The Future of Manufacturing: Transformational Technology & Your Workforce

written by Lauri Moon | November 7, 2019

Manufacturers are implementing new technologies such as artificial intelligence, advanced automation, and data analytics to transform their operations now and for the future. While these technologies drive increased operational efficiencies and overall productivity, they also impact the workforce by providing the opportunity for upskilling and helping to attract new talent.

This webinar will explore how advanced technologies are transforming the manufacturing industry and the workforce.

During this webinar, you will:

- Learn from the Manufacturers Alliance for Productivity and Innovation why manufacturers need to be building digital strategies for the future
- Gain insight from The Information Technology & Innovation Foundation on how technology is transforming the industry
- Understand how digital transformation is changing the future of work for the manufacturing workforce

Speakers

Stephen Gold, CEO and President, Manufacturers Alliance for Productivity and Innovation (MAPI)

Stephen Ezell, Vice President, Information Technology and Innovation Foundation (ITIF)

Kylene Zenk, Director of Manufacturing Practice, Kronos

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AI and the Revolution of Logistics, Mobility and Manufacturing

written by Lauri Moon | November 7, 2019

It's no secret that artificial intelligence and automation have been a hot topic within every sector of the supply ecosystem. In only a few years, rapidly advancing technologies have transformed virtually every aspect of warehouse and distribution center operations, disrupting long-held functions and practices. These innovations present previously unimaginable potential for the industry at large and the speed at which they continue to develop suggests this is only the beginning. Led by global industry experts, this conversation will explore the many ways today's latest trends in IIoT, AI and automation continue to revolutionize logistics, mobility and manufacturing.

Discussion will include:

- AI's impact on the supply workforce in the coming 5-10 years and future talent needs
- Automation's role in future mobility processes and the innovations poised to further disrupt the industry
- The business impact resulting from increased global spending and supply

chain demands of the e-commerce era
- The urbanization and population trends redefining delivery expectations

The 45-minute discussion will be followed by a 15-minute audience Q&A. Sign up today to reserve your seat and learn more about how automation is shaping the future of mobility.

Speakers

Akira Shiki, Senior Executive Vice President, Mitsubishi Heavy Industries America, Inc.

Akira Shiki is an industry leading executive in logistics machinery with over three decades of technical and managerial expertise. He currently serves in dual roles as Senior Vice President of Mitsubishi Heavy Industries, Ltd. (MHI) and Senior Executive Vice President of Mitsubishi Heavy Industries America, Inc. (MHIA). Mr. Shiki began his career in 1981 as a Forklift Design Engineer for Nissan Motor Company, Ltd. Following his time as General Manager of Engineering for Nissan Forklift Company, Ltd., he accepted his first overseas assignment as Vice President of Product Engineering, delivering a new internal combustion forklift to the U.S. market. From there, he quickly rose to General Manager of Industrial Machinery before being appointed CEO in 2010. Following the merger of Nissan Forklift and TCM, Mr. Shiki went on to become President & CEO of the newly formed UniCarriers Corporation, which sold to MHI in 2016. Since joining MHI, Mr. Shiki has applied his expertise in design, manufacturing, purchasing, and product development to lead MHI Group companies in the Industry & Infrastructure Domain and Shared Services Division.

John Sneddon, VP, Sales & Marketing, Mitsubishi Caterpillar Forklift America Inc.

John Sneddon serves as Vice President of Sales and Marketing at Mitsubishi Caterpillar Forklift America Inc. (MCFA). In this role, Mr. Sneddon is responsible for overseeing the company's North and South American machine sales and distribution services, strategic marketing efforts and direct-to-customer sales through national accounts and dealer development activities. In his previous roles, Mr. Sneddon was

responsible for leading MCFA's national and dealer sales strategies, and preceding that role he oversaw distribution development and financial performance. Prior to MCFA, Mr. Sneddon held various management and executive positions at Jungheinrich AG in Hamburg, Germany and Jungheinrich Lift Truck Corporation in Richmond, Virginia.

