

NEW Manufacturing Alliance
INDUSTRY 4.0 TASK FORCE MEETING MINUTES
Wisconsin Lift Truck – De Pere, WI
Thursday, September 26, 2019 – 8:30 AM

ATTENDEES: Jeff Blackman-Oshkosh Corp., Mike Bonk-Outsource Recruiters, Tina Chang-SysLogic, Carson Diltz-Amazon Web Services, Mike Hopkins-Brooks Stevens, Josh Krueger-Wells Fargo, Brian Lakari-Carnivore Meat Co., Barb LaMue-New North, Stewart Larsen-Camera Corner Connecting Point, Bill Lee-Marquette Univ., Chris Lipski-Vantage Financial, Pam Mazur-NWTC, Todd McLees-Pendio Group, Kirk Muenzenberger-ADP, Greg Opperman-Excelion Partners, Jignesh Patel-Data Chat, Jason Roland-Jacobs, Rob Sanders-SysLogic, Dennis Somers-WI Lift Truck Corp., Jill Thiede-PCMC, Anne Troka-Sargento (*via phone*), Kim VanWychen-Georgia-Pacific, Ann Franz-NEWMA, Debbie Thompson-NWTC

INDUSTRY 4.0 TASK FORCE LEADS

Jeff Blackman with Oshkosh Corp. will chair the Industry 4.0 Task Force, while Jill Thiede with PCMC will serve as co-chair.

CREATING INDUSTRY 4.0 ECOSYSTEMS – TODD MCLEES

Pendio Group builds and connects exponential business ecosystems. They help companies enhance their growth by identifying high performing solution providers and prioritize gaps. The concept of an ecosystem is to find stakeholder groups. 60 to 80% of digital transformations fail. In an ecosystem approach, innovation comes from a variety of sources. Many companies don't have an innovation team, leaving them at risk. There are advantages to forming communities of companies that work together on initiatives that involve creating process. Ecosystems would include manufacturers, OEMs, suppliers, solution providers, technology companies, early stage companies and higher education.

6 D's of Digital Disruption

- Digitized, Deceptive, Disruptive, Demonetized, Dematerialized, Democratized

NEWMA Pilot Initiative Ideas

- Talent Sourcing – Veterans
- Advanced Data Analytics
- Improving Operations via Industry 4.0
- IoT: New Product Design
- Safety
- Cybersecurity

DATA ANALYTICS MATURITY LEVELS

1. **Intuition** – Disparate Data – Processes are unpredictable, poorly controlled and reactive.
2. **Data-Aware** – Stored, Organized Data – Processes are characterized for individual projects and are often reactive.
3. **Data-Driven** – Governance – Metrics – Testing – Processes are characterized for the organization and are proactive.
4. **Automation** – Analytical Computation – Predictive Analytics – Prescriptive Analytics – Processes are clearly articulated, consistent throughout the organization, and quantitatively measured. Processes are viewed as repeatable & scalable.
5. **Artificial Intelligence** – Machine Learning – Organization is focused on optimizing processes through continuous improvement initiatives.

Advanced Data Analytics

- Increase productivity metrics and create efficiencies in production and delivery systems. Determine how you organize your data. Understanding the information can help identify the info you don't have.
- Leverage Artificial Intelligence.
- Finalize and democratize the KPIs every manufacturer should consider.

- Host workshops and scope development.
- Curation of communities – How do you qualify manufacturers? Find innovators and early adopters. Have only high performing solution providers.
- Create rapid prototyping processes.
- Validated capability scaling.

Minimum Viable Transformation – Objectives & Value Realization	Stakeholder Groups
<ul style="list-style-type: none"> • Business Outcomes Community • Rapid Prototyping • Visualized Capability Storing • Transformation Planning • Blueprint Operating Model • Implementation 	<ul style="list-style-type: none"> • Strategic Manufacturers (OEMs) • Manufacturing Component Suppliers • Solutions Providers • Technology Companies • Early State Companies • Institutions of High Education

Goal: Build an ecosystems approach within NEWMA regarding innovation and data analytics. Measure NEWMA manufacturers using a baseline assessment. Invite companies to participate in the ADP assessment, a \$6500 value being offered to NEWMA for free. The benchmarking survey will launch the program in January 2020. After the ADP assessment, group companies and establish the communities. Source veterans for the veterans hiring program.

NEXT STEPS

- ✓ Send Todd McLees (copy Ann) with any questions.
- ✓ Kim VanWychen suggested an informational sheet be created that members can share with their organization. Layout the steps for small and large organizations. This will aid in getting the company onboard with the Industry 4.0 initiatives.
- ✓ Identify where companies are per the survey instrument. Need to understand how to group companies per any of the initiatives.
- ✓ Todd will develop a one-page sheet that explains the opportunities that companies can share with their leadership.
- ✓ Group manufacturers as far as level; 1, 2 etc. – priority matching. Match for qualities they have and as a starting point. Need a willingness to collaborate.
- ✓ Unite them in communities for a curated workshop series, smaller groups that work together.
- ✓ At the end of the workshops, establish metrics that will be worked on. Build prototypes of the dashboard. Review what it would take to acquire the data within the business.
- ✓ Develop a 90-day project for a quick learning experience. Are all of the KPI’s working in your organization?
- ✓ Establish and share best practices. The final outcome will be different for each of the participating companies.
- ✓ Todd McLees and Kirk Muenzenberger (ADP) will present at NEWMA’s December full membership meeting.

Veteran Hiring Program - Solution Ecosystem Partners: ADP, BizTimes, CLA, DataChat, Digital Talent Attraction Strategy, indeed, LIFT digital, MISSION BBQ, needs, Outsource Recruiters, Veteran Upskilling, WHRGroup

Mike Bonk shared that tomorrow kicks-off the **Invest in Vets** hiring program. This program sources and identifies candidates and was developed to get more veterans in the door at businesses, as companies are competing for candidates. Other organizations interested in working with the veteran population are: Wisconsin Veterans Chamber of Commerce, WEDC and BizTimes.

New North offers free videos on their website for employers to use that promote the region. Their marketing team is in the process of updating the videos and welcome members’ feedback.

ROCKWELL AUTOMATION EXPO – NOVEMBER 20 & 21

The [Rockwell Automation Fair](#) will be held in Chicago on November 20 & 21. This huge automation conference gives attendees the opportunity to sign-up for hands-on labs. Jill Thiede will be serving as a panelist. Busing is available. Ann will share information as it becomes available.

REVIEW CAREER PATHWAYS IN PROCESS ENGINEERING & DATA ANALYTICS

At the October 29 ACP (Academic & Career Planning) meeting, career pathways will be discussed. Attendees reviewed the job titles, indicating those they would like to showcase to the schools.

UPCOMING EVENTS

- 10/29 ACP Meeting
- 10/29 Excellence in Manufacturing/K-12 Partnerships Awards
- 10/30 Manufacturing First Conference
- 10/30 Manufacturing First – Career Exploration for High School Students
- 11/14 Internship Draft Day

NEXT MEETING DATE/TIME/LOCATION

The next Industry 4.0 meeting will be on Tuesday, November 12 at Oshkosh Corporation, 8:30 to 10:30 a.m.