

TERRAVISION

CAPABILITY STATEMENT

+61 (08) 9364 5788 | SALES@SAT.COM.AU

A photograph of a satellite in orbit above the Earth. The satellite is on the right side of the frame, with its complex structure and solar panels visible. The Earth's surface, showing clouds and land, fills the left and bottom portions of the image. The background is the blackness of space.

**REAL-TIME
FLEET MANAGEMENT &
INFORMATION
COMMUNICATIONS
TECHNOLOGY**

ABOUT TERRA VISION

OUR COMPANY

TerraVision is an industry leader in real-time tracking, reporting and information systems and delivers solutions to agencies, governments and commercial industries all around the globe.

We specialise in breakthrough software and hardware technologies in the area of data acquisition, communications, telemetry and analytics.

With headquarters in Perth, Western Australia, we deliver tailored solutions to various industries worldwide including: Mining, Maritime, Passenger Transport, Fisheries and Mobile Network Communications.

Our solutions are tailored to the needs of our clients and our focus is to increase productivity, efficiency and performance across your business operations.

With over 25 years of proven history, we remain as one of Australia's leaders in telemetry based, passenger information systems.



ABOUT

Our Company	02
Our Mission	03
Our Core Values	03

OUR SOLUTIONS

Passenger Information Systems	05
BluePipe Mining FMS	06
VMS & Maritime Operations	07
Vehicle & Asset Tracking	08
Mobile Network Communications	09
Smart Systems	11

INDUSTRY- LEADING ADVANTAGES

Technology & Development	12
--------------------------	----

OUR CLIENTS

Our Valued Clients	13
--------------------	----

CONTACT US

Let's work together	14
---------------------	----

OUR MISSION

At TerraVision, we are dedicated to delivering industry-leading tailored and cost-effective solutions to improve efficiency, productivity and performance across businesses in real-time.

OUR CORE VALUES

At TerraVision, we understand our clients' needs and place high value on exceeding expectations.

- We strive for excellence and deliver outstanding results,
- We commit to embracing change and continuous innovation,
- We deliver our service with integrity and care, and
- We consider our clients' needs as priority.



WHAT OUR CLIENTS SAY

"I have found the data integrity and ease of use of the TerraVision system for my employees has been excellent."

Mining Contractor, Western Australia.




OUR SOLUTIONS

TERRAVISION

TerraVision offers innovative, cost-effective and tailored solutions across various industries and business operations.

We are dedicated to improving efficiency, productivity and performance to ensure your business operations are optimised. Coupled with our managed services, TerraVision delivers real value to your business.



PASSENGER INFORMATION SYSTEMS

TerraVision has supplied Bus Passenger Information Systems to some of Western Australia's largest bus commuter networks and remains as one of Australia's leaders in telemetry based, passenger information systems.

Our breakthrough automated technology in telemetry and analytics enables accurate GPS position information and scheduling to be delivered to your passenger network in real-time.

Our systems are tailored to the needs of our client's network, but key features include:

Real-Time TerraVision GPS Position Tracking System

- Real-time and historical automated reporting.
- Live tracking dashboard.

REAL-TIME TRACKING, REPORTING, SCHEDULING & PASSENGER INFORMATION

Bus Stop and Passenger Waiting Infrastructure System

- Standalone bus stop modules.
- Intuitive system integrations and fit outs.
- Audio announcement systems.
- LED visual information displays.

In-Vehicle Audio and Visual Passenger Information System

- Next Stop, Routes, Arrival and Scheduling Information.



BLUEPIPE MINING FMS

**MINE SAFER, SMARTER AND
MORE EFFICIENTLY WITH
BLUEPIPE FMS.**



TerraVision's BluePipe Fleet Management System (FMS) is the smart choice for evidentiary grade reporting and real-time monitoring across all aspects of your mining operation.

Its scalable and integrative system design for load and haul assignment integrity, payload optimisation and automated reporting makes BluePipe ahead of its competitors when it comes to affordability, reliability and performance.

BluePipe delivers KPI data from your assets, fleet vehicles and production operations in real-time, in an easily accessible way.

"The way the BluePipe system analyses positional data to interpret the actions and orientation of a machine is clever. It doesn't require any human input from a truckie which is where BluePipe is ahead of other systems."

Geology Superintendent, Western Australia.



VMS & MARITIME OPERATIONS

REAL-TIME, ACCURATE & RELIABLE VESSEL MONITORING SYSTEMS

TerraVision has a long-standing history of expertise in Vessel Monitoring Systems (VMS) and Maritime Operations tracking. Through utilisation of various satellite system platforms (including its own THISS Satellite System), TerraVision VMS is a consistently proven system worldwide, time and time again.

