



National Center for Supply Chain Automation

RESOURCES FOR EDUCATION & INDUSTRY

SCA

**Next Generation Workforce Certification:
Innovative Tools for Educating and
Upskilling Supply Chain Automation
Technicians**

This Center is sponsored by the National Science Foundation's Advanced Technological Education Program under Award No. 1601452. Any opinions, findings, conclusions or recommendations presented are only those of the presenter grantee/researcher, author or agency employee and do not necessarily reflect the views of the National Science Foundation.

Presenters

Steve Harington

Industry Liaison

National Center for Supply Chain Automation (SCA)



Neil Reddy

CEO

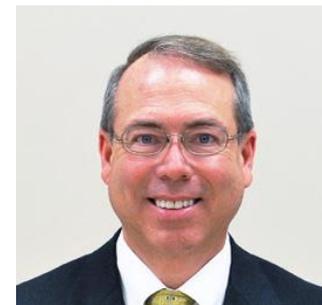
Manufacturing Skills Standards Council (MSSC)



Paul Perkins

President

Amatrol



Presentation Overview

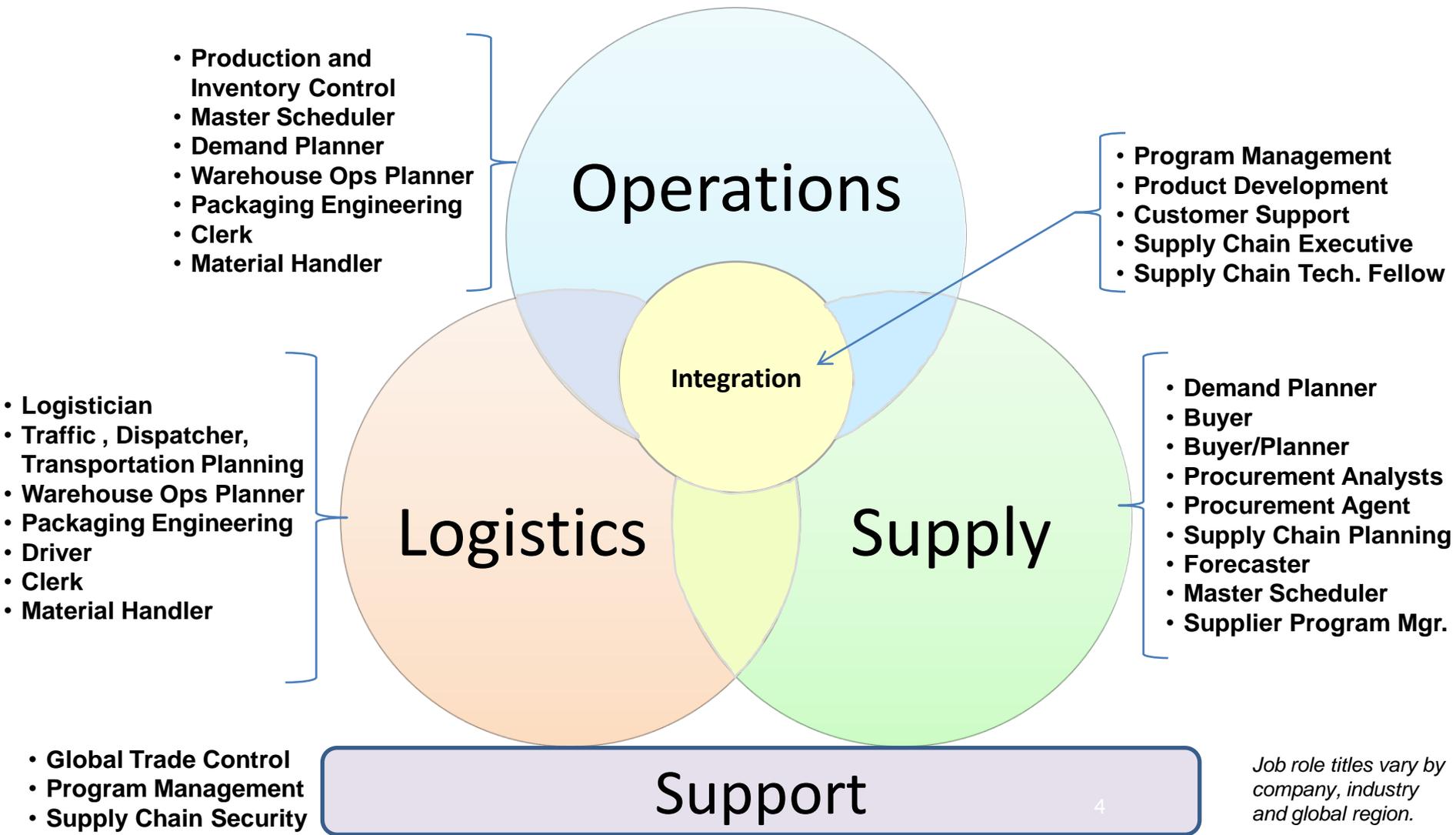
- ▶ SCA: Intro, History, Context
- ▶ MSSC: CT-SCA Overview
- ▶ Amatrol: Skill Boss Logistics
- ▶ Q&A & Timing
- ▶ Post Webinar





