

# Cisco's Supply Chain Digitized

Drive an Agile and Adaptive Supply Chain

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## Our vision



For over 30 years, we've focused on helping to change the way the world works, lives, plays, and learns.



## Our strategy

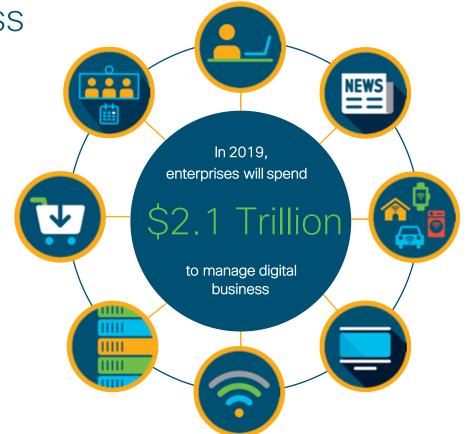


We create solutions built on secure, intelligent networks that solve our customers' challenges.



The opportunity: Embracing digital business

IDC predicts worldwide spending on digital transformation technologies will expand at a compound annual growth rate (CAGR) of 16.8% through 2019 to more than \$2.1 trillion.\*



## Secure, intelligent platform for digital business



Increased pace of innovation

# FY18 financials



\$12.6b Services revenue \$36.7b

Product revenue

\$46.5b

Total cash and investments

\*Non-GAAP Rev.

