

Asset and Plant Optimization Services

Data-driven services improve operational and financial performance



LISTEN.
THINK.
SOLVE.®

 Allen-Bradley • Rockwell Software

**Rockwell
Automation**

What's Holding You Back?

You deal with various challenges throughout your enterprise on a day-to-day basis.

You may be facing:

- Aging, obsolete or unsupported systems
- High maintenance, repair and operations (MRO) costs
- Increasing inventory complexity
- Underperforming or unreliable assets

Managing these challenges along with pressures to meet daily production targets can lead to a “just keep it running” mindset – and prevent your operations from reaching their full potential.

Maximize Return on Your Production Assets

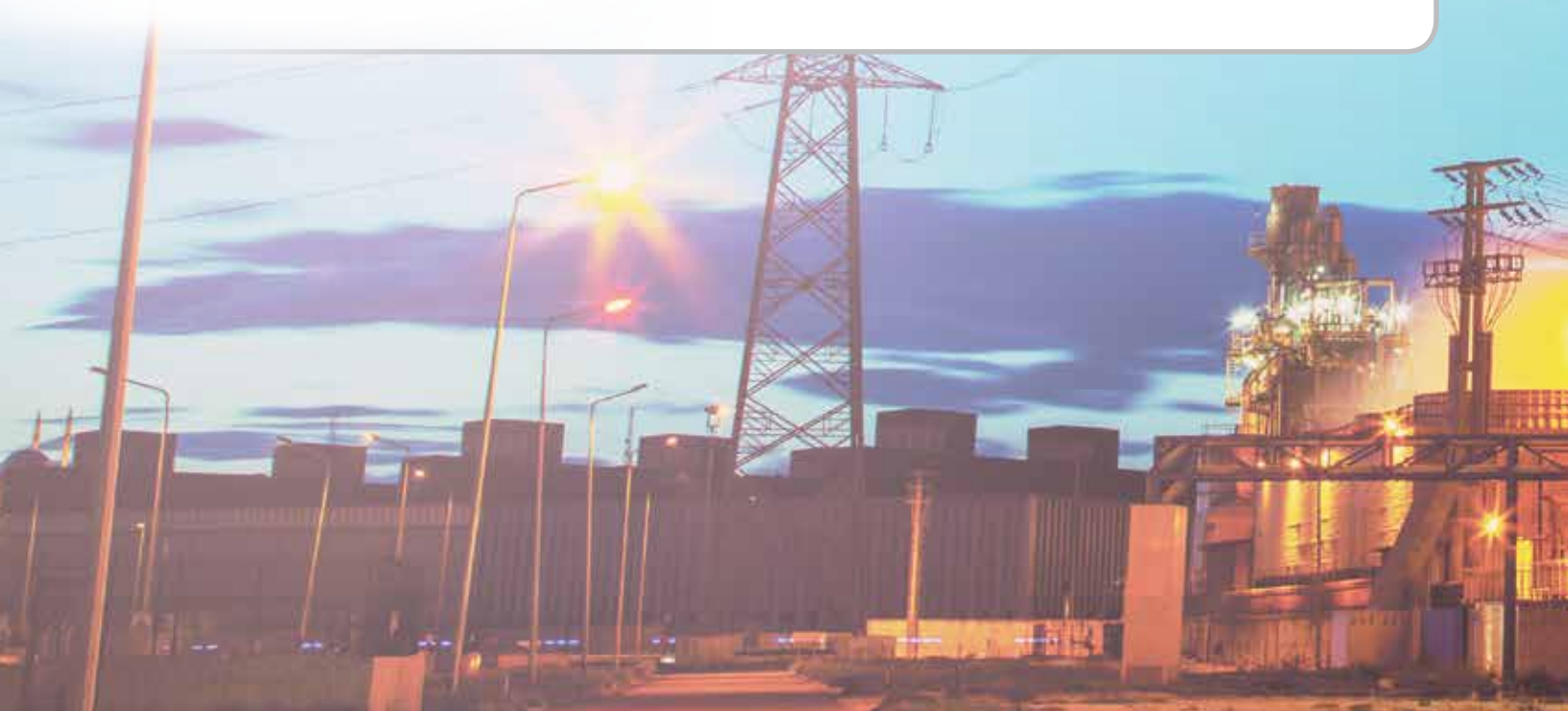
Our asset and plant optimization services can help you proactively manage your enterprise challenges or let Rockwell Automation manage them for you. This allows you to focus your efforts on optimizing the operational and financial performance of your production assets.