Supply Chain Management

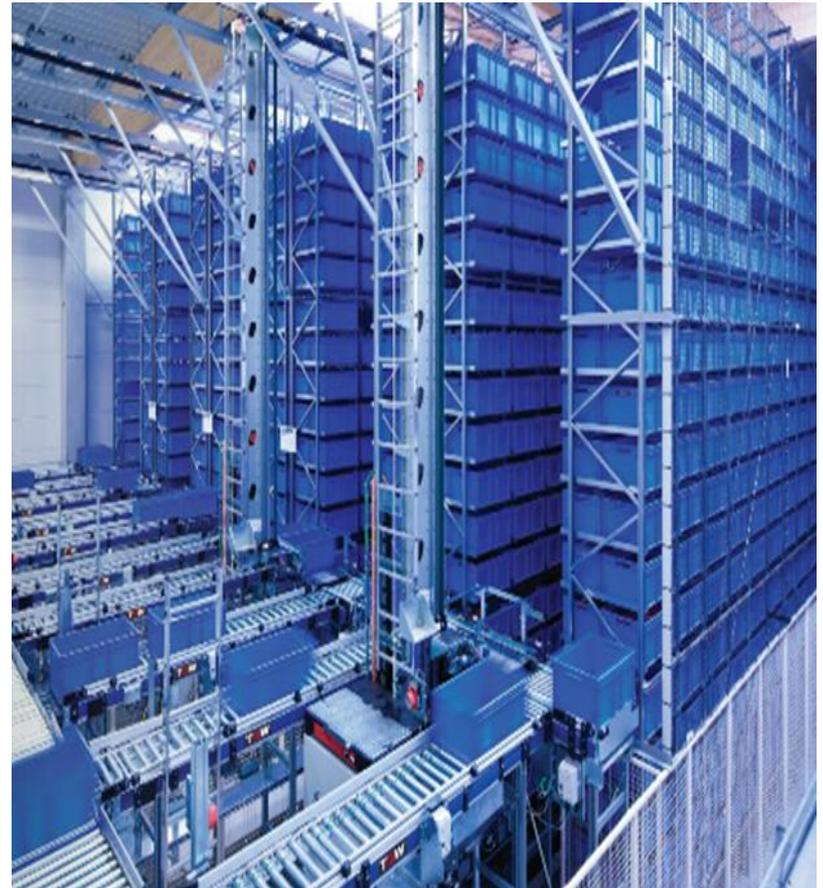
Connecting people to products and services across town and around the globe.



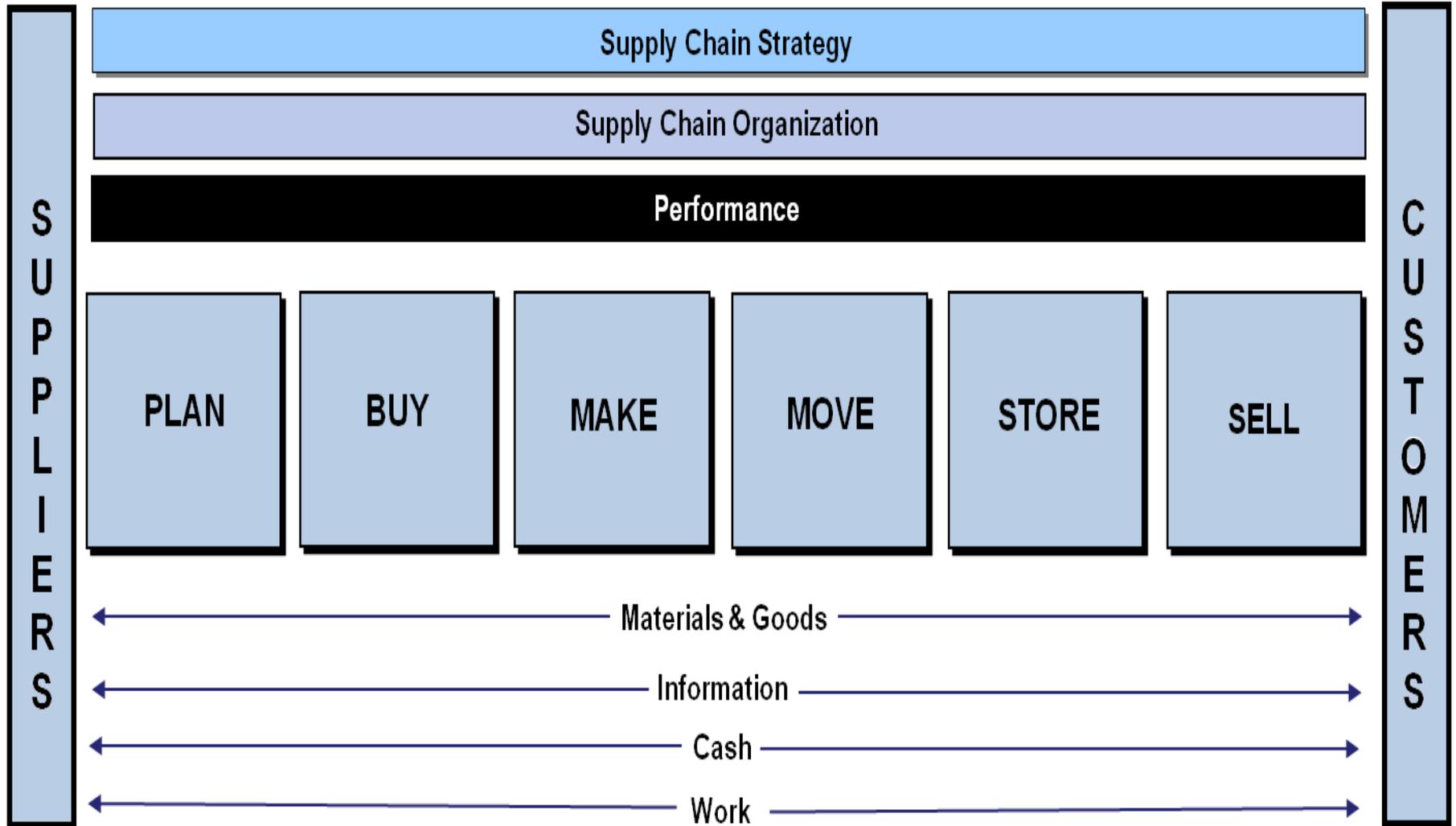
Job role titles vary by company, industry and global region.