Robyn Boerstling, VP, Infrastructure, Innovation and Human Resources, National Association of Manufacturers

Robyn M. Boerstling serves as the vice president of infrastructure, innovation and human resources policy for the National Association of Manufacturers (NAM). In this role, Ms. Boerstling leads the policy and advocacy work on issues covering transportation, infrastructure, innovation and technology, health care, immigration and workforce. In addition, she works to ensure the manufacturing voice is brought to these legislative and regulatory issues before Congress and the administration. Prior to the NAM, Ms. Boerstling was a presidential appointee, serving as the counselor to the assistant secretary for transportation policy in the Office of the Secretary at the U.S. Department of Transportation. There, she worked in policy development and assisted with day-to-day management of the Office of Transportation Policy and held various positions during the tenure of Secretary Norman Mineta and Secretary Mary Peters.

Moderator

Travis Hessman, Content Director and Editor-in-Chief, IndustryWeek

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Improve Operational Efficiency with a Digital Factory

written by Lauri Moon | November 7, 2019

A universal truth about manufacturing is that production is in a constant state of change. Whether changes are incremental improvements or launching new products, they often cause significant problems for manufacturers.

In fact, over 42% of companies report experiencing cost overruns and overtime as a result of change.

In this webinar, we'll discuss why the ability to adapt quickly is critical for long-term business growth. Learn how to tackle your most pervasive change-related challenges with tools purpose-built for factory planning. Topics include:

- Planning and designing a more efficient factory
- Make better decisions during construction and installation
- Operate efficiently while managing change and risk

Speaker

Jim Byrne, Product Marketing Manager, Design & Manufacturing

Jim Byrne joined Autodesk in 2013. He is responsible for product marketing for Autodesk design and manufacturing software. Jim is dedicated to the success of our customers who use our technology to design, validate, and manage their intellectual property. He has over 20 years of experience demonstrating and implementing software solutions.

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Key Trends in Digital Manufacturing You Need to Know

written by Lauri Moon | November 7, 2019

Whatever industry you're in, it's impossible to avoid Industry 4.0 and the barrage of buzzwords that accompany it. Digital Twins, artificial intelligence (AI), machine learning, predictive maintenance, and cybersecurity – there are enough new tools and technologies coming onto the market to make a manufacturer's head spin. But whilst these technologies are new to many manufacturers, the market is moving quickly, and there are already plenty of leading industrial companies that are seeing the benefits of their digital transformation activities at sustained speed and scale.

GE Digital Director of Product Management, Joe Gerstl and GrayMatter Co-founder & Vice President of Manufacturing, Carson Drake will help you cut through the noise and discuss the key breakthroughs and trends in digital manufacturing. One of these notable trends is the shift of viewing manufacturers as technology companies.

By joining this webinar you'll learn how leading manufacturers have embraced technologies to:

- Move from silo'd systems to technologies that offer context
- Shift from analyzing the past to predicting the future
- Develop new competitive advantages by creating centers of innovation

Speakers

Joe Gerstl, Director of Product Management, GE Digital

Joe Gerstl is the Director of Product Management for GE Digital's Plant Applications MES software. He has worked in the software industry and in manufacturing for over 30 years spending time in various roles including engineering, sales and product management while working at leading companies such as Microsoft and now GE Digital.

Carson Drake, Co-founder & Vice President of Manufacturing, GrayMatter

Carson Drake is the Vice President of Manufacturing Industries for GrayMatter. A seasoned MES and Manufacturing Intelligence expert, Carson Drake has been combining automation best practices with emerging technology to solve complex business problems for over 25 years. After graduating with honors from Fairmont State University in West Virginia, Carson quickly gained valuable plant-floor knowledge in the manufacturing marketplace; working at Modicon with motion, PLC and HMI technology across the United States in assembly plants, packaging plants and in a variety of industries. Carson is tasked with handling our key manufacturing accounts directly as well as directing our overall manufacturing team.

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4IR from Buzzword to Reality: Smart Factory Adoption Rates – Best Practices and Leading Technologies

written by Lauri Moon | November 7, 2019

Companies are making progress in implementing new technologies, but scaling and linking investment to value remains a work in progress.