TerraVision VMS has been implemented by port authorities, fisheries authorities, coastguard and safety bodies and private fishing enterprises as an accurate and reliable management system for all aspects of maritime vessel activity.

With regulatory compliance and a proven track record, TerraVision's VMS is the smart choice for:

- Accurate Real-time and Historical Position Reporting
- Fisheries Activity and Quota Reporting
- ETA's and Tracking for Port Management and Demurrage
- Safety at sea with monitored alarms and polling

INTEGRATIONS

TerraVision VMS allows for Integration with existing communications systems such as Inmarsat-C, making it readily available and cost-effective.

Integration with vessel automatic identification system (AIS) – Class A and B, enables TerraVision VMS to work with vessel AIS transponders (Satellite and Terrestrial) for positioning and information, supplementing marine radar, which continues to be the primary method of collision avoidance for maritime activity.

VEHICLE & ASSET TRACKING

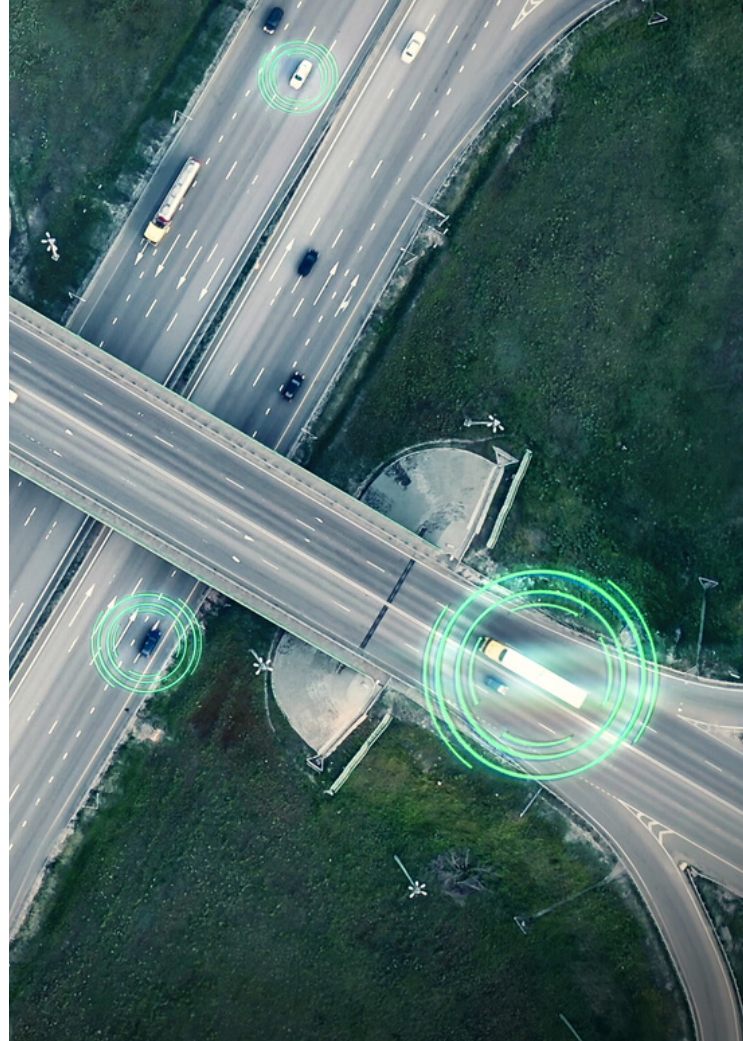
MOBILE ASSET & TRACKING MANAGEMENT

TerraVision's Vehicle & Asset Tracking System allows you to monitor your entire fleet in real-time. Whether you have the rigorous demands of a highly scheduled fleet of vehicles or require the intricacy of specific activity and performance monitoring, TerraVision's Tracking System has you covered.

TerraVision Tracking enables you to:

- Track your vehicles and assets with interactive online vehicle mapping.
- Measure, monitor and track specific metrics such as mass, speeds, loads, activity, inputs and operator behaviour.
- Access your fleet data, from any connected device, anywhere, anytime.
- Get real-time, reliable and evidentiary grade GPS position data from your fleet.
- Recall historical information instantly, and
- Automate your reporting and compliance needs.

Our multi-network, proprietary hardware platform with secure data diary and redundancy, means you can breathe easy and be assured; with TerraVision, no critical asset data is ever lost.