SCA

- ▶ F & E: Supply Chain (Automation) Technicians
- ▶ NSF Funded– STEM
- ▶ Partner Schools Nationally
- ▶ Develop Resources– No Cost
- ▶ Industry Guided & Driven
- ▶ No Student Education



The Tompkins Supply Chain Model



Original Partner Colleges



Norco Community College

2001 Third Street
Norco, CA 92860
951.739.7880



Tacoma Community College

6501 South 19th Street
Tacoma, WA 98466
253.566.5253



Sinclair Community College

444 West Third Street
Dayton, OH 45402-1460
937.512.2759



Oakton Community College

1600 East Golf Road
Des Plaines, IL 60016
847.635.1975



Jefferson Community & Technical College

1000 Community College Drive
Louisville, KY 40272
502.213.7280

Initial Advisory Team Members



MISSION & OBJECTIVES

The goal of the National Center for Supply Chain Automation is to **increase the supply of highly qualified supply chain automation technicians** to meet the growing national need across the private and public supply chains

1

Implement model 2+2 supply chain automation career pathways through high school and community college partnerships nationally to meet the need for educated technicians.

2

Convene supply chain automation stakeholders via a National Symposium event to enhance collaboration and deliver professional development.

3

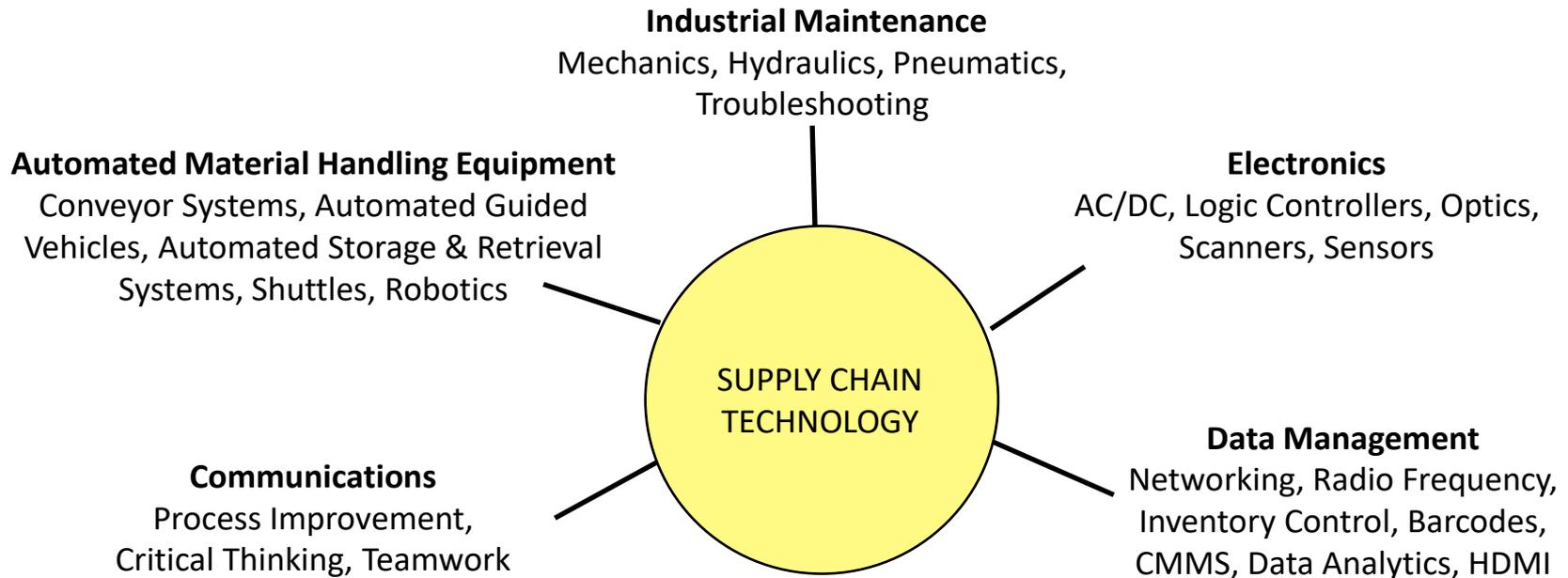
Disseminate information and product deliverables to audiences that include secondary and post-secondary educators, industry and current and potential Supply Chain Technicians.

