



# BLUEMARVEL

BlueMarvel empowers industrial enterprises with actionable insights, comprehensive data analysis, and shared perspectives, for enhanced safety, asset reliability, production optimization, and energy efficiency. »





**“The Earth is Blue!”**

—Yuri Gagarin, the first person to see Earth

When was the last time you had your perspective shifted by a seemingly simple observation? Prior to 1961, the revelation that “The Earth is Blue” remained elusive until Yuri Gagarin’s historic journey aboard the Vostok 1 spacecraft.

In 1972, Apollo 17 transmitted the iconic “**Blue Marble**” image back to Earth, forever transforming our perception of our home planet. It was this awe-inspiring imagery that served as the catalyst for the birth of **BlueMarvel**. Inspired by the profound impact of the Blue Marble photograph, **BlueMarvel** emerges as a revolutionary solution, pioneering a new frontier in industrial enterprises. By harnessing the spirit of exploration and discovery embodied in that iconic image, **BlueMarvel** unlocks invaluable insights into human safety, asset reliability, production optimization, and energy efficiency, empowering industrial enterprises in ways previously unimaginable.

Equipped with state-of-the-art technology for data analysis, operations management, and process monitoring, **BlueMarvel** revolutionizes how we perceive and handle industrial data, translating its complexities into actionable insight. Just as the first breathtaking glimpse of the ‘Blue Marble’ reshaped our perception of Earth, **BlueMarvel** pioneers a new era for industrial enterprises.

With its suite of applications, **BlueMarvel** illuminates enterprise data in unprecedented ways, allowing enterprises **to see their data in new light.**



## Shared View, Shared Insights – Cross-Product Intelligence powered by AI

BlueMarvel’s cross-product intelligence optimizes industrial enterprises by seamlessly integrating our products to improve safety and risk management, enhance performance and reliability, and analyze energy consumption and emissions all from one platform.

We eliminate silos, ensuring that all stakeholders can access and understand the same information, regardless of their platform proficiency. With **BlueMarvel**, plant operations become streamlined, insights become actionable, and collaboration becomes effortless, driving improved efficiency and success.

Explore our innovative solutions, where integrated applications drive operational efficiency and excellence, guiding your business toward unprecedented success. »

### Product focus

**SAFETY AND RISK**

**PERFORMANCE AND RELIABILITY**

**ENERGY AND EMISSIONS**

# BlueMarvel.OperationsMetrics™

» Centralize process alarms and diagnostics on an enterprise scale.

Typically, human performance contributes to 70–80% of all abnormal situations at process plants, and through our platform, we strive to mitigate such occurrences by optimizing operational processes and decision-making.

Alarm and event data generated by automation systems has traditionally been stranded in the industrial site yet holds tremendous value for various users throughout industrial enterprises.

Our cloud-native application aims to democratize and leverage event-based operational data, empowering stakeholders to enhance their industrial enterprises. Real-time monitoring offers crucial insights that drive operational excellence at every site level, while our multi-site benchmarking capabilities enable organizations to aggregate and analyze extensive datasets, providing a comprehensive view across operating fleets.



## Application focus

Open access plant alarm and event data to operations, engineering, training and safety and risk experts throughout your enterprise.

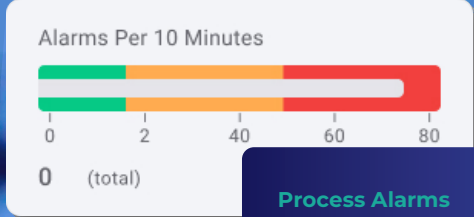
Mitigate abnormal situations related to human error.

Track process alarm performance against industry benchmarks – ISA-18.2, EEUMA-191.

Compare KPIs across facilities and prioritize improvement opportunities.



**Operator Actions**  
Improving performance by proactively identifying operator training needs and necessary improvements to control logic.



**Process Alarms and Events**  
Centralize process alarms and event diagnostics on an enterprise scale utilizing ISA18.2 standard.



**Automation Bypasses**  
Real-time bypass monitoring and risk assessment to reduce the likelihood and severity of abnormal situations.

# BlueMarvel.OTSupport™

» Unlock device system data from modern operations technology.

Where the reliability of Operations Technology (OT) is paramount, BlueMarvel.OTSupport™ emerges as a game-changer.

Industrial devices and systems used in manufacturing have grown in functionality and intelligence, producing underutilized onboard diagnostic information and metadata. Some examples are modern instrumentation, valves, automation systems, and electrical equipment like drives and smart power meters.