The Fourth Industrial Revolution – 4IR – has been met with both enthusiasm and fence-sitting. While sentiments and experiences have been mixed, most business leaders are now approaching 4IR with a sense of measured optimism. While they recognize the potential business value advanced manufacturing technologies can present—particularly cloud computing, advanced analytics, robotics, the industrial internet of things (IIoT), 3D printing, virtual and augmented reality—they are still deliberating how and where to invest and balancing the hype with their own level of preparedness. Meanwhile, they're also well aware of the significant changes 4IR will bring to a new manufacturing workforce—one that is increasingly becoming a hybrid of human and machine.

There is little doubt that 4IR adoption has hit the tipping point, despite the fact that today only around 20% of companies are implementing smart factory technologies at scale. Momentum is building, however, as evidenced by the fact that 73% of manufacturers are planning to increase their investment in smart factory technology over the next year and 70% citing adopting an IoT strategy as being moderately to extremely critical. IoT and robotics have made the most inroads, with 80% of

manufacturers planning to deploy sensors in operations over the next three years and 65% saying they've deployed applied robotics in their operations over the past three years.

About the 4IR survey

PwC and The Manufacturing Institute (the workforce and thought leadership arm of the National Association of Manufacturers), surveyed approximately 100 US-based manufacturers. Looking at the results, we see a definitive—and, indeed, inevitable—shift to 4IR as companies seek to integrate new technologies into their operations, supply chain and product portfolio. However, these companies acknowledge that scaling, justifying 4IR investments and dealing with uncertainty surrounding use cases and applications present a new set of challenges.

Join us to explore the survey findings and PwC's recommendations. Here's a sneak preview:

- While the sector as a whole is making assertive forays into 4IR, many manufacturers still inhabit the awareness and pilot phase. Nearly half of manufacturers surveyed reported that they are in the early stages of a smart factory transition (awareness, experimental and early adoption phases). The majority of those that have implemented smart factory use cases consider a quarter to be a success.
- Manufacturers expect the transition to accelerate in the coming years—73% are planning to increase their investment in smart factory technology over the next year.
- While we see a number of fence-sitters, the bulk of manufacturers are indeed prioritizing 4IR, the digital ecosystem and emerging technologies. 35% of survey respondents says they have deployed advanced analytics in their operations and 34% have deployed it in their supply chain.
- About 70% of manufacturers say the biggest impacts of robotics on the workforce in the next five years will be an increased need for talent to manage the robotics workplace and the opening of new jobs to engineer robotics and their operating systems.

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Reducing Complexity in the Age of Manufacturing Industrial 4.0

written by Lauri Moon | November 7, 2019

As a manufacturing organization grows and changes it becomes increasingly difficult to implement business process standards, support quality and consistency, and provide visibility to business leaders who have become removed from the day-to-day operations. Further, a collection of legacy, siloed, customized, out of date solutions leads to redundant, inaccurate data, extra work, and an inability to stay up-to-date on current versions. This scenario will keep your business from achieving its goals, as well as lock your business out from utilizing emerging technologies such as analytics, artificial intelligence, and the internet of things, which are essential for success in the modern manufacturing environment.

You are invited to a webinar on May 30th at 2:00 PM EST, featuring Infor's Director of Industry and Solution Strategy, Nick Castellina, and Mike Kalinowski, Infor OS Product Manager, to learn about how your business can reduce complexity and differentiate itself in Industry 4.0. During this event, you will learn:

- The biggest issues that manufacturers face as they grow
- Tips for connecting business leaders with relevant information

- Strategies for improving workforce productivity
- How to build a digital foundation for reducing complexity

Speakers

Nick Castellina, Director of Industry and Solution Strategy, Infor
Nick Castellina is Director of Industry and Solution strategy where he is responsible for marketing messaging and strategic direction in the discrete manufacturing industries. At Infor, Nick interacts with end users to understand their challenges and connects with product management and marketing to support Infor's commitment to delivering focused solutions featuring industry best practices. Prior to Infor, Nick was Vice President and Research Group Director of the Aberdeen Group's Business Planning and Execution research practice. There he worked with software vendors and end users to analyse trends and produce industry-leading content in topics related to Enterprise Resource Planning, Enterprise Performance Management, Project Portfolio Management, and Business Process Management.