GAAP revenue \$49B Total \$36.7B Products \$12.6B Services

## Growth Strategy for Innovation





30,000+ orderable items

20,000+ virtual teams

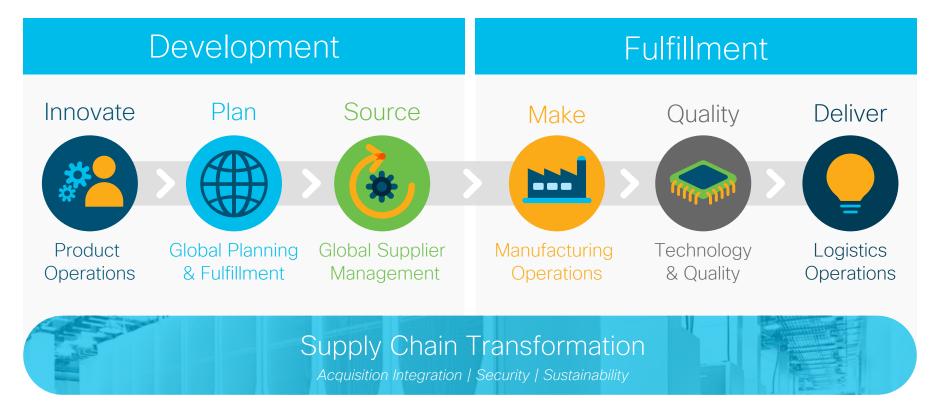
1M+
orders annually

80M+
items shipped annually

700+ active suppliers

62,000 components

## Cisco's End-to-End Supply Chain





## High alert over global cyber attacks

iter Closel Connected Logistics Market is Expected to

Exceed US\$ 41.00 Billion By 2022

## Need for Digital Supply Chain



Improve Productivity



Company transformationfrom H/W sales to S/W sales



Support new innovation



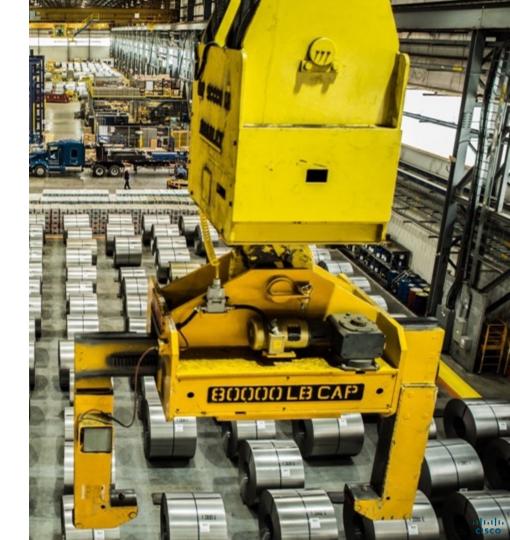
Agility along with scale



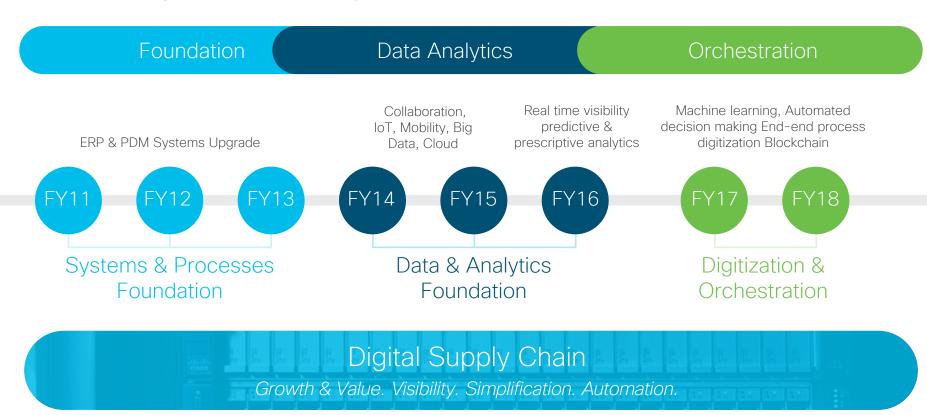
Changing customer expectations



Rapidly growing Global reach



## The Digital Journey





# Technology Used to Digitize the Supply Chain



#### Data & Analytics

## Real time, Accurate & Accessible Data

More accurate demand forecasting

Better data = better decisions

Data query times drop From days to seconds

#### Collaboration

## Eliminates communications silos

Greater capacity to Share & see insights

Collaboration on key initiatives to deliver outcomes

Teams work in conjunction

Smooth workflows

#### Internet of Things

## Connects the Unconnected

Preventive maintenance

Process improvements

Optimizes product delivery

Better packaging & product quality

#### **Mobility**

## Access to info anywhere, anytime

Instant access to critical data

Real-time status via mobile devices

## Use Cases Enabled by Technology

#### Development **Fulfillment** Innovate Plan Source Quality Deliver Make Global Planning Product Global Supplier Manufacturing Technology Logistics & Fulfillment Operations Operations Management Operations & Quality 3D Printing **Business Award** Cisco Energy Universal Supplier Adaptive Collaboration Order Visibility Analytics & Management Testing Prototype **Platform** Optimization Hyper Location Portal Remote Expert Connected Quality Cockpit Pervasive Video

## 3D Printing

#### Need

Prototypes can cost thousands of dollars

#### What it does

Fast turnaround from design to print

Prints 3D objects in 2-4 weeks

Uses variety of materials and surface finishes to showcase the difference



## Benefits



66% reduction in cost for a prototype



Prototype built in 50% time

## Prototype Portal

#### Need

Communication of prototype build information had been a mixture of web tools, emails and excel files

#### What it does

Single portal for product teams to communicate about prototype planning, material sourcing and building



## Benefits



Eliminates email and excel status reporting



**Real Time Visibility** 



Faster time to market



## Supplier Collaboration Platform

#### Need

No single platform to manage global suppliers

Lack of visibility into supply/demand

#### What it does

Connects multiple suppliers and partners across the global supply chain with clear role based access

Integrated view of supply network data in a single platform



#### Benefits



Transparency to inventory movement and visibility to excesses and shortage



Partners mitigate 70% of shortage issues



7% improvement in product lead time

## Business Award Analytics & Optimization

#### Need

Improve component quoting process

Provide visibility to quote status and savings

#### What it does

Expedite and digitize component quoting process by creation of a negotiation platform that leverages a rules based engine and predictive analytics to improve savings



## Benefits



Productivity improvements



## Cisco Energy Management

#### Need

No oversight of carbon emission output Limited visibility into energy usage

No control of energy costs

#### What it does

Monitor energy usage, gain greater insight and better manage factory's power consumption

Real-time alerts sent to PCs and mobile device when energy output is high



#### Benefits



Saves millions in annual power costs



Reduces Greenhouse gas emissions



30% reduction in power consumption

## Remote Experts

#### Need

Experts unavailable at each manufacturing site to resolve issues

#### What it does

Connects globally distributes experts to manufacturing site

Provides easy access to experts



## Benefits





Addresses issues in real time



Resolutions saved for reuse



Reduces need for onsite support

## Adaptive Testing

#### Need

Increased Test Equipment Cost

Limited ability to tailor product tests

Weeks to write new test programs

#### What it does

Uses predictive and prescriptive analytics to track historical product/component test quality data

Helps to decide which test should be increased, reduced or eliminated

Tailors tests to customer needs and adapt real-time



#### Benefits



5-19% Test Time Savings



**Capital Cost Savings** 



Enhances continuous quality improvements

## Connected Quality Cockpit

#### Need

Insuring quality control

#### What it does

All quality data is brought together into a single cockpit view.

Reduces customer found defects and customer escalations using in process release metrics and predictive analytics.



## Benefits



11% reduction in returns



Millions saved in avoidable RMAs



30% reduction in hardware customer escalations

## Universal Order Visibility

#### Need

Lot of time spent trying to identify issue holding up the order

#### What it does

Tracks orders in real-time

Creates near real time order visibility across supply chain for faster root cause analysis

Provides a single source of truth dashboard view for PCs and Mobile Devices for all users



#### Benefits



33% reduction in backlog



Improved order schedule time to less that 2 days



Manually Scheduled order reduced by 20%

## Hyperlocation

#### Need

Difficult to find equipment and tools

People are not at a desired location

#### What it does

Tracks the location, status and condition

Process re-engineering to increase efficiency

Better protects people and equipment



## Benefits



Increases asset utilization



Increases efficiency of workforce



Lowers inventory costs



Improves worker safety

## Pervasive Video

#### Need

Factory Incident, Safety and Security
Theft Management

#### What it does

Facial recognition

Material tracking

Aisle surveillance



## Benefits



Employee safety/security



Reduces number of scans of IDs



Enhances continuous quality improvements



## Security Across the Supply Chain



#### Operational Framework





# Overall Benefits of Supply Chain Digitization

Growth & Value. Visibility. Simplification. Automation.









# cisco