razorlabs

DataMind AI™
All-in-One Automated Predictive Maintenance Solution

GLENCORE   AngloGold Ashanti   LIBERTY   SIEMENS   ICL

About Razor Labs

Razor Labs is revolutionizing the mining and metal industries by offering an unparalleled all-in-one sensor-fusion-based predictive maintenance solution.

Industry leaders worldwide use the company's DataMind AI™ platform to prevent critical machine failures, improve operational efficiency, and reduce costs.

Razor Labs is publicly traded on the Tel Aviv Stock Exchange (TASE: RZR) and has offices in Perth, Sydney, New York, and Tel Aviv.

The company's commitment to excellence has been recognized by industry experts, with CB Insights naming Razor Labs one of the leading mining tech companies.

CBINSIGHTS

One of the world's most innovative mining tech companies.

TEL AVIV STOCK EXCHANGE

Listed on the Tel Aviv stock exchange (TASE: RZR)

Tel Aviv, New York, Perth, Sydney

Our partners

AutoControl Systems   PROCESS AUTOMATION Industrial Process Measuring & Control Equipment   calibre   ABB

SAP   Microsoft Partner   NVIDIA   Collaborit ASSET MANAGEMENT ENGINEERING

We got you covered

All your predictive maintenance requirements in a single out-of-the-box solution.

Hardware:
Sensors for 24/7 full-site equipment coverage

DataMind AI™

Technology:
Powerful AI sensor fusion technology

SME Support:
Provided by the domain experts

DataMind AI™ Platform:
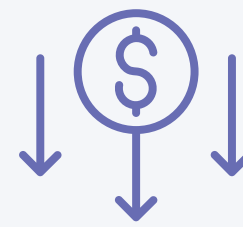Failure root cause analysis & precsriptive actions

Downtime

Over 35% decrease in unplanned downtime by preventing failures before they happen.

Productivity

Over 20% increase in overall productive capacity by optimizing maintenance strategies.

Costs

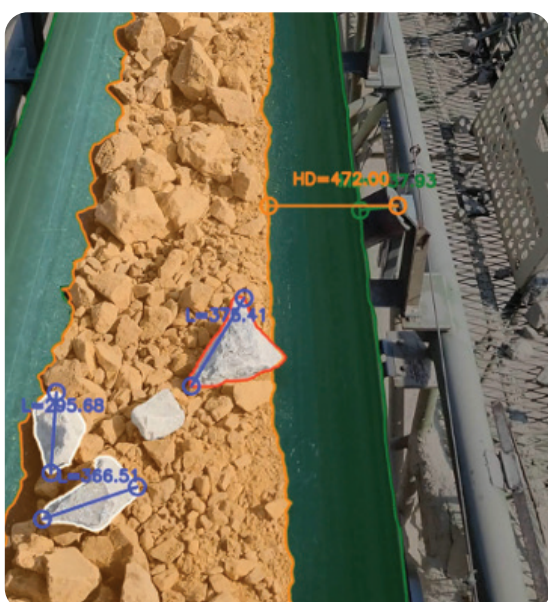**Over 15% reduction** in operating costs by averting high-cost repairs.

Safety

Increased staff safety by limiting personnel exposure to machines and mitigating disaster-linked accidents.

