



**CIVIL
CONSTRUCTION
SOLUTIONS**

Aptella
AUTOMATION +
POSITIONING TECH

Why Aptella

We're there when you need us

With more than 30 years' experience in the civil construction industry, Aptella and its founding businesses have continuously broken new ground in the application of positioning and machine control technology to enable safer, more efficient and more productive construction methodology.

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 400 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.

How We Work

UNDERSTAND

We enhance with knowledge.

We are tapped into the technology market and our customers' businesses, harnessing our diverse expertise to build tailored solutions from inside the industry.

INNOVATE

We are seeking the new.

We source the latest technology from around the world, leading our customers with innovative solutions tailored to their needs.

PARTNER

We will support for the long-term.

We are the trusted technology partner, helping to drive efficiencies and ensure return on investment for every customer.

Where We Work

We operate throughout Australia, New Zealand and Southeast Asia

> Melbourne

> Sydney

> Perth

> Brisbane

> Canberra

> Adelaide

> Darwin

> Townsville

> Rockhampton

> Coffs Harbour

> Hobart

> Launceston

New Zealand

> Auckland

> Christchurch

> Hamilton

> Wellington

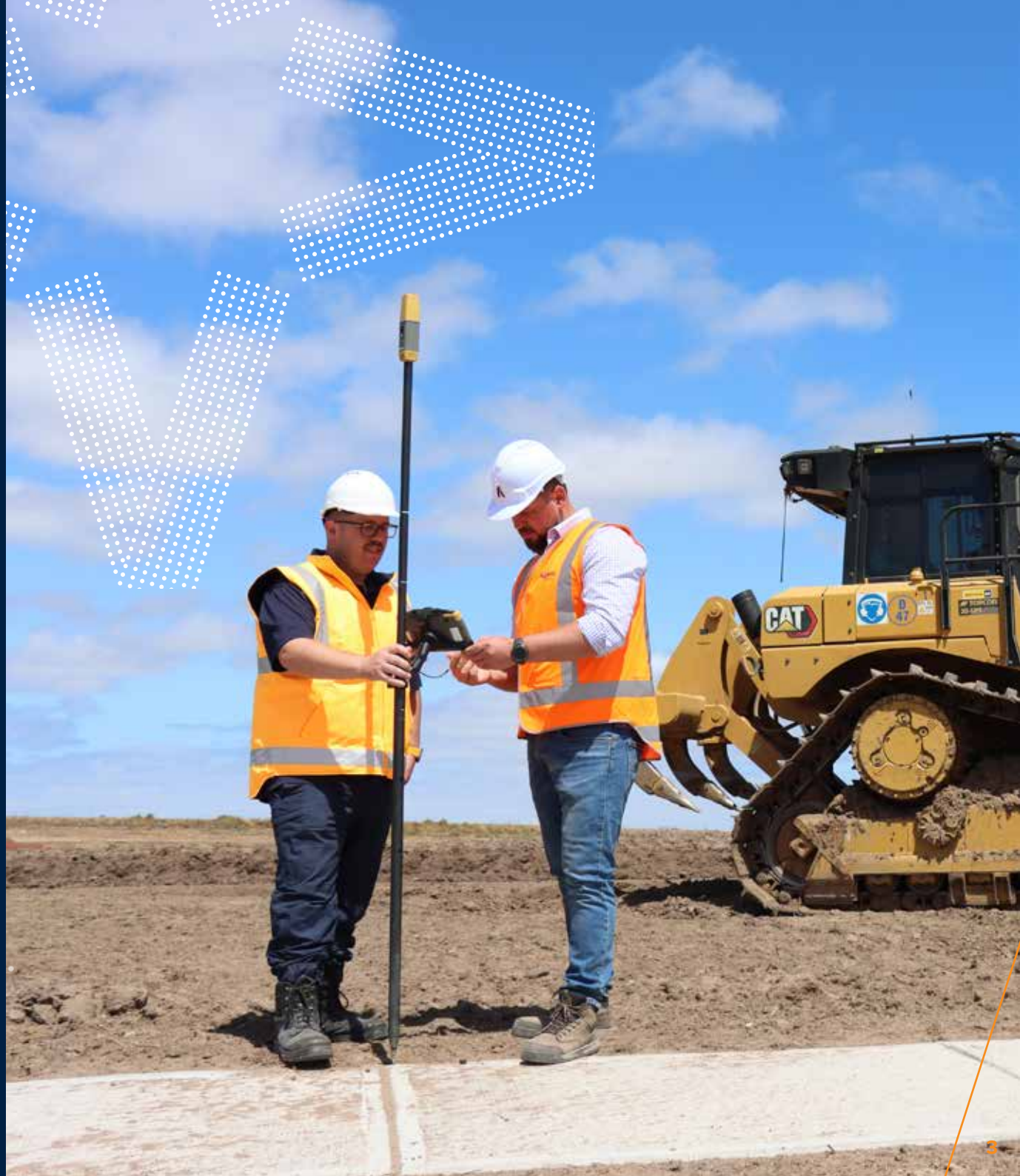
Southeast Asia

> Jakarta

> Singapore

> Manila

> Kuala Lumpur





Manage Everyone Working To A Design From A Single Interface

Tokara is the gateway to every machine and survey asset in the field

For all machines & survey assets

Tokara lets you send and receive files from most leading positioning technology brands and machine makes.

Project-wide and fleet wide

Whether you're managing multiple assets on a single project, or a fleet across multiple projects.

Fast support a phone call away

Remote support for Topcon positioning systems, plus view and connect with other branded systems.

Remote Access & Support

Tokara lets you remotely access the screens of your machine control and survey instruments with a single click.

Access Topcon and other factory or aftermarket devices remotely.

Send & receive messages to operators, surveyors & managers.



Tokara Support Plans

To ensure that your machine control and survey equipment is always performing at its 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 Tokara support hubs dedicated to ensuring requests are quickly actioned to maximise your machine uptime.

Our comprehensive plans combine the benefits of Tokara with access to our technical experts, to give contractors and project managers peace of mind that technical assistance, operator training and remote updates are available as needed, reducing the need for on-site visits.



Learn more

Manage design files across all devices from a single portal

Tokara Office is designed for surveyors, contractors and managers to proactively control the design file management process across a fleet of machines and rovers.

Whether you're working on one site or managing your fleet across several projects, Tokara helps you to ensure everyone is working to the correct design file.