We can help you in three key areas:

Inventory Services can help you transform your inventory management into a lean, cost-saving machine

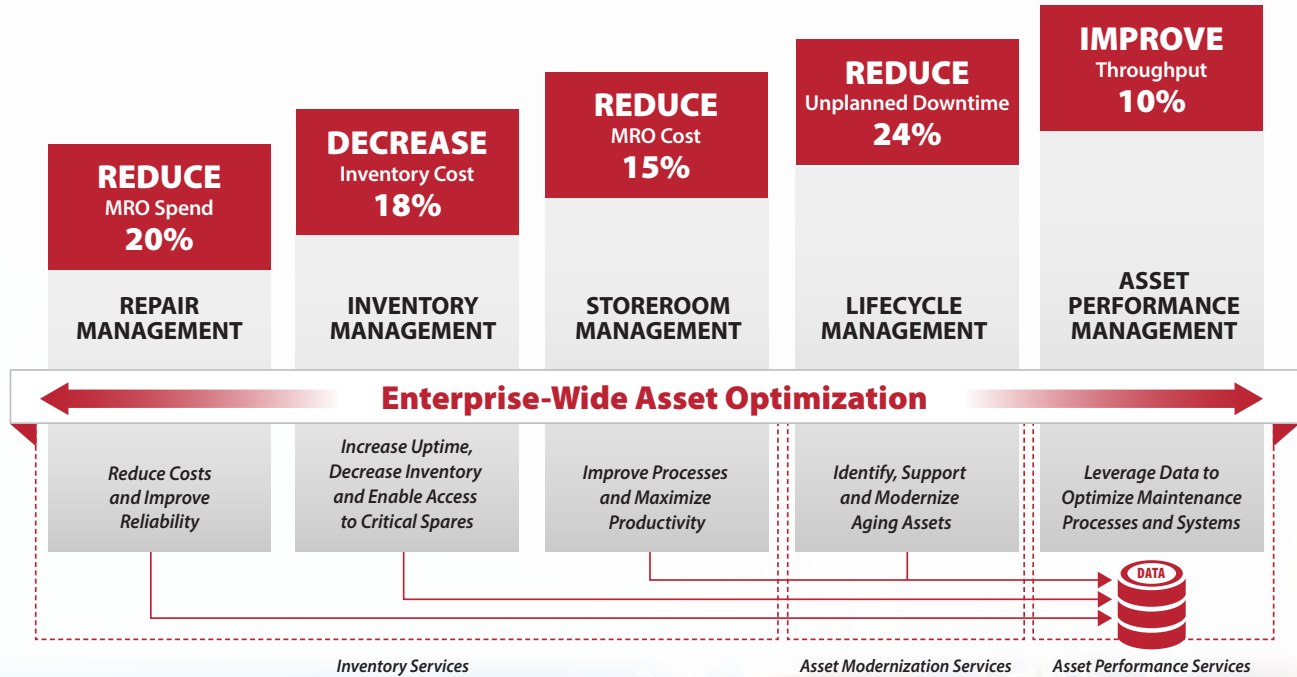
Asset Modernization helps you identify and reduce your obsolescence risk – and modernize with information-enabled technology

Asset Performance Services can accelerate productivity and take asset performance to a new level



Improve Operational and Financial Performance

With data-driven services



MRO spending by manufacturing companies worldwide totals more than **\$30 billion per year**. Heavy-manufacturing industries, such as infrastructure and mining, report the highest MRO spending as a percentage of revenues.

Inventory Services

Our inventory services can streamline your inventory management, improve uptime and reduce MRO costs by up to 25 percent.

Storeroom Management services identify critical issues and address operational gaps in your storeroom operations. We work with you to help:

- Reduce your inventory levels and MRO costs
- Support data-driven maintenance decisions
- Improve KPIs, including inventory accuracy, fill rate and order accuracy

Parts Management Agreements (PMA) transfer the task of owning and managing your spare parts inventory to us. This gives you ready access to the spare parts you need while avoiding buildup of unnecessary inventory over time. It also can help you minimize inventory-carrying expenses, maximize uptime for critical assets, and reduce mean time to repair (MTTR).

MRO Inventory Management services use demand-management processes to help you reduce your MRO costs. You will work directly with a dedicated, asset-management professional at your site, to identify risks, pinpoint root causes of failure, drive issue-resolution processes, improve asset optimization, manage obsolescence and more. Our programs have delivered hundreds of millions of dollars in cost savings to customers.