4

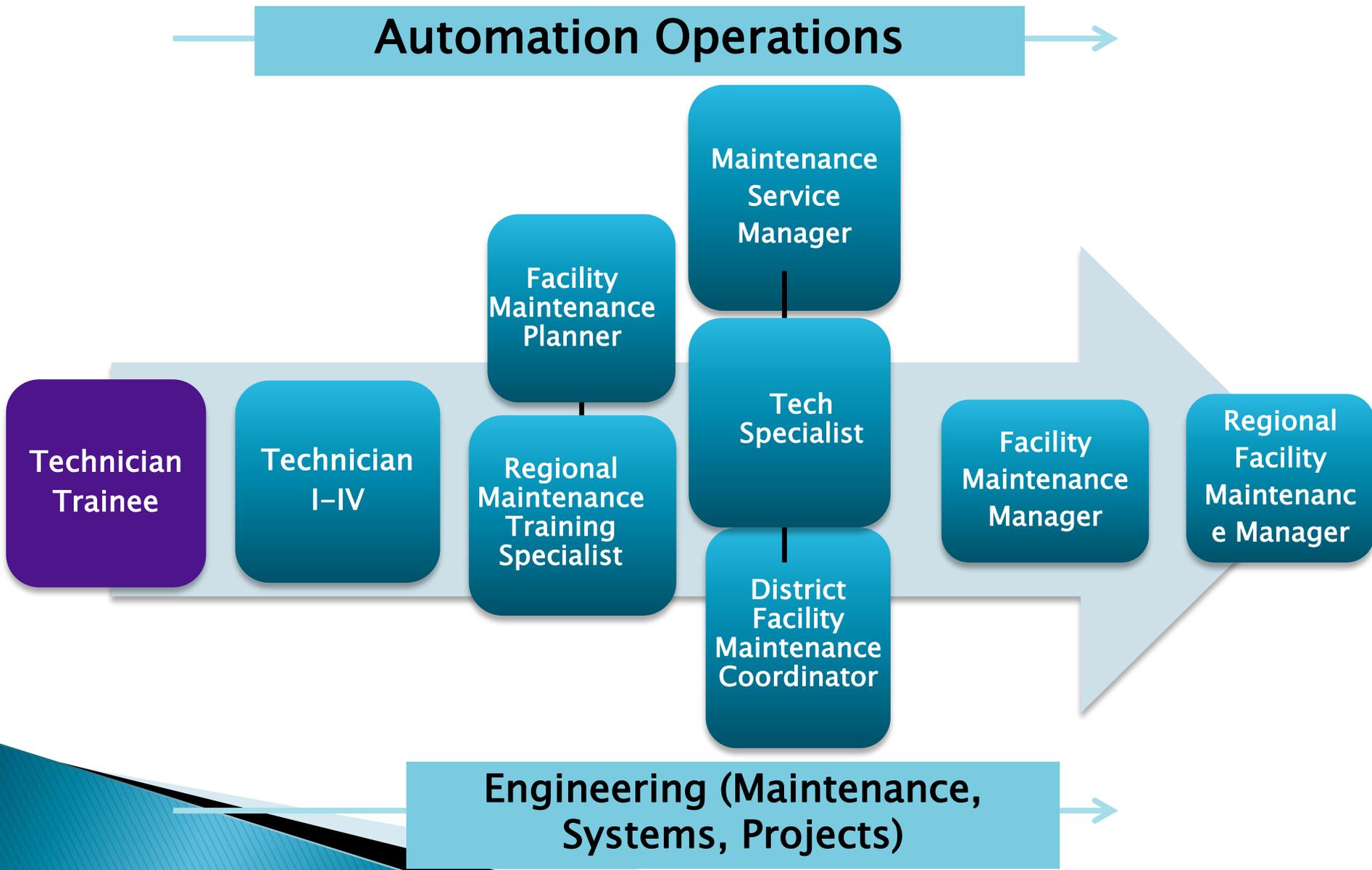
Establish and promote stackable national industry certifications in Supply Chain Automation, which are validated and recognized by industry.

INDUSTRY OCCUPATIONAL DEFINITION OF SUPPLY CHAIN, AUTOMATION OR MULTI-CRAFT TECHNICIAN

A person who installs, maintains, supports, operates or upgrades the automated material handling equipment and systems which support the supply chain.