One to many file transfers, multi-brand

Instantly send design updates to all machines and supported survey rovers, including mixed brands of machines and positioning technology.



File transfer history by machine, device or group

View what files were sent with the date and time sent as well as the date and time downloaded.



Colour-coded file status for proactive management

Quickly see who's working with the latest design files using Tokara's intuitive colour-coded system.



Version control and recovery

Stay in control with automatic version tracking and the ability to recover deleted files within 5 days.

Your World on a Map



View and access critical information at a glance

View the machine or device type, online status, connection strength and last known location (updated every 10 minutes) and more.



Interactive map to create group or measure

Draw the boundary of a project to create a new geofenced file group. Use the ruler feature to measure distance between CORS GNSS bases and devices.



Live filters to get the data you need

Filter your assets by status, file group, serial numbers, name or any other parameters you use to organise your assets and check their status.



Visualise your design and identify black spots

Tokara enables you to overlay KML files and drone imagery on the map, giving you a design reference for where assets are working. UHF and cellular signal strength overlays alert you to any black spots on site.



Additional Information and Reporting



Machine calibration files or build files

View both current and historical machine calibration or build files. Restore previous builds using backed up data.



Current Network RTK session info

View the connection information to CORS Network including login details and the base station connection.



Create serialised hardware reports

Report on your trackable machine control and survey components via serial number, name, or custom parameters.

Reporting your way

Setup scheduled GNSS usage reports with the option for detailed summary, weekly summary or yearly summary.

Online status alerts

Set up Tokara to email alerts when machines and devices are next online.



Network GNSS Solutions

AllDayRTK records and distributes GNSS position correction information using a network of Continuously Operating Reference Stations (CORS). AllDayRTK is purpose-built to meet the rigour and quality required for the demanding tasks of all geospatial applications and civil infrastructure projects across Australia and New Zealand.



Reliability

- > Australia and New Zealand's most reliable Network RTK solution
- > Secure, accurate, repeatable positioning
- > Positioning infrastructure consulting services for project sites



Innovation

- > Consultancy and research projects for automation using GNSS infrastructure networks
- > Senior management contribution to Australian Space Agency
- > Partnered with world leading positioning innovators



Australia Wide

AllDayRTK
AllDayRTK **PLUS**
AllDayRTK **RINEX**



Projects

AllDayRTK **SITE**
AllDayRTK **FOCUS**



MiRTK

MiRTK provides internet enabled correction services to rover devices, replacing the need for UHF radios.

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Learn more

Support Solutions - Consulting, Servicing & Rentals

On-Site Technical Services

At Aptella, we understand that even the most robust equipment needs maintenance and technical support. When it does, trained field service engineers are on-hand to provide corrective action and advice for minimum downtime.

No other supplier can match the breadth and depth of our on-site technical know-how. Regional support hubs at remote locations in Queensland and Western Australia have been established in response to major infrastructure and mine projects.

All field service engineers are trained by product manufacturers to give unrivalled technical expertise. We provide flexible Support Level Agreements (SLAs) that cover on-site installation and deployment, calibration, network interfacing, maintenance and repairs, plus remote diagnostic capabilities with Tokara.

When an installation or technical specialist from our team arrives on site, customers can be assured that all on-site safety regulations and procedures will be followed.

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.

Flexible Equipment Hire

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.

Paving and Surfacing Consulting

Aptella's in-house Paving & Survey Services team (formerly Synergy PaveSmart) delivers full-service support for civil infrastructure projects, combining survey expertise, precision machine control, and on-site delivery. The team can supply both the technology and skilled crews, including Machine control operators, Surveyors and technical support, to complete the job safely and efficiently.

With experience across over 300 airport projects and major roads, bridges, and racetracks throughout Australia, New Zealand, and Southeast Asia, Aptella brings deep capability to complex, large-scale works. Services include Surveying, milling and paving control, road scanning, Ride quality testing, and pavement design/reporting.

GNSS Infrastructure and Correction Services

Aptella delivers robust GNSS solutions to support survey, machine control, and automation across civil construction projects. Services include site-specific GNSS network setup, solar-powered base stations, and repeaters tailored to project needs.

With access to AllDayRT, Australia and New Zealand's most reliable RTK correction network, and MiRTK internet-based corrections, Aptella ensures centimetre-level accuracy without relying on UHF radios.

These teams also provide GNSS interference mitigation, hybrid positioning support, and consulting for large-scale infrastructure and automation projects.



Academy Training Courses

Our expert trainers are here to help you get productive immediately. Enable your team to take control of your projects by empowering your people with the know-how to use technology to their best advantage.

Our training is application specific and tailored to your industry, providing the perfect foundations to tackle any task or project.

We believe in learning by doing, with Academy courses that balance theory with practical, hands-on training that is relevant to real-world scenarios and applications.

- > On-site training courses
- > Classroom learning at Aptella offices
- > Classroom learning at customer offices
- > eLearning on-demand courses
- > Academy Accreditation for successful course completion



Scan to see courses available

Topcon Lasers, Levels & Grade Tools

Topcon Construction Laser

Topcon RL-H5A

The RL-H5A is the self-levelling, accurate, reliable, multi-purpose construction laser produced by Topcon. It is an accurate and reliable long-range, multi-purpose construction laser level, ideal for a broad scope of applications such as grading, drainage, site set-up, excavation, concreting, earthworks and general construction. The Topcon RL-H5A laser is extremely versatile.

- > Long-range operation (800m)
- > Simple, intuitive manual slope capability
- > Tough IP66 construction rating
- > Automatic height of instrument alert (elevation alert)
- > Topcon tough design with 5-year warranty and unparalleled accuracy



Grade Lasers

Topcon RL-HV Series & RL-200

Get to grade accurately and efficiently with the Topcon RL-HV1S single grade laser level. Designed for all manner of horizontal, vertical or single slope levelling tasks, the HV series is a great option for earthmoving contractors, builders, concreters and other building trades.

Get a laser level that is up to every job with the Topcon RL-HV2S dual grade tool. Packed with features and Topcon's signature precision and reliability, the new HV series won't let you down. Ideally suited to more complex earthmoving and levelling tasks.

As one of the most advanced rotating lasers, slope lasers assist in calculating the exact angle of a slope. The RL-200 Series provides slope lasers that can be used over long distances, giving accurate slope measurements.