Mike Kalinowski, OS Product Manager, Infor
As a member of Infor OS platform team and based out of Philadelphia, PA, Mike Kalinowski leads product management and strategy for the Infor Data Lake, Data Catalog, and Infor ION's suite of data transformation tools & utilities. Mike's role is in identifying and solving enterprise challenges across analytics, search, operational reporting, and predictive silos by driving Cloud-based technologies to address an ever-increasing need for data scalability, governance, and delivery. Previously, Mike spent several years with Preferred Sands leading the application integrations team in automating their rail and truck-based distribution networks.

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Next Gen Technologies Engaging Connected Manufacturing

written by Lauri Moon | November 7, 2019

In Industry 4.0 companies are embarking on the transformative journey. The desire to gain new business insights from data, the availability of affordable IoT infrastructure, move to the edge, AI and the advent of 5G are driving strong demand.

Hear from a panel of experts how manufacturers are transforming and how industrial solution builders can keep them ready for the era of new industrial revolution.

Topics of discussion will include:

- trends happening in a connected manufacturing world
- move to the edge, the role of IoT, AI, 5G and other emerging technologies
- ways to help your customers drive digital transformation
- the next generation OEM solutions that we modify, configure, test and optimize to fit your unique needs so that you and your customers can maintain a competitive "edge."

Speakers

Greg Moore, OEM Enterprise Technologist, Dell Technologies OEM & IoT Solutions

Greg Moore is the "OEM Enterprise Technologist" for the Dell Technologies OEM & IoT Solutions organisation in the EMEA Region. The Dell EMC OEM team is a

Global Engineering & Sales organization, setup to enable customers to integrate the extensive portfolio of Dell Technologies, into the Operational Platforms and Solutions they develop. OEM also provides services for global logistics, global support, product customisation & trade compliance, product rebranding and a specialised rugged portfolio.

Greg supports verticals such as Industrial Automation, Marine, IoT, Space, Surveillance, Transport, Health & Life Sciences and Energy, therefore offering the Defense Industry with insights & trends from across many markets. He has been in the IT industry for over 30 years, lives in Dublin Ireland, with his wife and two children.

Harry Forbes, Research Director, ARC Advisory Group

Harry Forbes is a Research Director with ARC Advisory Group based in Boston. Harry leads ARC's coverage of DCS and industrial networks. He contributes to ARC coverage of process automation and the Industrial Internet of Things (IIoT). Harry is also an expert in the electric power vertical industry. Harry has over 30 years of experience in process automation, electric power generation, energy management, modeling and simulation, advanced control, and optimization. He has written for many industry and trade magazines, as well as for many technical and industry conferences.

Prior to joining ARC Advisory Group Harry served in a variety of marketing, sales and engineering posts for Simsci-Esscor, Invensys, and Foxboro. He also worked as a performance and automation engineer in fossil and nuclear power generation at the Detroit Edison Company. Harry is a graduate of Tufts University with a BS in electrical engineering and has an MBA from the Ross School of Business at the University of Michigan.

Spencer Doyle, Vice President – Industrial Platform, Noodle AI

Spencer is a life-long client services practitioner. His guiding metric for success in business is his client's own success. A student of data and analytics for his entire career, Spencer spent fifteen years at MicroStrategy playing an active role in every directorate in the organization. Spencer developed a keen sense of how

organizations use data to empower executives to make informed business decisions. He parlayed his skills to develop, consult, and sell analytic software and services to clients across the Fortune 2000, becoming a multi-year top global performer and client development leader. Before joining Noodle.ai, Spencer worked as the Director of Sales for Platfora, a big-data software analytics company headquartered in Silicon Valley. Spencer graduated from Dartmouth College and trained extensively with the Royal Shakespeare Company in London before starting his career in technology. When he's not out-and-about with clients, friends, or family you'll find him playing golf anywhere he can find a course and time to play.

Multi-Plant Benchmarking: The Future of Improved Performance with IIoT

written by Lauri Moon | November 7, 2019

Manufacturers today are under intense pressure to accelerate innovation to maintain an edge in competitive global markets. But with limited visibility into operations and inconsistent data from disparate IT and OT systems that vary from

plant to plant, uncovering best practices and determining where to invest is difficult.

