



# Digital Transformation of Supply Chains



Getting Sourcing, Supplier Management and Supply Chain on the Same Page

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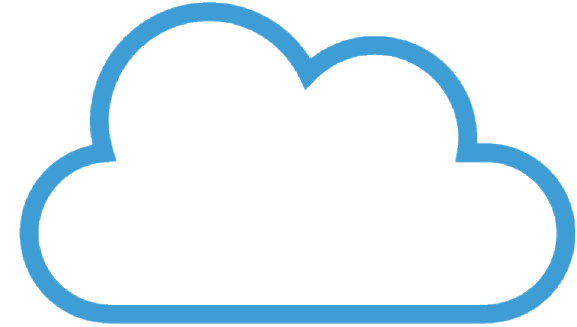
# Digital Disruption is here



96% are influenced by social media and reviews before buying



Sophisticated customers expect 100% service experience



83% of companies use public cloud, 51% workload through cloud today



Data Explosion: 90% of data generated in last 2 years



50.3% of commerce transactions through mobile



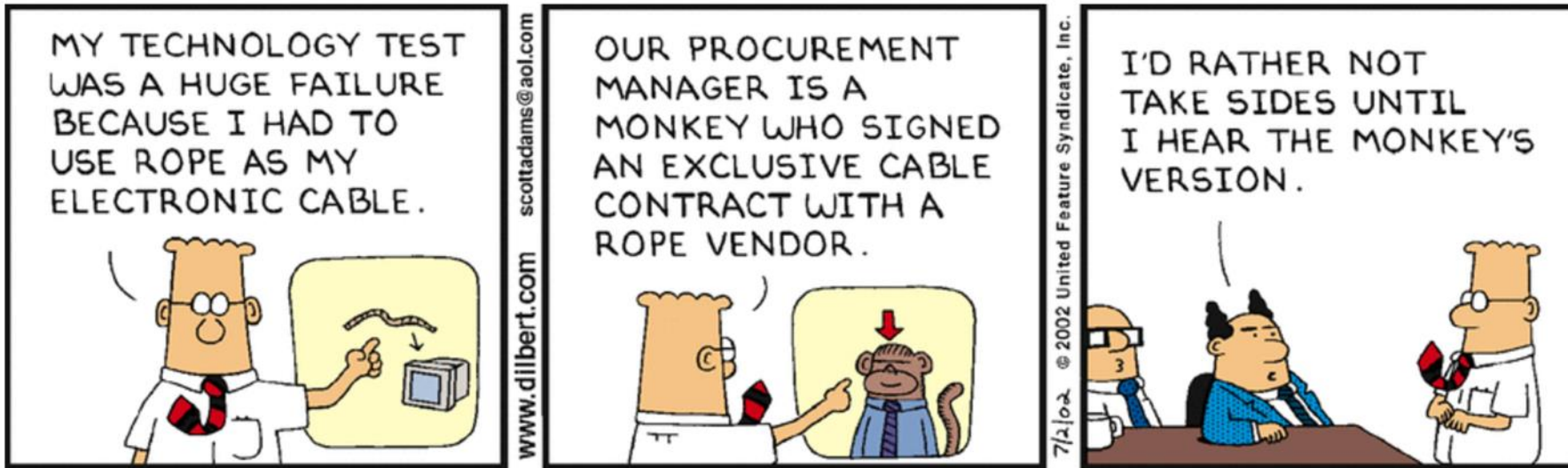
And Procurement technology?



# A new generation of workers



# Three silos that inhibit collaboration in your supply chain



## #1 Psychological Silo

- Lack of visibility and control
- Fear of dependency and failure
- Stay within comfort zone

## #2 Organizational Silo

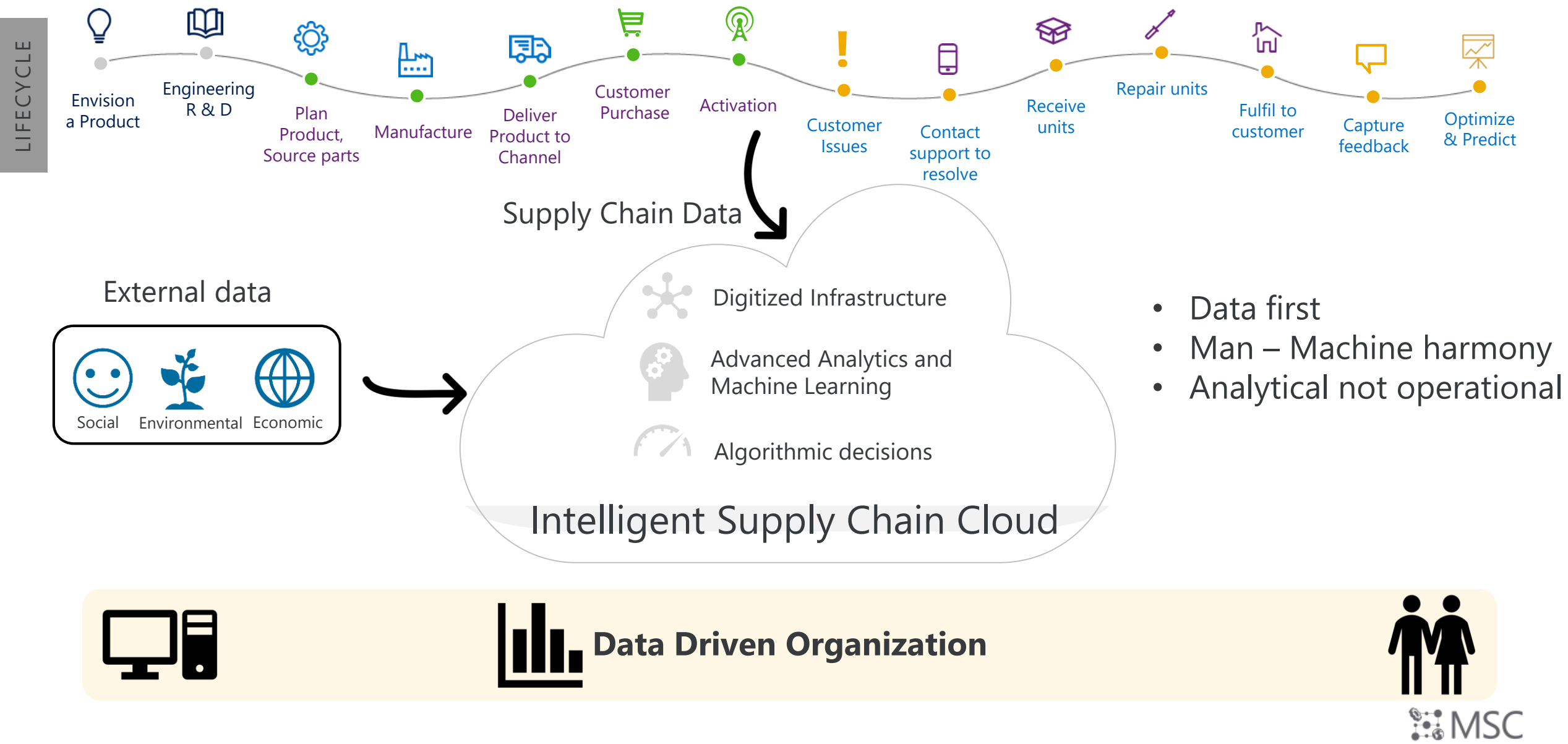
- No view of bigger picture
- Local goals and performance metrics
- No cross department recognition

