

NAVIGATING THE FUTURE OF CHEMICALS

HONEYWELL'S MARKET INSIGHTS AND DIGITALIZATION IMPERATIVE

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SPECIALTY CHEMICALS VOLATILE LANDSCAPE



FLUCTUATING ENERGY COSTS

High electricity costs in Europe triggering capacity closures and operational relocations.



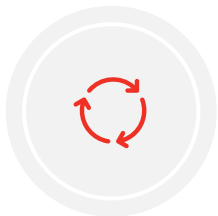
SUPPLY CHAIN DISRUPTIONS

Geopolitical tensions, tariffs, and transportation bottlenecks creating delays and cost volatility.



RAPIDLY CHANGING REGULATIONS

Evolving sustainability mandates, trade policies, and compliance requirements across regions.



GROWING PRESSURE ON CHEMICAL COMPANIES

Maximize profitability and manage risk and compliance.

PIVOTING FROM GROWTH TO OPTIMIZATION

CUSTOMER PRIORITY SHIFT

BEFORE: Capacity expansion, greenfield projects, market share growth.

NOW: Extracting more value from current assets, improving yield and throughput, reducing downtime.

PRIORITY AREA

WHY IT MATTERS NOW

BUSINESS IMPACT

Operational Efficiency *Top Focus*

High interest rates and market uncertainty have slowed Capex growth; companies must do more with less.

Maximize output from existing assets; reduce waste, energy, and costs; improve margins.

Reliability & Uptime *Critical*

Depressed demand and volatile markets mean every hour of downtime is costly.

Predictive maintenance and uptime are critical for revenue and customer commitments.

Cost Control *Essential*

Margin pressure from energy, feedstock, and supply chain disruptions is intense.

Real-time cost visibility enables smarter decisions, optimized formulations, and process savings.

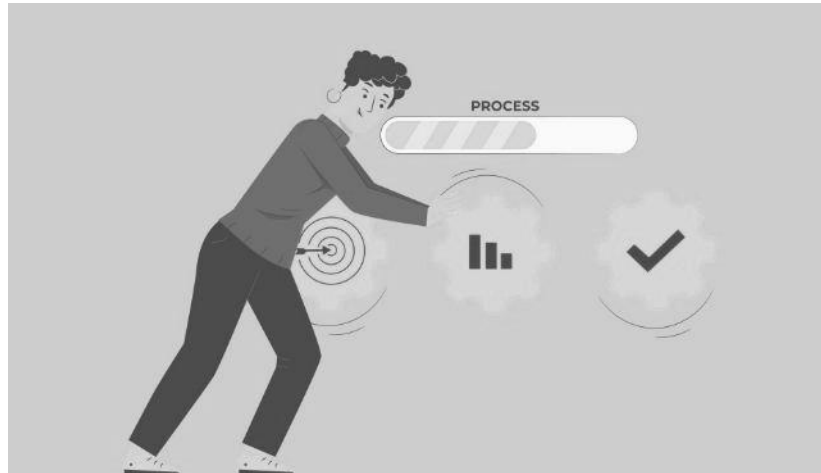
Regulatory Compliance *Mandatory*

ESG and climate disclosure rules (SEC, CSRD) are now mandatory, not optional.

Compliance is essential for market access, investor trust, and avoiding regulatory penalties.

