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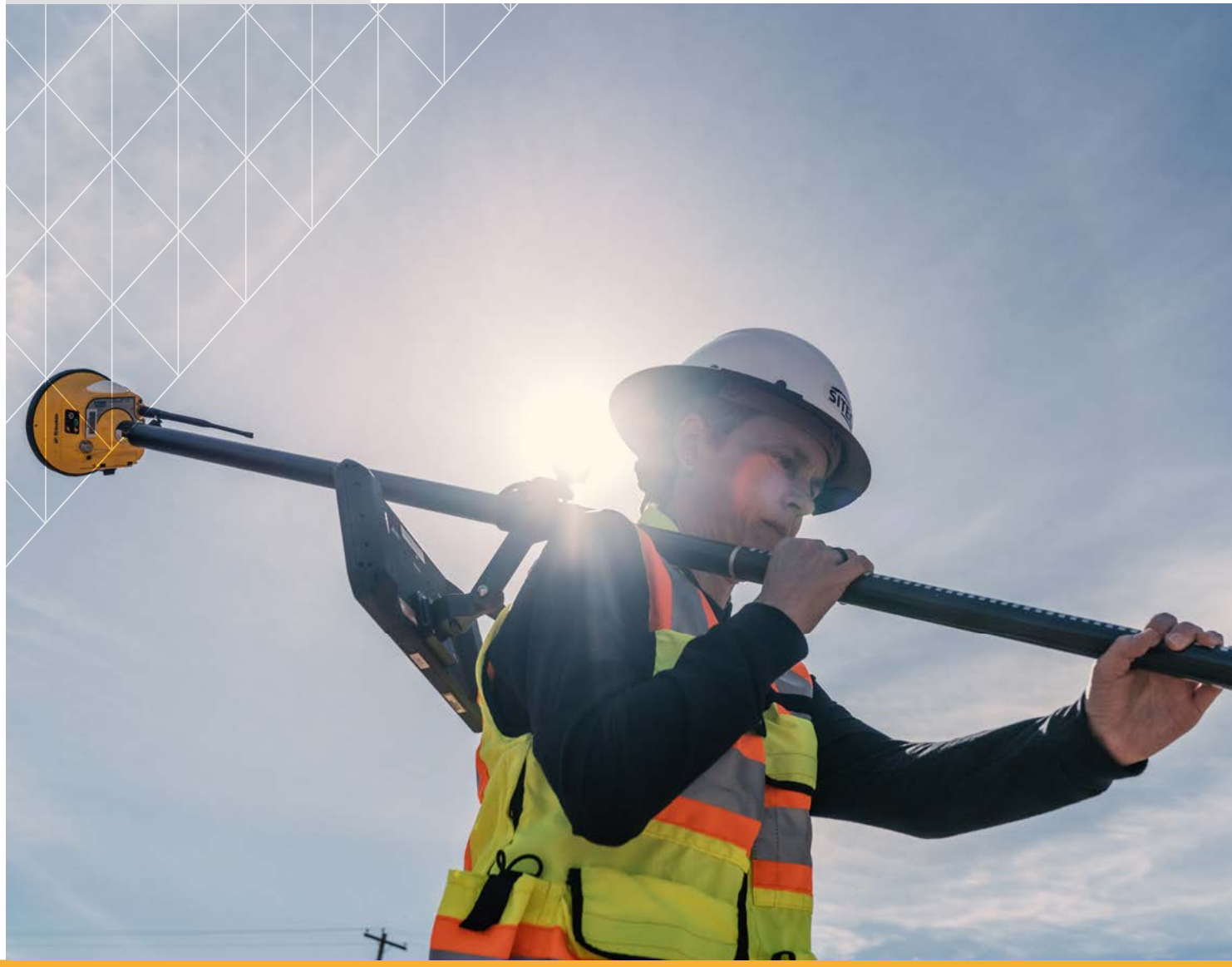