An **Installed Base Evaluation™** collects data and provides actionable reports on the critical assets installed across your enterprise. When you know the status of spare parts and discontinued equipment, you can make more informed decisions regarding their support and obsolescence management. These evaluations can help you:

- Identify and eliminate excess inventory
- Keep critical spares on-site
- Confirm that assets have up-to-date bills of material

BENEFITS

- Easily access spare parts
- Maintain integrity of critical spares
- Optimize storeroom design and processes
- Improve MRO decision making
- Reduce MRO costs

“The Parts Management Agreement literally **paid for itself** within the first week.”

Electrical/Planning Superintendent,
Mining Operation



Asset Modernization Services

Make your modernization project a successful one. We can help you identify your most critical assets and greatest obsolescence risks, support legacy assets and implement the latest technologies.

Installed Base Evaluations provide a thorough analysis of your critical hardware and software assets. This can help you identify risks and specific improvement opportunities that might exist, and serve as a roadmap for your modernization project.

Legacy Support and Lifecycle Extension services support you along the path to modernization.

- **Legacy Support**, including spare-parts management, repairs and preventive maintenance, can help you support older equipment until your modernization project is complete
- **Lifecycle Extension Agreements** can include the repair, spare-parts or engineering support you need to help avoid the risks and possible financial consequences of using older equipment

More than **\$65 billion** in legacy automation assets are reaching the end of their useful life.

ARC Advisory Group

Modernization services will help you develop a modernization plan and implement it in a way that works best for you.

- **Support staff** can be on-site with you to troubleshoot equipment and software issues as they arise
- **Conversion** services provide a customized upgrade solution that includes hardware, software conversion engineering and start-up services

BENEFITS

- Identify most critical risks
- Evaluate modernization options
- Plan for modernization and legacy support
- Implement modern solutions
- Optimize performance

“The skill and unfailing support from the Rockwell Automation team throughout the project made all the difference.”

Electricity and Automation Manager,
Food-Production Facility, Control System Modernization Project

Asset Performance Services

You always want your assets - whether individual devices or whole applications or equipment sets - to perform at their best. Our asset performance services can help you monitor your assets, improve their availability and identify issues before they lead to downtime.

Asset Reliability services use the vast amount of maintenance data within your assets to improve their performance and reduce risk. We can:

- Create outcome-based reliability programs
- Deploy an automated asset-intelligence system that delivers proactive notification of risks, tracks device changes and helps streamline maintenance-based decisions

Remote Monitoring and Analytics services can help you monitor your critical assets and gain valuable insights into their performance. Production data, asset health and diagnostics, and other information help your team make better decisions. Analytic and predictive outcomes can be used to identify or even prevent downtime issues.

At least **60 percent** of preventive maintenance tasks performed today are unnecessary.

Oniqua Enterprise Analytics, Report

Preventive Maintenance service agreements can keep your critical assets running at peak efficiency. We work with you to identify pending system failures and recommend which components should be repaired or replaced. This can reduce or eliminate the unnecessary repairs and associated costs that occur with most time-based preventive maintenance programs.

BENEFITS

- Identify issues before downtime occurs
- Monitor asset health on-site or remotely
- Streamline maintenance
- Improve asset availability
- Boost your bottom line

“We’ve sharpened our focus on reliability-centered maintenance, and have **increased uptime** from 75 percent to 80 percent.”

Leading Diesel Engine Manufacturer,
regarding Rockwell Automation Asset Performance Services

CUSTOMER SUCCESS STORY

Oil Giant Improves Cybersecurity, Lowers Manpower Costs

Challenges

- A major oil and gas producer needed a comprehensive system for gathering data in its process control network (PCN)
- The manual data collection process they were using couldn't keep up with such a large and dynamic PCN installation — 2,800 control devices across six oil fields
- The process carried environmental and cybersecurity risks