AUTOMATION ON CHEMICAL INDUSTRY

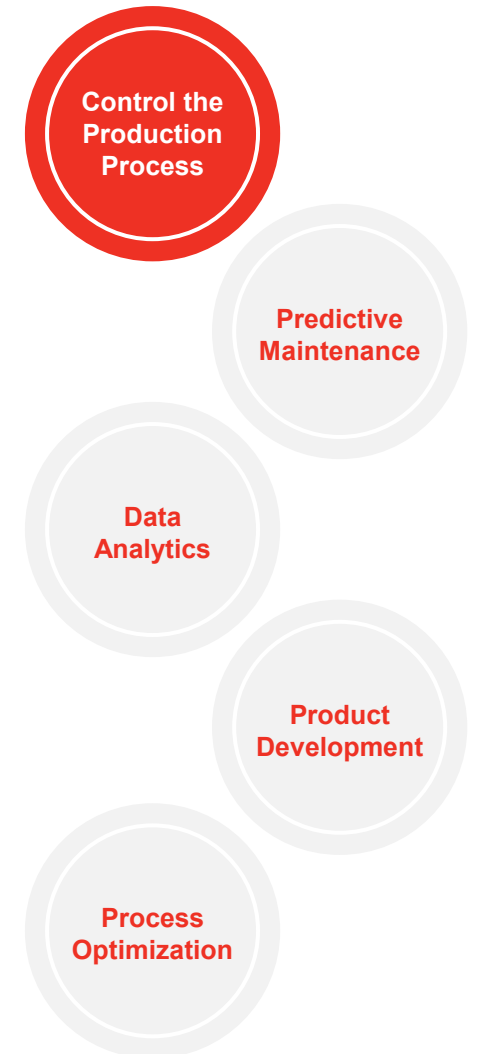
Areas of Opportunity



1. CONTROL THE PRODUCTION PROCESS

- Monitor quality control
- Manage inventory
- Optimize the production process
- Improve the overall efficiency of the production process
- Reduce errors and increase accuracy.

Automated systems can help ensure that the right chemicals and materials are used in the right amounts and that the correct processes are followed.