## #3 Information Silo

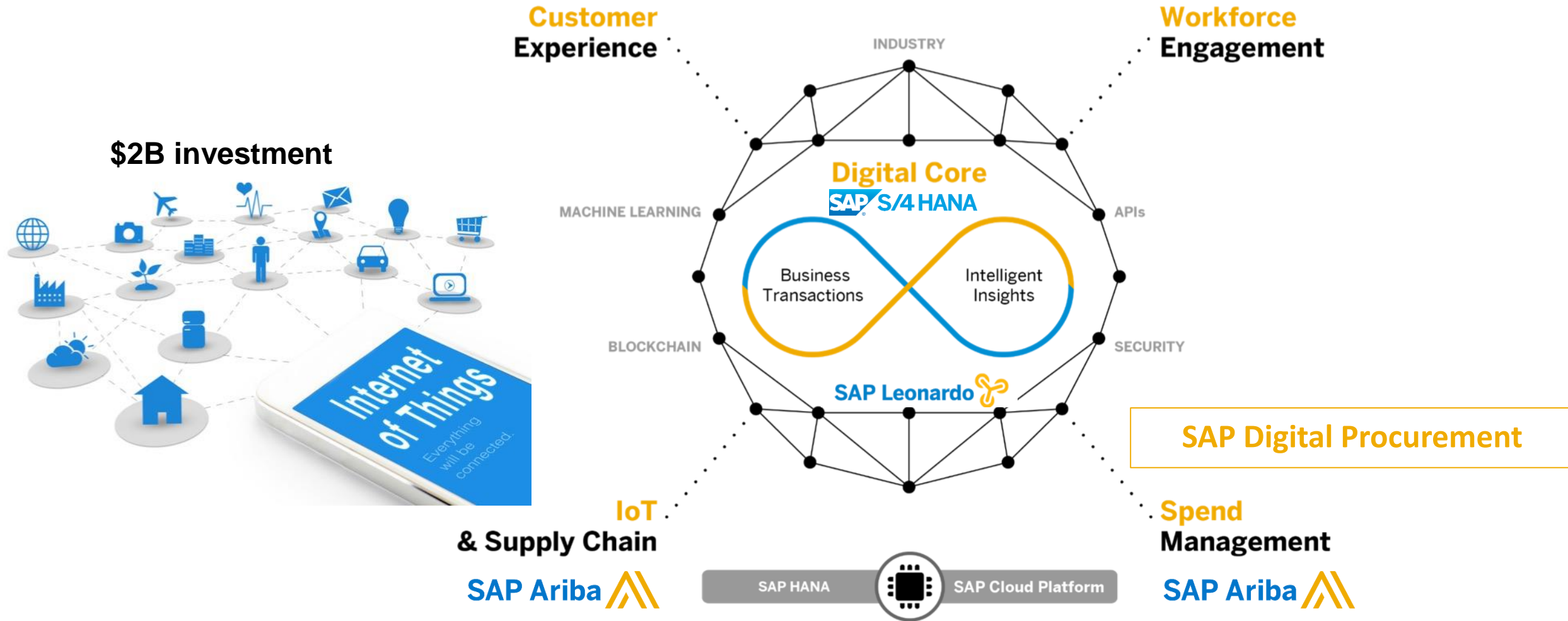
- Tools not connected
- Different perspectives disjointed
- Data replication and rapid ageing

