthworks and services allow for the coordinated design and management of mining infrastructure from within 12d Model.



### Drainage, Sewer and Utilities

12d Model provides comprehensive tools for the design, analysis and optimisation of stormwater and sewer projects using rational, dynamic (hydrograph) and 2d drainage methods.

Powerful clash detection management allows for efficient 3D modelling of service networks such as gas, electricity, telecommunications and water prior to construction.



### Surveying

12d Model is a complete surveying package providing the tools to manage all facets of surveyed data including LIDAR, topographical, as-built, conformance, traversing, geodetics, data mapping, labelling and much more.

The 12d Field option runs on a ruggedized tablet and gives the user access to full 12d Model functionality, allowing you to take the entire project into the field with the most comprehensive pick-up and set-out tools.



### Oil and Gas

12d Model assists with the design, construction and mapping of oil and gas pipelines, original site exploration and the wide range of infrastructure required for oil and gas projects.

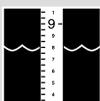
Accurate 3D modelling and the ability to share data between users allow teams to quickly and easily coordinate designs.



### Construction

12d Model is the ultimate software for construction with powerful set-out options, direct interfaces to machine control and detailed conformance reporting and auditing.

Manage 3D data and control volumes, quantities and progress claims with 12d Model. Set-out your project and undertake conformance and as-built surveys live on-site using 12d Field.



### Rivers, Dams and Hydrology

12d Model handles very large datasets and interfaces with a wide range of analysis packages, making it perfect for flood studies and the management of rivers and dams.

12d has partnered with industry leading analysis software, allowing users to apply 2D drainage analysis from within 12d Model.