REDUCES WASTE AND INCREASES THE QUALITY OF THE FINISHED PRODUCTS

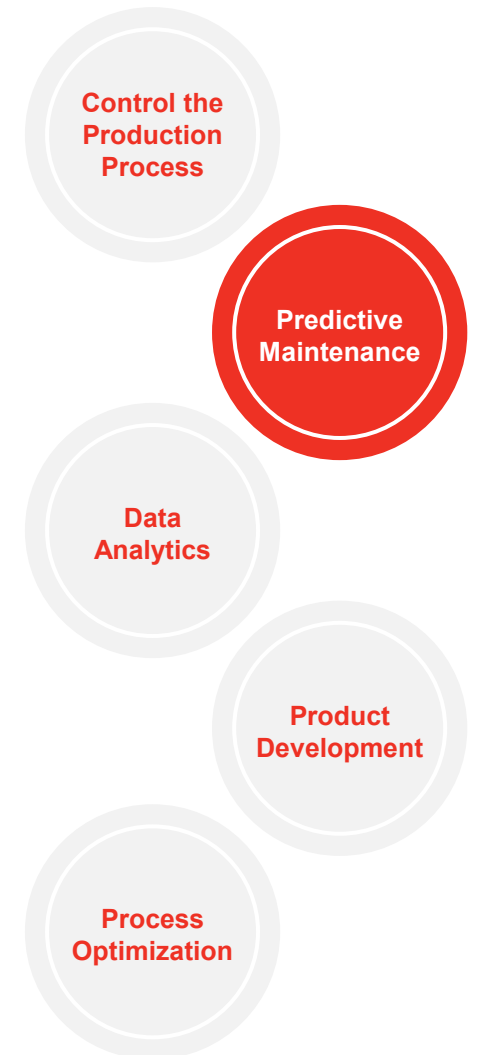
AUTOMATION ON CHEMICAL INDUSTRY

Areas of Opportunity



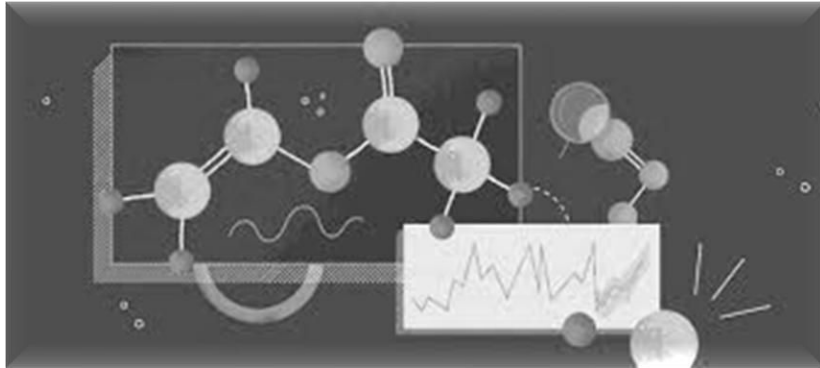
2. PREDICTIVE MAINTENANCE

- Automation can enable real-time monitoring of equipment and systems to detect signs of wear, tear, or malfunction before they lead to unscheduled downtime.
- This predictive maintenance approach allows for timely repairs and maintenance to prevent downtime.



AUTOMATION ON CHEMICAL INDUSTRY

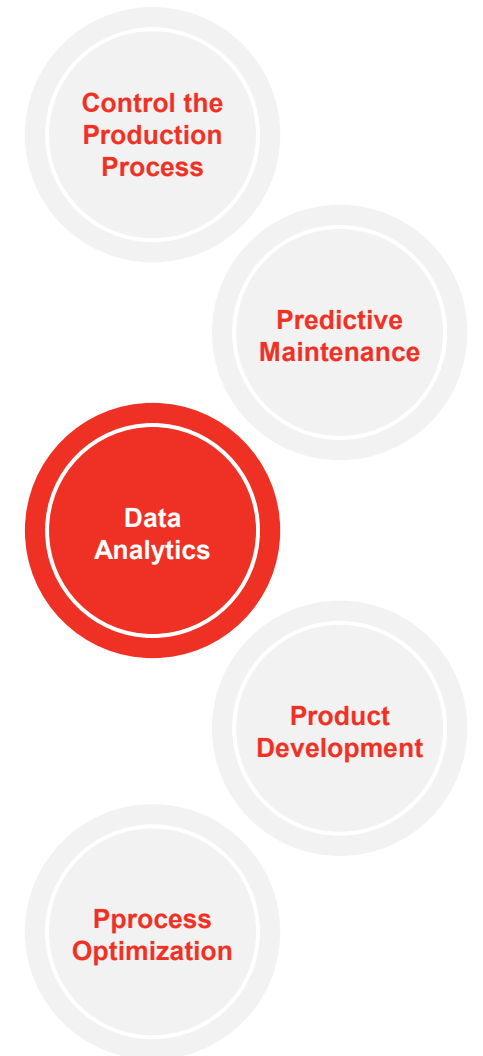
Areas of Opportunity



3. DATA ANALYTICS

- Automation can collect and analyze production data, identifying patterns and trends that can predict potential failures and trigger maintenance before downtime occurs.

The data-driven approach can also help identify opportunities for process optimization and efficiency improvements.