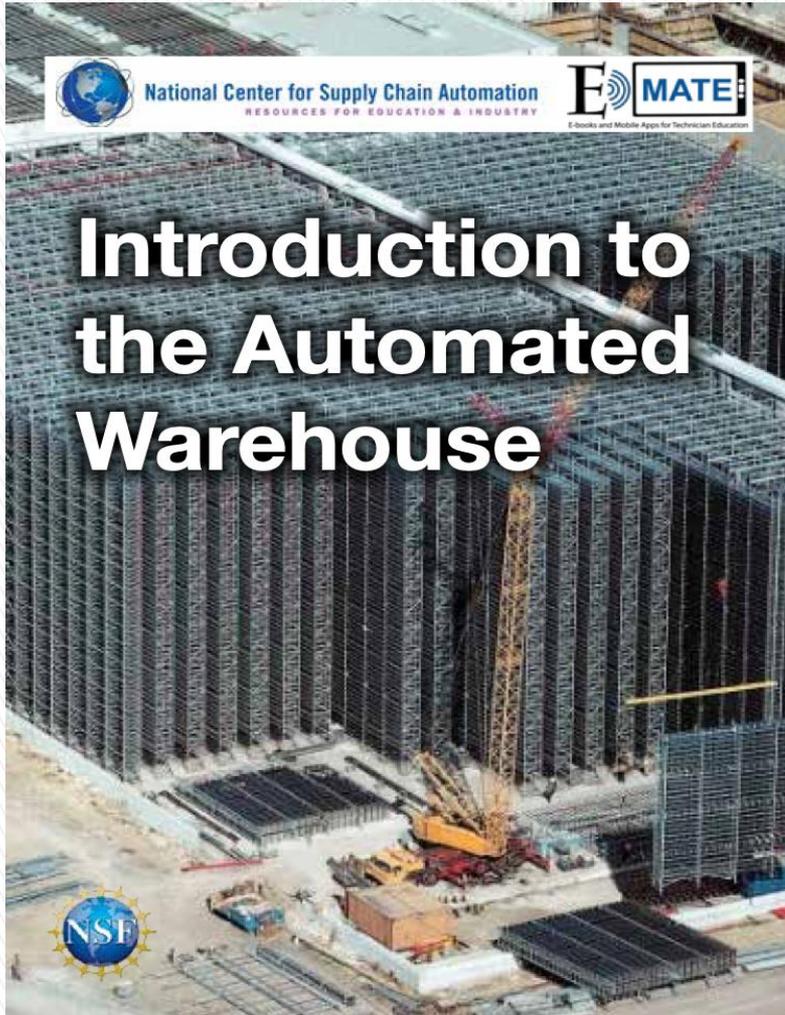


Organic Career Growth Opportunities



Available in iBook and PDF

Download PDF by Chapter



Survey Course– HS or CC

Career Awareness Resource

Interactive Widgets

- Puzzles
- Games
- Videos

Instructor's Manual

- Sample syllabi
- Textbook solutions
- Laboratory exercises

<https://supplychainautomation.com/resources/etextbook/>

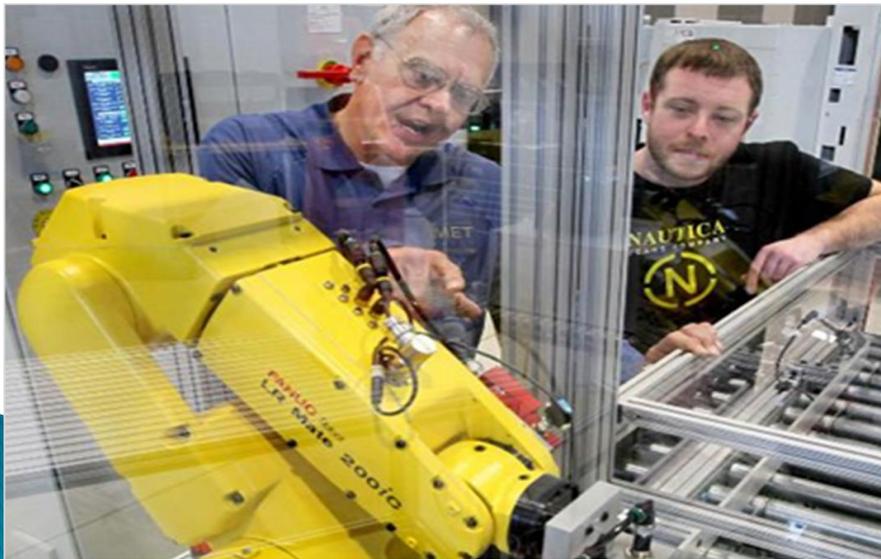


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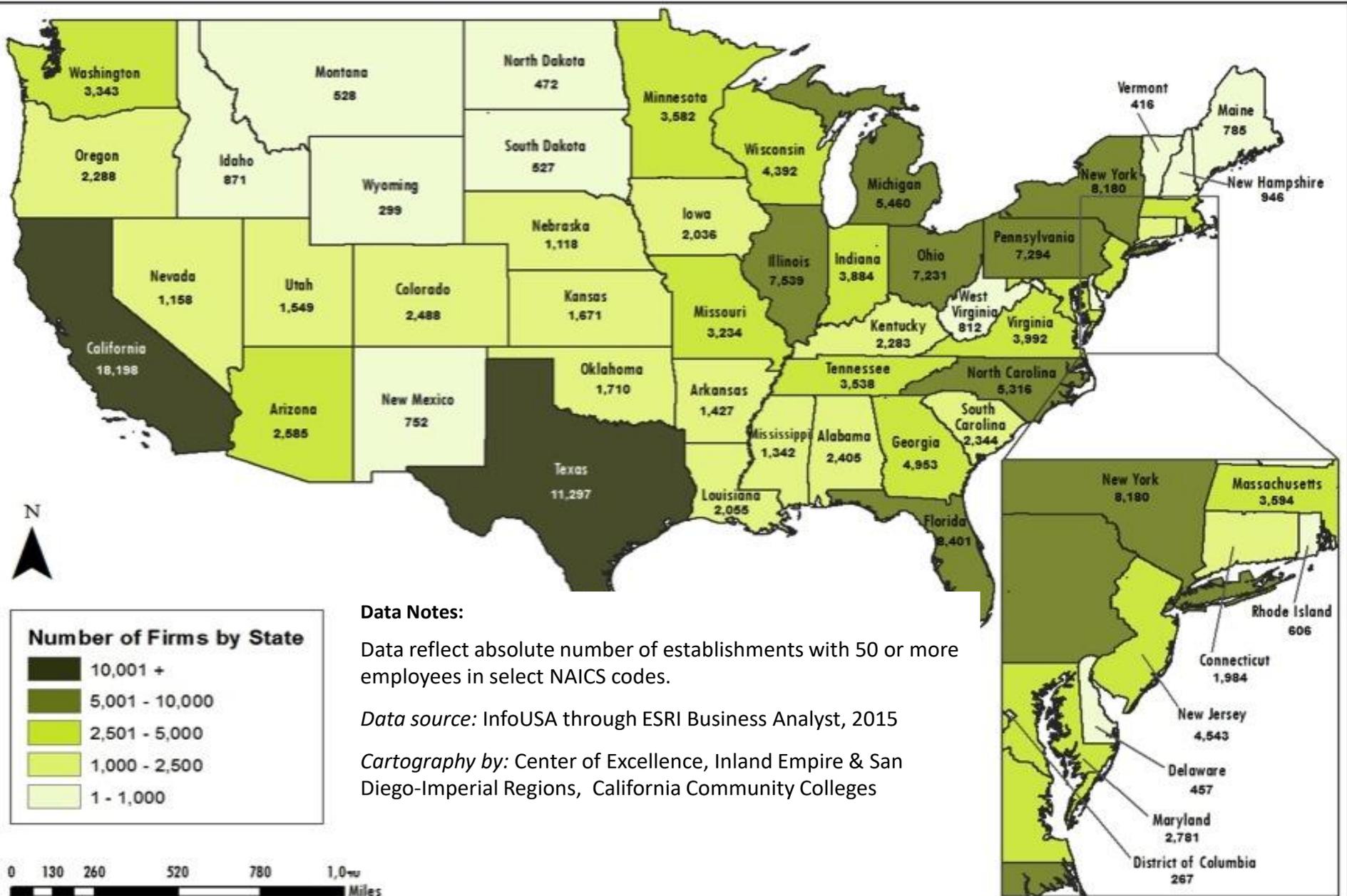
Educational Collaboration