Use cases

Conveyors

>1000 yearly downtime hrs
>1Mt additional throughput

Stockyard

$47M increased utilization
25% reduced downtime

Crushers

>100 yearly downtime hrs
25+ blockages per year

Mills

7.5% increased recovery
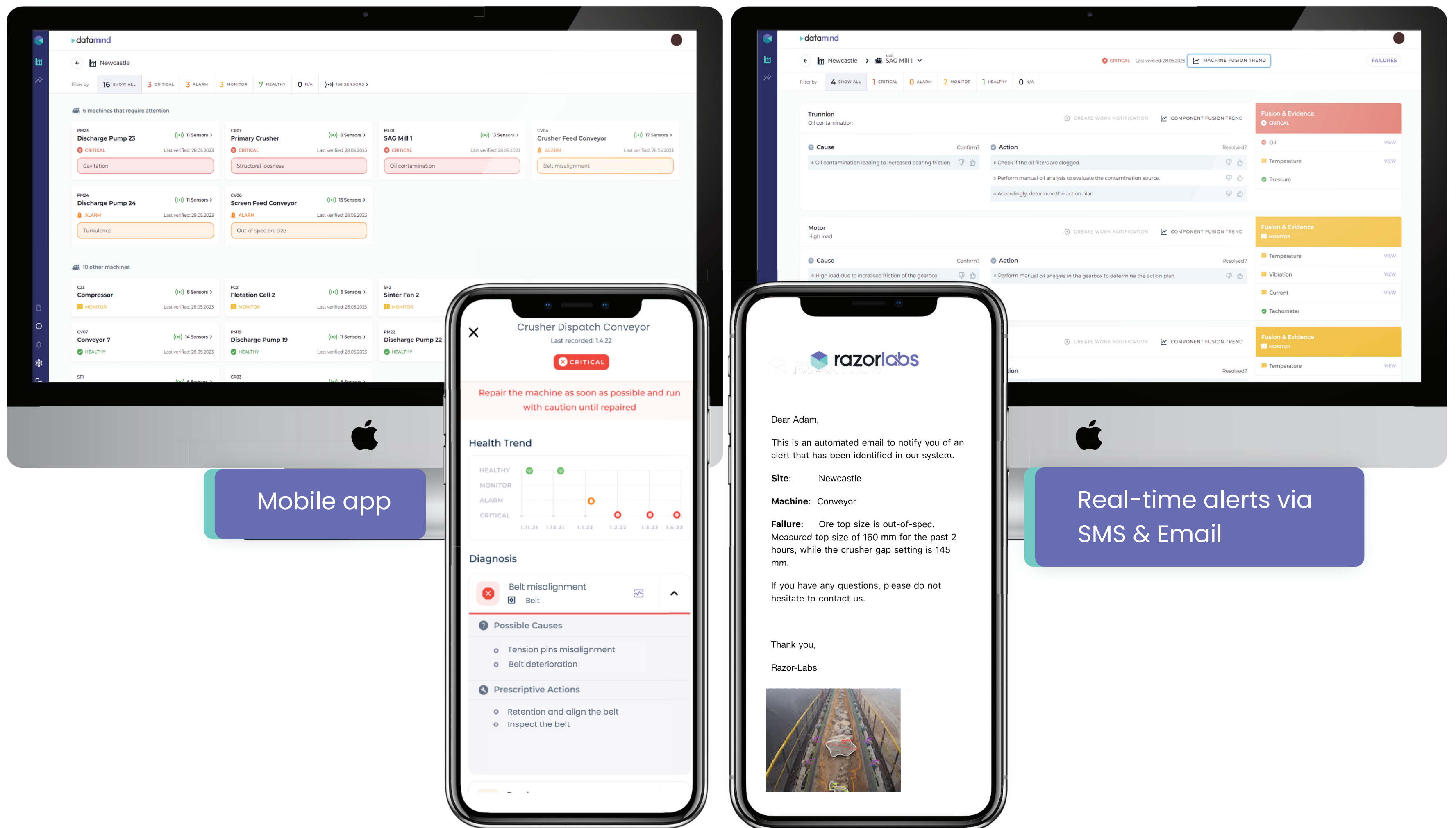$9.8M increased recovery

Floatation

5.6% increased recovery
$7.3M increased recovery

Request a Demo →

discover@razor-labs.com

Datamind AI™ platform

Complete online visibility of the site equipment

Sensor fusion for failure root cause analysis & prescriptive actions

Mobile app

Real-time alerts via SMS & Email

Extensive domain expertise

Our team of seasoned and licensed condition-monitoring experts brings a wealth of knowledge and experience to the table. Equipped with DataMind AI™ software platform, our SMEs are available for consultation and can provide in-depth domain expertise to ensure the most accurate and actionable insights into the health of your machines. The site team can consult with our experts regarding insights picked by the data models, the rationale behind specific diagnoses and prescriptive actions.

This collaborative approach guarantees comprehensive and well-informed decision-making processes for maintaining optimal machine performance.