Typically, the diagnostic information remains stranded in these assets and is used by site technicians for local support. Our application revolutionizes OT devices and systems support by centralizing vital diagnostic data from smart OT equipment. This enables enterprises to drive centralized work processes associated with managing and maintaining this equipment.

Ultimately, this enhances plant safety, reliability, and availability while lowering maintenance costs associated with this equipment.



## Application focus

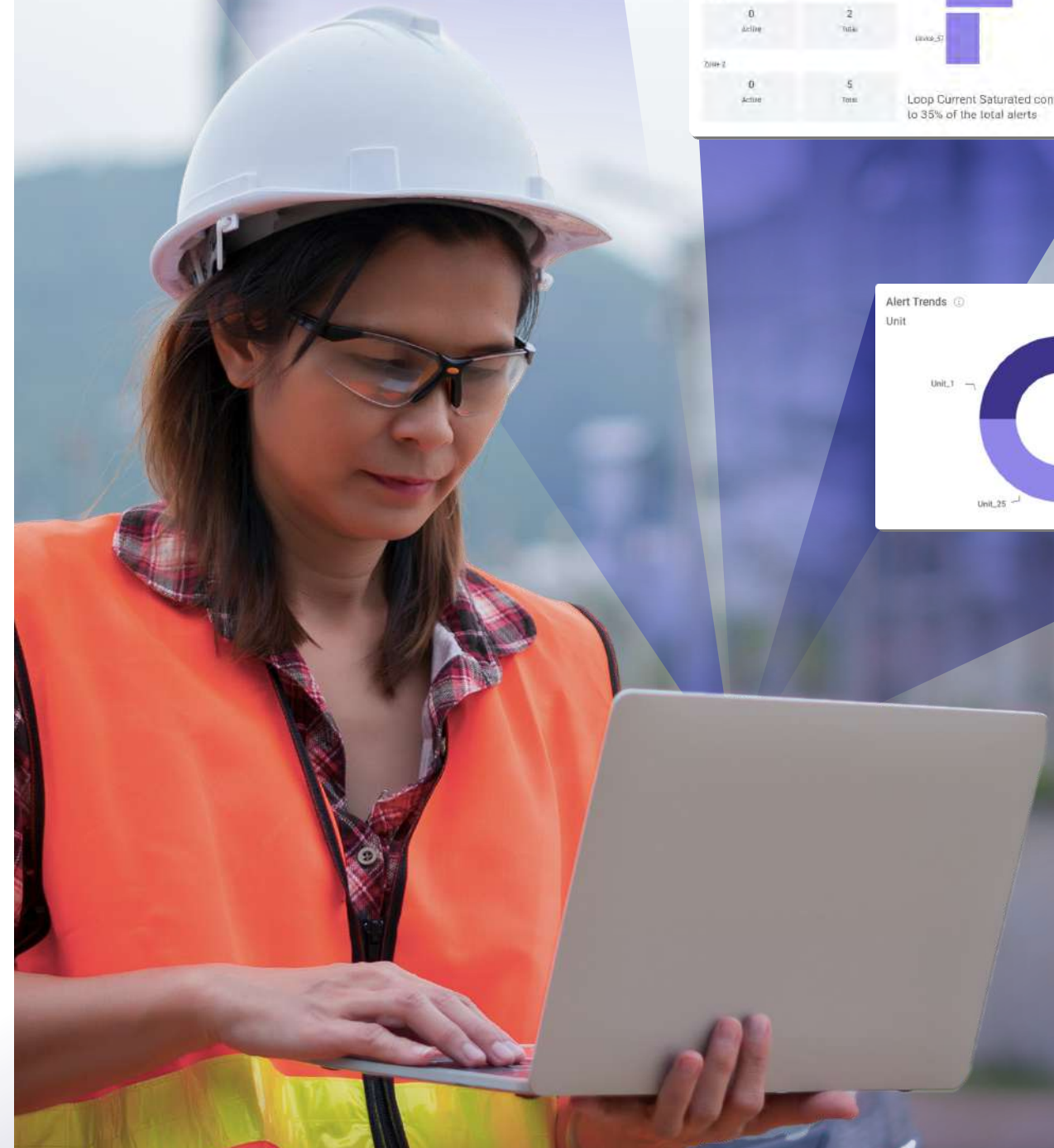
Unlock device system data from modern operations technology.

Consolidate reports on OT device and system health.

Centralized, real-time monitoring for maintaining critical OT equipment.

Report on smart device status and health.

Improved visibility to OT systems health.



