EverSense





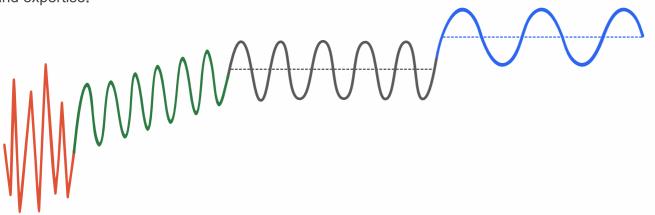
Forbes Marshall Digital

#BeyondConnectivity

Key performance indicators in manufacturing operations include process efficiency, plant uptime, safety, energy efficiency and environmental impact. On-the-ground experience through our own interactions with thousands of plants indicates that over time, plant performance deteriorates.

	Desired	Actual	
Process Efficiency	Consistency in process parameters, productivity and quality	Variations in process parameters, bottlenecks in productivity and varying rejection rates	
Uptime	>95% uptime at the product, equipment and plant level	<60% uptime at the product and equipment level	
Safety	Zero accidents	Safety hazards prevalent across the system	
Energy Efficiency	Benchmark specific energy consumption	21% average energy reduction potential across plants	
Environmental Impact	Low emissions, effluent and water footprint	Potential to reduce water consumption, effluent and emission discharge	

This gap between desired and actual performance across KPIs is due to many factors, including dynamic process variations, equipment downtime, operating practices and a lack of awareness and expertise.



Unattended KPI	Right Products	Operations Over Time	Beyond Connectivity
High variability,	An efficient plant built for	Plant performance	Reduced variance, 24x7 detection of
significant opportunity	your needs, aimed at being a	impacted by operating	any failure, quicker resolution,
to optimise	benchmark plant in	practices, production loads,	actionable insights, prediction
	your industry	and other variables over time	for maintenance or failure

Sustaining plant performance requires a combination of:

- Diagnostics: Real time monitoring provides visibility on KPI variations / deviations
- System Upgrades: Rectifying system design and installing the right products improves performance
- Data Analysis: Extracting value from data by analysing the reasons for KPI variations and providing corrective actions helps reduces the frequency and band of variations
- Operations and Maintenance Practices: Prescriptive and proactive maintenance of products and equipments ensures >95% uptime

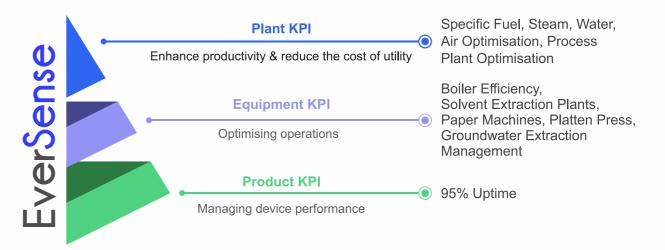
Beyond Connectivity

Our process and utility expertise, combined with being digitally present in your plant 24x7, along with our diverse product basket and wide physical reach ensures Forbes Marshall Digital truly goes #BeyondConnectivity.



Today, through 24x7 digital connectivity with our customers' plants, our engineers leverage real time data coupled with site visits to identify the root cause of performance variations and provide timely corrective actions to deliver more consistent and efficient performance across the plant.

Our digital solutions impact uptime and reliability, productivity, efficiency, safety and environment across 3 levels: Plant, Equipment and Product.

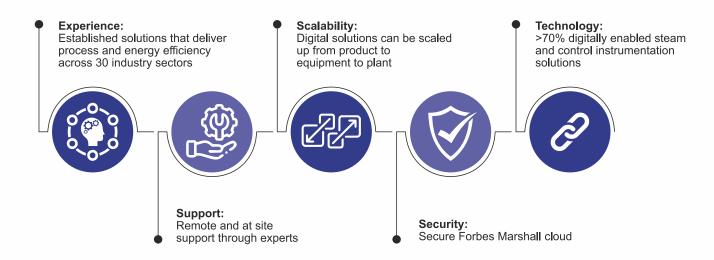


At the product level our digital solutions focus on sustaining >95% uptime. Specific product data is analysed to remotely monitor health and diagnose issues, enabling proactive maintenance and reducing downtime.

At the equipment level our focus is on delivering more efficient and precise operation. We offer specific solutions for boiler efficiency, solvent extraction plants, paper machines, platten press and groundwater extraction management.

At the plant level our solutions focus on improving and sustaining broad KPIs like specific energy consumption, specific water consumption, air energy factor, plant condensate recovery factor, etc.

Our Strength



Our Digital Presence



Monitoring every minute 500 Plants

1,200 Assets

7,500 Parameters



Across

Automobiles

Food & Beverage

Metal and Mining

Paper and Corrugation

Plywood and Laminates

Pharma and Chemical

Power Plants

Rubber

Sugar

Textiles

Water, AAC Blocks



Delivering

7-10% Steam Reduction

3-5% Productivity Improvement

1-3% Boiler Efficiency Improvement

From 70 to 90% Uptime Improvement

1% Water Savings

2% Power Savings

10-15% Energy Savings



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Codel International

Krohne Marshall

Forbes Vyncke

Forbes Marshall Steam Systems

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