Topcon Pipe Lasers

Topcon TP-L6 Series

Topcon's TP-L6 Series Pipe Lasers offer a combination of features and technology that are proven to meet the demands of contractors more than any other alignment lasers on the market. With a new compact design the Topcon TP-L6 can be used in even the tightest of pits. Available in economical red beam or high visibility green beam, the new Topcon pipe lasers come with better than ever battery life to keep you working.

- > -15% to +40% grade capability to suit every job
- > Self levelling so you know you are working accurately
- > Left/right beam line control
- > High-contrast easy-to-read display panel
- > Increased beam clarity & brightness available in red or green beam
- > Topcon tough design with 5-year warranty and unparalleled accuracy



Topcon Digital Levels

Topcon DL-501 Series

The DL-501 Series incorporates an array of advanced technologies to achieve the highest levelling accuracy in the industry.

- > RAB-Code technology, superior optics, market-proven compensator and magnetic damping system ensure precise staff readings.
- > Dual-axis compensator notifies instrument tilt, RemoteTrigger prevents accidental jolts, and Auto Focus (DL-501Advanced model) eliminates incomplete focusing. These unique technologies remove major error factors.
- > Even in the dim light conditions, if the staff surface brightness is 20lx or more, the DL-501 series can read the staffs without compromising accuracy.
- > 0.2mm precision
- > Auto Focus
- > 2.5sec High Speed Measurement
- > 20Lxc Minimum Brightness
- > Dual Axis Tilt Sensor
- > Line Level Program
- > 10,000 Points Internal Program
- > SD/SDHC card & USB port



Topcon Auto Level

Topcon AT-B Series

Utilising a finely tuned magnetic damping system, AT-B Series automatic levels quickly level and stabilise the line of sight. These precision instruments ensure reliable levelling even when working near heavy equipment or busy roads where fine vibrations could be present.

- > Choice of 3 models – 32x, 28x and 24x magnifications
- > Rapid, accurate and stable automatic compensation
- > Ultra-short 20 cm focussing
- > All-weather dependable
- > Clampless, endless fine horizontal adjustments



Additional Elevation Control

Simple, effective, guidance

Enhance productivity with 2D elevation control, ideal for fast grade checking, tight tolerance work and slopes.

- > sonic trackers
- > Laser receivers
- > Tracker jacks

Topcon's LS-B series of machine-mounted laser sensors are affordable grade indicate systems designed to improve production and accuracy without relying on grade checkers or jumping in and out of the cab to check levels.



Mass Haul & Weighing

LX-100

On-board weighing solutions for excavators

This easy-to-use system gives operators accurate bucket weight information at their fingertips, to increase productivity and reduce machine wear.

With the ability to store data for accurate record keeping, traceability and stock management, LX-100 is a flexible solution that can be customised to suit a wide range of earthmoving applications, attachments and accommodate a variety of active jobs simultaneously.

Now available as integrated Load Weighing upgrade to Topcon MC-Max, see page 22 for more information.



LM-100

On-board weighing solutions for loaders

LM-100 has been designed to operate within the fastest loading environments and toughest of conditions compensating for uneven, sloped ground and restricted loading areas reducing cycle times and maximising tons per hour performance.

Loading correctly first time eradicates return trips to the stockpile reducing vehicle movement, fuel usage and machine and tyre wear. Plus, you can opt for a Trade version that enables you to transact from your weight figures.



Weighlog α10

On-board weighing solutions for compact loaders

Loading correctly first time maximises productivity, reduces vehicle movement, fuel usage and machine and tyre wear.

Suitable for use with up to 10 different attachments e.g. buckets or forks, the system can be retrofitted onto compact wheeled loaders, telescopic handlers, forklifts and skidsteer type loaders.





Scale Calibration Service

Apella has a fleet of trucks available to calibrate scales and weighbridges, to ensure systems are working accurately and within tolerance. It is recommended to calibrate your scales every 6 months to ensure optimal performance.

- > Loader scales
- > Excavator scales
- > Forklift scales
- > Weighbridges
- > Belt scales



Scale calibration for all makes of machine and all brands of on-board scales



Available Australia-wide with trucks covering East and West Coasts



Mine-spec machines and weighbridge calibrations available

3D Machine Control Solutions





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Topcon MC-Mobile

Design, measure and build in one

Topcon has combined key technology from surveying and machine control to increase efficiencies, while reducing wait times and staffing needs for your small and mid-sized jobsite projects. MC-Mobile equips you with everything you need to perform layout and in-field design to build your jobs and to verify the results.

Displays and other components are designed to be easily shared across numerous machines in owned or rental fleet environments. These pieces can also be moved from grade checking/layout rover pole to machine and back.

- > GPS and LPS positioning technology compatible
- > 3-year warranty on serialised components
- > Fully compatible with Tokara remote access and support



**NOW AVAILABLE FOR
WHEEL LOADERS!**



MC-Mobile Solution For Excavator

- > Supports swing booms
- > Tilt bucket, tilting hitch and tilt-rotator support
- > Hardwire and hire compatible
- > Move from machine to pole for layout, grade check and topo



MC-Mobile for Compact Track Loaders

- > Level Best grader/box blade, Sharpgrade blade and Kubota box blade attachments fully supported for automatics
- > Other attachment types indicate only support
- > Hardwire and hire compatible
- > Move from machine to pole for layout, grade checks and topo



