



MINING ROAD SHOW TO AUSTRALIA

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THE ISRAEL EXPORT &
INTERNATIONAL COOPERATION INSTITUTE

The Israel Export & International Cooperation Institute

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The Israel Export International Cooperation Institute is your premier gateway for doing business with Israeli companies. IEIC's expertise in technology and product scouting, joint ventures and strategic alliances with Israeli companies spans more than half a century.

The Water Sector at the Israel Export Institute promotes the Israeli technological innovation and assists companies in penetrating global markets by providing professional information, drafting business plans, creating business partnerships, assisting in finding business opportunities and business contacts, organizing incoming and outgoing delegations, participating in exhibitions and international conferences around the world and marketing activities with the support of commercial attaches and professional consultants from around the world.

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The Foreign Trade Administration (FTA) at the Israeli Ministry of Economy and Industry, manages and supports Israel's international trade and trade policy by promoting trade and exports, initiating and maintaining trade agreements, attracting and facilitating foreign investments and creating strategic cooperation with foreign companies. Through our headquarters in Jerusalem together with over 40 economic and trade missions in key financial centers throughout the world, the FTA promotes Israel's economy worldwide.

Israel's economic and trade missions are at the forefront of the Israeli government's efforts to boost our industries in foreign markets. Our team of highly experienced economic representatives and business consultants provide a wide range of services to Israeli companies and to the international business community.

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Contents

	Airobotics	6
	Fluence	7
	Librimind	8
	Percepto	9
	Precognize LTD	10
	Radwin	11
	Razor Labs	12
	SparksBeyond	13
	Trackimo	14



Profile at a Glance:

Airobotics is an aerial data company, utilizing drone automation technology to provide business-critical insights. Our automated drone and cloud-based solutions help you to capture, visualize, process and analyze aerial data with the ability to seamlessly integrate additional site-specific data into the picture—to reveal a more holistic and accurate digital landscape for decision making.

Technology & Products:

World's first and only regulatory-compliant commercial UAV solution: - Airobotics is the world's first and only regulatory compliant commercial UAV solution that can be operated remotely in BVLOS mode. Multiple payloads & battery swapping capabilities: The Airobotics' drone system has the unique capability of swapping its own batteries and payloads, using a robotic arm, allowing for a diversity of payloads and mission types. The Optimus drone is a multi-tool that current takes on a variety of payloads with capabilities for LiDAR, Thermal, Photogrammetry and Video. Fully automated platform: the Airobotics platform can automatically self-launch as well as land. Industry-leading aerial data to insights conversion rate: By combining the automated nature of aerial data collection and in-house data processing algorithms, Airobotics' fully-automated drone system enables the delivery of customer insights within hours such as haul road analytics and tailings dam management.

Goals:

We believe drones will be widely used in many industries in the next several years. They will be a working tool that will greatly improve and enhance business processes in industries, ranging from heavy industries to retail to even finance. Our shorter term goal is to begin integrating our drones into urban environments and cities for emergency services.





Fluence

www.fluencecorp.com

Profile at a Glance:

Fluence Corporation is becoming the leading global provider of fast-to-deploy, decentralized, and packaged water and wastewater treatment solutions. With a team of 300 highly trained water professionals and experience operating in 70 countries around the world, Fluence provides local, sustainable, treatment and reuse solutions while empowering businesses and communities to make the most of their water resources. Fluence offers an integrated range of services across the complete water cycle, from early-stage evaluation, through design and delivery, to ongoing support and optimization of water-related assets.

Technology & Products:

Fluence provides innovative, cost effective and fast-to-deploy solutions for supplying potable water from seawater, brackish water and surface water; solutions for municipal and industrial wastewater treatment – for discharge or for reuse; Waste-to-Energy systems, including anaerobic digestion systems; Advanced surface aeration systems for lagoons; Cutting edge aeration systems, including the MABR (Membrane Aerated Biofilm Reactor) – which eliminates up to 97% of the Total Nitrogen and 90% of the Total Phosphorous from wastewater at up to 70% less energy consumption.

Goals:

To become the leading global provider of fast-to-deploy, decentralized, and packaged water and wastewater treatment solutions for municipal, industrial and commercial markets.