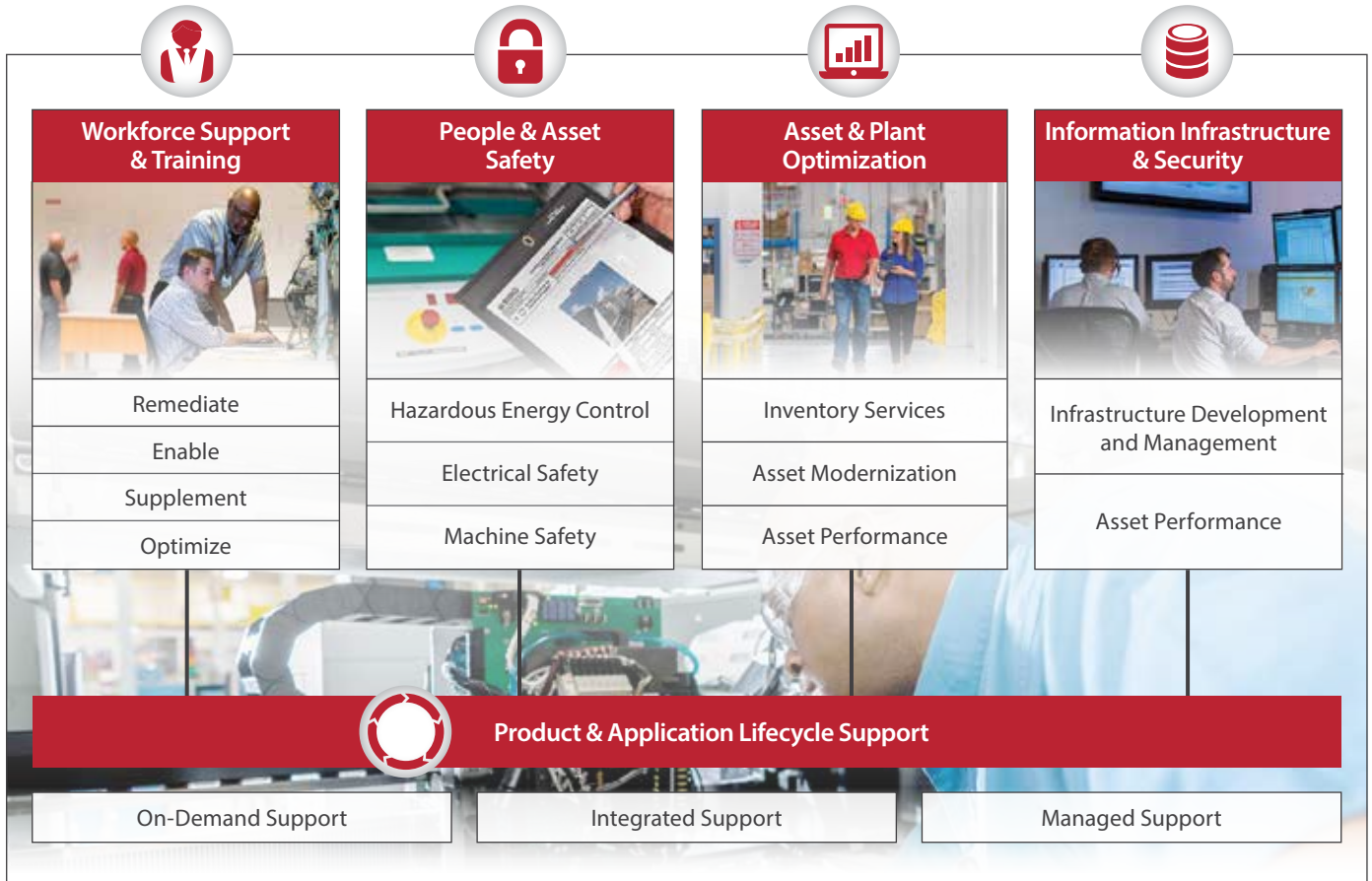
Rockwell Automation Delivered Solution

- A diagnostic reliability (DR) system that automatically identifies, interrogates and monitors control hardware by continuously scanning the PCN network
- The safe and secure system applies to Allen-Bradley® and third-party devices
- Proprietary code directs the system to locate and tag every device on the PCN using native industrial protocols to talk to each device
- DR system also analyzes each asset to understand its status, health and parameter changes
- Two Rockwell Automation field-service engineers work on-site, helping the company's team troubleshoot and correct issues identified by the DR system

Results

- The oil company's business unit is in full compliance with the new corporate cybersecurity policy based on the ISA99 standard for industrial control systems
 - By moving to automated real-time data collection, the company can also now perform proactive maintenance, helping to lower manpower costs in the field and yield more barrels of oil per day
-





For more information about how we can help you solve your unique business challenges, contact your local authorized Allen-Bradley distributor or Rockwell Automation sales office, or visit: rok.auto/services

 Connect with us.

Services vary by region.

Allen-Bradley, LISTEN.THINK.SOLVE., Rockwell Automation and Rockwell Software are trademarks of Rockwell Automation Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
 Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
 Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846