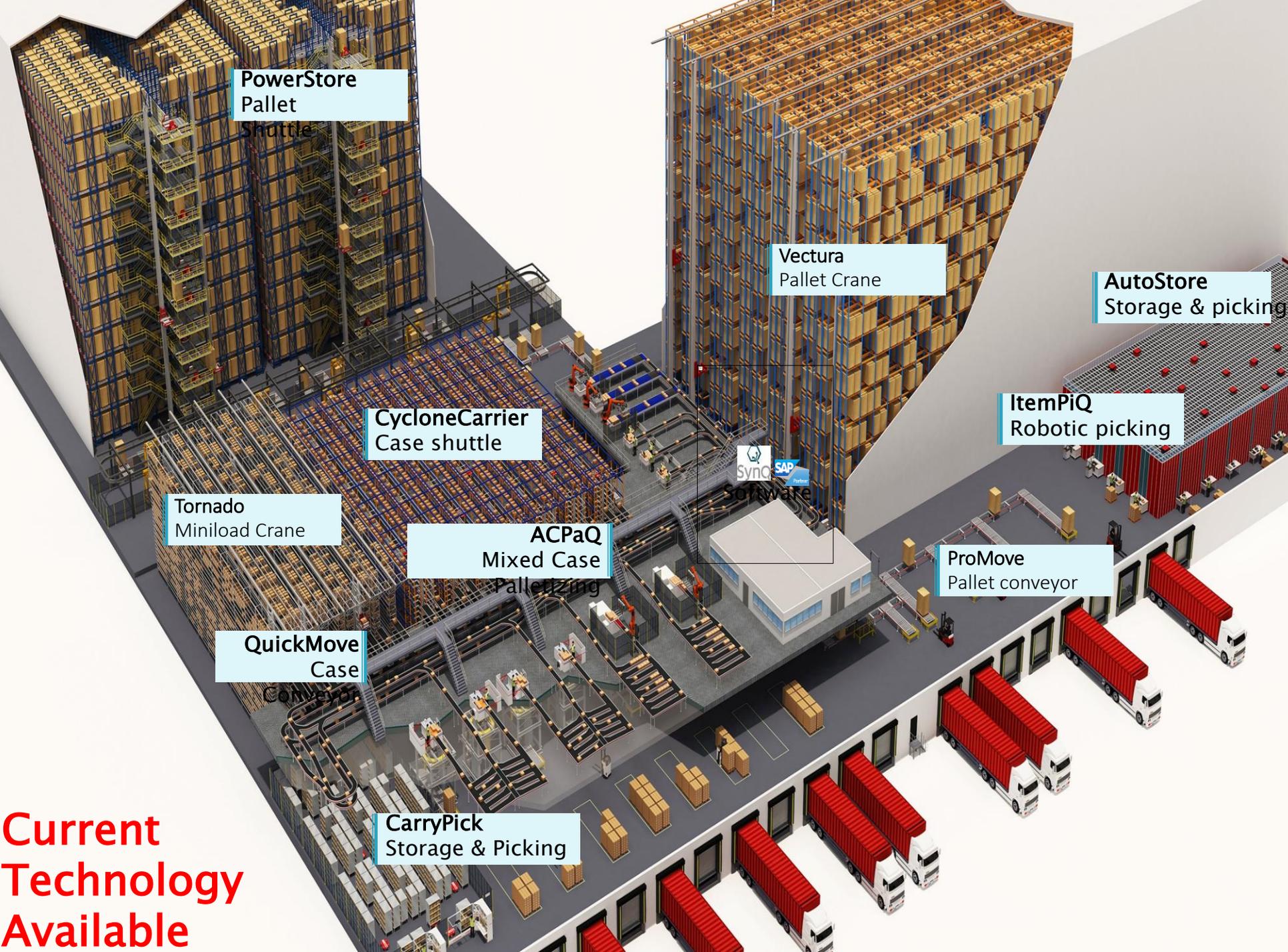
- ▶ Industrial Technologies
- ▶ Technician Education
- ▶ Training Labs a Must
- ▶ Champions, No RIP
- ▶ Find a College:

<https://supplychainautomation.com/resources/find-a-college/>



Supply chain-related firms across US





PowerStore
Pallet Shuttle

Vectura
Pallet Crane

AutoStore
Storage & picking

CycloneCarrier
Case shuttle

ItemPiQ
Robotic picking

Tornado
Miniload Crane

ACPaQ
Mixed Case Palletizing



ProMove
Pallet conveyor

QuickMove
Case Conveyor

CarryPick
Storage & Picking

**Current
Technology
Available**

SCA's Certification Development Role

- ▶ Research– Gap Identified
- ▶ Partnership MOU
- ▶ Convened ILT Focus Groups
- ▶ CG Retailers, Package Shippers
- ▶ Automated Systems Suppliers



