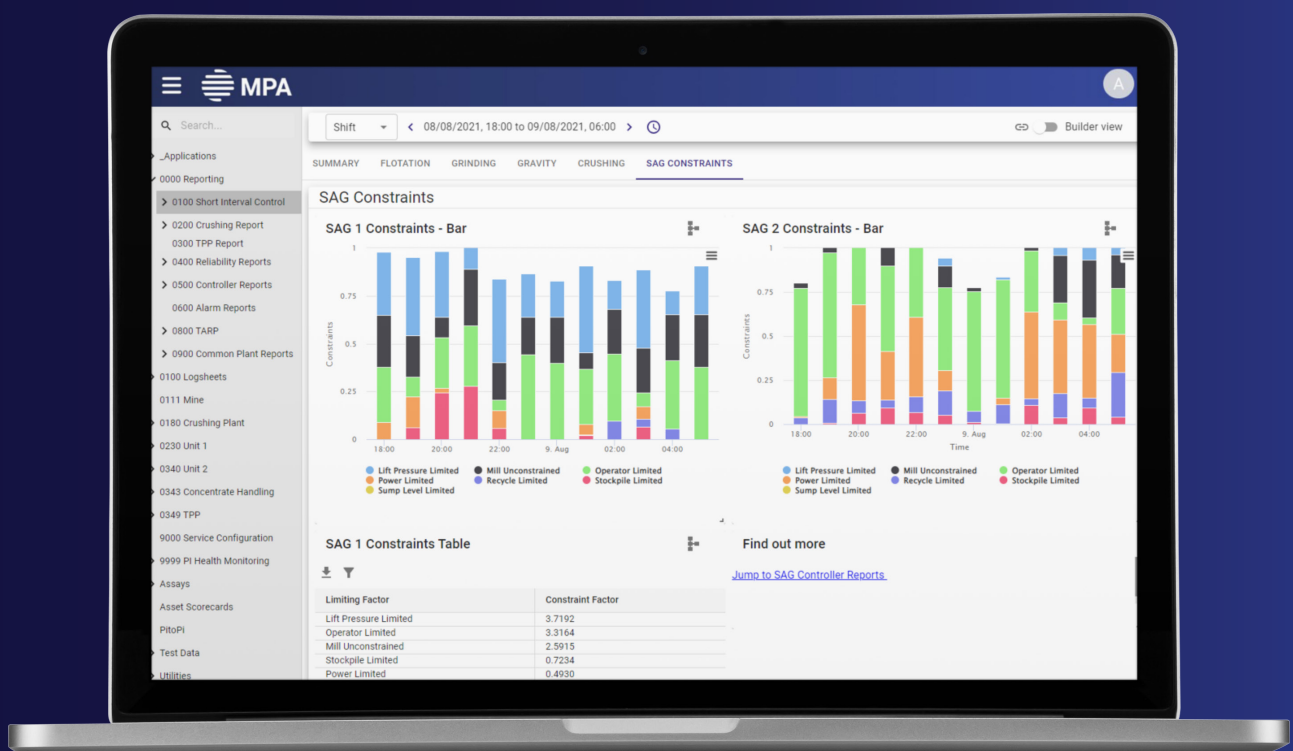# **MPA** Software

Realise your operation's potential with our suite of MPA software applications
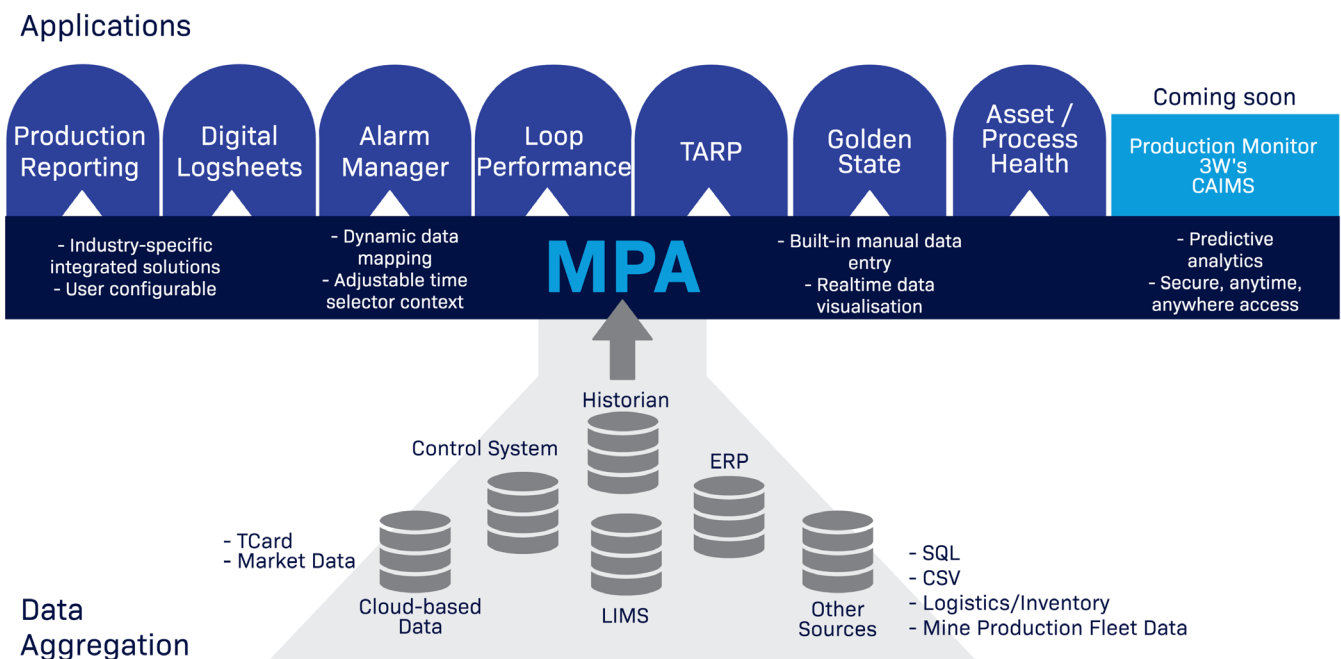
February 2023