With fully embedded solutions, or our cloud based platforms with interactive applications, TerraVision Tracking is the smart choice for your fleet.



MOBILE NETWORK COMMUNICATIONS

**“OUR STRONG PARTNERSHIPS
MEAN REAL RESULTS FOR
OUR CLIENTS.”**

NATHAN CLIFFORD, DIRECTOR

TerraVision has a wealth of expertise and experience in developing and implementing various terrestrial wireless and cellular network solutions. Using proprietary protocols that ensure data integrity in all transmissions and server solutions, we have a reliable solution no matter what the environment.

We have partnered with leaders in the field of communications network engineering and design to strengthen our offerings, and have deployed:

- **LTE mobile networks**
- **Satellite communication systems.**
- **ISM Mesh radio networks**
- **WiFi networks**

PRIVATE LTE

TerraVision has focused on acquisition of relationship, development and investment into innovative Enterprise LTE (4G) private network solutions. Using hosted and embedded EPC cores, with small cell eNodeB technology, TerraVision provides robust, wide area broadband data services, that are cost-effective for private enterprise.

TerraVision can secure access to radio spectrum at LTE frequency bands specific to your wide area network requirement. This allows remote locations such as mine sites, to have the benefit of LTE broadband network solutions, at incredibly affordable CAPEX or OPEX price modelling.

With turn key solutions or integrative network infrastructure, TerraVision has a team ready to work with you to deploy the LTE network your site needs.



SATELLITE

TerraVision builds its strength in delivery, through partnering with ground-breaking technology providers to ensure not only competitive solutions, but systems outperforming others in the market. Our long standing history in the field of satellite based communication solutions has positioned to work with some of the world's leading hardware companies to deliver solutions that perform time and time again for our clients applications.

THURAYA 

In 2018, TerraVision began work with Thuraya, one of the world's leading Satellite hardware providers, as a solution partner, delivering cost-effective satellite based reporting solutions. This relationship continues to grow, enabling TerraVision to access to one the largest Satellite coverage networks, and competitive hardware for telemetry based reporting solutions.



TerraVision has through its partner; THISS (TerraVision Hart Integrated Satellite System), developed innovative satellite communications product lines in various market segments by combining burst mode CDMA modems, small sized C and Ku Band antennas with system technology to create compact and cost-effective satellite terminal solutions.

THISS VSAT's and USAT's continue to lead in the maritime satellite hardware market.



SMART SYSTEMS

IoT

CONNECTED AUTOMATED INNOVATION

TerraVision Smart Systems are powerful and cost-effective solutions to bring connectivity to your site and equipment like never before.

**THE IOT OF TOMORROW,
SO YOU CAN WORK
SMART TODAY.**



Smart Systems give you the ability to remotely control, monitor and automate pumps, lighting towers, solar and surveillance trailers, flow monitors, irrigation equipment and a whole host of fixed and mobile equipment.

Bringing connectivity and automation through Smart Systems increases safety, boosts productivity and reduces downtime.

Our real-time monitoring and reporting will bring your mine, farm or site into the future. Get smart about the way you operate and get the control you need today.

INDUSTRY LEADING ADVANTAGES

TerraVision is renowned for its focus on breakthrough technology and development.

OUR COMMITMENT TO INNOVATION

Our pursuit of outperforming, outlasting and affordable solutions compared to our competitors, means our solutions offer the greatest value to our clients.

OUR MANAGED SERVICES

TerraVision's managed service means your system is our highest priority. Our advanced monitoring platforms, dedicated solution specific support team and readily available IT staff give you the confidence to know you are in trustworthy hands.

TAILORED SOLUTIONS TO YOUR NEEDS

There is no 'one size fits all' when it comes to the specifics of the system to optimise your business operation. TerraVision works with you to ensure every expectation is exceeded and the highest level of service achieved.



OUR CLIENTS

TERRAVISION

We take great pride in a long-serving history with our valued clients.



**Public Transport
Authority**



PORT AUTHORITY
OF NEW SOUTH WALES



Queensland Government
Department of Transport and Main Roads

Perth Airport



LET'S WORK TOGETHER

At TerraVision, we are dedicated to delivering tailored and cost-effective solutions to improve efficiency, productivity and performance across our clients' business operations.

Contact us today about how we can help.

Head Office:

30/17 Ogilvie Road,
Mount Pleasant
Western Australia 6153
+61 (08) 9364 5788
sales@sat.com.au
www.terravision.com.au