### Multi-device group type:

- » Understand the distribution of alerts amongst the class/type of asset
- » Identify the bad actor in the group for these assets
- » Understand how much this alert contributes to alarms



### Single Smart Device:

- » Contribution of total alerts to the system
- » Understand the distribution of alert types across the specific device



Identify which unit/plant area to focus your maintenance tasks on.



# BlueMarvel.ControlPerformance™

» Identify and quickly address control performance issues.

In the industrial sector, maintaining optimal control performance is crucial for financial success, as poor control can lead to various operational inefficiencies, including decreased reliability of key control loops, which can result in unplanned downtime, poor performance, and damaged equipment.

BlueMarvel.ControlPerformance™, our cloud-native application, addresses these challenges by providing comprehensive analytics and visualization tools for centralized monitoring and maintenance of control systems. By simplifying remote monitoring and aiding in the identification of root causes for control issues, we help streamline operations and drive meaningful improvements.



## Application focus

Identify control performance issues and address them quickly to ensure plant performance is sustained where it is most profitable.

Improve, monitor, and sustain control performance measures – controller service factors, process variability, and operator interventions.

**ASSURED ROI**  
with a money-back  
guarantee.



Understand how the control loop is being utilized.

See how control and tuning affects process conditions or how the process conditions are affecting your control system.

Look at your control loops by area and visualize your performance.

# BlueMarvel.ProcessMonitoring™

» Lower unplanned downtime, bottlenecks, and maintenance costs.

BlueMarvel.ProcessMonitoring™ offers a comprehensive solution for critical high-value assets by providing centralized monitoring and testing data. By eliminating isolated data silos, our platform enables easy access to crucial information, empowering informed decision-making regarding the health and impact of overall operations.

This state-of-the-art solution is specifically crafted to tackle pressing challenges within industries, particularly those associated with rotating equipment like pumps and compressors. Facilitating centralized monitoring and seamless integration with maintenance programs, BlueMarvel.ProcessMonitoring™ fosters a connection between people, processes, and technology to enhance overall operational efficiency.

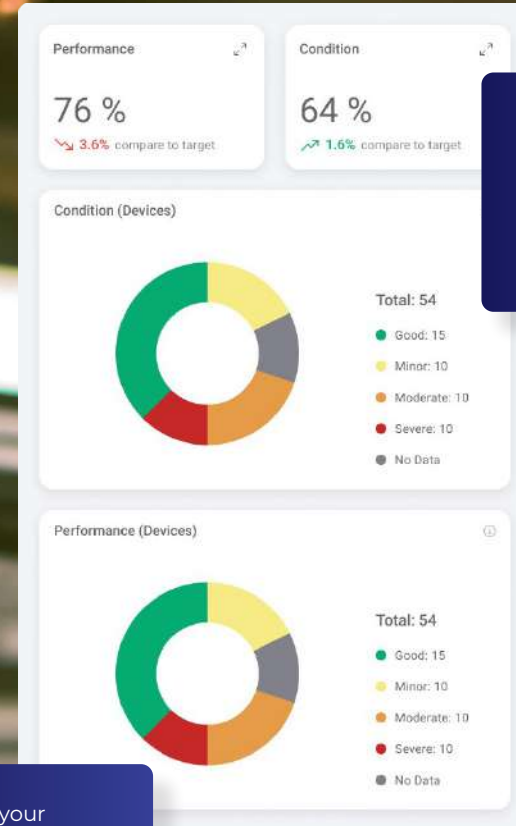


## Application focus

Help drive centralized monitoring and close the loop with the maintenance program by connecting people with the process and the technology.

Reduce unplanned downtime, production bottlenecks, and maintenance costs.

Enable sustainable improvements by measuring, documenting, and reporting historical and current performance.



Understand the condition and performance of your fleet of assets and trend these values over time.

Enable your personnel to focus on the assets that are of greatest concern.



# BlueMarvel.Energy™

» Track energy consumption and generation costs.

Energy efficiency and sustainability are top priorities, and BlueMarvel.Energy™ stands as a fundamental component of smart energy management. Our solution aims to lower energy consumption and expenses while enabling enterprises to make well-informed energy usage and generation decisions.

Built around the ISO 50001 energy management standard, our solution provides a framework to manage energy and other consumable resources across one or more industrial enterprises. By continuously tracking each energy stream, our solution enables you to make your operation more profitable and sustainable by managing these variable costs.

BlueMarvel.Energy™ allows industrial enterprises to adopt policies where energy is viewed as a variable cost that is actively managed rather than a fixed overhead.