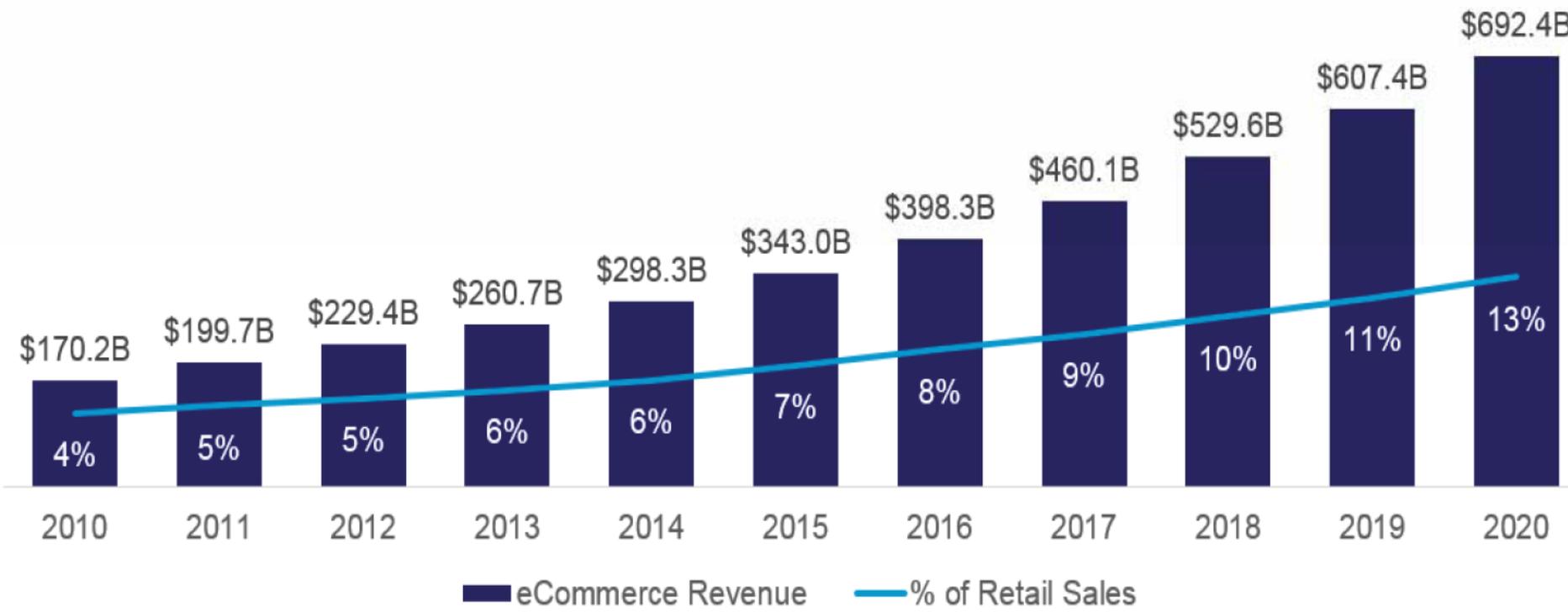
Cert Development Continued

- ▶ Industry Research to MSSC
- ▶ ILT: Validation, SBL design
- ▶ E-Learning Review
- ▶ Future: Raise Awareness



eCommerce is the fastest growing segment of the retail sector, and as such B2C shipping has accounted for over half of shipping volume since 2014.

US eCommerce Revenue
\$Billions, % of Retail Sales



Trends Driving Online Sales Growth

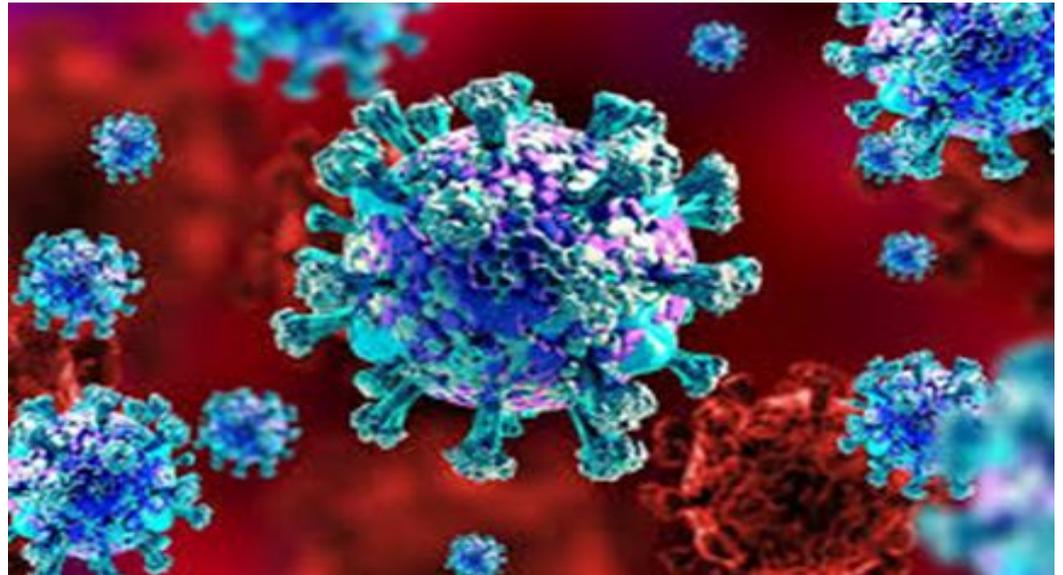
- Increased returns
- Online grocery
- Online / mail-order prescriptions
- Ship-from-store growth
- Increased demand for small parts
- Increased B2B healthcare shipments