Librimind

www.librimind.com

Profile at a Glance:

Librimind is an AI-knowledge software solution, which helps mining companies optimize the production process while meeting dynamic operational targets. Colorado Cleantech Industries Association selected Librimind as top 10 global cleantech companies for safe and sustainable mining. We have some great strategic partners believing in us.

Technology & Products:

Librimind solution uses company targets and operational data to provide AI-generated real-time, step-by-step scenarios, for the optimal process operation. The solution is able to adapt to the ongoing operation and specific equipment, while continuously learn from the knowledge and experience of domain experts. The platform connects on-site operators between different operational units as well as remote production sites to domain experts. This enables cross-site collaboration and reduced time-to-decision, where remote experts can review and provide feedback on the operation, and guide the local personnel. Optimal operation improves equipment stability and efficiency, which directly translates into increased productivity and reduced operational and energy costs.

Goals:

Librimind goal is to help industrial companies meet production targets and reduce environmental footprint.





PERCEPTO

Percepto

www.percepto.co

Profile at a Glance:

Percepto's fully autonomous drone technology is the next-generation solution for large-scale enterprises, providing companies with improved security, decreased safety risks and reduced operation costs.

Our autonomous drones are powered by computer vision applications and capable of performing multiple security, safety and inspections missions using a 24/7 onsite drone-in-a-box station. Percepto's management platform allows for schedule, real-time and remote drone operations without the need for a pilot

Technology and Products:

Designed with industrial and enterprise needs in mind, our drone-in-a-box solution operates autonomously based on scheduled missions as well as on-demand. Powered by computer vision and AI, the solution provides constant aerial visual insights to help you optimize large-scale enterprises security and business operations while reducing risks and operational costs. The ability to withstand extreme weather conditions, operate without human involvement day or night, and react to integrated smart devices makes the Percepto Solution ideal for organizations looking to gain better situational awareness and become proactive and more efficient in addressing risks and operational needs.

Goals:

To meet decision makers in mining companies and discuss with them the unique Percepto system.





Precognize LTD

www.precog.co

Profile at a Glance:

Precognize is a predictive analytics software company addressing the process industry. It is part of SAMSON Group, headquartered in Frankfurt, Germany, specializing in control valve engineering. Precognize combines sophisticated technologies of AI and HI (SME's knowledge) to achieve maximum asset's availability, performance and quality. Precognize has been nominated as Technology Pioneer 2018 by World Economic Forum, as the Enabling Technology Leadership Award for Predictive Maintenance for Heavy Industries, Europe, by Frost & Sullivan. Precognize's patented and unique technology with SAMSON's hundred plus years of expertise and global presence are set to expedite the digital transformation journey of the process industry.

Technology and Products:

SAM GUARD is a predictive analytics software for the process industry. Its technology combines three disciplines, which are otherwise not connected: sophisticated machine learning, graph analysis algorithms, and system engineering conceptual design techniques. SAM GUARD's combined technologies of AI and HI (Human Intelligence, i.e. your plant engineers' knowledge and experience) enable the plant to boost OEE and achieve maximum availability, performance and quality.

SAM GUARD covers the entire plant and tracks everything while implementation is only two weeks. It quickly and accurately detects issues in processes and quality and analyzes root cause. It identifies equipment failures and suspicious operation modes days to weeks in advance, providing early, accurate, and actionable alerts up to 5 times a day. The alerts are analyzed by the plant's operation staff, with no specialized training needed, or a data scientist to interpret the alerts.

Goals:

Relying on its unique technology and Samson's world presence, Precognize's is determined to be the market leading predictive analytics solution for the process industry in the near future.





RADWIN

Radwin

www.radwin.com

Profile at a Glance:

RADWIN is a leading provider of Point-to-Multipoint and Point-to-Point broadband wireless solutions. Incorporating the most advanced technologies such as a Beamforming antenna and an innovative Air Interface, RADWIN's systems deliver optimal performance in the toughest conditions including high interference and obstructed line-of-sight. Deployed in over 170 countries, RADWIN's solutions power applications including backhaul, broadband access, private network connectivity, video surveillance transmission as well as delivering broadband on the move for trains, vehicles and vessels.