MC-Max Excavator

GNSS – Auto and Indicate Icon

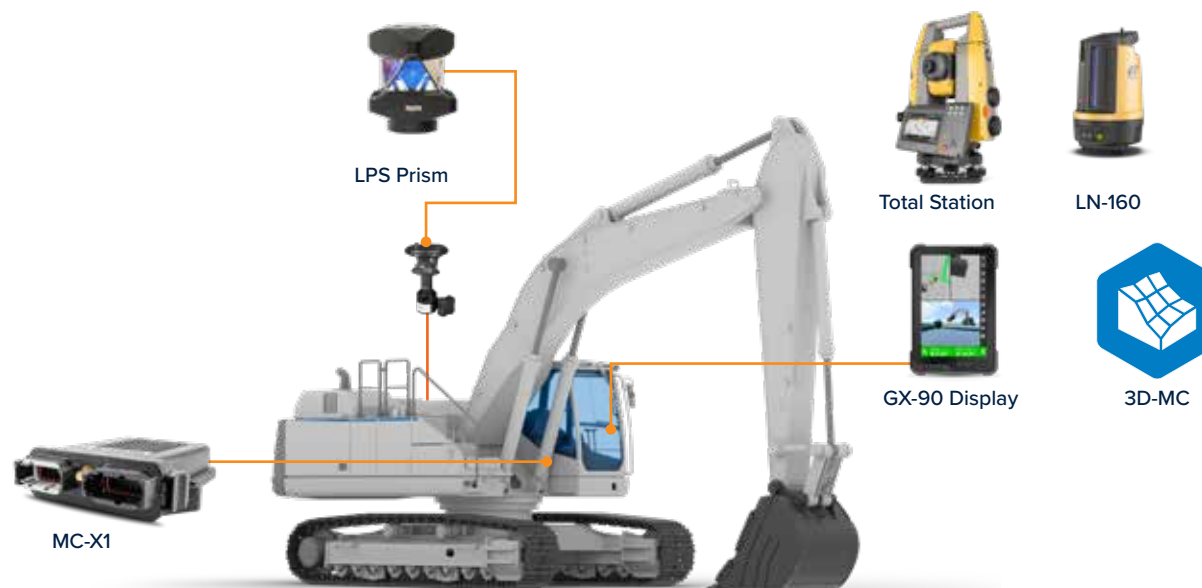
- > Compact, safety-certified valve controller and joystick.
- > The UR-1 is a radio module to communicate via UHF/915 SS with local base stations and an internal cell modem to communicate with 4G networks.
- > MC-Max excavator system utilises -TS-i4 sensors. TS-i4 sensors are IMUs that are not affected when starting, stopping or turning.
- > The bright and robust GX-Series delivers a brand-new experience for modern machine control. The 3D-MC software on the GX-Series provides real-time position and project design information, with integrated grade indicator LEDs.



Local Positioning System (LPS)

Use optical positioning for jobsites where there is limited open sky, such as under tree canopies, in built-up areas, under bridges or in tunnels.

- > Robotic total station to identify the correct position of the machine on the jobsite.
- > Uses the same core components as other MC-Max solutions, making it flexible to swap between GPS and LPS positioning.



NEW BENEFITS + UPGRADES!

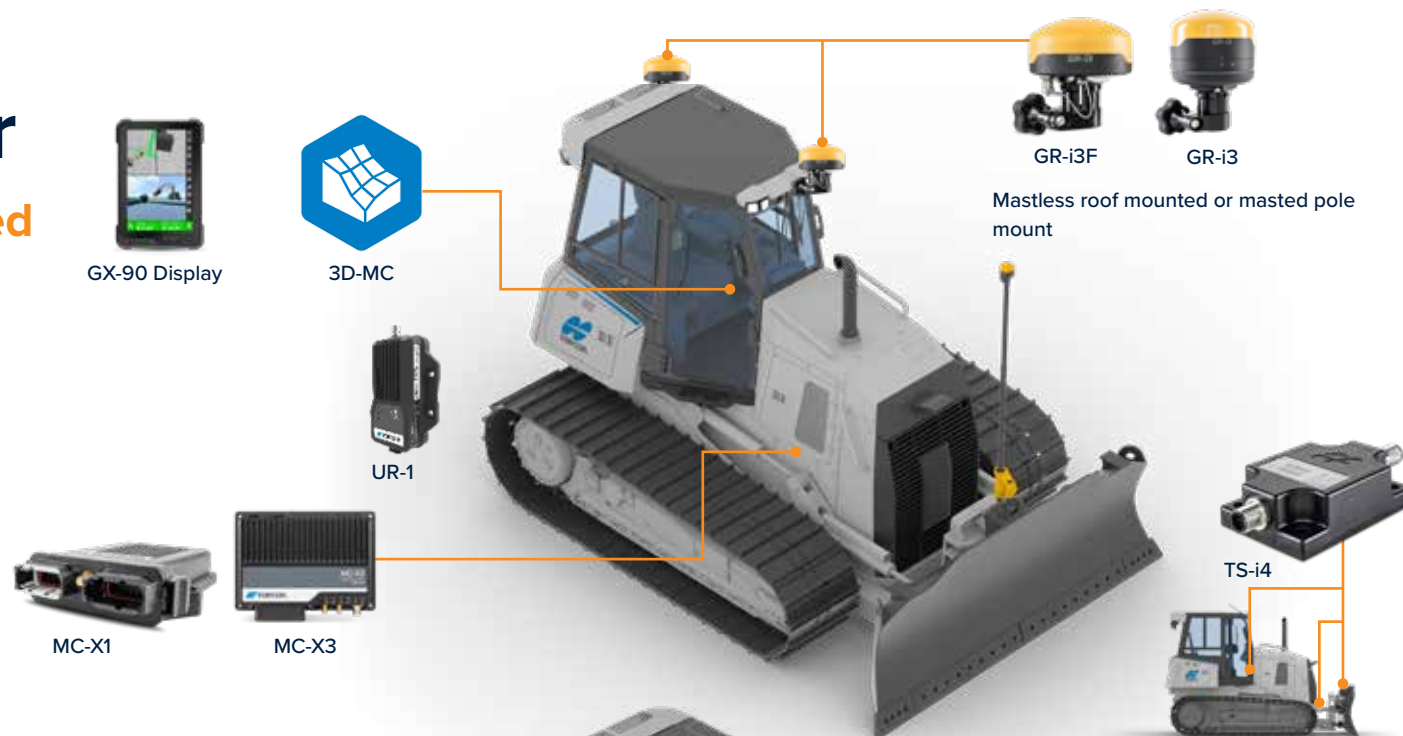
- > Fully integrated Load Weighing for accurate truck loading within the 3D-MC interface
- > Supports tiltrotators, knuckle and offset booms
- > Safety awareness upgrade detects people, plant, or obstacles inside working area
- > Fully automatic upgrade available