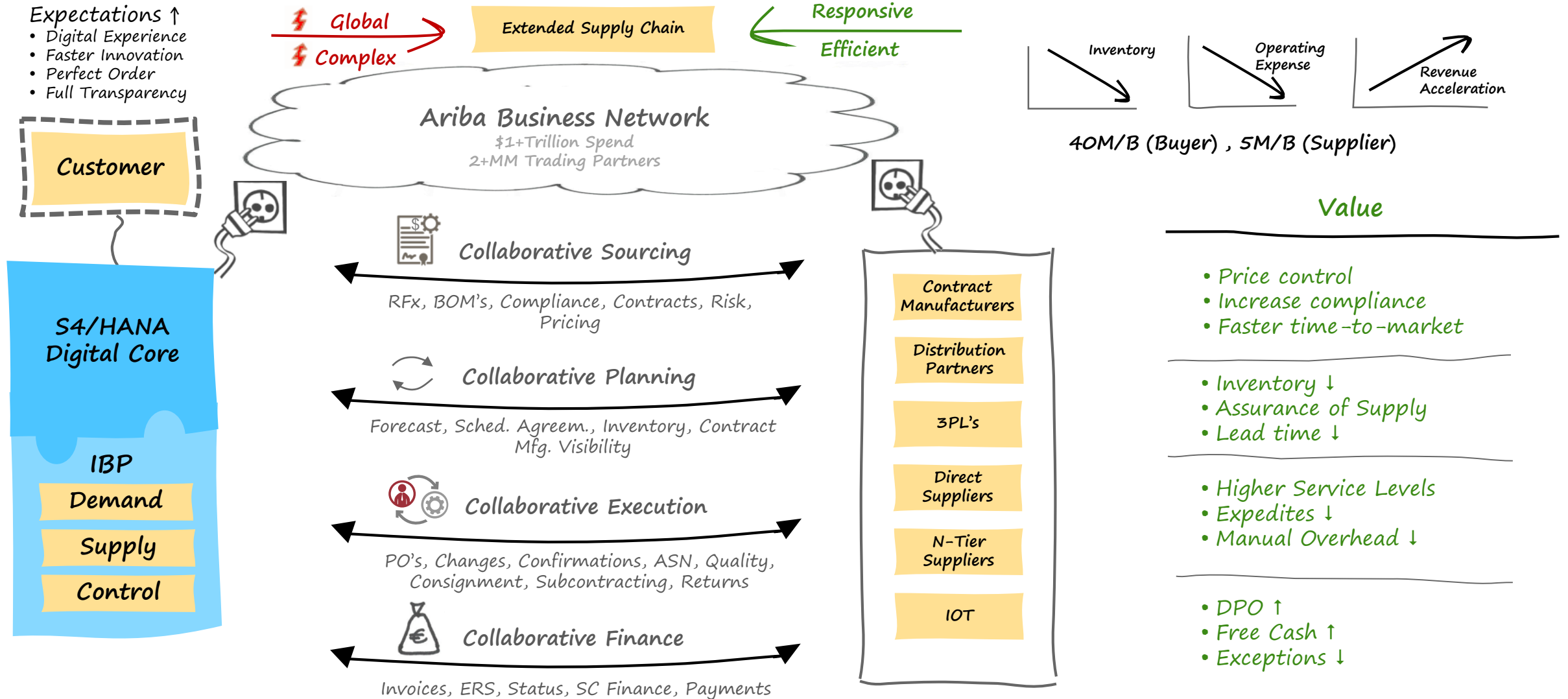


# Example of an adopter: Intelligent Supply Chain



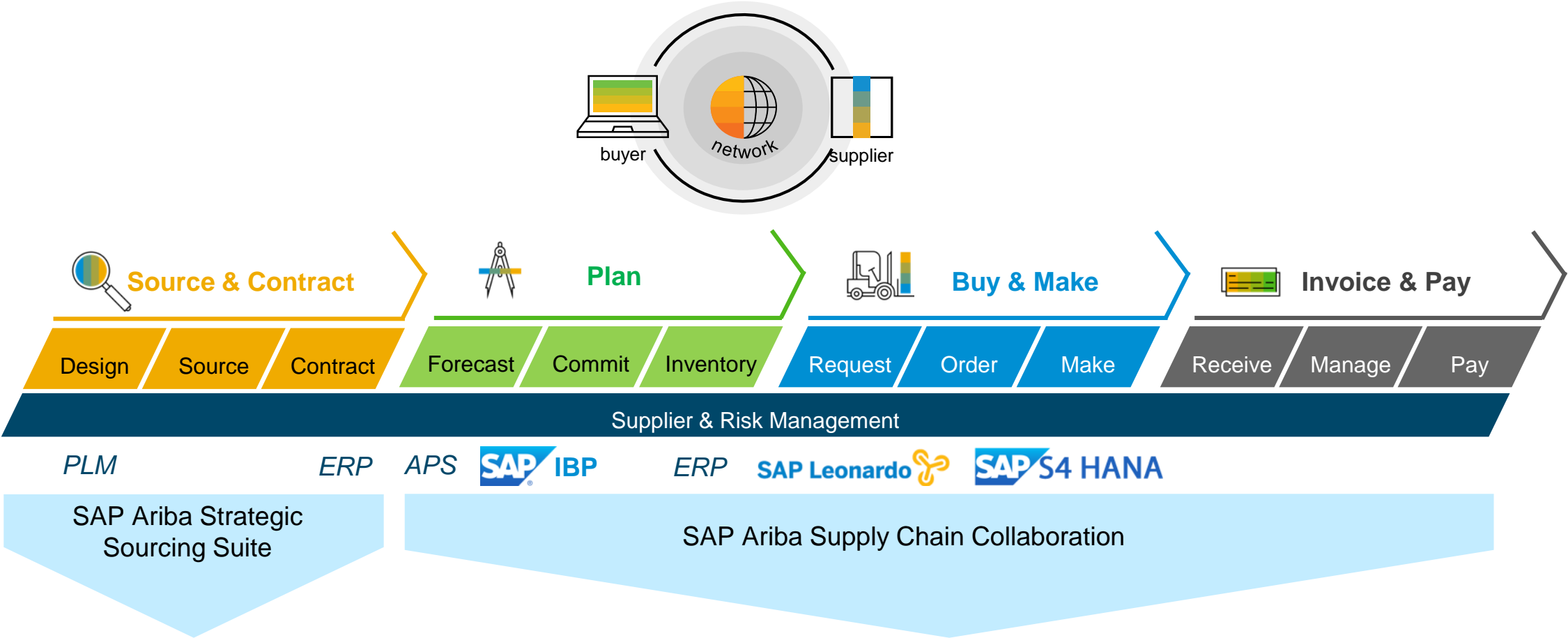
# SAP Digital Framework







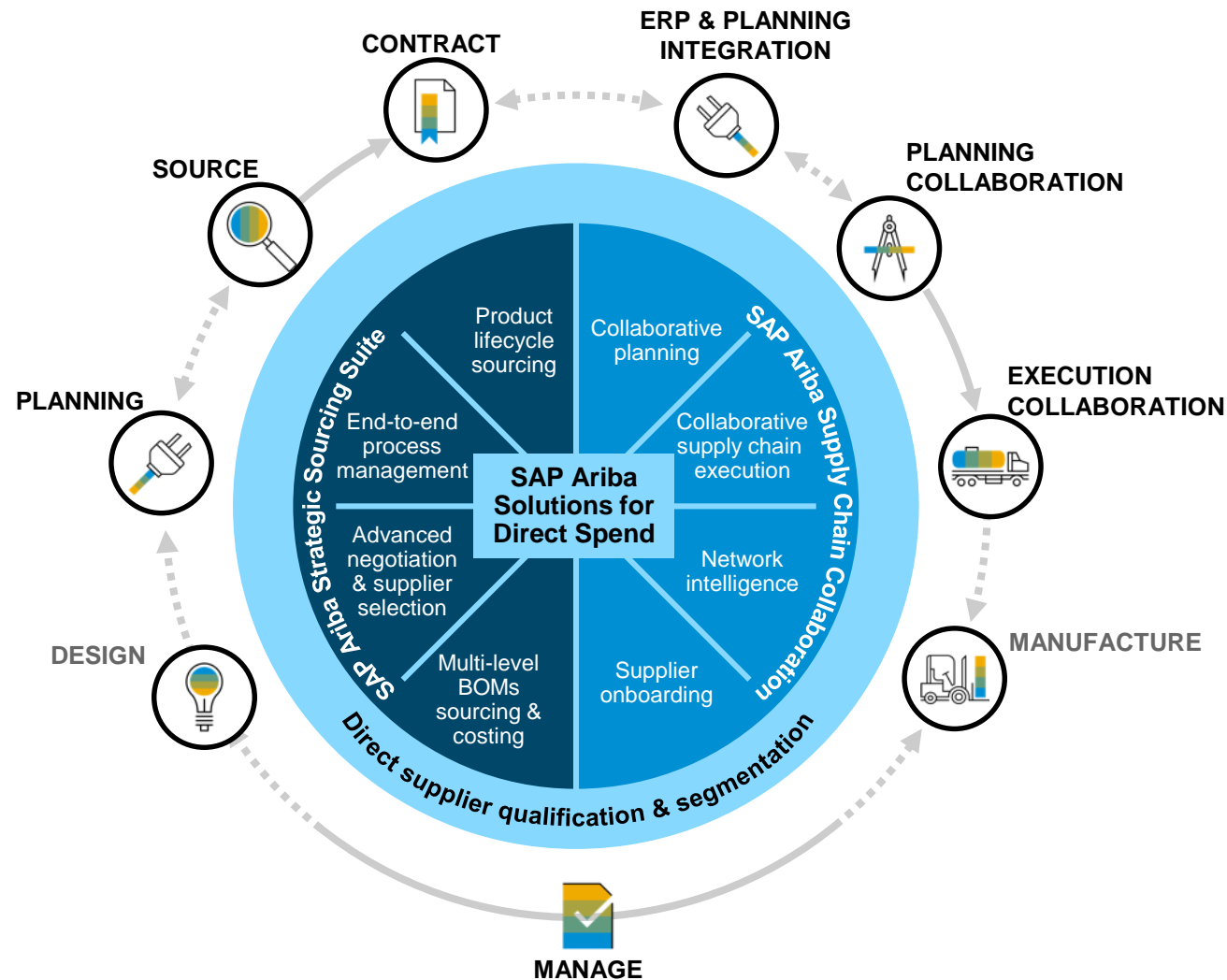
# SAP Ariba Solutions for Direct Spend: Supply Chain



