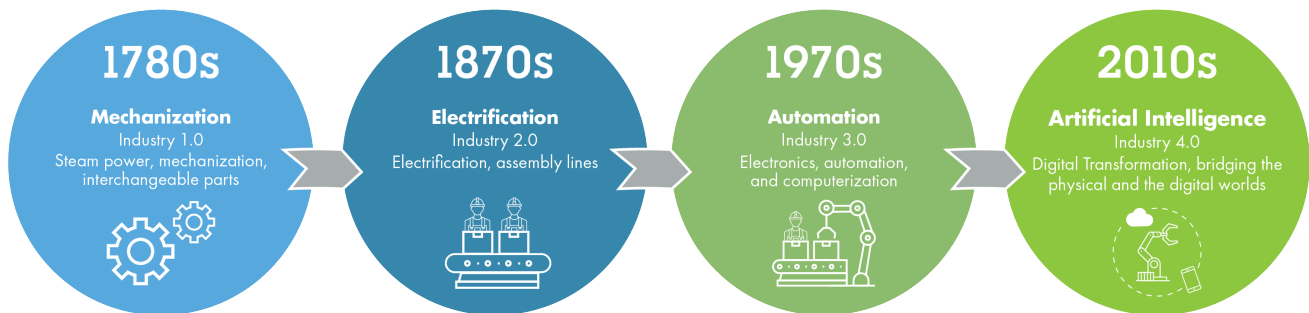


Industrial Revolutions

If you were to compare pictures of industrial facilities from the early 1800s to the ones you visit today, the differences are prominent. As our society evolves with better communication and upgraded technology, industrial facilities must not only keep up with the production demands of modern society, but also anticipate and prepare for future advancements in technology.

How do you get from the factory of today to the smart factory of the future?

The technology of each Industrial Revolution was built upon the one before. Many processes or operations still incorporate Industry 2.0 practices, but most US facilities have some form of Industry 3.0 implementation.

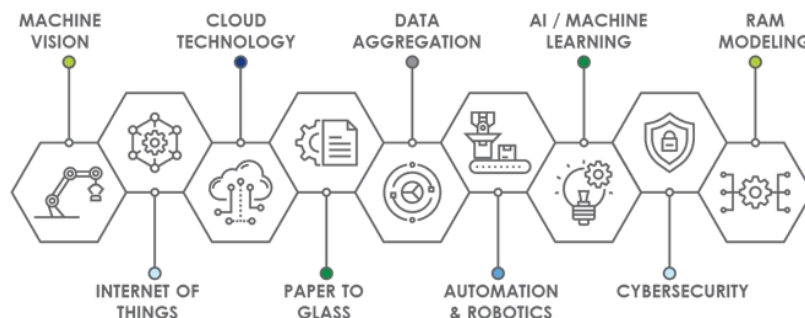


Improved applications and the introduction of new technologies will continue. Even the early technology of Industry 3.0 offered huge benefits over the prior technology. With the arrival of Industry 4.0, is your Industry 3.0 foundation ready?

Industry 3.0 provides people with substantial data, but not enough tools to extract meaningful intelligence from that data.

Industry 4.0 technologies range from decades old technology like Advanced Process Control (APC) to completely new technologies like Extended Reality (XR) for remote support/training and Cloud Services. The common thread to Industry 4.0 applications is improved use of data for human and AI decision making.

Before you plunge into Industry 4.0, it's important to address any gaps in your facility to ensure foundation technologies are present. Our Industry 3.0 Checklist can guide you in your transition into Industry 4.0 to create a



The Industry 3.0 Checklist

Think about your facility. What is manual? What is on paper? What is unknown? How can technology address these issues?

Y / N **1.** Do you have the necessary instrumentation for your processes?

Y / N **2.** Do you have good, automated process control and/or monitoring?

Y / N **3.** Do you have a robust and secure OT network?

Y / N **4.** Do you have a reliable, widely accessible process historian?

Y / N **5.** Are you tracking maintenance activities in a Computerized Maintenance Management System (CMMS)?

Y / N **6.** Are most of your maintenance activities planned and effective?

Y / N **7.** Are you tracking laboratory results in a Laboratory Information Management System (LIMS)?

Y / N **8.** Are you achieving desirable rates, conversion, and quality targets?

Y / N **9.** Are your Enterprise Resource Planning (ERP) systems driving daily production decisions?

Y / N **10.** Are your personnel being utilized efficiently?

If you answered "no" to any of the above questions, consider a strategy consultation with Hargrove so you can save money and get the best return out of your systems. Our Team will work with you to develop strategies that minimize downtime and increase production. Learn more about our process. Contact us today!

Revolutionize Your Plant Operations



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