



MANUFACTURING

IS ADVANCING.

DON'T GET LEFT

BEHIND.

WHAT CAN INDUSTRY 4.0 TECHNOLOGIES DO FOR YOU?

To ensure Michigan's small and medium-sized manufacturers are prepared for the next phase of manufacturing, the Michigan Economic Development Corporation (MEDC), in partnership with the Michigan Manufacturing Technology Center (The Center) and Automation Alley, has launched its Industry 4.0 Signature Initiative. This initiative aims to generate awareness of Industry 4.0 opportunities among manufacturers while connecting them to the services and resources they need to successfully prepare for technology implementations, enabling long-term business growth and prosperity.

 Automation Alley®

 MICHIGAN ECONOMIC
DEVELOPMENT CORPORATION

MICHIGAN
MANUFACTURING
TECHNOLOGY
CENTER

TECHNOLOGY TAILORED TO YOUR NEEDS

The Center is equipped to help your company proactively prepare for a more advanced future. Using our Technology Opportunity Assessment, our experts work with you in a hands-on, personalized capacity to enable your company to identify technologies that will provide maximum improvements and return on investment. Drawing from knowledge and experience with the many disciplines of Industry 4.0, The Center’s experts help manufacturers understand how technology could aid in their business growth and assist with implementation.

ENGAGE IN AN OPPORTUNITY ASSESSMENT

The Center’s two-hour Opportunity Assessment involves answering 40 quantitative and qualitative questions. Questions are related to the Voice of Business/Voice of Customer, Systems such as documented processes or standard work procedures, and Technology including any existing applications of automation in your facility. Drawing from data and information provided by your company, The Center assigns rankings to each response according to how strong your current practices are for each category, effectively highlighting the main opportunities for improvement.

TECHNOLOGY QUESTIONNAIRE					TECHNOLOGY OPPORTUNITY ASSESSMENT
	QUESTIONS	VOB / VOC	TECH	SYSTEM	
1	What is the company strategy for technology adoption?	10	5	5	
2	Are processes managed as value streams or through silos?	5	10	10	
3	How do you determine customer expectations?	1	5	5	
4	How is performance data collected?	5	5	10	
5	How involved are you in product design?	5	5	10	
6	What types of mapping/simulation is used in your management model?	5	5	10	
7	How is performance data tied to business results?	1	5	10	

ASSESSMENT SUMMARY REPORT

Based on the findings from the questionnaire and observations made during the assessment, we generate a summary report outlining opportunities for business improvement and increased efficiency.

POTENTIAL IMPACT									
METRIC	CURRENT STATE	FUTURE STATE	IMPROVEMENT	COGS LABOR	POTENTIAL SAVINGS	CASH CONVERSION	COST OF TECHNOLOGY	ROI	PAYBACK (Months)
Availability / Uptime	75%	85%	10%	\$ 975,880	\$ 97,588				
Maintenance / Repair	\$ 120,566	\$ 96,453	20%		\$ 24,113				
Scrap & Rework	\$ 91,746	\$ 73,397	20%		\$ 18,349				
Inventory Improvement	\$1,290,264	\$ 1,096,724	15%			\$ 193,540	\$ -		
					\$ 140,050	\$ 193,540	\$ 57,000	59%	4.88

PERSONALIZED IMPLEMENTATION PLAN

The Center is then able to create a unique and personalized plan for the implementation of technology within your facility. Identified opportunities are based on the needs of your business as well as greatest financial benefit to ensure an appropriate return on investment.

With expertise in project management, The Center can help establish an adoption strategy, scope the project, align suppliers with vetted resources and manage implementations to ensure business and customer needs are met.