*Speed time to market, lower cost of goods sold, avoid supply chain disruptions*



# SAP Ariba Solutions for Direct Spend



SAP Ariba  
Strategic  
Sourcing Suite



SAP Ariba  
Supply Chain  
Collaboration



# Supplier Management Challenges



## Supply Chain / Manufacturing

- **Primary trigger:** Ensuring continuity of supply & product quality
- **Challenge:** Supply chain disruptions and product quality issues that could have been avoided with better risk insights and supplier performance visibility
- **Goal:** Clear visibility into supplier performance and risk



## Operations, Risk & Compliance

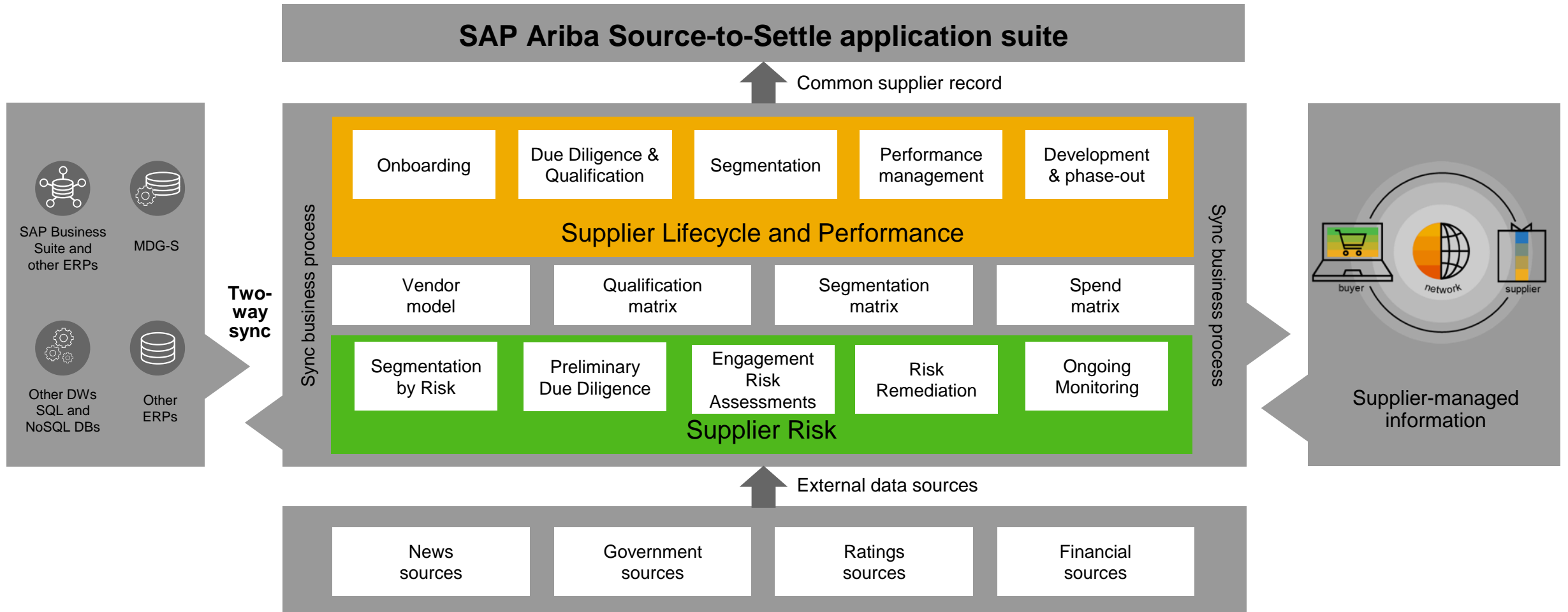
- **Primary trigger:** concerned about integration with existing ERP systems (IT). Concerned about regulatory, reputational and financial risk impact
- **Challenge:** high cost and difficulty of integration with ERP (IT). Reactive, after-the-fact risk management may lead to costly business disruptions
- **Goal:** want cost effective integration and a 360 view of suppliers (IT). Want to be more efficient and proactive in driving preventive measures to minimize business disruptions (GRC)