COVID Accelerates Ecom Tusanmi

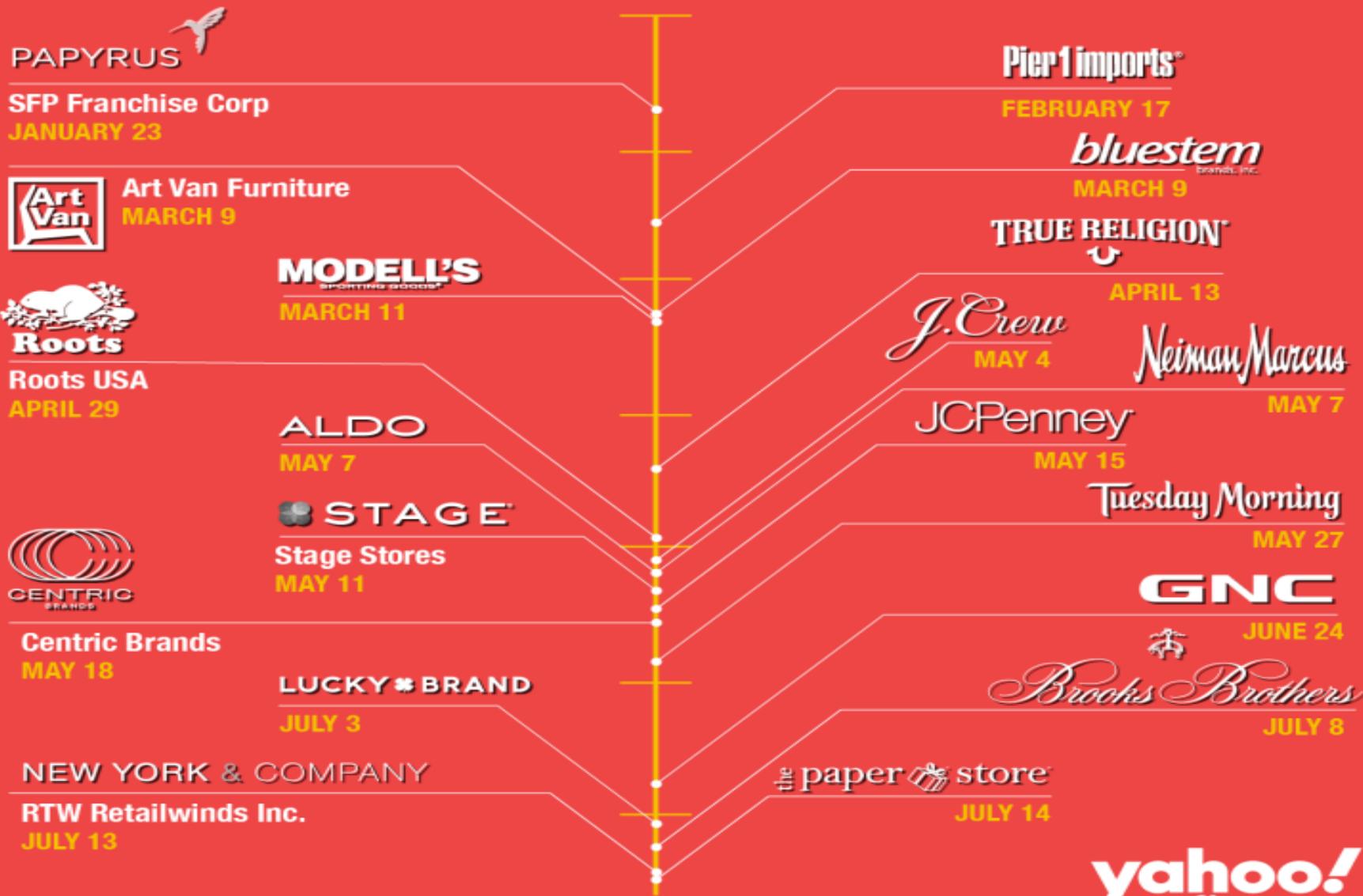
According to UBS:

.....25% of all U.S. retails spending will be online by 2025, a trend expected to force 100,000 physical stores to close.....

Source: Wall Street Journal, 6/30/2020



RETAIL BANKRUPTCIES RAGE ON IN 2020



SOURCE: RETAIL DIVE

HOW MUCH EXTRA WAREHOUSE SPACE DEMAND DOES E-COMMERCE GENERATE?

\$1B
E-com
Sales

1.25M
Distribution
Space

150-175 MSF Annually
Driving Demand for Skilled Technicians

Source: CBRE



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Interested in 8/12 ILT Meeting?

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909-240-5501

www.supplychainautomation.com

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National Science Foundation

WHERE DISCOVERIES BEGIN

Certification Pilot Programs

- ▶ Norco CC
- ▶ Sinclair CC
- ▶ Oakton CC
- ▶ Central Piedmont CC
- ▶ Chippewa Valley TC
- ▶ Columbus State CC
- ▶ Valencia CC
- ▶ Many More to Come...
- ▶ Industry Executive Interested in Connecting?
Steve@supplychainautomation.com



Q & A



Survey Please!! & Webinar Data