Technology & Products:

- Bi-directional beamforming antenna
- Innovative air interface
- Support 3.3-3.8 GHz or 4.9- 6.0 GHz bands (including the ACMA 3.6 band)
- Nomadic connectivity for comms trailers
- Guaranteed SLA per sensor and vehicle (truck/shovel/driller/dozer)
- High packets-per-second (PPS) for VoIP and CCTV
- High frequency reuse of 1:2
- Dynamic channel bandwidth selection
- MIMO 3x3 /MIMO 2x2/ Diversity (dynamic)
- Secured connectivity - AES128
- High durability with IP67-rated radios.

Goals:

Mining companies today are using remote-controlled machinery, monitoring equipment health, and looking to implement autonomous haulage and drilling systems. Addressing the needs of today's modern mining companies, RADWIN offers solutions that deliver ultra-high capacity and reliable wireless connectivity to support a range of fixed, nomadic, and mobile applications.





Razor Labs

www.razor-labs.com

Profile at a Glance:

Israel's leading AI solutions company, developing deep learning neural networks, with explainability, that solve high value problems for its large corporate clients.

Products and Technology:

DataMind Predict, predicts why and when large equipment will malfunction up to 2 weeks in advance. DataMind Optimize, is a superhuman autopilot to optimise processes to reduce costs and increase throughput. VisualMind video analytics provides anomaly detection to increase safety and reduce costs.

Goals:

Partner with Tier 1 & 2 clients to help them use AI to unlock significant value from their investment in Big Data.





SparksBeyond

www.sparkbeyond.com

Profile at a Glance:

SparkBeyond is a global technology company focused on connecting AI to Business and Social impact. We take a unique bottoms up approach to problem solving, by automatically discovering business drivers at a depth and throughput that is unparalleled. Additionally we discover new features on an ongoing basis, can expand feature discovery scope with external data, and can build Machine Learning Models. As a technology company we are focused on building assets (integrating with your existing infrastructure and services) and developing capabilities (training your team for ongoing usage of the platform for different use cases).

Technology and Products:

We have worked on a variety of applications applicable for large mining companies – including exploration site optimization, sales and operations planning, and freight delivery forecasting. Below is an example case-study we completed for a large mining company that illustrates our platform capabilities and methodology at a high-level. -- Business Problem: large coal mine in Asia needed to improve operating margin, and had identified fuel costs for heavy equipment as a primary source of costs, accounting for ~30% of total spend. -- SparkBeyond Approach: uncovered hidden drivers of fuel consumption by analyzing ‘never before connected’ sources of data, including OEM sensors, fleet management system, production logs, maintenance logs, and weather. -- Client Impact: surfaced actionable insights to help reduce fuel consumption and lower costs; including optimized driving ranges, operator interventions, and maintenance scheduling.

Goals:

SparkBeyond’s technology was built to make deep discoveries in data - to find hidden signals, identify root-causes, and help our partners solve their most challenging business and social problems.





Trackimo

www.trackimo.com

Profile at a Glance:

Trackimo develops various personal safety and asset tracking solutions, with the most cost-effective, compact devices combining GPS WiFi and Bluetooth for indoor and outdoor location, and a global GSM/IoT service. With trackimo you can locate and track any person, vehicle or valuable equipment in seconds, using web or apps, and get alerts through multiple channels. Trackimo's cloud-based API enables integration to multiple security and tracking systems. Trackimo provides extensive integration and white-label options to partners and distributors. Trackimo technology is developed in Israel with subsidiaries in Europe, USA, and China.

Technology and Products:

Trackimo provides a global IoT platform and advanced devices for personal safety and asset tracking. Combining GPS, WiFi, Bluetooth and various sensors with embedded sim chips, operated and managed by the distributed IoT cloud platform, and using patented optimized communication and operation methods, Trackimo provides the best solution at the most affordable cost, supporting 3G, 2G, Cat-M1 and NB-IoT. Trackimo provides both wearable and attachable devices for various purposes, along with the apps and web portal supporting them, and multiple API and integration tools for easily fitting the solution to the customer operational and business needs. By bundling embedded sims with globally-supported mobile communication with its service, including rugged underground wireless connectivity, Trackimo delivers end-to-end solutions for your worker safety and asset tracking needs.

Goals:

Trackimo strives to provide the best, reliable, cost-effective, end-to-end solutions for personal safety and asset tracking to business customers around the world.





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