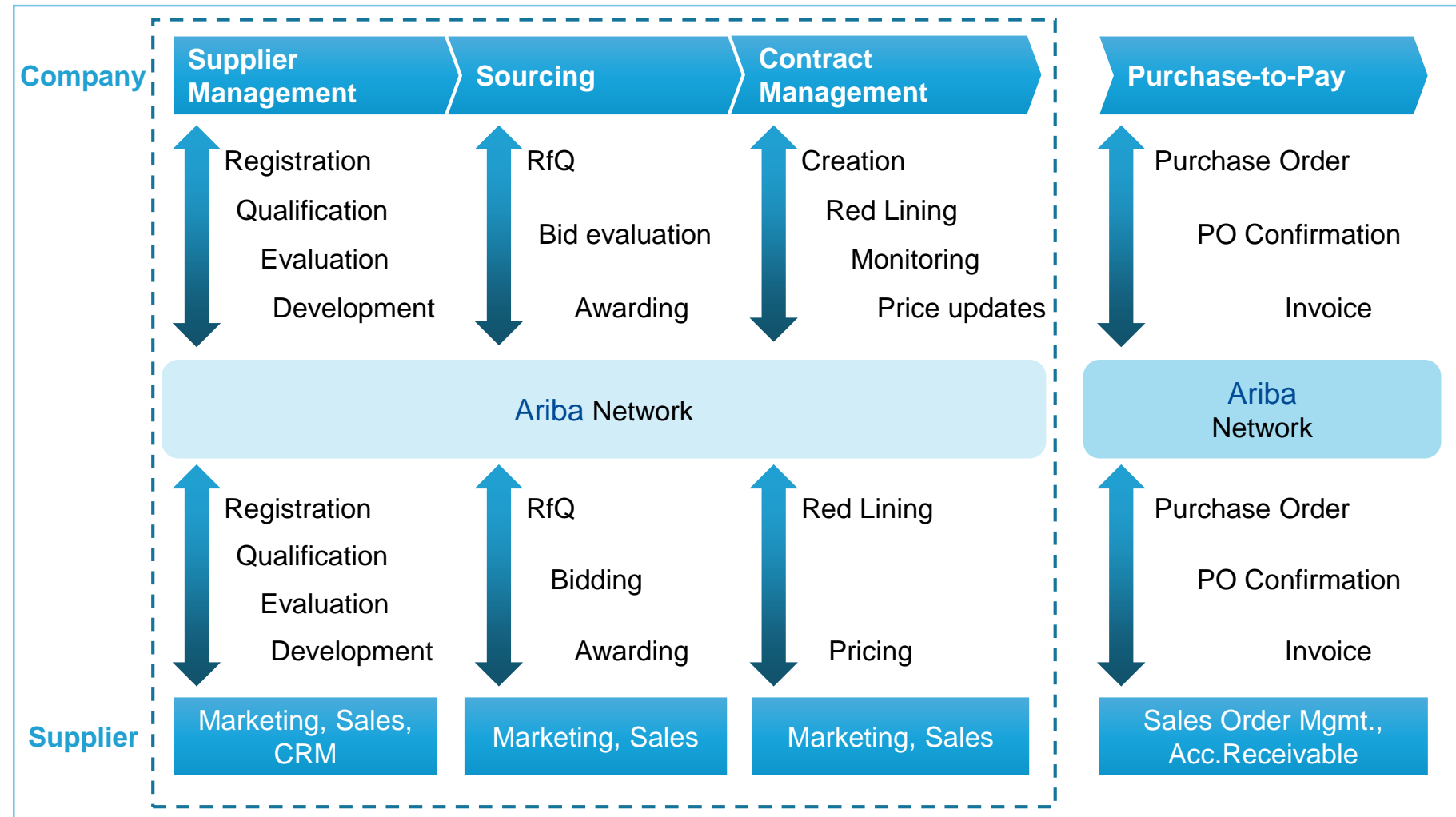
## Suppliers

- **Primary trigger:** Fatigue. Constantly updating multiple customer systems
- **Challenge:** Continuous requests to enter information into multiple systems from multiple contacts across the customer business including finance, procurement and risk & compliance
- **Goal:** Have a single system in which to maintain relevant data that's easy to access

# SAP Ariba Supplier Management Architecture



# Example of an adopter: Leading chemicals company



## Key Takeaways: Digital business interaction:

- Harmonizes across categories (direct/indirect/MRO)
- Integrating a global network to collaborate
- Incremental solution capabilities every quarter
- Natively integrated into SAP ECC
- Reduction of manual touches



# Assessing Supplier Risk

## Supplier engagements\*



Inherent



Relationship



Performance



Supplier ratings

## Incidents



Legal & regulatory  
compliance



Environmental  
& social

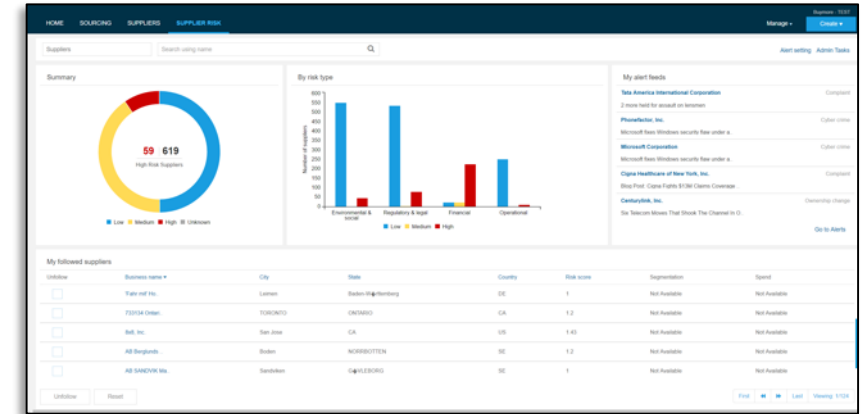


Financial



Operational

Severity	Flag	Business name	Incident type	Count	Last update	City	State	Country	Action	Details
Low		CA, Inc.	Senior Management Change	3	2018-11-08	New York	New York	USA	Action	Details
Medium		MANGROTTI NUCLEAR SPA	Contract	1	2018-11-08	SEDOGLIANO	LOMB	ITALY	Action	Details
Medium		CenturyLink, Inc.	Ownership Change	31	2018-11-08	Monroe	Louisiana	USA	Action	Details
Medium		Toshiba America Nuclear Energy Corporation	Contract	1	2018-11-08	Charlotte	North Carolina	USA	Action	Details
Medium		Oracle Corporation	Contract	2	2018-11-08	Dallas	Texas	USA	Action	Details
Medium		Oracle Corporation	Ownership Change	18	2018-11-08	Dallas	Texas	USA	Action	Details
Medium		Account, Inc.	Ownership Change	2	2018-11-08	Denver	Colorado	USA	Action	Details
Medium		Edwards, Inc.	Business Expansion	5	2018-11-08	Dublin	California	USA	Action	Details
Low		Tata America International Corporation	Geopolitical issue	1	2018-11-08	New York	New York	USA	Action	Details
Low		Tata America International Corporation	Senior Management Change	36	2018-11-08	New York	New York	USA	Action	Details
Medium		Tata America International Corporation	Complaint	8	2018-11-08	New York	New York	USA	Action	Details
High		Tata America International Corporation	Regulatory Compliance issue	7	2018-11-08	New York	New York	USA	Action	Details
High		Pharmacia, Inc.	Cyber Crime	18	2018-11-08	Redmond	Washington	USA	Action	Details
Medium		International Business Machines Corporation	Ownership	5	2018-11-08	Armonk	New York	USA	Action	Details
Medium		TOYOTA CORPORATION	Contract	1	2018-11-08	MIYATO-KU	TOYO	JAPAN	Action	Details



## Supplier risk scoring model



Integrated Open Configurable

Exposure



Impact\*

Assessments

Adjudication\*

Remediation\*



Business  
continuity



Business  
reputation

\* Include planned innovations.

