LANDFILL
SOLUTIONS

Aptella
AUTOMATION +
POSITIONING TECH

Why Aptella

We're there when you need us

With more than 30 years' experience in deploying intelligent positioning solutions, Aptella and its founding businesses have continuously broken new ground in the application of technology to enable safer, more efficient and more productive mine site operations.

Aptella's expert team is unrivalled in the industry - our people are passionate about what they do and committed to supporting our customers whenever and wherever they're working.

With more than 350 employees across Australia, New Zealand and Southeast Asia, no other company can deliver the depth of expertise and boots on the ground support that Aptella has to offer. We source the latest and most advanced technology from leading suppliers worldwide, ensuring it is fit for the local market and assisting customers with training, service, calibration and support to suit their unique business needs.

Workshop services

Comprehensive product service, maintenance, repairs and advice are provided via our local service centres with manufacturer-trained technicians. We guarantee all our work and can supply calibration certificates if required.

Training

Our expert trainers are here to help you get productive immediately and enable you to take control of your digital jobsite. Our training is application specific and tailored to your industry, providing the perfect foundations to tackle any task or project.

Hire or lease options

A full range of systems, from laser levels through to machine systems and survey instruments, can be hired or leased to suit any application and reduce capital outlay. Get the flexibility to customise technology to suit unique site requirements.
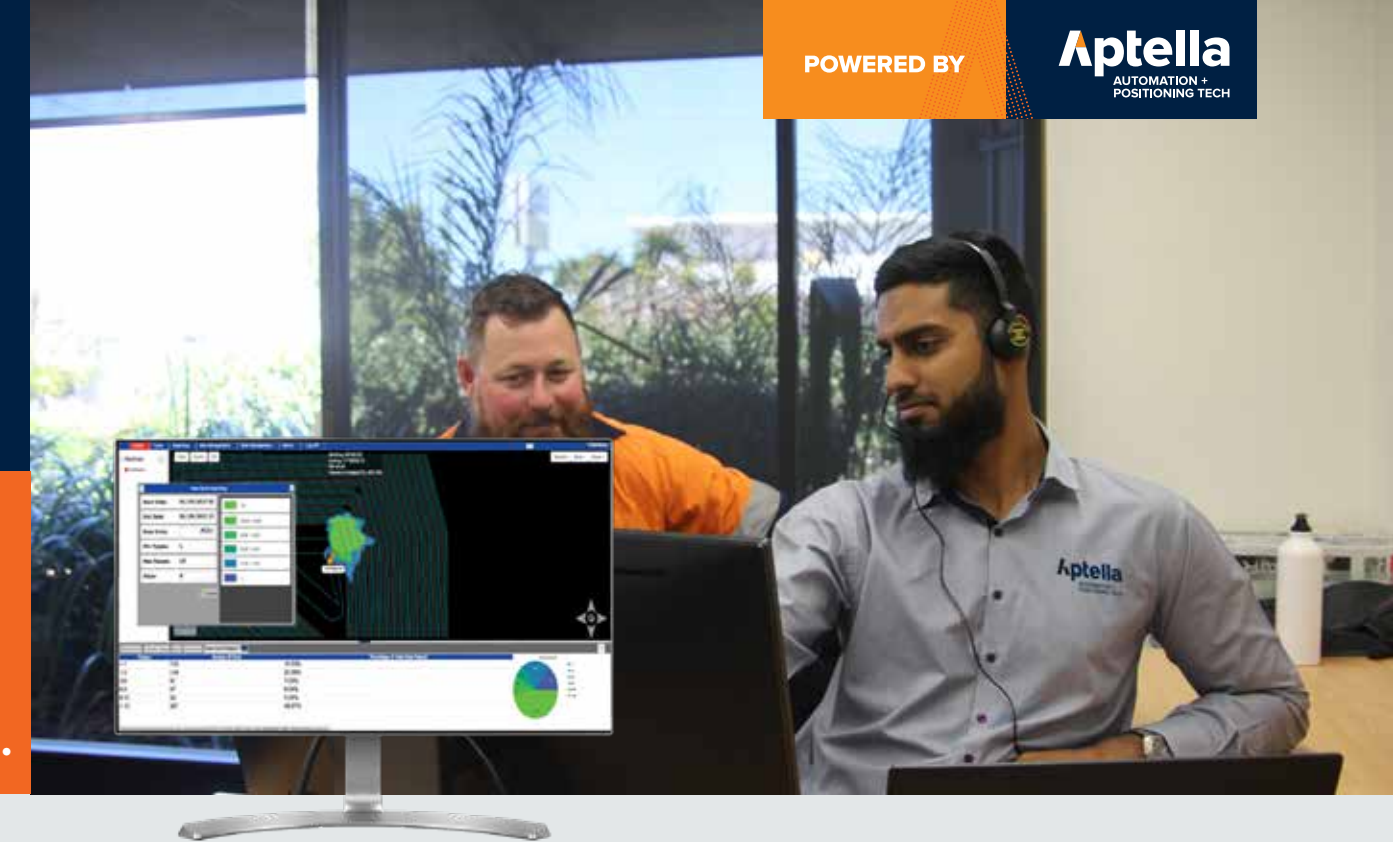
Remote Access & Support