MC-Max Dozer

GNSS - Mastless or Masted

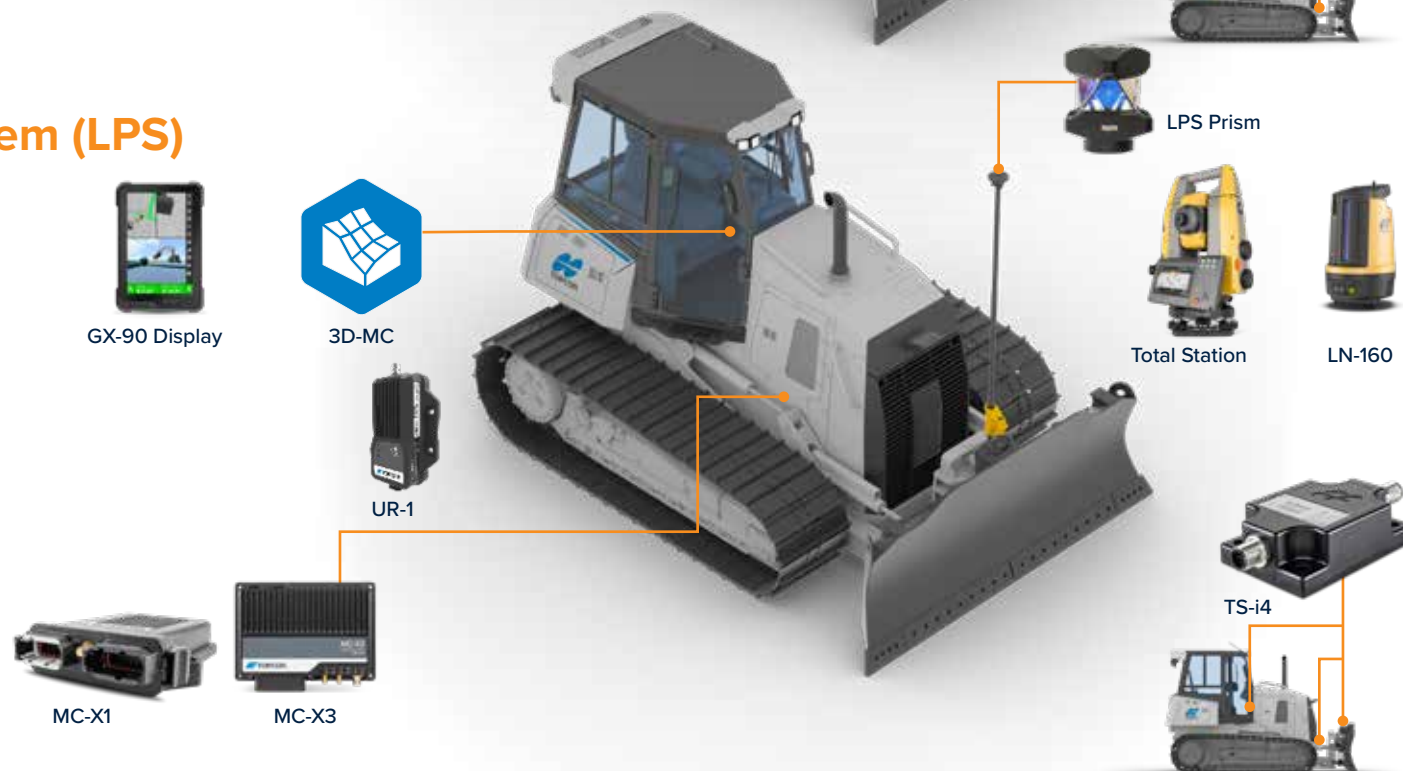
- > Multiple constellation tracking for reliable GNSS fix and accurate positioning
- > Hardwire and hire options available
- > Full Tokara remote access and support available



Location Positioning System (LPS)

Use optical positioning for jobsites where there is limited open sky, such as under tree canopies, in built-up areas, under bridges or in tunnels.

- > Robotic total station to identify the correct position of the machine on the jobsite.
- > Uses the same core components as other MC-Max solutions, making it flexible to swap between GPS and LPS positioning.



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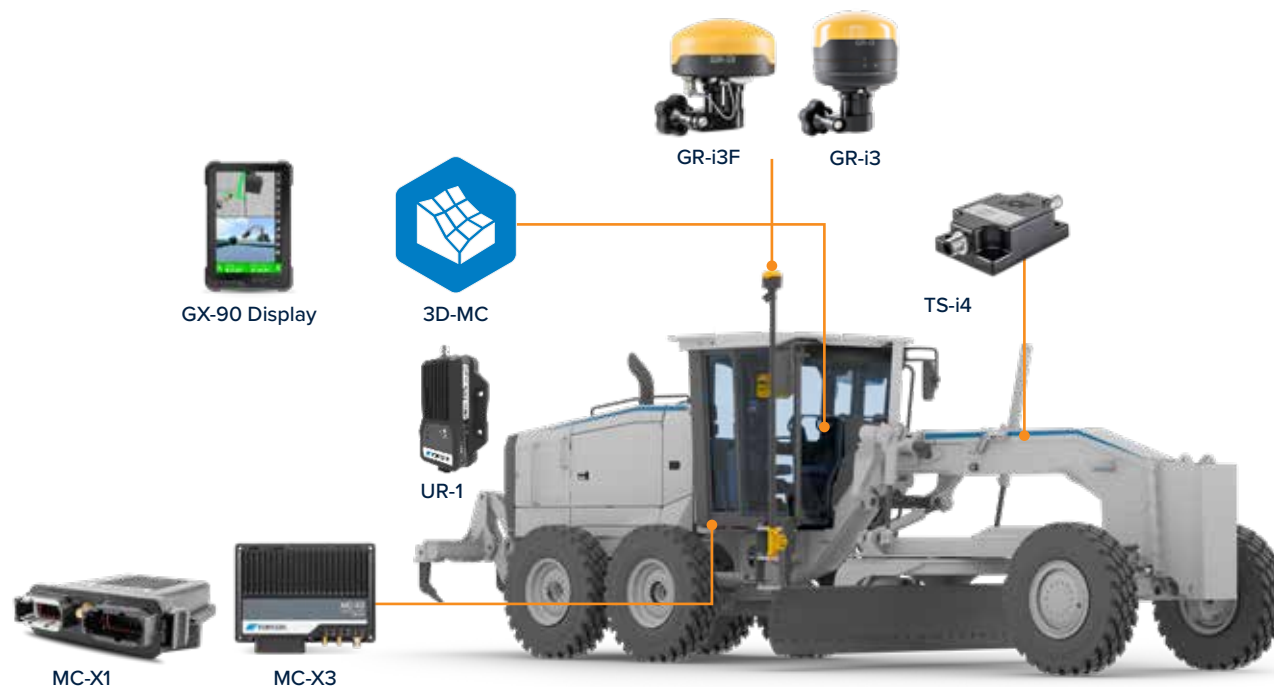
**NOW AVAILABLE
FOR WHEEL
LOADERS!**



MC-Max Grader

GNSS Single/Dual

- > The bright and robust GX-Series delivers a brand-new experience for modern machine control. The 3D-MC software on the GX-Series provides real-time position and project design information, with integrated grade indicator LEDs.
- > The masted GNSS configuration is available with the MC-X3 controller. Machine interface connection via CAN bus enables machine direction detection so that the direction of motion on the screen remains the same for single GNSS machines.
- > MC-Max Grader system utilises TS-i4 sensors. TS-i4 sensors are IMUs that are not affected when starting, stopping or turning.