# Comprehensive risk categories



## Regulatory and legal compliance

- Sanctions and watch lists
- Bribery and corruption
- Legal
- IT security
- Fraud
- Anticompetitive behavior
- Corporate crime



## Environmental and social

- Human rights
- Labor issues
- Health and safety
- Environmental issues
- Conflict minerals
- Unethical practice
- Decertification



## Financial

- Bankruptcy
- Insolvency
- Mergers and acquisitions
- Divestiture
- Credit rating downgrade
- Downsizing
- Liquidation
- Tax issue



## Operational

- Natural disasters and accidents
- Plant disruption or shutdown
- Labor issues
- Product issues
- Project delays

# SAP Ariba Strategic Sourcing Suite

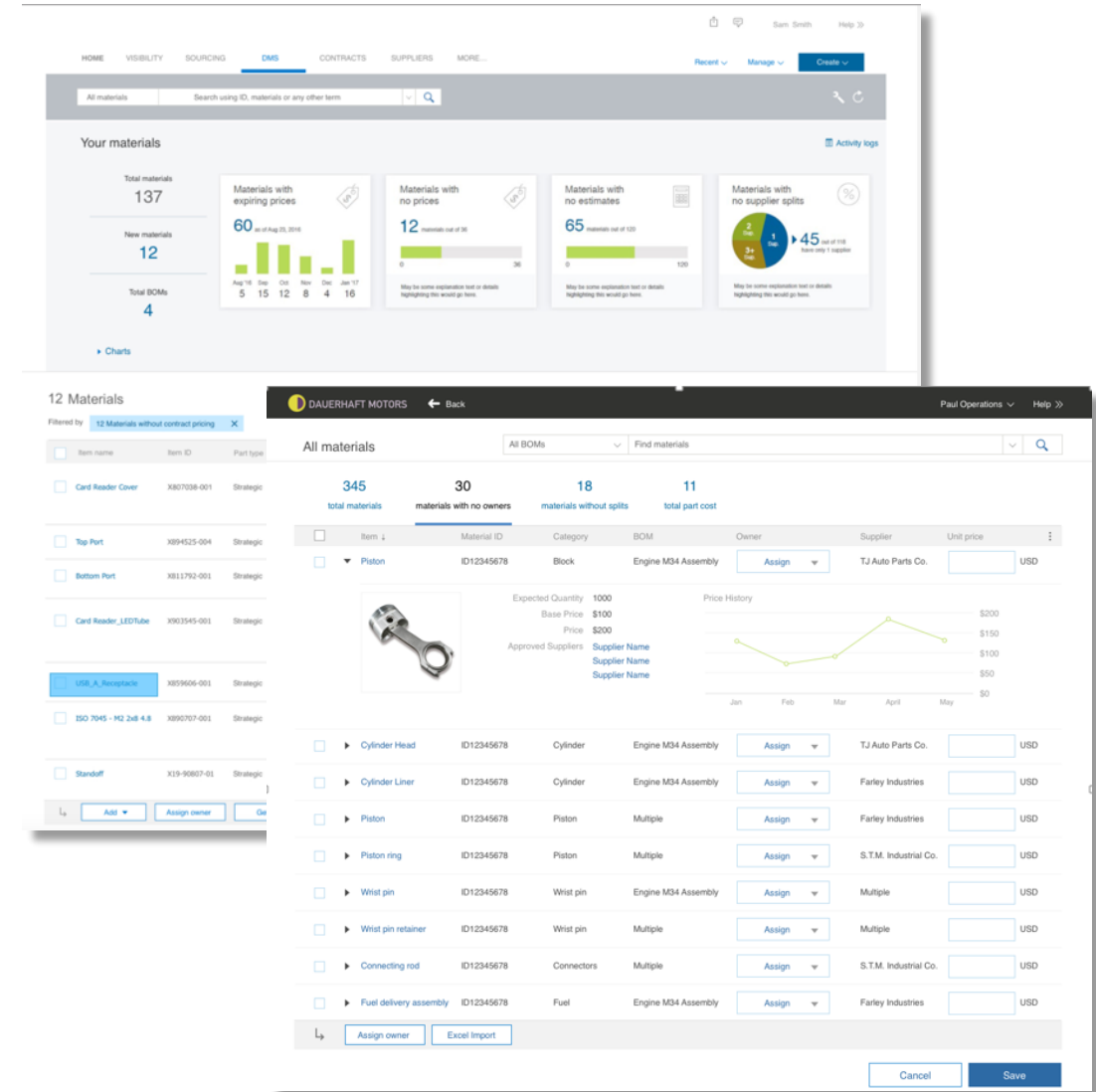
## Application Innovation: Product Sourcing - Multi-Level Material Hierarchies (BOM)

### Product Capabilities

- ERP/PLM integration
- Multi-Level BOM Tagging and Rollup, additional costs
- Volume/time based pricing, price history
- RFP's and Auctioning, Supplier 360 view
- Category and Program Management
- Contract creation and collaboration, incl. e-signatures
- Dashboard driven exception management

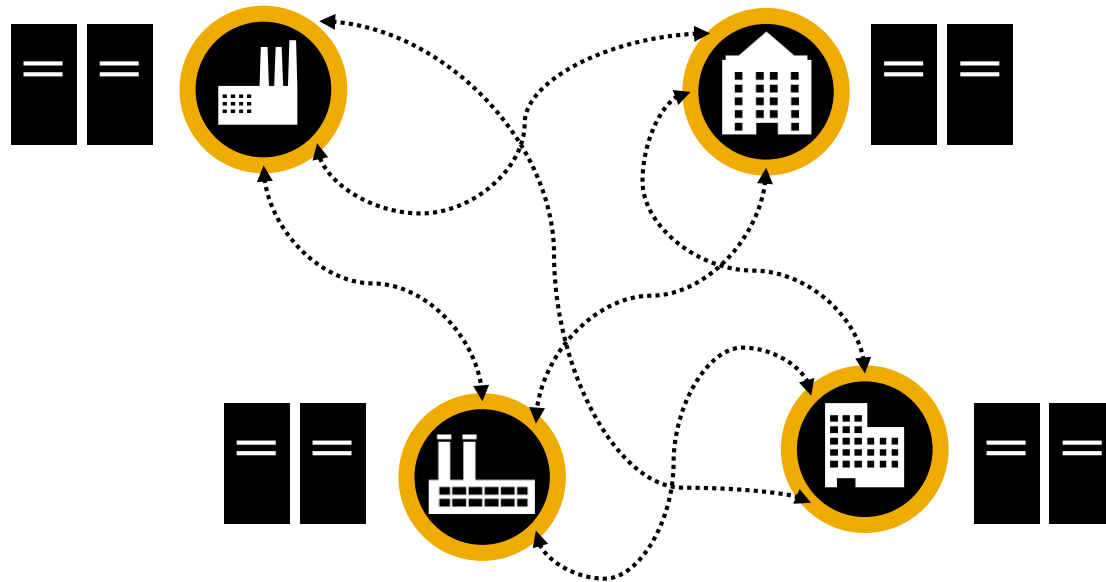
### Key Benefits

- Automate end-to-end processes
- Eliminate data re-entry
- Real time pricing visibility
- Easier reporting and filtering