To give you fast help when you need it, our technicians can remotely access your systems when required to troubleshoot and train users to get you back to the job as soon as we can.

Access high precision and fleet management devices remotely.

Send & receive messages to operators, surveyors & managers.

Multiple solutions from a single, local supplier

Simplify your procurement process and select from our range of leading, tried and tested solutions

For all machines & survey assets

Aptella are the retrofit experts, specialising in sourcing and supplying machine-agnostic solutions for your mixed fleet

Site-wide change management

Our team works with you to customise solutions that compliment your existing workflows and simplify your day-to-day operations

Fast support a phone call away

The combination of remote access support and a large, local network of field technicians delivers unrivalled support

Flexible Service Level Agreements

To ensure that your mining solutions are always performing at their best, the team at Aptella is here to support you. Our highly trained specialist technicians are committed to providing the highest quality of service, with a combination of remote and boots-on-the-ground support hubs dedicated to ensuring requests are quickly actioned to maximise your machine uptime.

Our comprehensive Service Level Agreements are fully tailored to your unique requirements, to give managers and operators peace of mind that technical assistance, training and remote updates are available as needed, reducing the need for on-site visits.

Aptella Managed Service

Aptella's Managed Service is designed to offer your landfill all the benefits of Carlson Command without the added workload of maintaining data integrity, report generation and distribution as well as database management and support and maintenance.

Our team will work collaboratively with you to customise our Managed Service to meet your requirements and ensure you maximise the benefits of technology without the need to maintain it in-house.

Carlson LandfillGrade

Manage your landfill more effectively and remove the guesswork of landfill compaction with Carlson LandfillGrade machine guidance.

This 3D positioning solution provides real-time information between your machines and the office to increase your productivity.

Why machine guidance?

Carlson LandfillGrade enables optimal compaction with fewer passes for both lower fuel consumption and lower cost of operation while also reducing machine wear.

The software's accurate daily analysis reporting of actual material placement enables landfill operators to increase density and make best use of the landfill.

In the field, the LandfillGrade software gives operators easy-to-use and real-time information so they can both optimise airspace and manager their slopes and fills. In the office, the Command and Control software provides real-time information so managers can see and manage key performance indicators.

Utilisation

> Rapid response to changes through remote or manual upload of designs

> Real-time locating and playback of where and how machines are being used

> Machine utilisation tracking and task analysis

> Real-time machine system view and troubleshooting capability from anywhere in the world

> Supported by Aptella Managed Service and Support SLA

> Eliminating delays waiting on survey

Safety

> Improved operator situation awareness through the constant and accurate display of the machine's position relative to fixed infrastructure or hazards

> Ability to use 2D and 3D watch zones and warning zones by Geofencing infrastructure

> Fixed Hazard Collision Warning technology provides audible and visual alarms when the machine approaches too closely to pre-defined hazards such as buildings, slump zones, prohibited tramming areas and so forth

> Virtual play back of incidents

> No survey or grade check is required and with wireless data exchange, there is no need to have personnel gain access to machines to upload/download data.