Manufacturers that are able to implement data driven decision making based on consistent, automated performance metrics will be able to confidently respond to changes in the fast-moving marketplace and outpace the competition.

Session Takeaways:

- Review key research findings from 2019 State of the Market report on plant benchmarking
- Learn how industrial IoT standardizes and normalizes KPIs enabling confident, data-driven decision-making
- Hear how manufacturers are seeing value with case studies and ROI analysis

Speakers

Justin Hester, Digital Transformation Director, PTC

Justin is a Digital Transformation Director atPTCwhere he is responsible for helping organizations realize value with their digital transformation journeys. Prior to joining PTC, he was a Manager at HIROTEC Corporation's Advanced Engineering Center, where he led a global team responsible for creating and executing HIROTEC's digital transformation for both their Tier 1 automotive production and automotive tooling groups. Justin has over 14 years of experience in bringing advanced and innovative manufacturing processes to marketplaces ranging from aerospace to automotive. Justin brings a unique view to IoT, from his experiences in both production facility leadership and large production tooling launches. Justin currently holds an M.B.A, a M.S. in Industrial and Systems Engineering, and a B.S. of Computer Engineering.

Brent Robertson, Partner, Fathom.net

Brent works with leaders to design futures worth fighting for. A partner at Fathom, he champions an approach to strategic planning, talent engagement, and market differentiation that prioritizes people and relationships. As a result, his clients don't

simply plan their futures, they bring them to life through the energy of organization-wide involvement in, and commitment to, generating valuable businesses that matter.

In addition to his client work, Brent is an outspoken advocate for the region, and serves as an advisor to community and business organizations who endeavor to create a better future for everyone who lives here. With a bias toward provoking new ways of seeing the world and taking action to change it, Brent is a sought after keynote speaker and is regularly featured in regional and national publications.

Brent has oriented his life around helping people create conditions for their success. He is frequently invited to lecture on the topic of leadership and the future, and uses his personal transformation experience—going from overweight and out of shape middle-ager to ultra-distance athlete in under three years—as a place from which to mentor others through personal and professional change.

Moving Manufacturing Beyond

Lean with Digitalization and IIoT

written by Lauri Moon | November 7, 2019

Many manufacturers have leaned out their processes so that the product physically flows efficiently down the line. But what about digitally? Can they look at all their data and glean insights from it? Do they digitally capture all the data they need to perform a thorough analysis to go beyond lean? According to Gartner, the answer is no. They estimate that 70% of all the shop floor data goes unused and much of the problem is that it's not directly usable in the paper form that it's in or it's trapped in the machines on the shop floor.

AutomaTech Technical Director, Matt Bernhard and GE Digital Senior Product Manager, Joe Gerstl will discuss how manufacturers can surpass the performance plateaus of lean manufacturing, by leveraging IIoT technologies such as Manufacturing Execution Systems.

By joining this webinar you'll learn how leading manufacturers such as Toray Plastics, Nestle, and GE Aviation have embraced these powerful tools to:

- Deliver insights to the right people at the right time
- Adapt to meet your customer demands
- Drive short term and long term decisions around equipment, people, suppliers, and more

Speakers

Matt Bernhard, Technical Director, AutomaTech

AutomaTech Technical Director Matt Bernhard has helped leading Manufacturing & Industrial companies identify and overcome their toughest challenges for over a decade, specializing in Process Automation, Data Collection, Digitization & IIoT, and Continuous Improvement. Matt leads the AutomaTech Solution Architect team, an outcome-focused group of experienced professionals, directing the technical content development of workshops, conferences, training sessions, and more. Matt and the AutomaTech Solution Architects take a hands-on problem solving approach in identifying customer business requirements and applying appropriate technology

solutions to deliver tangible business results. Matt is a Penn State University graduate with a Bachelor of Science in Electrical Engineering.

Joe Gerstl, Sr. Product Manager, GE Digital

Joe Gerstl is the Sr. Product Manager for GE Digital's Plant Applications MES software. He has worked in the software industry and in manufacturing for over 30 years spending time in various roles including engineering, sales and product management while working at leading companies such as Microsoft and now GE Digital.