Superior technology

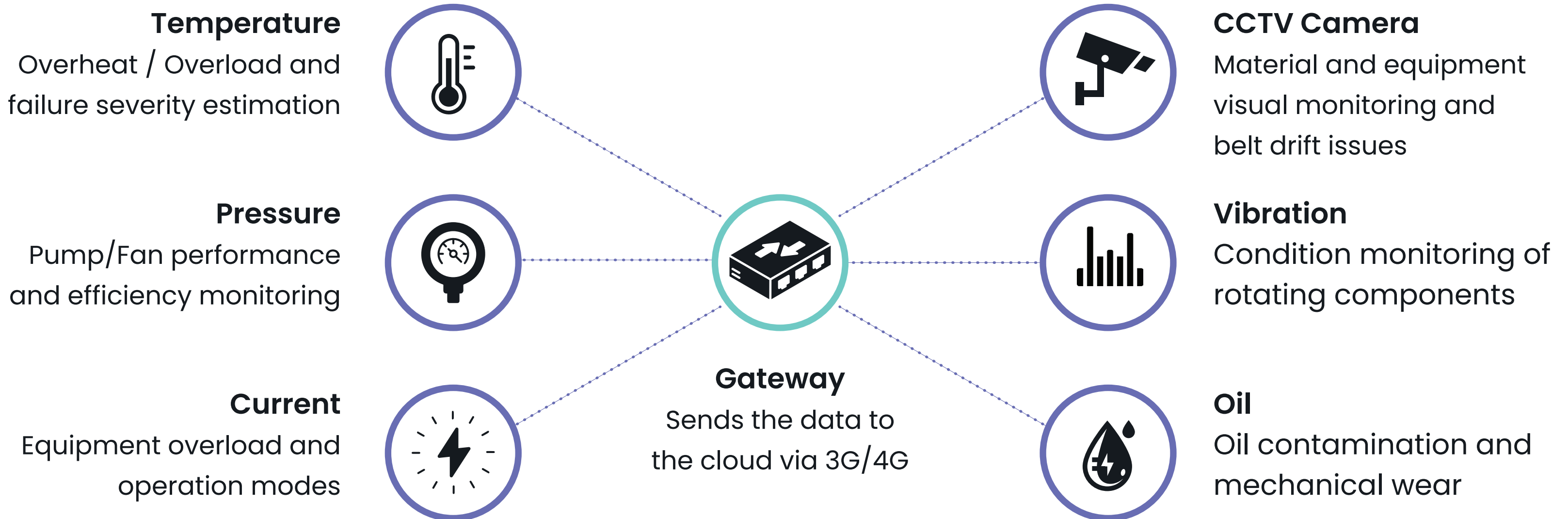DataMind AI™ Platform is based on a powerful AI sensor fusion technology.

Collecting data from all sensors installed on machines, the neural network efficiently processes and learns from this vast information, identifying intricate patterns and correlations within the sensor data, and providing a comprehensive understanding of the machine's health and behavior. No model calibration is required from the site team.

The platform comprises hundreds of combined years of domain expertise in mining equipment to indicate impending failures that require attention and uncover their potential root causes.

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Comprehensive sensor offering

DataMind AI™ fuses data from a wide range of sensors
to enable full equipment and failure mode coverage.

Temperature
Overheat / Overload and
failure severity estimation

Pressure
Pump/Fan performance
and efficiency monitoring

Current
Equipment overload and
operation modes

Gateway
Sends the data to
the cloud via 3G/4G

CCTV Camera
Material and equipment
visual monitoring and
belt drift issues

Vibration
Condition monitoring of
rotating components

Oil
Oil contamination and
mechanical wear

Easy implementation for fast ROI

Survey > **Deploy** > **Go live**

Razor Lab performs a site survey to map the critical equipment and determine the type and locations of the sensors.

Razor Labs swiftly deploys sensors on the monitored equipment. The sensors connect to the gateway that sends the data to the cloud.

Unlock complete online visibility of the site equipment.

Monitored equipment

Conveyors	Screens	Thickeners	Heat exchangers
Reclaimers	Sifters	Kilns	Pumps
Stackers	HPGRs	Furnaces	Fans
Shiploaders	Mills	Rolling mills	Compressors
Crushers	Flotation cells	Rollers	Filters

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