Productivity

> Track compaction in real-time with colour mapping

> Reach optimum density in less time

> Minimise daily cover by knowing volumes put down

> Simple screen display for ease of operations

> Tag delays and points of interest

> Operator Login available

> Accurately generate productivity reports
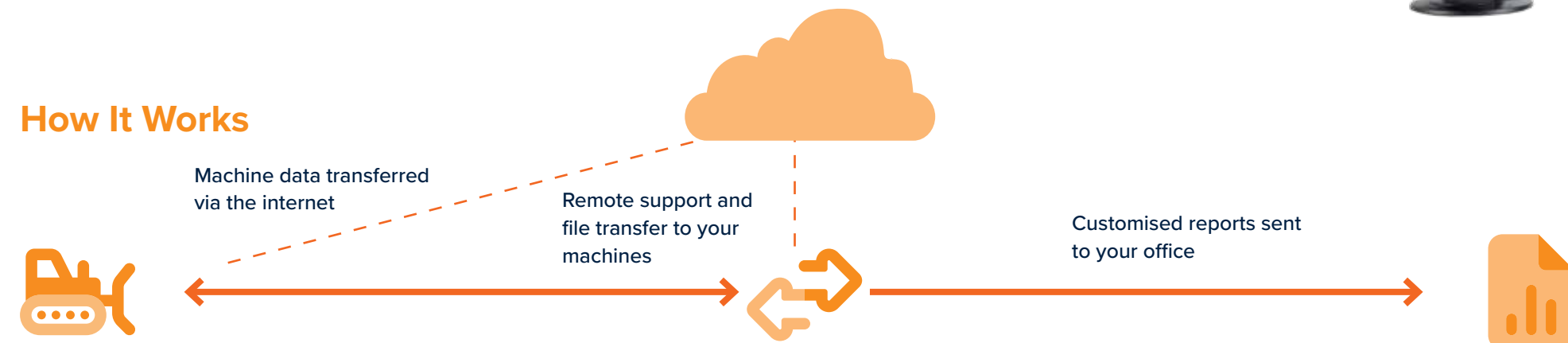
> Direct import of DXF/DWG files

Carlson Command

Data Management & Reporting

Carlson Command is a control, monitoring and data management system that transmits data from the machines to the office and from the office to the machines; increasing both safety and productivity and enhancing training opportunities.

