



Infrastructure & Construction Solution

A powerful design,
quantification, planning and
reporting tool for complex
infrastructure projects



Deswik[®]

An integrated platform

Our time-tested and leading mining technology is revolutionising the infrastructure and construction industry for major contractors.

Deswik.Infrastructure is ideal for contractors, owners and service providers looking to adopt practical digital solution workflows to accelerate digitisation across their project lifecycle. Our software empowers users to efficiently produce and deliver design options, mass hauls, schedules, cost forecasts and reports with ease.

Deswik software is built with integration in mind to allow for seamless data flow from a single source of truth. With industry-leading 3D CAD technology and integrated planning tools, Deswik.Infrastructure brings both your team and data together to optimise resource management and ensure project success.

Create a more efficient and effective project team with Deswik

We recognise the challenges faced by various professionals within the infrastructure and construction industry, including decision-makers, project managers, supervisors, engineers, planners, estimators and surveyors. To help address these challenges, Deswik's integrated platform is specifically designed to streamline processes for increased efficiency and support digitalisation within the industry.

Our suite of tools promotes effective collaboration by ensuring the right information is provided to the appropriate individuals. By delivering straightforward, reliable and pertinent reports from a 'single source of truth', decision-makers are able to minimise errors when making critical decisions.



Integration



Standardisation



Simplification



Optimisation



Automation





Interoperable 3D solids modelling

Quantify your designs for downstream applications

We offer a powerful and interoperable 3D solids modelling tool that enables model federation, attributing and conditioning. With Deswik, you can divide your designs into chainages and work areas and split them by material types.

- » Plan your mass hauls directly from your 3D models to improve equipment utilisation and achieve contract milestones
- » Model attributing and verification to align with EIRs and BIM mandates
- » Develop solutions quickly with 3D authoring tools
- » Incorporate geological information in your plans by importing and interrogating geological models

Automated schedule generation

Focus on scenario planning and analysis

Our planning solution enables you to automate schedule generation and resource allocation, freeing up your valuable time to concentrate on planning and analysing scenarios to make informed decisions.

Through leveraging your subject matter expertise alongside computing power, Deswik can efficiently generate and level granular schedules containing thousands of line items in mere minutes instead of weeks.

- » Schedule generation and resource loading and levelling through rules and algorithms
- » Build, run and review schedule options quickly within short tender times

End-to-end integration

Superior data handling throughout the planning process

Deswik is interoperable with many commonly used formats including IFC, 12d, P6, MSP and Excel. By integrating the design process with downstream processes such as planning and estimating, our solution helps you reduce information loss that would typically occur when relying on disparate files and sheets or incompatible exchange formats.

Integration keeps our customers ahead of the curve so they have fewer errors, efficient workflows, and the ability to explore options to make confident decisions.

- » Automate your survey updates and integrate them with planning and reporting for pumped hydro projects

Clear and concise reporting

Generate near real-time progress reports

Our toolkit, combined with drone and LiDAR scanning technology allows you to generate near real-time progress reports. These outputs can be used to replan and forecast the remainder of the project accurately in a fraction of the time. A combination of built-in reporting and integrations with Power BI allows decision-makers and site teams to have one source of truth at their fingertips.

- » Automate repetitive processes such as progress reporting and cost reporting
- » Gain onsite access to granular quantity and material information through Power BI reports

Automation

Build organisational IP for future standardisation

Our solution has a powerful built-in workflow capability that allows organisations to develop Intellectual Property, retain knowledge and improve efficiency by developing standardised workflows.

- » Own and codify your organisation knowledge including scheduling rules, resource assignments and productivity rates and processes

“A robust and innovative technical solution for the infrastructure and construction industry.”



Our industry-leading solution includes:



Solids modelling



Workflow automation



Integrated material management



Resource planning



Optimisation



BI reporting