TECHNOLOGY SOLUTIONS
FOR YOUR MINE

TECHNOLOGY MADE EASY

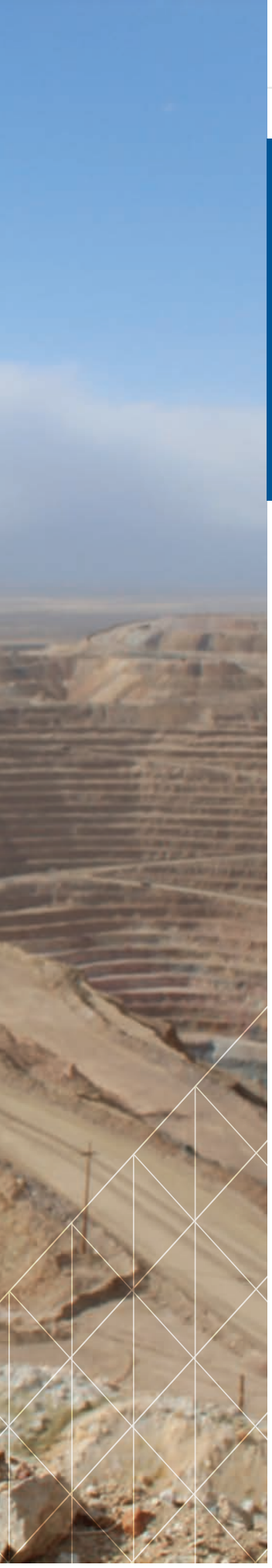
Ready to take your site to the next level?

SITECH Southwest is the leading technology solutions provider across Arizona, Nevada, and Eastern California. We provide easy solutions to solve your most complex technology challenges - giving you the power to transform the way you work.

No matter your industry or preferred equipment brand, we offer products and solutions from the top technology manufacturers.

Our inventory is as vast as these pages. But, don't worry; we'll guide you through all that we have to offer.

SURVEY SYSTEMS



Survey Systems provide the accuracy and reliability required for mining operations to increase safety and improve critical processes. With advanced technology capabilities, your mine's work can be transformed through a connected source of information that spans from the offices to the field and back in real-time.

Data Collector Software

Simple to use and learn, Trimble Siteworks Software provides you the ability to quickly resolve survey problems on site as well as the flexibility to complete any task in the field. With an easy-to-use graphical interface, surveyors, grade checkers, site engineers, and foremen can do their jobs faster and more efficiently.

Survey Hardware

You need rugged survey solutions that are easy for beginners and experienced surveyors. Survey devices ranging from Laser, GPS, or Total Stations can tackle your site positioning needs.

Scanners

Advanced 3D scanning systems let you scan with confidence and produce results you can trust. Whether you're doing a topographic survey, capturing as-builts, or scanning fixed infrastructure, choose from LiDAR, optical, or SLAM scanners appropriate for every job.