Industry 4.0 – Believe the Hype

written by Lauri Moon | November 7, 2019

In 2018, OSHA reported 5,147 work-related deaths in the United States. In 2017, a study by Zappix, Inc., indicated slow customer service as the contributing factor in a $75B revenue loss. Energy.gov states that 30% of energy used in average commercial buildings is wasted.

These seemingly disparate data points have one thing in common: all are among the most common industry-wide business problems organizations seek to solve. Expertise and technology are available today to help companies move forward. The

digital era is here. But where to begin?

In this webinar, you will hear about Hitachi and Oracle's joint approach to the Internet of Things (IoT) – asset monitoring, production monitoring, connected worker and optimized factory. Hear how to identify a use case, which is the cornerstone of any successful IoT initiative, learn the questions to ask about capturing data, see examples of customer successes, watch a solution demo and share in a Q&A with our panel of experts.

Every company is impacted by the digital age. In the past 15 years, 52% of Fortune 500 companies have disappeared from the list. And it is estimated that 40% of all business will fail in the next 10 years due to digital disruption. Let's talk about how you begin or proceed along your path to solving business problems with IoT.

Speakers

Ellen Dowd, Keynote Speaker, Senior Vice President, Solutions – Hitachi Social Innovation Business Unit

Ellen Dowd is the Senior Vice President of Solutions for Hitachi's Social Innovation Business. Whether focused on global sustainability issues around water and energy management or urban mobility challenges facing the world's most dense populations, Ellen's focus remains on sustaining Hitachi's culture of innovation and commitment to making the world a better place—all while breaking into new digital markets. Ellen has 20+ years of experience in consulting, primarily focused on helping clients drive results and change their business models through the adoption of innovative technologies. Ellen has advised C-level executives at more than 40 companies on the Global 2000 and has a track record of defining and executing successful strategies for using emerging technologies to deliver meaningful business outcomes. She has been recognized by the industry in a number of ways, including being named one of Dallas' Top 25 Women in Technology by the Dallas Business Journal, and the Best Woman Sales Director in the US by WISA. Through these recognitions—as well as through numerous speaking engagements throughout her career—Ellen has established herself as a passionate and successful business leader in the technology field.

Jai Suri, Thought Leadership Speaker, Senior Director, Product Management, IoT Cloud – Oracle

Jai is Senior Director of Product Management, responsible for product strategy and technical roadmap of the Internet of Things (IoT) Cloud offerings from Oracle. Jai leads definition of vision and product strategy for IoT at Oracle leveraging cloud and predictive analytics solutions with the goal of making IoT easy for achieving business outcomes. He is a digital transformation strategy expert with a focus on application of emerging technologies (IoT, Data Analytics, Machine Learning, Mobile) to modernize enterprise application environments such as ERP, Supply chain and CX. He has over 18 years of experience in various roles including product management, engineering management, technology leadership and software development for enterprise markets. In 2016, Business Insider recognized Jai as one of 26 rock-star engineers changing the company. Jai holds a Master of Software Management degree from Carnegie Mellon University and a Bachelor of Engineering degree in Instrumentation and Process Control from University of Pune.

Viktor Sahakian, Thought Leadership Speaker, Vice President, Oracle Technology – Hitachi Consulting

Viktor Sahakian leads Hitachi Consulting's Oracle technology practice and has over 25 years of consulting experience with applications development, implementations and systems architecture. He has directed and provided project management and technical leadership on multiple global implementations and transformational projects. He has in-depth knowledge of Oracle E-Business Suite and Oracle database architecture, installation and configuration. His current focus areas are cloud based SaaS, PaaS and IaaS transformations.

Gloria Kunik, Host & Moderator, Leader, Americas Alliances & Channels

Gloria is Leader of the Americas Oracle Alliance for Hitachi Consulting. In this role, she has responsibility to expand and enhance the Hitachi/Oracle partnership by positioning new solutions and strategic go-to-market synergies, including those for IoT and other emerging technologies. Her 20-year background with the Oracle ecosystem includes delivery leadership, delivery and business consulting, sales and

sales enablement and alliances. Prior to joining Hitachi, Gloria held several positions in the Oracle technology consulting industry, including implementation consulting, delivery leadership, solution leadership, industry expertise and sales.

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