**Digital Supply Networks**

Unlocking value by solving the classic issues with leading digital tools and disruptive capabilities

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**THE COLLAPSE OF THE LINEAR SUPPLY CHAIN**

New technologies and tools have allowed the traditionally linear supply chain to collapse into an agile interconnected network that unlocks new value across the digitized nodes.

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**THE DIGITAL TO PHYSICAL LOOP UNLOCKS THE VALUE**

The core supply chain issues persist and present opportunities to apply new solutions to unlock unprecedented value.

1. **Physical to digital:** Capture signals and data from the physical world to create a digital record.

   - Physical to digital: Using advanced analytics, artificial intelligence, and machine learning to drive meaningful insights.

2. **Digital to digital:** Exchange and enrich information using advanced analytics, artificial intelligence, and machine learning.

   - Digital to digital: Exchange and enrich information using advanced analytics, artificial intelligence, and machine learning to drive meaningful insights.

3. **Digital to physical:** Deliver information in automated and more effective ways to generate actions and changes in the physical world.

   - Digital to physical: Deliver information in automated and more effective ways to generate actions and changes in the physical world.

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**DIGITAL SUPPLY NETWORKS CHARACTERISTICS**

Digital Supply Networks (DSN) share common characteristics that drive differentiated performance and value.

- **End-to-end transparency:** The ability to see across the network.
- **"Always-on" agility:** The ability to proactively operate across the network.
- **Connected environment:** The ability to extend into your suppliers and customers.
- **Resource optimization:** The ability to identify and utilize the right worker, human or machine, for work.
- **Holistic decision making:** The ability to continuously learn and make optimal network decisions.

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**CRITICAL COMPONENTS**

Digital Supply Networks require an ecosystem of functional and technical resources, tools, and capabilities to deliver results.

**FUNCTIONAL SUPPLY CHAIN**

- Product Development
- Planning
- Sourcing
- Manufacturing
- Logistics & Distribution

**INTERNET OF THINGS**

- Sensors
- Smart Home
- Mobile

**ADVANCED ANALYTICS**

- Simulation
- Data science and algorithms
- Machine Learning
- Natural Language Processing
- Video & Spatial Analytics

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**NEW TOOLS & TECHNIQUES ENABLE NEW SOLUTIONS**

Increased computing power and a reduction in cost have spurred innovation and an array of new exponential tools and opportunities.

- **Internet of Things**
- **Intelligent Agents**
- **Text Analytics**
- **Machine Learning & Predictive Analytics**

**PLATFORMS AND INFRASTRUCTURE**

- SAP/S4 and Leonardo
- Oracle Cloud
- AWS
- Blockchain

**TALENT**

- Future of work
- Robot vs. Human optimization
- Co-bots
- Humans enhanced through advanced wearables

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**LEVEL OF ENTERPRISE-WIDE ADOPTION**

- **Cybersecurity**
- **Data Integrity**
- **Safety**
- **Talent**

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**FOUNDATIONAL ELEMENTS**

- **Table Stakes**
- **Modernizers**
- **Exponentials**

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**Learning more at**

Digital Supply Networks

**HOW TO “TURN-ON” YOUR DIGITAL SUPPLY NETWORK**
Companies must choose specific supply chain transformations and execute priority initiatives to meet their competitive objectives.

- **How many supply chains do you need?** Where will you segment by customer, product, geography, or channel?
- **Where do you need to transform your supply chain to meet your strategic business objectives?**
- **What initiatives will you deploy to configure your digital supply networks?**

**FIVE PROJECT TYPES**
Client engagements range from one-day immersive experiences to multi-year transformations.

- Digital Transformation
  - Change the organization
  - Solution Industrialization
  - Expand success
- Digital Enterprise Strategy
  - Test an idea
  - Plan for success
- Digital Immersion
  - Understand the art of the possible

**THE DIGITAL FOUNDRY**
Build a scalable delivery model that rapidly ideates, prototypes, and implements digital tactics on an ongoing basis using established processes and governance.

**DELoitte IS THE RECOGNIZED MARKET LEADER**

- **Digital supply chain**
  - ALM Intelligence names Deloitte a global leader in Digital Supply Chain Planning & Design (2016)²
- **IoT**
  - IDC names Deloitte a worldwide leader in Internet of Things Consulting Systems Integration Services based on capability and strategy (2016)²
- **Sourcing**
  - ALM Intelligence names Deloitte a global leader in Sourcing Strategy Consulting (2017)³
- **SAP**
  - Gartner names Deloitte a leader in its Magic Quadrant for SAP Application Services, Worldwide (2018)³
- **Business analytics**
  - Gartner names Deloitte a Leader in its Magic Quadrant for Data and Analytics Service Providers, Worldwide (2018)³
- **Oracle**
  - Gartner names Deloitte a Leader in its Magic Quadrant for Oracle Application Services, Worldwide (2018)³
- **Blockchain**
  - HorsesForSources (HFS) names Deloitte a global leader in Enterprise Blockchain Services (2017)³
- **ERP**
  - IDS names Deloitte a leader in Worldwide Cloud ERP Implementation Services (2017)³

**THE DIGITAL FOUNDRY**
Build a scalable delivery model that rapidly ideates, prototypes, and implements digital tactics on an ongoing basis using established processes and governance.

1. **Idea Sources**
   - Engineering & Technology Groups
   - Business Units
   - Employees
   - Deloitte’s CoEs
   - Market Scans
   - Ecosystem Partners
   - University Alliances

2. **Process Outcomes**
   - Prioritized List of Projects
   - Project Charter
   - Business Value
   - Metrics / Accountability
   - Project Costs
   - Implementation Roadmap

3. **Key Contacts**

   - Doug Gish
     - Principal
     - Leader, Supply Chain & Network Operations
dgish@deloitte.com

   - Adam Mussomeli
     - Principal
     - Leader, Digital Supply Networks
     - Supply Chain & Network Operations
     - amussomeli@deloitte.com

   - Stephen Laaper
     - Principal
     - Leader, Digital Supply Networks
     - Supply Chain & Network Operations
     - slaaper@deloitte.com

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2. ALM Intelligence estimates "Deloitte is the Recognized Market Leader: Worldwide Cloud ERP Implementation Services 2017 Vendor Assessment by Douglas Hayward and Ali Zaidi, June 2017, IDC #US41523917"
3. ALM Intelligence estimates © 2016 ALM Media Properties, LLC. Reproduced under license to Deloitte Digital All Rights Reserved. Notwithstanding any portion of this work may be reproduced in any form without written consent of ALM Media Properties, LLC.