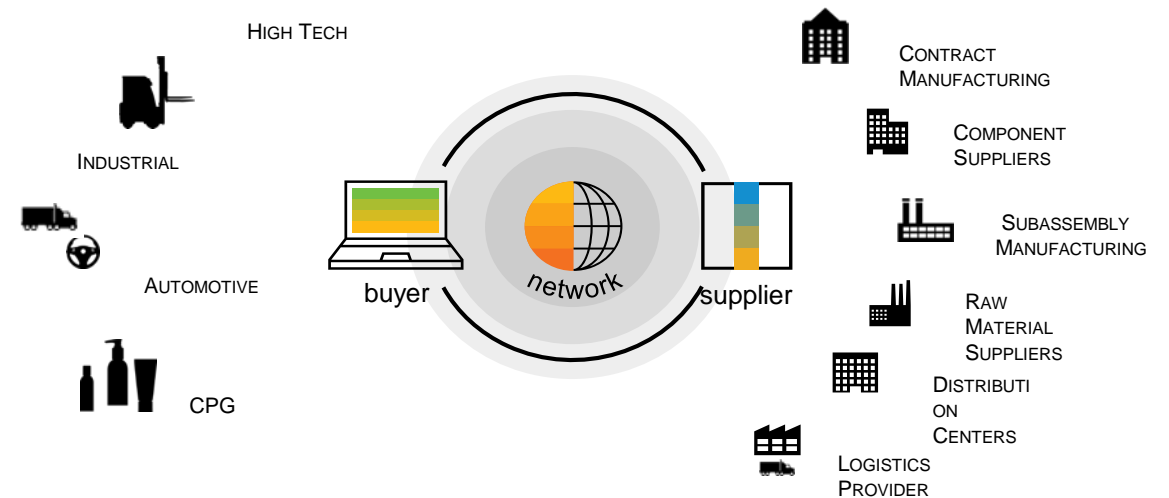


# Supply Chain Collaboration requires a Business Network



## POINT-TO-POINT INTEGRATION

- PROCESSES CUSTOMIZED PER TRADING PARTNER
- EDI FORMATS AND CONNECTIVITY STANDARDS
- NO BUSINESS LOGIC
- NO AGGREGATED DATA CONTENT OR HISTORY



## BUSINESS NETWORKS

- STANDARDIZED PROCESSES
- MULTIPLE CONNECTIVITY OPTIONS
- CONFIGURABLE RULES AND BUSINESS LOGIC
- COMMUNITY INTELLIGENCE
- 1-TIME CONNECT FOR BUYER OR SELLER