MPA is Mipac's suite of integrated applications to:

- **increase** production,
- **reduce** variability and
- **deliver** operational excellence.

At Mipac, we believe by empowering teams with operational insight and foresight, we can help organisations increase production, reduce variability and deliver operational excellence.

Designed by experts like you, our purpose-built software will detect, escalate, track, control and manage production events, enabling teams to solve operational challenges in real-time.

Discover how MPA's suite of applications integrate

Imagine a world where your complex operation realises its full potential.

Early detection of operational issues

Ensure critical controls are in place and effective

Enhance decision-making

Quickly resolve production deviations

Focus production meetings on the future

Rapidly visualise plant key performance indicators and drivers

Unleash the potential of your existing data

Prioritise business improvements

Establish a single source of truth

Designed as a comprehensive solution, MPA provides operational insight and intervention for complex processes through a suite of integrated applications.

With MPA, you can increase production, reduce variability, and deliver operational excellence.

MPA's suite of applications include:

Digital TARP

- Streamline corrective actions by having a clear and concise plan for anticipated events

- Minimise risk by ensuring corrective action aligns with agreed best approach

- Optimise decision-making by identifying long-term improvement projects by comparing historical events

Alarm Manager

- Monitor, manage and optimise control system alarms to recommended standard

Loop Performance

- Measure control loop health and performance across the entire operation

- Optimise control loops to improve plant stability

- Detect deviations early to support proactive maintenance or calibration of equipment

Golden State

- Define and visualise key performance drivers

- Identify when unit operations are operating outside control limits

- Illuminate bad actors to rapidly address production deviations

Logsheets

- Digitally capture operator observations and actions, reducing duplication and sharing real-time insights across departments

- Understanding long-term instrument accuracy and drift by overlaying instrumented data over manual checks

- Automate inventory calculations to reduce errors and increase efficiency

Asset / Process Health

- Prevent looming downtime events and process inefficiencies by notifying the right people to take meaningful action

- Identify, assess and address at-risk assets and processes

- Maitain peak operational health, maximise asset longevity and prevent costly downtime through predictive analytics

Production Reporting

- Dynamically visualise and analyse your plant over adjustable timeframes

- Enable your team with integrated and pre-populated production reports pulled from multiple data sources

- Track production KPIs such as budget vs actual

Production Monitor (Coming Soon)

- Detect and manage underperformance as soon as or before it happens, whilst alerting relevant stakeholders

- Identify under-performance by comparing actual against theoretical model/best practice in real-time

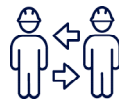- Identify critical bottlenecks to maximise value of technical staff

Why MPA?

People & Resource Management

MPA suite's collaborative environment enables team members to communicate, escalate and address issues in real time, reducing misunderstandings and enabling better decision making.

Knowledge Retention

By serving as a single source of truth for production data, MPA helps retain critical operational insights across rosters. MPA applications support knowledge retention and transfer, accelerating the effectiveness of new team members.

Eliminate Data & System Silos

Our applications are designed not just to stand alone, but to integrate with one another, providing a unified, holistic operational solution. This cross-application interaction optimises data flow, reduces process silos, and enhances the efficiency and consistency of decision-making across the board.

Seamless Integration

We believe data should be retained at its source. That's why MPA's applications can easily integrate with existing systems (such as AVEVA PI AF), ensuring smooth data flow, reducing duplication and increasing overall efficiency.