How It Works

Machine data transferred via the internet

Remote support and file transfer to your machines

Customised reports sent to your office

Real-time monitoring
> Monitor multiple machines in multiple views, from any location using the web as long as they have an internet connection
> View machine positions on site
> See cut/fill and elevation levels in real time
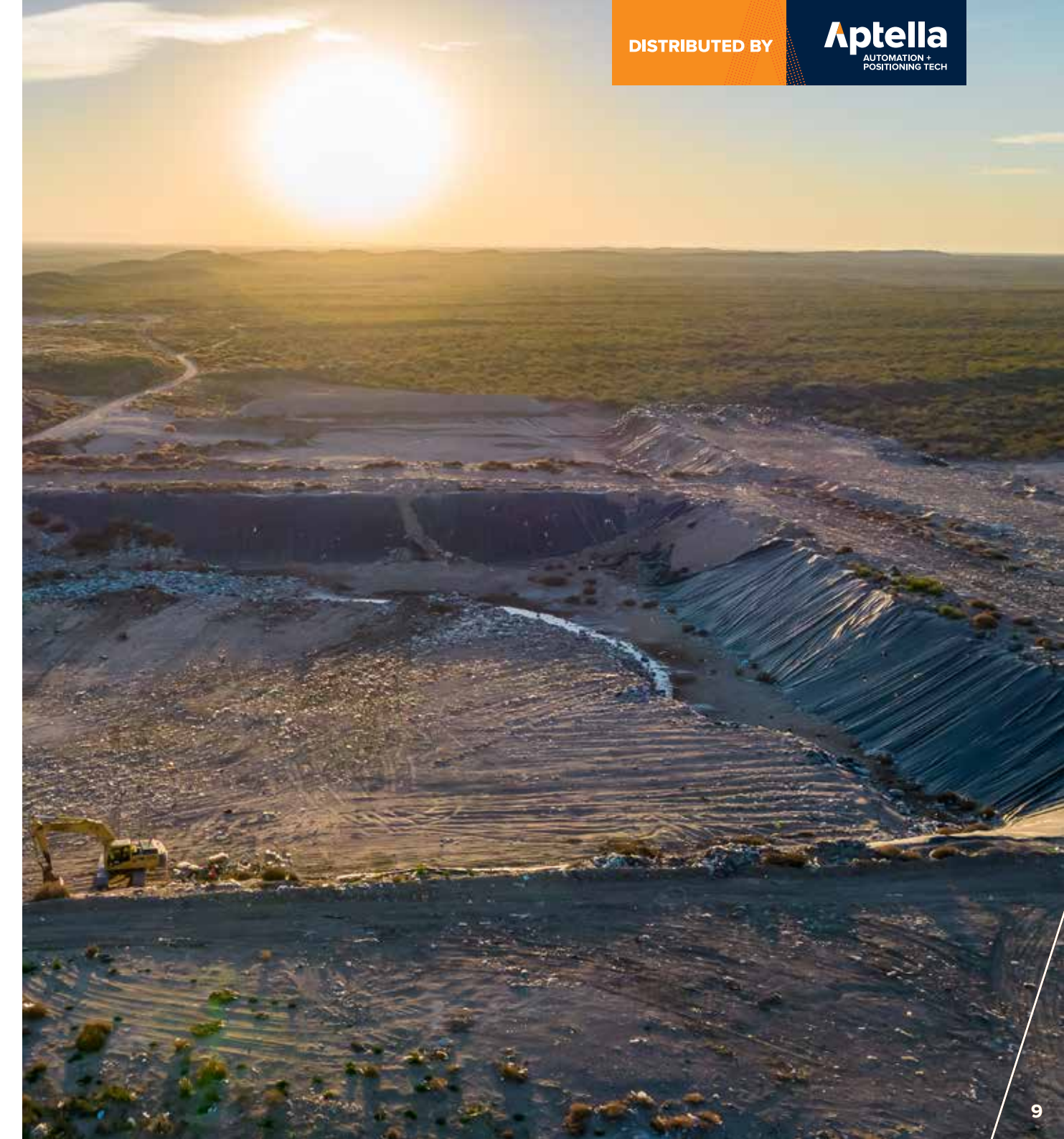> Instant message each machine with updates

Report types
> Weekly/monthly AUF (density)
> Volume reports
> Efficiency reports
> Daily work area
> Real-time cut/fill colour map

Reports include
> Uptime
> Idle time
> Delay & downtime tracking
> Operator timesheets
> Project tracking

Carlson Command Benefits
> Send projects and configurations to a single machine or your whole fleet
> Transfer data in real-time, knowing the data is current and accurate
> Assign tasks through the task feature, ensuring operators are logging their time accurately
> Manage, view, and create custom reports
> Productivity analysis and reporting
> Easy to view dashboards

tokara

Tokara

Fast, Responsive support

At Aptella, we recognise that every project, site and customer has unique requirements, so we have created a modular solution to meet the evolving demands of your business.

Tokara is a scalable and expandable remote service that uses both web and server infrastructure to provide real-time support and training solution for our geospatial solutions.

Tokara is a turn-key service providing the data plan, server infrastructure, user interface and expert support.

With the power to monitor, service and control your assets from the office and in real-time, Tokara guarantees a safer and more efficient working environment.

All Day RTK
Enabling Geo-Precision

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AllDayRTK is a Continuously Operating Reference Station (CORS) network providing accurate Network RTK positioning services throughout Australia and New Zealand. AllDayRTK benefits all industries requiring accurate, reliable GNSS positioning. AllDayRTK delivers cm-level accuracy anywhere within a networked area, eliminating the need to setup and maintain a temporary base station.

Aptella has established an extensive network of Continuously Operating Reference Stations (CORS). In addition, we have collaborated with network RTK providers right around Australia, including state-owned infrastructure networks such as CORSnet and VICpos.

AllDayRTK provides a seamless link between these networks to bring you the most comprehensive network RTK solution available.