AUTOMATION ON CHEMICAL INDUSTRY

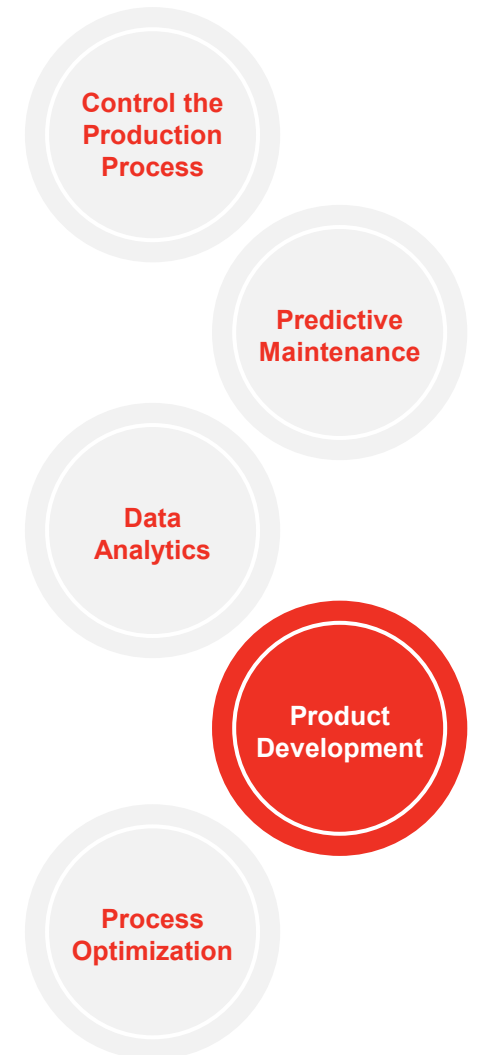
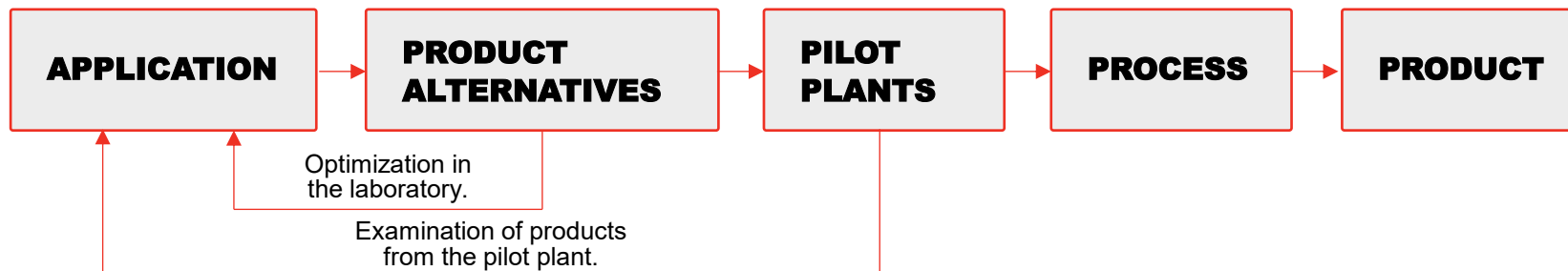
Areas of Opportunity



4. PRODUCT DEVELOPMENT

- Automation can accelerate the product development process by allowing for rapid testing and prototyping.

Automated lab equipment can quickly analyse and test new formulations, reducing the time and cost of product development.



AUTOMATION ON CHEMICAL INDUSTRY

Areas of Opportunity



5. REAL-TIME MONITORING

- Automation can enable real-time monitoring of production processes, which can help detect and correct compliance issues before they result in regulatory violations.

Automated sensors can monitor process variables such as temperature, pressure, and chemical concentrations, and alert operators to deviations from permitted limits.

Control the
Production
Process

Predictive
Maintenance

Data
Analytics

Product
Development

Process
Optimization

AUTOMATION ON CHEMICAL INDUSTRY



TOP BENEFITS OF AUTOMATION IN CHEMICAL PRODUCTION AND MANUFACTURING

1. Enhanced Safety

2. Improved Efficiency

3. Cost Savings

4. Reduce Waste

5. Increase Scalability

6. Minimizing Unscheduled Downtime

7. Product Lifecycle Management (PLM)

8. Regulatory Compliance

9. Training and Security

10. Communication

DRIVING INCREASED INNOVATION, COMPETITIVENESS, AND GROWTH.

WHY CHOOSE HONEYWELL?

20+ YEARS

Experience in OT for cybersecurity

VENDOR AGNOSTIC SERVICE



Our services are not dependent on your OT vendor

650+

Sites with Managed Security Services (MSS)



Rapid deployment via Managed Security Services



Standards Expertise

GLOBAL TEAM

Ability to deliver projects anywhere in the world



6000+

Number of projects delivered



400+ employees dedicated to OT cybersecurity

250+

Sites with SMX

CYBERSECURITY EXPERIENCE ACROSS KEY VERTICALS



SECURE - OT CYBERSECURITY AWARD WINNER



Certifications

OUR OT CYBERSECURITY EXPERIENCE SETS US APART

LET'S CONTINUE THE CONVERSATION!

MEET US AT BOOTH 802!



THANK YOU