Maximise Investment In Other Systems

MPA complements your other systems through integration of data, meaning your investment in existing systems is maximised.

Collaboration

MPA facilitates better communication and collaboration among team members by providing a shared view of operational data, thereby aligning efforts towards common goals.

Data Utilisation

The ability to visualise, compare, and analyse key performance indicators across MPA applications enhances decision-making capabilities. Moreover, the early detection of operational issues and under performance helps automate corrective actions, reducing the time to resolution.

Trusted Support

The MPA suite is supported by Mipac, a global leader in operational technology with over 26 years experience. When you deploy MPA applications you gain access to our engineers with years of operational experience and a team that delivers operational excellence applications to the industry.
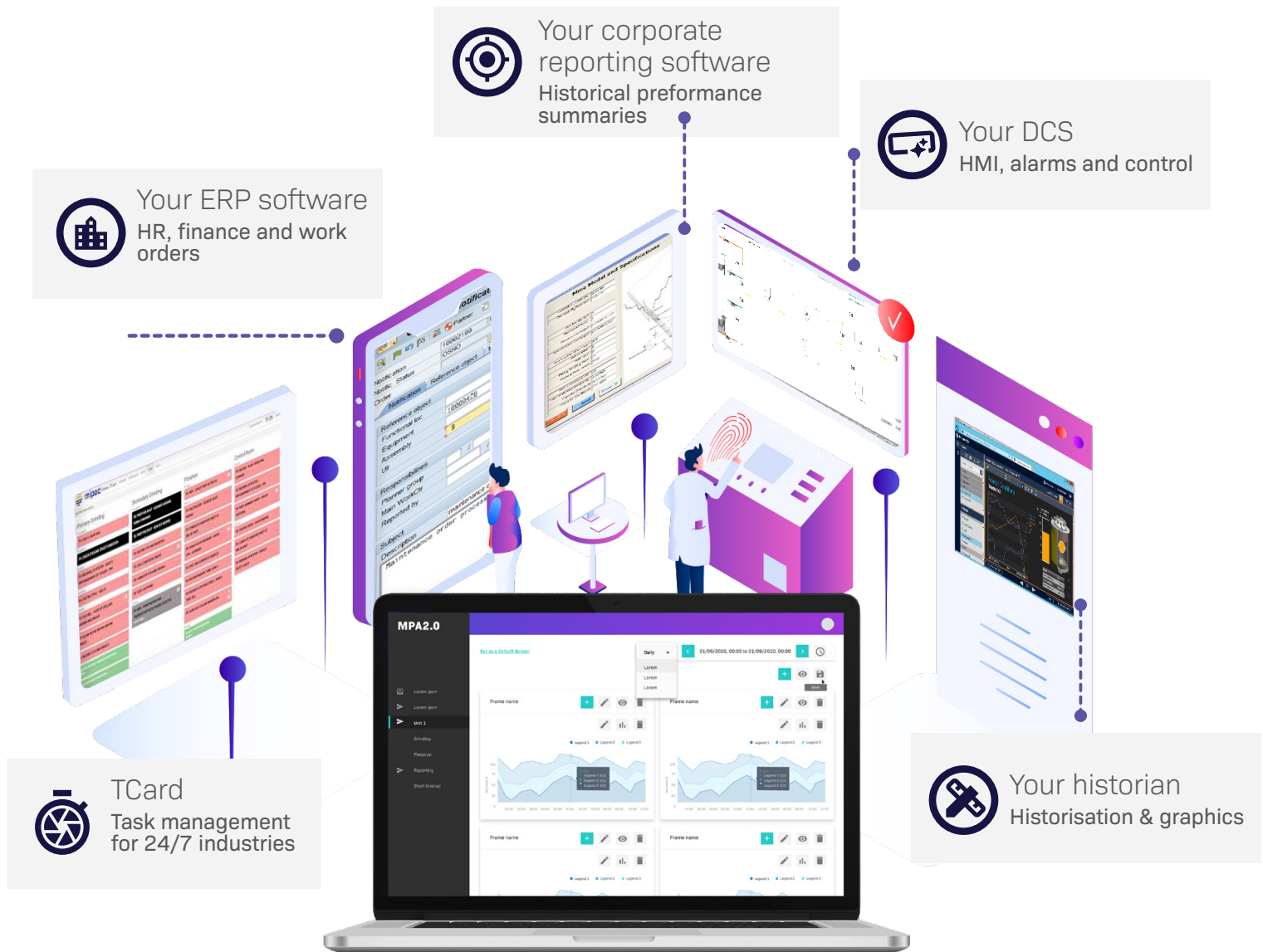
Scalable

Our applications are designed to grow with your business needs. Teams can start small and add new applications or extend use to other plant areas in line with your technology and business improvement roadmaps.