Topcon HiPer CR
Site Receiver

Get precise centimeter-level accuracy effortlessly with this compact powerhouse, ideal for various survey and construction tasks. The HiPer CR is an ultra-lightweight and compact solution that minimizes pole weight, ensuring easy mobility and field usability. Despite its small size, the HiPer CR integrated helical antenna excels in challenging canopy and jobsite environments, delivering exceptional performance.

HiPer VR
Versatile GNSS Receiver

The HiPer VR is small and light, but don't let its small size fool you. It's not only packed with the most advanced GNSS technology, it's also built with a rugged housing – not weak plastic – to take the punishment of the job site.

HiPer HR
Advanced GNSS Receiver

Part of our Elite Survey suite, it's highly configurable and designed to grow with you. You can track every satellite signal above, and handle any job that comes your way.

DJI

M350 RTK
Powered to Forge Ahead

An upgraded flagship drone platform, the Matrice 350 RTK sets a new benchmark for the industry. This next-generation drone platform features an all-new video transmission system and control experience, a more efficient battery system, and more comprehensive safety features, as well as robust payload and expansion capabilities. It is fully powered to inject innovative strength into any aerial operation.
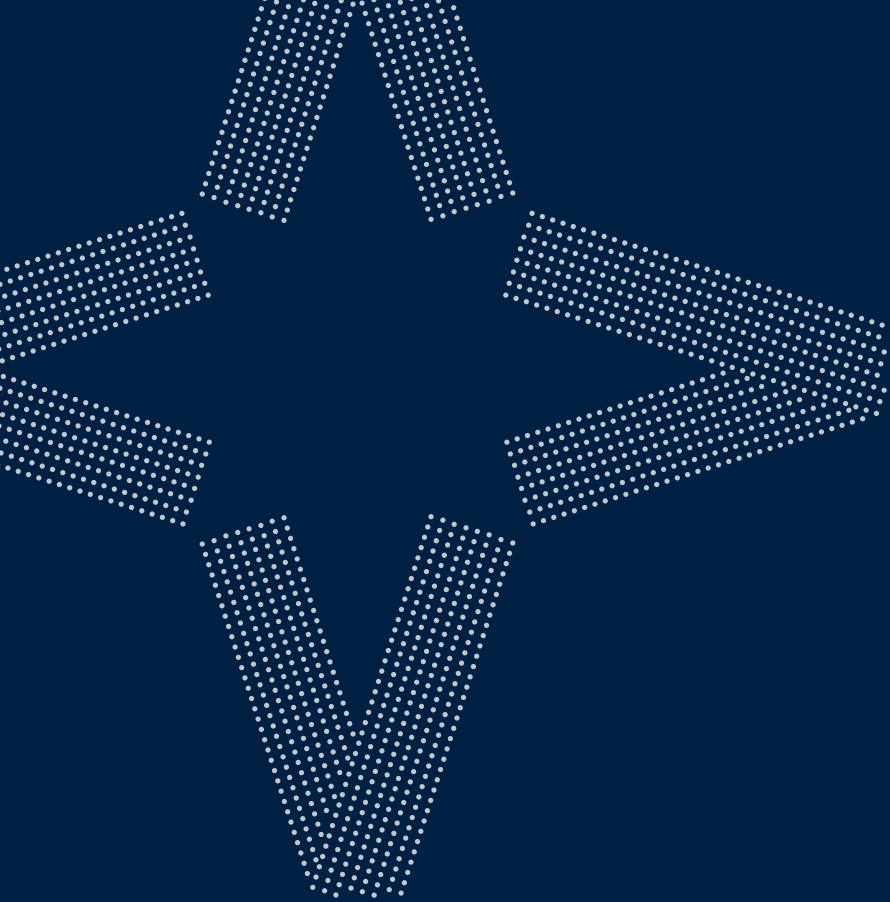
QUANTUM SYSTEMS

Trinity PRO
The Mapping Drone For Professionals

Trinity Pro is designed to adapt to changing requirements, evolve in capabilities, and accelerate decision making through aerial data. Future integrations like AI capabilities give new insights and help professionals in various industries to make more informed decisions and drive their business forward.

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