



WHIN-EDUCATION & SUPPLY CHAIN NEWS

..... DECEMBER 2018

in this edition:

MAIN ISSUES FOR
LOCAL MANUFACTURERS

MANUFACTURING
COMPETENCIES:
HOW ARE YOU DOING?

IN-
COMPANY
PROJECT &
SUCCESS

ADVANCING & BUILDING CONFIDENCE
'BIT-BY-BIT'

WHIN SUPPLY-CHAIN OPTIMIZATION

WEB-SCRAPING?!? WHAT USE IS THAT
TO ME?!?

WHIN EDUCATION AIMS

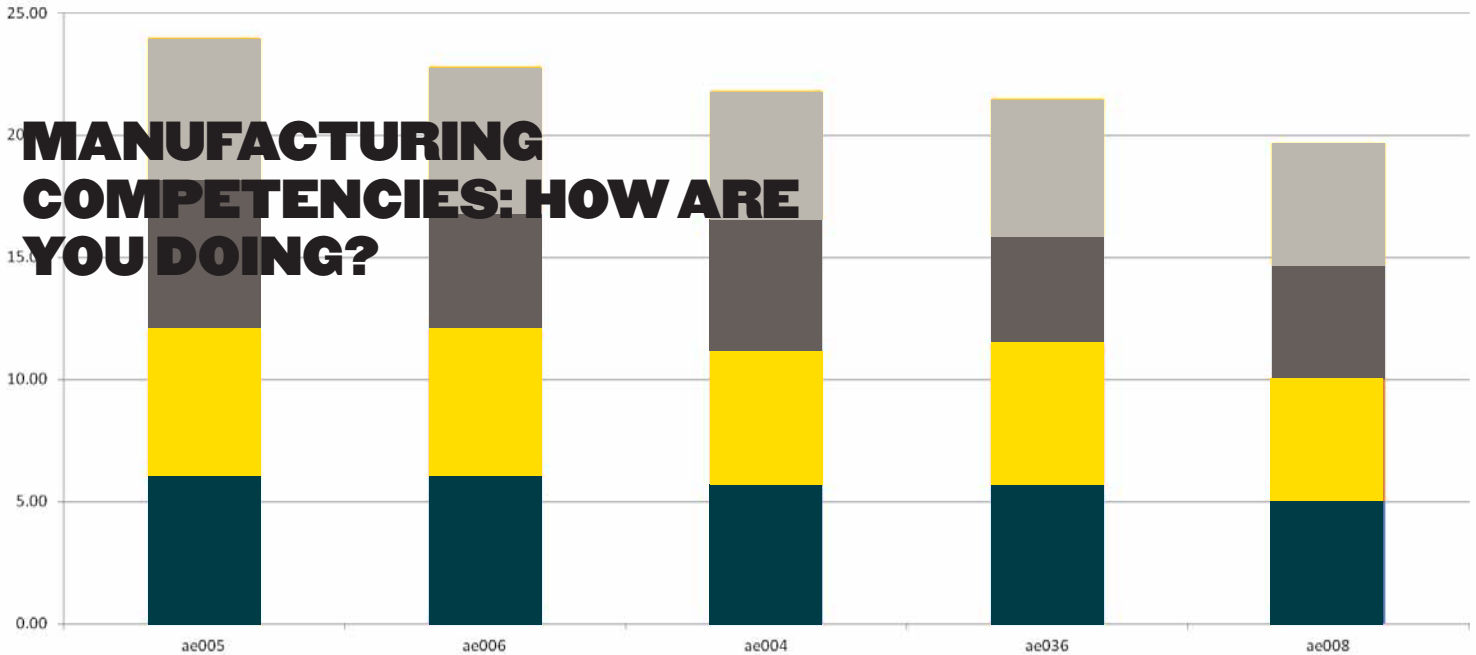
To leverage the productivity of manufacturing in the ten-County region. WHIN Education surveyed, listened and is in continuous development, and testing, of interventions to stimulate positive results in companies. Many of you want to attract and retain appropriate staff with the right character and skill-sets to quickly become useful. With staff attrition within the first 90 days often at the 80-90% loss level, there is great scope for reducing this burden. Among other staff, turn-over is often at 40% per

year and above. Interventions to improve are needed. Companies report that it is hard to engage on technological innovation when they do not have enough staff to fulfil existing orders. In those companies that are resourced for technological advance, WHIN Education is promoting the use of advanced technology including sensors, robotics, 3-D printing, virtual reality, nanotechnology, as well as the implementation of smart processes: NextGen, 6-Sigma, and 5s principles included.

ENGAGING WITH YOU

In the ten County area (Benton, Carroll, Cass, Clinton, Fountain, Montgomery, Pulaski, Tippecanoe, Warren and White) WHIN-Ed has engaged in dialogue with 139 manufacturers with 94 of those being outside Tippecanoe County. Below are some of the other ways that we are already supporting companies. Watch this space for further support initiatives as they launch!

