FIND YOURS.

Focusing on Optimization Before Investing in Automation

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“The next generation, digital, on-demand and always-on support network is here. It’s real. It’s happening. And lots of companies have embraced it. If companies haven’t started actively investigating its impact on their business, they should jump in.”

Scott Sopher, Principal and Leader of the Global Supply Chain Practice, Deloitte Consulting LLP
Objectives

• Understand how data and technology can be used to establish baseline Efficiencies

• Use data and technology to optimize your operations and processes

• Determine readiness and analyze priorities for implementing automated solutions
TOP CHALLENGES

Customer demands on the supply chain 73%

Hiring qualified workers 64%

4.6M U.S. MANUFACTURING JOBS

E Commerce sales expected to increase by $1.7 TRILLION by 2021

ONLY 2.2M ARE LIKELY TO BE FILLED

Warehousing Technologies

- **33%** Prioritizing it among our strategic objectives
- **32%** Planning to start implementation in the next 12 months
- **28%** Currently implementing digital transformation initiatives
- **7%** Have not thought about it

*Note: Sample size: n=200
Source: Deloitte digital supply networks study, 2018.

Deloitte Insights | deloitte.com/insights
Top Five Technology Investments

- **Advanced analytics**
  - Large: 47%
  - Medium: 33%
  - Small: 50%

- **Cloud computing**
  - Large: 50%
  - Medium: 33%
  - Small: 50%

- **Modeling and simulation**
  - Large: 38%
  - Medium: 26%
  - Small: 34%

- **Internet of Things platforms**
  - Large: 37%
  - Medium: 30%
  - Small: 32%

- **Optimization and predictive analytics**
  - Large: 35%
  - Medium: 21%
  - Small: 34%

*Small companies = Less than $1 billion in revenue (n = 34)  
Medium companies = $1 billion to less than $5 billion in revenue (n = 92)  
Large companies = $5 billion or more in revenue (n = 60)  
Note: Sample size, n=186  
Source: Deloitte digital supply networks study, 2018.
Optimizing Current Operations

- Fleet Optimization
- Labor tracking/utilization
- Operator productivity
- Identifying bottlenecks in design
Navigating Technology

LABOR AND TELEMATICS

AR/VR

AUTOMATION
Refining Operations Using Existing Data

INCREASED MANPOWER UTILIZATION

EVALUATING COST-TO-SERVE

ENHANCED PRODUCTIVITY

USING THE RIGHT EQUIPMENT
AR/VR Technologies

STANDARDIZED TRAINING

INCREASED RETENTION

REDUCED TRAINING TIME

POTENTIAL TO REDUCE INCIDENTS
Automation

HYBRID VERSATILITY

EASILY SCALABLE

REDUCE LABOR & OPERATING COSTS

INCREASED PRODUCTIVITY
Technology & Organization Health

- Manage and make decisions faster/better: 52%
- Operate efficiently and effectively: 43%
- Grow core and transformational businesses: 41%
- Attract and retain new waves of talent: 40%
- Engage internal and external stakeholders: 36%
- Transform across the whole organization: 30%

Note: Sample size: n=176. “Do not know”/“not sure” responses were not considered.
Source: Deloitte digital supply networks study, 2018.
Key Takeaways

• Warehouse space is maximized to its full potential

• Labor and warehouse processes are managed for ultimate productivity

• Technology will maximize human activity before it begins to fully replace it

• Lift trucks are being used for the right tasks
For more information

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