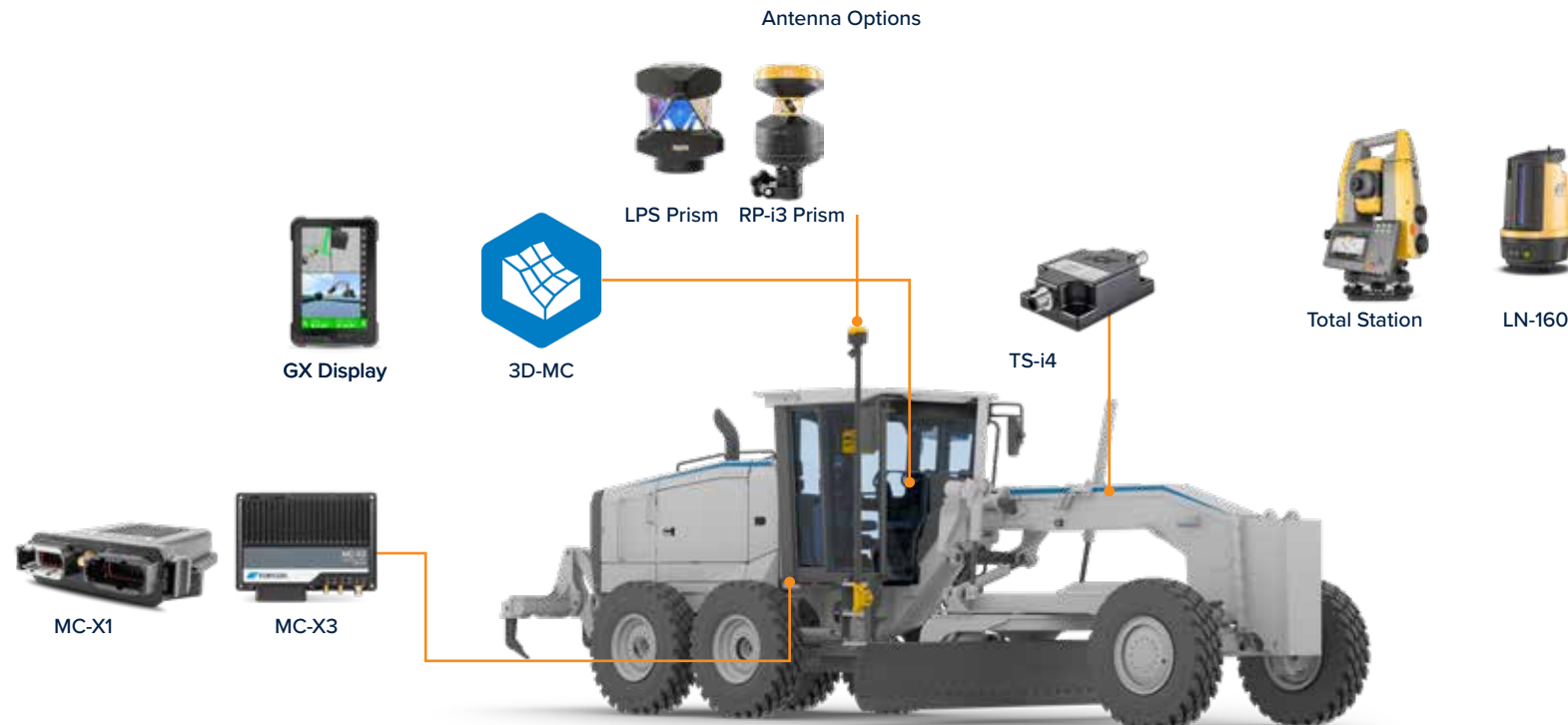
Millimetre GPS

- > The Millimetre GPS solution is configurable with the vibration mount, PZS-i3 and GR-i3 on the mast.
- > The bright and robust GX-Series delivers a brand-new experience for modern machine control. The 3D-MC software on the GX-Series provides real-time position and project design information, with integrated grade indicator LEDs.



Location Positioning System (LPS)

- > The A7R prism is available for LPS-only machines.
- > The 3D LPS solution can be easily configured for GNSS. The A7R can be removed and replaced with the GR-i3F on the mast.
- > Additionally, the RP-i3 prism can be replaced with the GR-i3 for GNSS capability.
- > 2D components may be used in conjunction with LPS machine files and configurations. Additionally, the 2D sensors may be used without 3D elevation sensors for 2D-only applications.
- > Robotic total station to identify the correct position of the machine on the jobsite
- > LN-160 Layout Navigator to identify the correct position of the machine on the jobsite.
- > The MC-X3 controller extends the functionality of the MC-X1 with an UHF/915 SS internal radio module to communicate with local base stations and an internal cell modem to communicate with 4G networks.
- > The bright and robust GX-Series delivers a brand-new experience for modern machine control. The 3D-MC software on the GX-Series provides real-time position and project design information, with integrated grade indicator LEDs.



3D-MC Edge

Indicate 3D Machine Control

Designed for blade-driven machines including scrapers, compactors and dozers, 3D-MC Edge offers a cost-effective, high-accuracy GNSS system.

- > Reduce fuel waste and machine wear by getting to grade without undercutting or overfilling
- > Responsive, smooth, performance utilising Topcon's latest MC-X platform components and advanced 3D-MC software
- > Compatible with all makes and models





Paving

Relative or Absolute?

Is there a pre-defined design?
Tied to project control and elevation?
Incentive on elevation tolerance?
Incentive for meeting the design criteria?
Yes? Then mmGPS or LPS is the answer.

Relative to the existing surface?
Incentive based on smoothness?
Incentive based on material quantities?
Looking to correct cross slopes?
Yes? Then 2D or SmoothRide is the answer.