- **REGIONAL CORPORATE DEVELOPMENT GROUPS (CO-LEARNING)**
- **TECHNOLOGY ENGAGEMENT CENTER**
- **DCMME SPRING SUPPLY-CHAIN CONFERENCE FEBRUARY 15TH**
- **BI-MONTHLY NEWSLETTER**
- **VALUE STREAM MAPPING FREE WORKSHOPS**
- **PROBLEM SOLVING FREE WORKSHOPS**

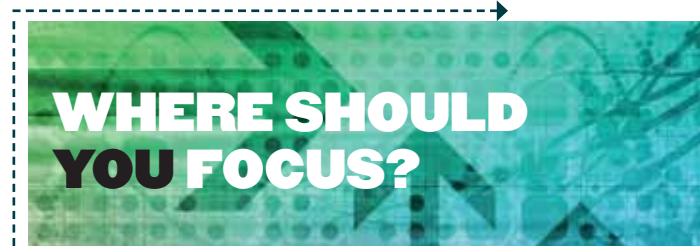


The figure shows the four areas that make up the best-of-the-best. The top potential score of 24 (left column is perfect)!

Areas include:

- Shop-floor skills (blue)
- Shop-floor systemization (yellow)
- NextGen awareness & application (dark grey)
- Leadership Agility (light grey)

To be our best, we have to upskill in all four areas.



ADVANCING & BUILDING CONFIDENCE 'BIT-BY-BIT'

The DCMME (free) Conference at Purdue University in late September had some key messages. One of these, repeated by several speakers, is the fact that technology is being applied successfully in many local companies, but 'bit-by-bit'. Some decisions for innovations, including data-analyses, machine-learning and IoT are a stretch

for smaller companies to make. What works, in real manufacturing businesses, is not to put off progress, but to start with smaller technology projects, succeed and then move on from there. Confidence breeds more confidence for innovation. It makes sense. Where should you start? **CALL US!**



*WHIN Team:
(left to right)
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Dunlop, Dr. Ananth
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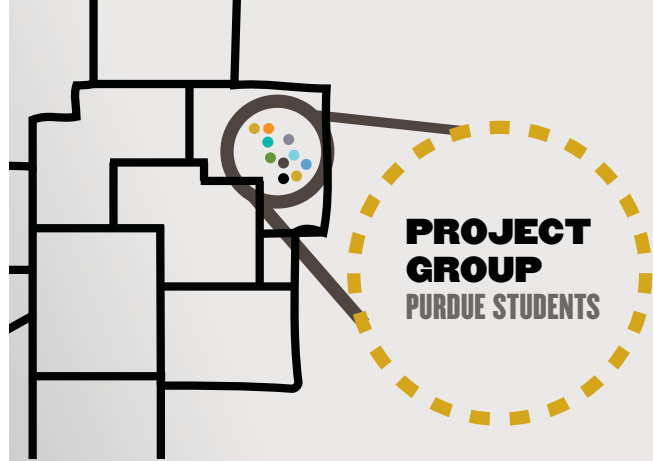
IN-COMPANY PROJECTS & SUCCESS

We have been seeing large gains in efficiency resulting from in-company and Purdue-supported projects with our team. Examples include over 30% production-line improvement (scheduling PU project) and

in-company Value Stream Mapping projects stimulated by our WHIN-Education free workshops, running since July. We are stimulating engagement for in-company projects—watch THIS space!

WEB SCRAPING?!? WHAT USE IS THAT TO ME?!?

With 85% of OEM purchasing going outside the State of Indiana, anything we can do together, to improve vertical movement of goods and services will impact on business success. Web-scraping is our start point and has identified 347 WHIN manufacturers and their details. We aim to create a web-based, interactive site where you can identify goods and services that you supply, so local OEMs and others can buy from you. Additionally, when you enter consumables that you want to buy at lower cost, we aim to feature these, so groups of companies can bid as a group with purchasing power, reducing costs; it should be a WHIN-WIN!



WHIN SUPPLY CHAIN OPTIMIZATION

WHIN Education is modeling WHIN supply-chain characteristics in order, down-the-line, to improve efficiency and revenue building. One initiative to support these aims is a 'web-scraping' project—see below!



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EFFICIENCY RESULTING
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AND PURDUE-
SUPPORTED PROJECTS
WITH OUR TEAM.**

WHIN
WHIN





**TAKE A VIRTUAL TOUR
OF THE SMART LEAN
ENGAGEMENT CENTER AT
[DCMME.ORG](https://dcmme.org)**

ENTRY LEVEL SMART TECHNOLOGY FOR YOU?

Come and see how technology transforms manufacturing and stimulate new ideas for your business. See how 3D printing, wearables, drones and augmented reality is applied as cheap, entry level Smart technologies in real, small business applications.

Contact for appointments: dcmme@purdue.edu
The 'Engagement Center' is located in Krannert School at Purdue.

PURDUE
UNIVERSITY.

Krannert School of Management
DAUCH CENTER FOR THE MANAGEMENT
OF MANUFACTURING ENTERPRISES



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