**ASSURED ROI**  
with a money-back  
guarantee.

## Application focus

Visualize energy KPIs across your enterprise.

Track energy generation costs using AI to identify energy anomalies resulting in savings.

Benchmark energy use and generation across fleets of operations.

Establish a continuous energy improvement model based on accurate energy information.

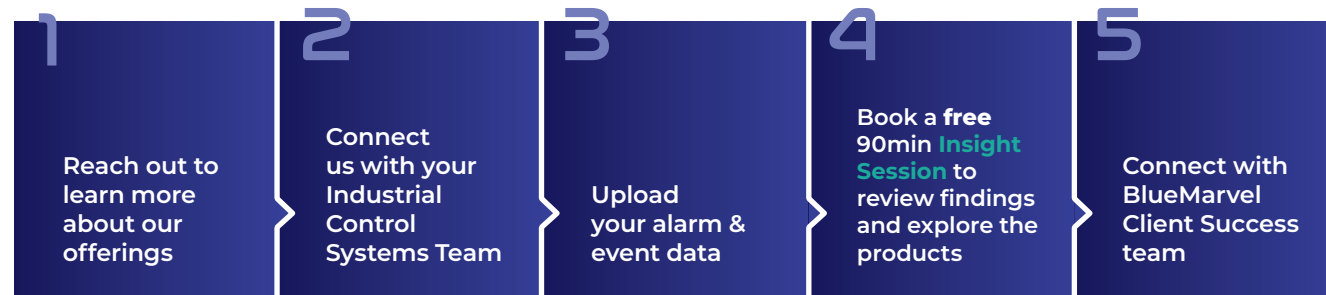


Filter and focus on assets or elements of your energy system to understand where your costs are versus where they could be.

**OPERATING COST**  
(\$ / MONTH)  
**\$6,799,595.31**  
-14% compare to target

Understand your consumption and generation across your cost centers.

# Book an Insight Session



“A lot of times, people don’t know what they want until you show it to them.”

—Steve Jobs

During an **Insight Session** with BlueMarvel, we take a sample of your alarm, operator actions, and bypass data and process it to demonstrate how it would look in our application. This approach goes beyond a regular demo with synthetic data, aiming to create a more meaningful connection.

The goal is to provide clients with an “Aha!” moment, instilling confidence in the value of BlueMarvel’s products and sparking excitement around using the complete suite of products on all your industrial data.

These sessions play a crucial role in building motivation and momentum, encouraging you to explore ways to integrate this new information into your industrial systems. It’s about showcasing what our products can do and helping you envision the tangible impact on your data and systems.



## Typical Findings:

- Accessible Data Aggregation
- KPI Evaluation
- Top Bad Actor Identification
- Unique Alarm Trends
- Alarm Reduction Potential
- Operator Actions Analysis
- Automation Opportunities

*It is important to note that an **Insight Session** only scratches the surface, offering a limited preview of selected BlueMarvel.AI products and features. In cases where a data-driven **Insight Session** is not feasible, we offer an alternative high-level demo to provide a broader understanding of the product.*

# InsightPRO

## Have a specific use case that requires a tailored approach?

Our top-tier Operational Technology Data Scientists dive into your data ecosystem, investigating various use cases, including equipment reliability, process debottlenecking, predictive performance monitoring, process optimization, and workflow automation.

Backed by extensive industry domain knowledge, adept machine learning skills, and expertise in data architecture, our experts meticulously analyze your processes and use cases.

## What we provide:

- **Comprehensive Analysis:** We review your data to uncover insights and opportunities.
- **ROI Evaluation:** We assess the return-on-investment potential of the proposed solutions.
- **Infrastructure Assessment:** We identify any gaps in your infrastructure for deploying data-driven solutions.
- **Roadmap Development:** We collaborate with you to craft a roadmap for implementing solutions with the highest ROI.

Our **InsightPRO** service is not just about exploring data; it’s about uncovering possibilities, seizing opportunities, and driving meaningful change in your operations. It’s a paid option, but we guarantee return on investment with the insights we uncover from your data.

With our expertise and dedication, we empower you to leverage the full potential of BlueMarvel data science to transform your business.

Contact [sales@bluemarvel.ai](mailto:sales@bluemarvel.ai) to learn more and get a quote.



See your data in new light:



BlueMarvel is an industrial operations technology company backed by over 80 years of process industry expertise. Together, we can navigate the digital transformation space and explore the exciting new frontiers of AI and Machine Learning in industrial enterprises.



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