Survey Mapping

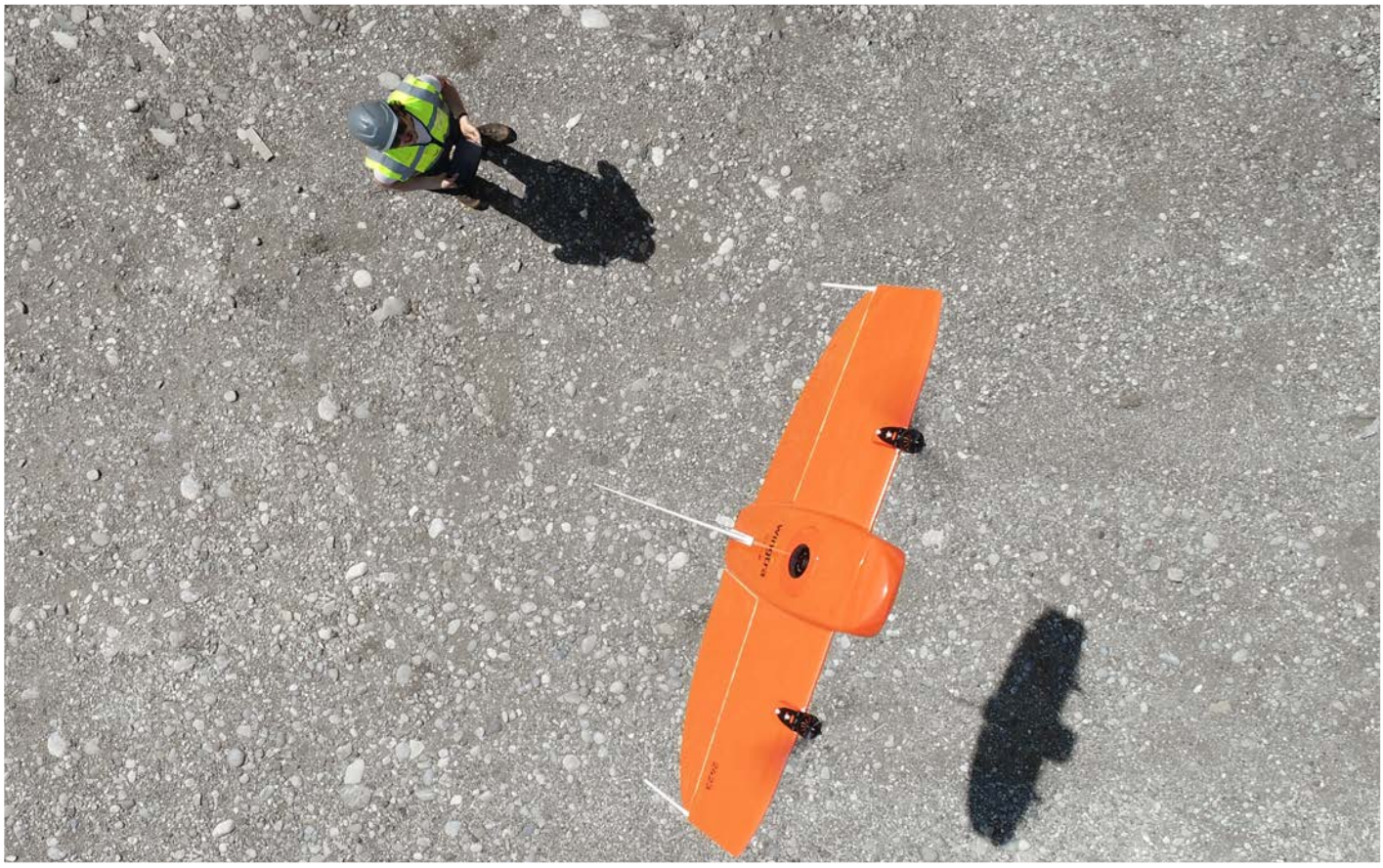
Survey Mapping combines positioning, communications and software to equip your mining workforce. These easy-to-use products help you with productivity in every facet of mining by geo-enabling field workforces.

CAD Software

Trimble Business Center Software is a powerful tool that can quickly and easily create accurate, integrated 3D constructible models to execute in the field. This complete office software solution helps you work efficiently by streamlining workflows.

INDUSTRIAL UNMANNED AERIAL VEHICLE

UAV/Drones are becoming a viable business tool that can close the gap between what a job looks like on the computer versus what it actually looks like on the ground of your mine site. High-resolution imagery obtained by drones can be uploaded online to process in real-time.



Fixed Wing

Post-Processed Kinematic (PPK) combined with the advantages of vertical takeoff (eVTOL) ensure fixed-wing UAVs get more flight time with the ability to cover larger areas.

Multi-Rotor

Whether you need a UAV for general video inspection or precise GPS mapping, choose from a range of options including units with heavy payload capacity, units with highly customizable cameras and flight controls, or simplified packages that streamline mapping and video processes.

Specialized Multi-Rotor

If your UAS jobs are more demanding, you can try specialized multi-rotor applications like high altitude UAVs and contour following flight paths. In addition, choose from specialized payloads like LiDAR, FLIR, non-visible spectrum, and gas detection along with integrated software workflow.

Cloud-Based Processing & Data Sharing

Get consistent results, quantifiable savings, and the confidence you need to map, measure and manage your site. Cloud-Based Processing & Data Sharing takes the complex process of drone surveying and streamlines it into three simple steps: place, fly, & view.

Desktop UAV Processing

You can easily process aerial data on your desktop with photogrammetry-grade processing for unmanned aerial systems (UAS) and terrestrial close-range imagery integrated alongside Trimble Business Center.

MACHINE CONTROL TECHNOLOGY

Connect processing and business data so your team can have centralized information to help reduce risk and increase profits. Machine control technology can provide your mining operation a trusted source of data that can be relied on enterprise wide.

Grade Control Systems

Say goodbye to stakes and other materials that make work more difficult. Work smarter and faster using high precision machine guidance solutions for your tight tolerance grading and cover projects.

