ADVANCED SUPPLY CHAIN AUTOMATION

⑤ Things You Need to Know

Automation goes beyond robotic picking or sortation, or automating replenishment and forecasting. Automation can transform how higher-order decisions are made and is a critical competency for the future of supply chain.

① What It Is:
An advanced level of automation that uses analytics techniques such as AI, robotics, machine learning, and digital twins to make significantly more complex supply chain management decisions.

*Nearly **80%** of organizations say supply chains must be able to make faster, more accurate and consistent decisions in real-time.[1]*

② Why It's Critical:
Supply chains require ever-faster business decisions in an increasingly more complex business environment while balancing profitability, talent gaps—and your sanity.

*"By 2030, you must have achieved decision-making augmentation through the use of ML. This technology is expected to reach mainstream adoption in supply chains in just **5** to **10 years**. This means you must develop your machine learning strategy now, within your current supply chain strategy planning cycle."[2]*

③ What It Does:
1. Interrogates a torrent of disparate data
2. Combines it with current knowledge, strategy, and goals
3. Makes increasingly automated adjustments to the supply chain as an organization's automation maturity moves through four stages:
   - Awareness
   - Augmented
   - Automated
   - Autonomous

*The amount of new data that is created, captured, replicated, and consumed each year is expected to more than **double** in size from **2022** to **2026**.[3]*

④ What It Doesn't Do:
Replace all the people. Advanced supply chain automation:
- ✓ Assists and later completely relieves humans of tedious tasks
- ✓ Frees humans' focus to on value-add, e.g.
  - Define strategy
  - Innovate
  - Interact with customers and partners
  - Control for biases in the data

Examples:

A production line goes down, and the system automatically generates a response to minimize the impact while keeping in line with the business' agreed-upon goals

Managers run what-if scenarios against a digital twin of the supply chain to find the optimal solution

⑤ How It Pays Off:
- ✓ Reduced costs
- ✓ Cleaner, more reliable data
- ✓ Better decisions
- ✓ Context-aware outputs
- ✓ Elevates supply chain jobs

*Organizations which have successfully scaled their "cognitive automation" have already achieved a **27%** reduction in costs on average from their implementations.[4]*

How to Get Started:
Contact John Galt Solutions to Start, Evolve, and Accelerate your automation maturity.

JOHN GALT

John Galt Solutions' Atlas Planning Platform leverages advanced analytics tools and techniques including AI, ML and digital twins, to provide you with the automation capabilities you need to transform your supply chain decision-making, so you can thrive in today's complex market.

johngalt.com

Footnotes:

1,2. Manenti, Pierfrancesco. (2022, May 24). *Autonomy is the Future of Supply Chain.* Supply Chain Management Review. (www.scmr.com)

3. Rydning, John. (2022, May). *Worldwide IDC Global DataSphere Forecast, 2022-26: Enterprise Organizations Driving Most of the Data Growth.* (www.idc.com)

4. Gabriel, Benjamin; Overdulve, Kevin. (2021). *In pursuit of the 'Self-Driving Supply Chain' Redefining agility through cognitive automation.* (www2.deloitte.com)