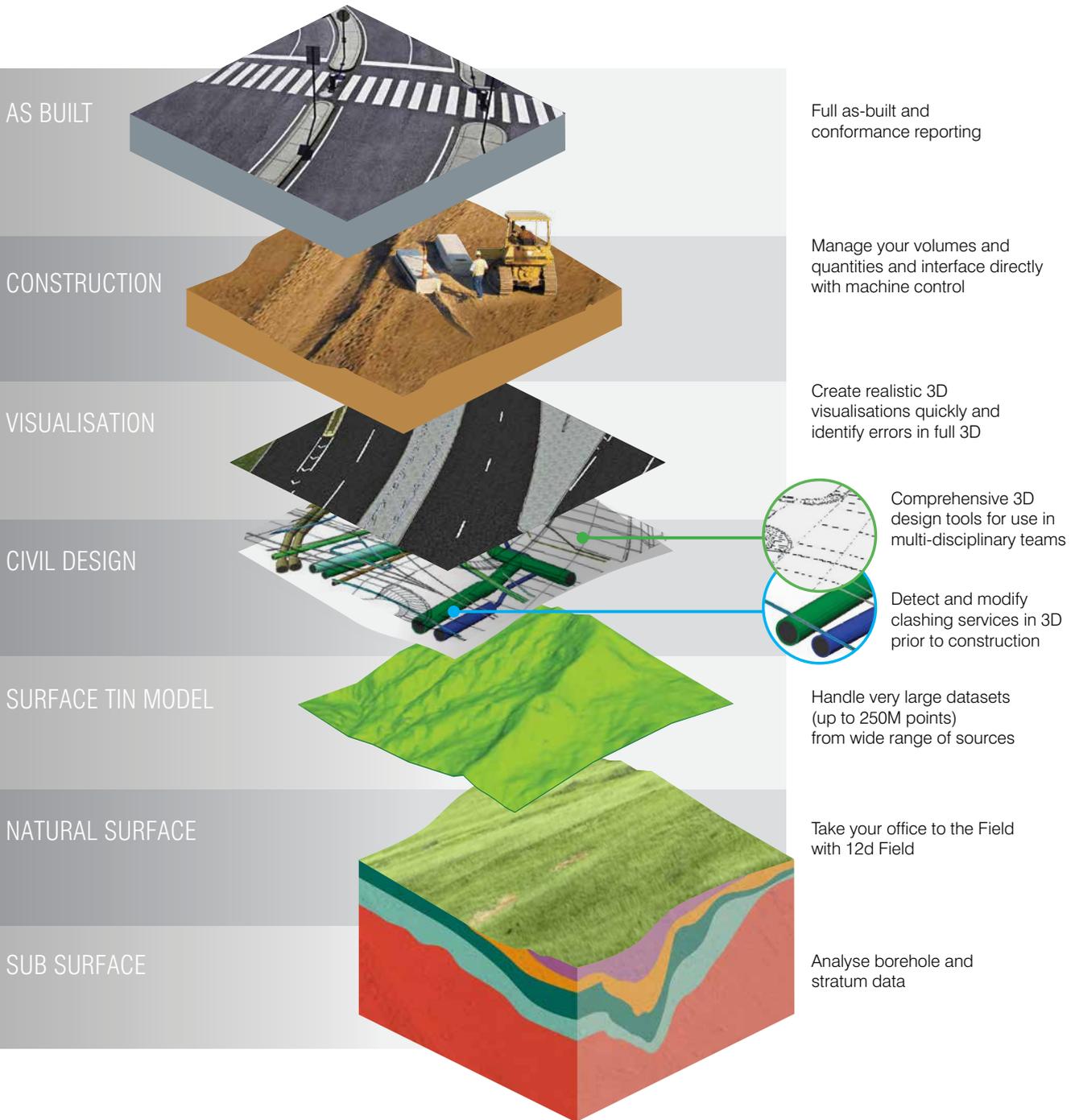
### Environmental

12d Model's ability to handle very large datasets combined with flexible and comprehensive 3D analysis and modeling tools make it perfect for a wide variety of environmental projects.

Existing workflows can adopt 12d Model easily as it allows users to directly interface with GIS systems and most software packages and file formats.

# 12d<sup>®</sup> Model<sup>™</sup>. Your innovative *solution*.

Powerful 3D technology to enhance your project



## Plotting and Documentation

Automate and streamline the plotting process by creating documentation directly from a 3D project. Save time and reduce errors using 12d Model for huge cost savings.



# 12d® Model™. Your multi-disciplinary *solution*.

Solutions for an industry leading user community

## Project Owner



12d Model provides Project Owners a platform to interface with all project stakeholders. It has the ability to transfer data in highly flexible formats, allowing them to receive the data they need to check the information submitted and make timely critical decisions.

## Government

This unique software provides departments; local to national, with the tools for all aspects of civil infrastructure. From planning through to GIS database management of survey data and completed projects; it can be used by councils, road authorities, public works and defence.



## Surveying

12d Model provides the tools for single surveyors or multiple teams to use a range of equipment brands to complete topographic surveys, set-outs or undertake large scale mapping while seamless exchanging data in the format they require.



## Construction

12d Model is perfect for small contractors as well as large multi-national contractors. Offering fast set-out, machine automation, volume analysis, clash detection and as-built date; it improves construction productivity through schedule and cost benefits.



## Engineering

12d Model is used by sole operators and multi-national engineering companies to execute a wide range of multi-discipline projects. It provides a range of automated design processes as well as seamless integration with other project stakeholders and phases.



## Working with 12d Model

### Training Network:

12d's certified training network have developed a complete range of training courses to help train your staff. Onsite, public and web based training is available.

### Support:

Get support via phone, email or 12d Forum and 12d will be there to ensure you have the support and tools you need to get the job done.

### Software Licensing and Maintenance:

Keep your software up to date efficiently as 12d upgrades are rolled-out to users free on maintenance. 12d gives you the flexibility to choose stand alone or network licences.

### Stay Connected:

At 12d Solutions we place an emphasis on staying in touch with our community. We value your input which has greatly shaped the evolution of 12d Model and the services that we offer to support the 12d community.



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