Payload & Scale Systems

Whether you require basic weighing information for a conveyor belt, or greater accuracy and data capture capabilities for production loading tools, choose from a variety of scale solutions for loading, hauling, and conveying systems.

CAT

Among the biggest drivers for the use of autonomous mining technology is operator safety. Mine sites that have put autonomous mining technologies to work have also experienced increased productivity, higher equipment utilization and less machine damage.

Machine Control System for Drilling, Piling and Compaction

Trimble Groundworks Machine Control System can enhance on-site safety, accuracy and the efficiency of your drilling and piling operations. All day, every day, in any weather.

Realize maximum production and revenue with the Trimble Groundworks Machine Control System—an aftermarket, land-based, 3D drilling and piling system for the mixed fleet operator.

- Stakeless drilling or piling and minimal lay out reduces workload and cost
- Keep personnel safe by reducing the need to be near machines and warns the operator when entering avoidance zones
- Limit operator fatigue by reducing paperwork

ENHANCED ON-SITE SAFETY AND ACCURACY

WIRELESS

Wireless network infrastructures can effectively support your ever-growing mobility demands. The most adaptable, scalable, and readily deployed private mobile broadband networks on the market today.

Rajant Kinetic Mesh®

Fully mobile, always adaptable. Rajant Kinetic Mesh® networks run efficiency and productivity-enhancing mining applications 24/7 across your diverse operating environment. The patented InstaMesh® networking software helps create a self-healing network able to dynamically adapt as people and assets move across your environment— all while keeping the network available, intact, and secure.

Rugged Outdoor Wireless

Bringing your field data into the office has never been easier or more reliable. Fixed location Wi-Fi networks for sensor management, industrial IOT, and general communications often have unique requirements.

We can help you eliminate manual field measurements, simplify sensor configuration, and add flexibility to your reporting. Additionally, you can reduce costs and access real-time sensor data, analytics, and state of-the-art visualization tools to substantially reduce risk.

We can design and implement a data capture solution using connectivity devices or pair with existing hardware and Wi-Fi infrastructure. Our platforms easily connect and integrate sensors for:

- Tailings Dam Management
- Slope Stability Monitoring
- Environmental Monitoring and Compliance Reporting
- Groundwater Management

Trimble 4D Control

Improve your safety decisions with automated, real-time slope stability monitoring. Trimble 4D control software easily manages a wide variety of monitoring sensors from total stations to piezometers and crack gauge.

SLOPE AND HIGHWALL MONITORING

SUPPORT SERVICES

Quality technical support is essential for maximizing productivity. We have a fully equipped service center and certified service technicians ready to offer you a wide range of technical services.

Field Support

Receive 24/7 assistance from on-site resident engineers in Arizona. With diverse skill-sets, our field team can support you with preventive maintenance, service, system architecture development and more.

Repair Center

We have a certified and preferred service authorized Trimble Repair Center in Mesa, Arizona. At our Repair Center, our technicians can service, repair and calibrate Trimble, Caterpillar, Spectra Precision and many other manufacturer brands.

Training

Get the most out of your systems. Take advantage of our customized training available for any of our products. We offer dedicated training at your site or open classes at one of our locations.

Wireless Network Engineering & Design

We design, deploy, and maintain a variety of wireless networks for mining and other industrial clients. You can choose from a full range of services from radio frequency surveys, network planning, hardware selection, and full network deployment.

3D Modeling & Data Conversions

Our team of knowledgeable and experienced engineers can help you prepare 3D models for site work, machine control, layout, and additional uses. We can also support you by processing your 3D data from any type of data collection including: RTK, Machine, LIDAR and Photogrammetry. Once finished, we'll deliver it back to you in the format of your choice.

PRODUCTS & PARTNERS:

EMPIRE CAT

Trimble

CERAGON

CAT

wingtra

dji ENTERPRISE

emesent

TOPS
TAKE-OFF PROFESSIONALS

EXCELSENSE
AUTHORIZED PARTNER

AUTEL
ROBOTICS

RADWIN

RAJANT

SitePro™

SPECTRA PRECISION

Thanks to our partners and products, we can provide you solutions under Heavy Civil, Geospatial, Data Modeling and Analysis.

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