How MPA Interacts

Your corporate reporting software
Historical preformance summaries

Your DCS
HMI, alarms and control

Your ERP software
HR, finance and work orders

TCard
Task management for 24/7 industries

Your historian
Historisation & graphics

MPA2.0

MPA complements, rather than replaces, existing well-functioning, proven systems.

What our
clients say

Mipac's quick responses and attention to detail have made the roll-out seamless, saving time for operations and the met team on a daily basis, while also allowing for the plant data to now be live monitored by the team.
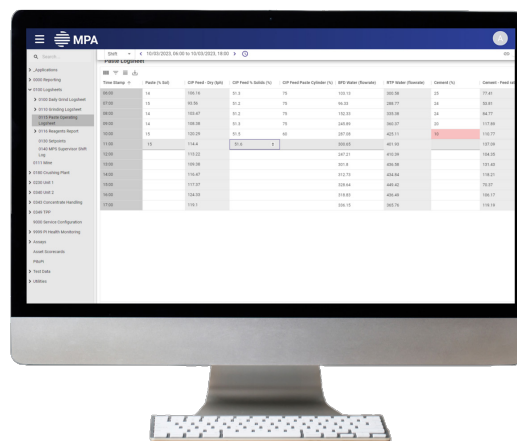
NORTHERN STAR
RESOURCES LIMITED

"Northern Star Resources Pogo worked with Mipac at Pogo on the digitization of the operator logsheets into the MPA system and are extremely pleased with the results.

Mipac went above and beyond to accommodate specific feature requests that were not yet included into MPA and were very helpful in putting the vision of the logsheets to paper.

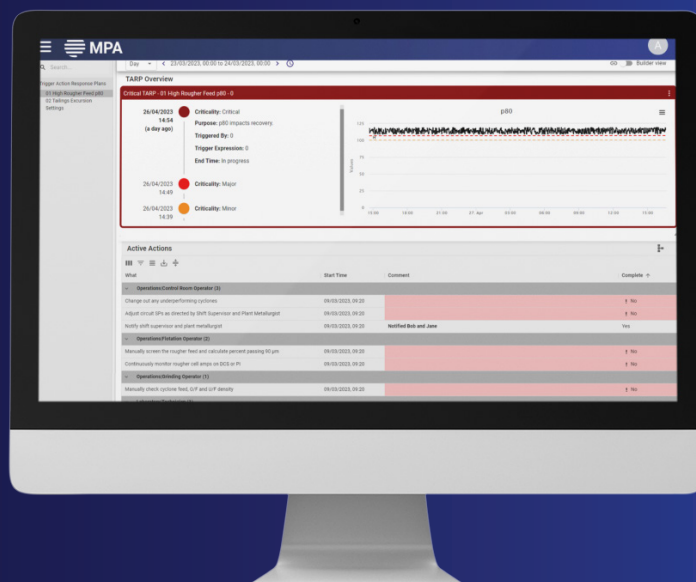## The benefits from MPA were realised immediately."

Mark Pliska
Processing Manager
Northern Star Resources,
Pogo Operations, Alaska

"I tried to calculate the benefit based on percent improvement in time savings, but it is not possible to **divide by zero**!

With MPA Digital Logsheets, we no longer spend ANY time maintaining our Logsheet system"

James Sweeney
Project Metallurgist,
Northern Star Resources,
Pogo Operations, Alaska

- Advanced Process Control
- Industrial Automation
- Industrial Software Solutions
- Data Visualisation and Analytics
- Electrical and Instrumentation
- Process Optimisation
- Cybersecurity
- Operations Support and Procurement
- Industry 4.0 Consulting

About Mipac

Built by miners for miners. Global leaders in operational technology, control systems and engineering services, Mipac is the perfect partner in driving your operational performance.

From control systems with robust software and engineering foundations to the latest innovative advancements in digital technology, Mipac delivers high-quality, intelligent solutions to drive performance.

We understand the complex challenges operations face through our depth of onsite experience and have developed a reputation for solving complex problems.

Operating globally, we provide an extensive range of services to realise the total value of your mining operation and have developed a suite of products that will help you increase productivity, reduce costs and optimise operational performance.

From solid software and engineering foundations to the latest innovative advancements in digital technology, Mipac are your trusted advisors for all aspects of your mining operation.

Our solutions

We work across various industries to realise the total value of your operation and recommend solutions and services that produce optimal outcomes and increased performance.

Building new operations

Operating and optimising existing operations

Modernising existing operations

Main Automation Contractor

mipac

We believe in working together with our clients and partners to achieve their goals.

At Mipac, we go

beyond the solution!

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mipac.com.au

With more than

730

projects delivered worldwide

over the past

3

decades, we've worked in

more than

55

countries around the globe

for more than

110

clients across the globe

with a team of

125

experts dedicated to projects like yours.