3D Paving – mmGPS or LPS

Free your paving from the confines of stringlines and other linear references and move production to the fast lane.

Advantages:

- > High accuracy grade reference covers your entire project – eliminating stringline
- > mm-GPS provides precise vertical data to multiple machines and surveyors
- > Handover with transmitters or total stations for a larger workable area
- > Pave complex transitions, even through horizontal and vertical curves
- > Share components with other Topcon 2D and 3D machine control systems



2D Paving/Smoothride

Advantages:

- > Variable control to suit real world conditions
- > Collecting data safely
- > Differential compaction calculations
- > Saves on materials
- > 100% coverage of work area

Intelligent Compaction

- > 100% coverage of work area - know you've covered the whole road
- > Identify weak zones in road - save rework down the track
- > Add accelerometer & temperature sensor to common Topcon components
- > Reporting - compaction, temperature, pass count. etc



Topcon C-53 Intelligent Compaction System

The Topcon C-53 system transforms your compactors into intelligent machines that do more than count passes, they deliver real-time insights to optimise every layer of your pavement.

With integrated accelerometers and temperature sensors, operators and project managers gain visibility into compaction quality, surface conditions, and coverage across the entire site.

Whether you're identifying weak zones, tracking pass counts, or generating detailed reports, the C-53 helps reduce rework, improve material performance, and meet project specs with confidence. It's the compaction solution that keeps your crew informed, efficient, and ahead of schedule.



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GNSS Survey Instruments

Aptella offers multiple options for GNSS corrections on site, from solar powered site bases and repeaters, to Network RTK subscriptions and our MiRTK alternative to UHF service.

HiPer XR

Cross Platform Receiver

The HiPer XR's lightweight design ensures effortless portability, allowing professionals to work efficiently across diverse job sites. Its multi-constellation support delivers improved accuracy by tracking multiple satellite systems simultaneously, ensuring reliable data even in complex conditions.

- > Calibration-free and immune to magnetic interference tilt compensation up to 60°
- > GNSS interference monitoring and mitigation technology for anti-jamming and anti-spoofing
- > Improved RTK performance for more reliable results



Topcon HiPer CR

Network Only Rover

Get precise centimetre-level accuracy effortlessly when you combine the Topcon HiPer CR with an AllDayRTK network connection subscription. This compact powerhouse is ideal for various survey and construction tasks.

The HiPer CR is an ultra-lightweight and compact solution that minimises pole weight, ensuring easy mobility and field usability. Despite its small size, the HiPer CR excels in challenging canopy and jobsite environments, delivering exceptional performance.



Supervisor Kit

A rugged, reliable supervisor kit to quickly and easily check as-builts and manage projects within your vehicle or on the rover pole.

- > Roof rack or bullbar vehicle mount options
- > In-car display mounts on the windscreen, DIN slot or floor pole
- > Pocket 3D on-board software
- > Android CTX8X2 field tablet
- > Compact, lightweight HiPer CR GNSS Receiver



Intelligent Safety

Blindsight is a complete safety solution for the most dynamic industrial environments. Built on industry-leading AI vision, Blindsight detects, alerts and informs your team on high-risk interactions that matter most. From operator alerts and data for your daily toolbox reporting to worksite safety benchmarking, Blindsight allows your team to course-correct behaviours swiftly.

- > Automatic detection of people to protect workers in dynamic environments without the need for tags
- > Real-time reporting and safety index benchmarks to measure your workplace safety metrics
- > Video capture of each trigger event to give managers powerful insights into site safety behaviours
- > Configurable to your site and workplace health and safety processes and procedures



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NavVis VLX

Mobile Reality Capture

NavVis VLX3/MLX is a mobile mapping system designed for laser scanning and AEC professionals that enables high-quality reality capture of complex buildings and construction sites.

Capture 3D measurements with two multi-layer LiDAR sensors in combination with industry-leading SLAM software to deliver survey-grade point cloud quality. Four cameras positioned on top of the device take high resolution images in every direction for complete 360 capture.

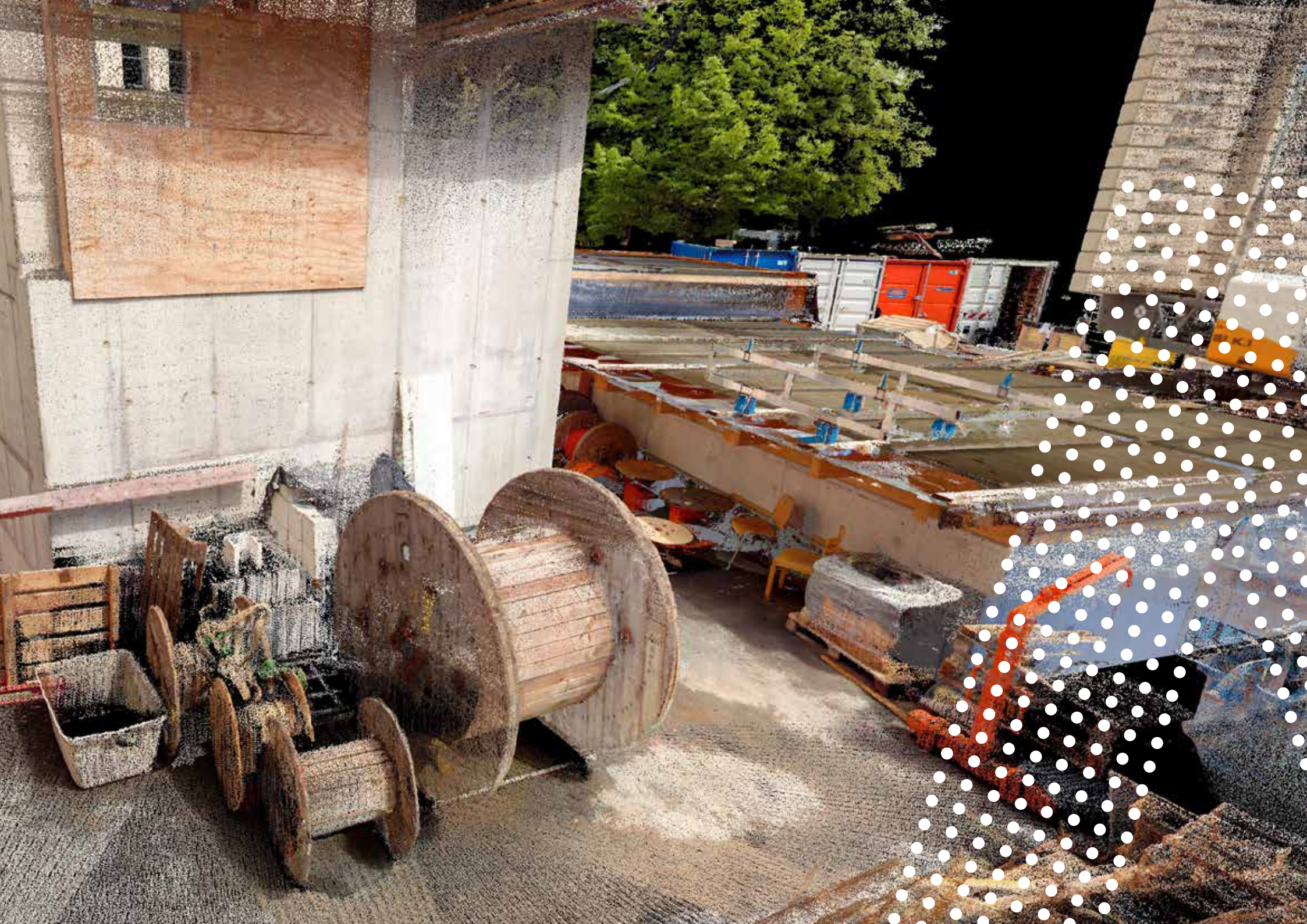
NavVis VLX + IVION

A Complete Digital Site Solution

Pairing NavVis VLX with NavVis IVION, civil teams gain a powerful platform for turning scan data into actionable insights. IVION enables remote site access, construction verification, and collaboration via any browser, reducing site visits and streamlining communication. Teams can compare as-built conditions to BIM models, annotate discrepancies, and share findings instantly.

With built-in tools for scan-to-BIM, model validation, and issue tracking, VLX + IVION helps reduce rework, accelerate approvals, and keep projects on schedule. It's a complete solution for capturing, verifying, and managing construction data, all from one integrated workflow.





Monitoring Solutions

Senceive Wireless Monitoring

Senceive's wireless systems are engineered for long-term, low-maintenance monitoring of critical infrastructure. They provide accurate, real-time data to support safer, more efficient asset management across a wide range of environments. range and long range LoRaWAN solutions.

Key Benefits

- > Up to 15 years battery life
- > No calibration or maintenance required
- > High-precision, repeatable data ($\pm 0.0005^\circ$)
- > Easy to install and operate
- > Reduces site visits and improves safety

GeoWAN 2.0

GeoWAN 2.0 is a long-range wireless platform ideal for large or complex sites such as tunnels, highways, and remote assets. It delivers reliable data transmission over vast distances, even in challenging environments.

Key Benefits

- > LoRaWAN connectivity up to 15 km
- > Operates through obstructions and underground
- > Supports dispersed and buried asset monitoring
- > User-replaceable batteries
- > Flexible gateway and antenna options



FlatMesh CameraHub

The FlatMesh CameraHub adds visual verification to your monitoring network. Designed for remote and industrial sites, it captures high-quality images triggered by sensor activity, providing immediate visual context for critical events.

Key Benefits

- > Solar-powered with low-light, monochrome camera
- > Event-triggered image capture
- > Self-cleaning lens for minimal maintenance
- > Real-time visual context for alerts
- > Rugged, autonomous operation



Basetime Locator One

An autonomous GNSS-based monitoring system with subcentimetre precision, and time as a fourth dimension.

The Locator One is a device engineered to autonomously monitor your embankment, structure or landform. For embankments, by placing a fleet of devices on settlement rods, observations are collected resulting in high accurate data delivered to the Basetime dashboard or a preferred information system.

The Locator One uses GNSS and RADAR sensors to monitor and present both the vertical movement of the original ground level and the height and thickness of the added layers. The GNSS sensor measures the exact position of the top of a settlement rod with the precision of – at most – 4.5mm in the Z direction and 3mm in the X-Y direction.



Monitoring Solutions

High Quality Vibration Monitoring

Are you concerned about the risk of vibrations causing damage to buildings and other structures? Monitor vibrations with the Omnidots solution! The “**SWARM**” vibration monitor, together with the cloud based “Honeycomb” web platform, provides you with insight to vibrations and helps you ensure that vibrations remain within the set limits. With Omnidots’ vibration monitoring solutions, you are in control of all your products, simply by using your smart phone, tablet or laptop.

Honeycomb webplatform

Honeycomb is Omnidots’ cloud-based web platform that provides access to your measurement data and SWARM settings without the need to install any software. With Honeycomb there is no need to physically configure the SWARM or retrieve its data at the construction site. You can reach Honeycomb 24/7 from any location, using your tablet, smartphone or laptop.

- > Wireless data transfer
- > Alert configuration
- > Remote SWARM configuration
- > Multi user
- > Customisable reports
- > Automatically generated reports
- > User friendly



Dust Monitoring

Omnidots' dust monitor is a robust industrial particulate matter (PM) sensor ready to be used in the roughest environments. It is designed specifically for construction and infrastructure projects. Ensure the health and safety of on-site personnel and nearby communities.





Professional Aerial Survey Tools

Aptella pioneered the introduction of Remotely Piloted Aircraft Systems (RPAS) for surveying applications in Australia. With unparalleled expertise in this new and innovative technology, you can be assured of the highest standards of expertise support, and remote support using Tokara on your drone controller, enabling you to maximise the benefits of aerial mapping for your application.

DJI Matrice 4 Series

Elevate Your Enterprise
Operations

Introducing the DJI Matrice 4 Series, a compact and intelligent multi-sensor flagship drone lineup designed to revolutionise enterprise applications. This series includes two advanced models: the Matrice 4T (M4T) and the Matrice 4E (M4E), each tailored to meet specific industry needs.



DJI Matrice 400 RTK

Matrice 400's flight capabilities are outstanding, offering up to 59 minutes of forward flight time even with a payload, and up to 53 minutes of hovering duration. These capabilities make it a reliable tool for long-duration and continuous operations such as search and rescue, firefighting, and large-scale mapping. It can also avoid large obstacles like buildings and mountains at flight speeds of up to 25 m/s.



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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