# SAP Ariba Supply Chain Collaboration

Collaborative network for real-time visibility

Forecast collaboration

Purchase order and schedule agreement

Contract mfg and consigned inventory

Quality collaboration

## Buyer

Forecast/demand

Purchase/subcontract order

Schedule agreement release

Component ship notice

Component inventory data

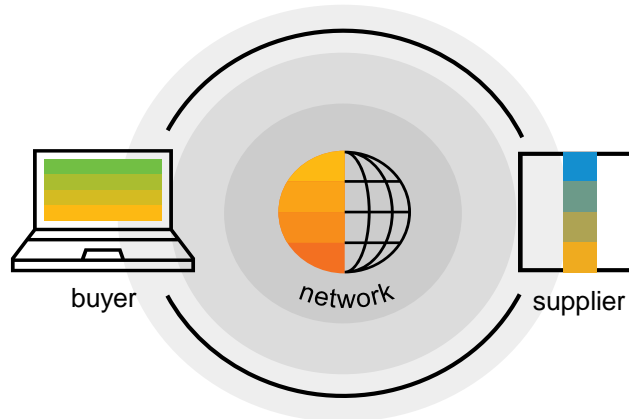
Goods receipt notice

Consignment inventory status

Quality notification/response

Self-billing/ERS invoice

Payment



## Supplier/Contract manufacturer

Forecast commit

PO confirmation

Component receipt notice

Manufacturing visibility \*\*

Component consumption

Advance ship notice

Deviation request /response

Invoice

## Manufacturing and retail collaborative processes

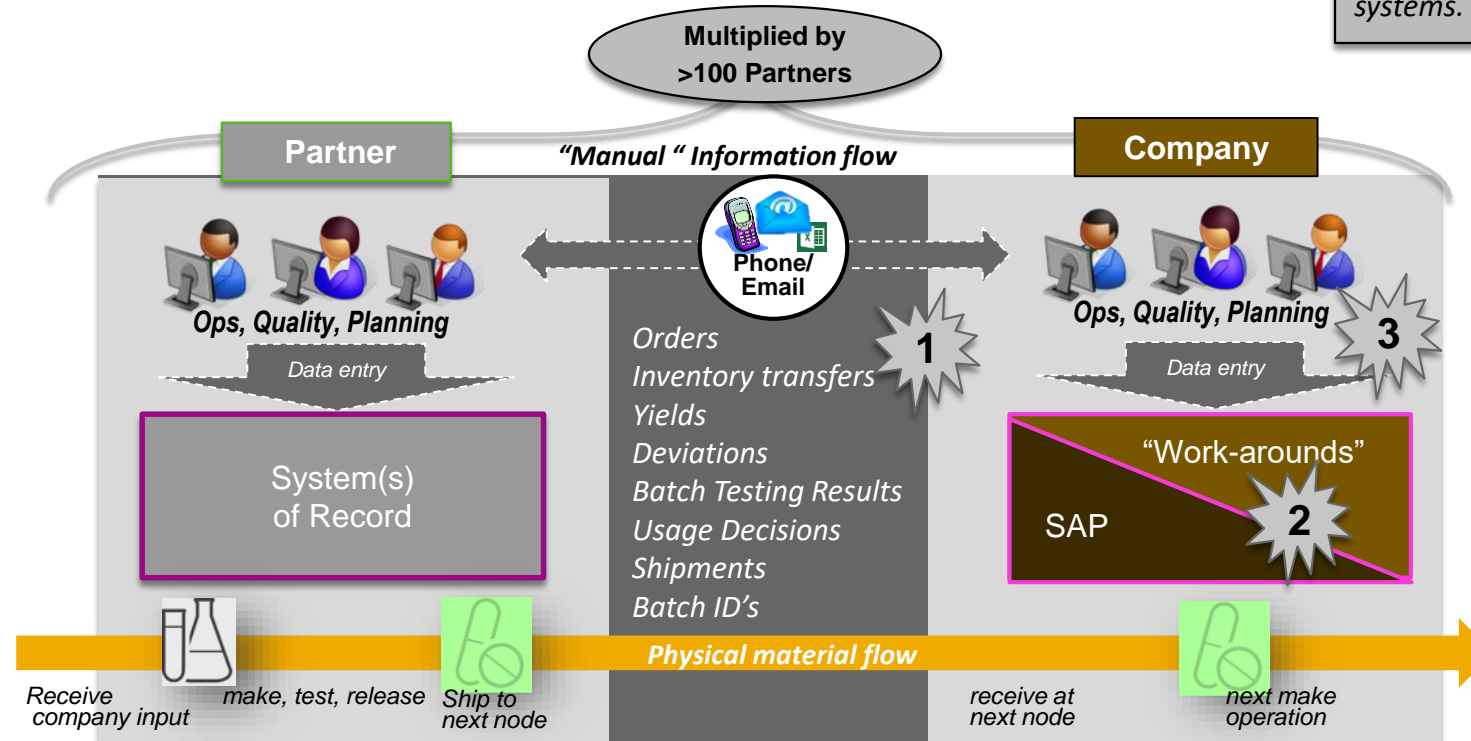
- Enable collaboration with direct materials trading partners
- Complement and extend back-end systems
- Provide instant visibility into availability of supply

\*\* B2B only, UI/upload planned in upcoming releases

# Example: Adopter in Pharma Industry

External manufacturing model dictates that we record all material handling / quality activity for company-owned material at CMO in our internal systems.

## BEFORE



### Most Significant Challenges

- 1 Data exchanged & planning process vary by CMO relationship – (no standard process, work, data)
- 2 SAP **Blueprint** (process + transactions) does NOT support current process - **“Workarounds” have become the process** (lot trace, order status, delivery stats, deviations maintained outside SAP)
- 3 Volume of manual transactions and data entry steadily increasing with ExM Volume and new internal data demands

### Most Significant Impacts

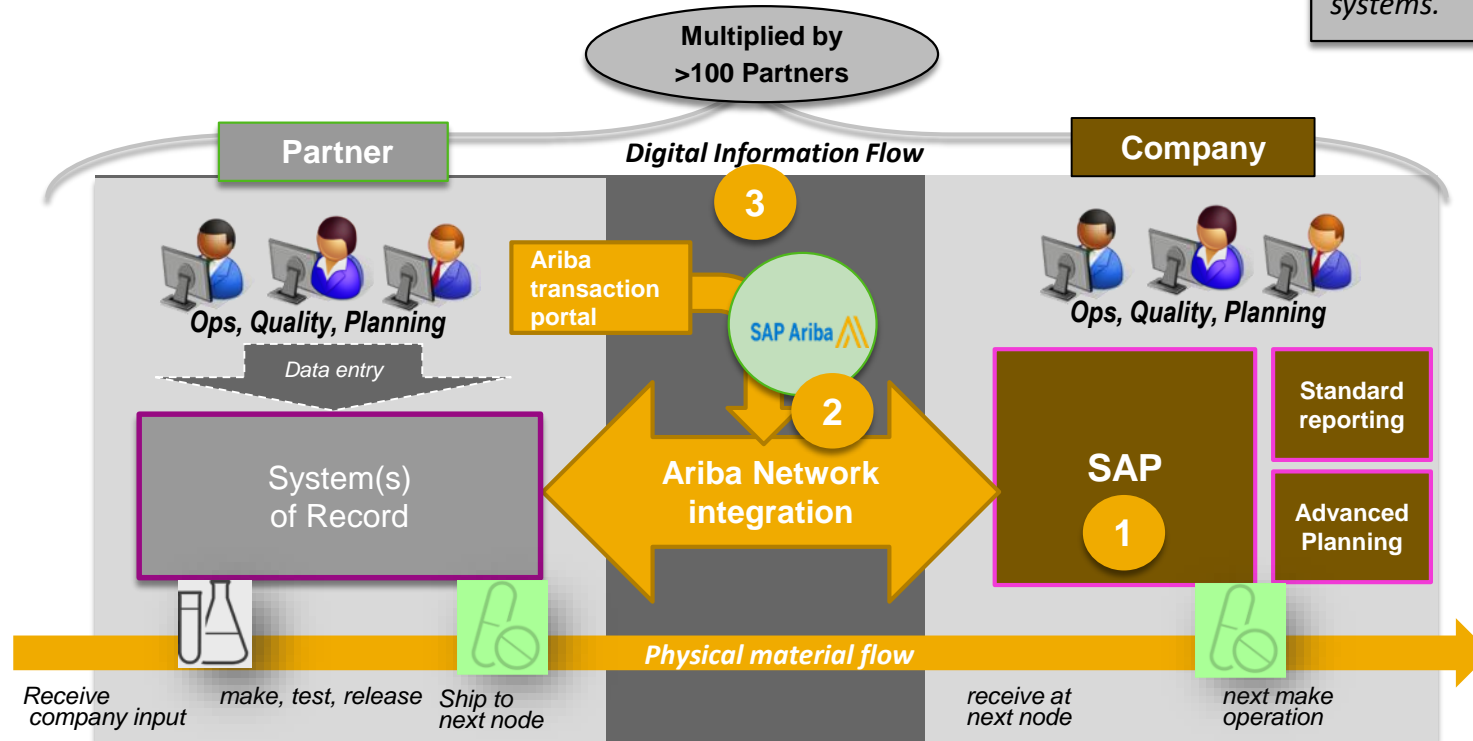
- A **Quality/Compliance** – Impaired ability to utilize standard systems and processes for batch release, deviations - and execute those processes efficiently, effectively.
- B **Reliable Supply** – Transaction delays (backlog, errors) and batch release delays create production delays at the next node. Poor data for risk management reporting.
- C **World Class Supplier** – ExM data quality impacts planning (CMO demand changes, poor forecast), no sufficient input data for integrated planning & analysis



# Supply Chain Improvements

Company's model for ExM dictates that we record all material handling / quality activity for company-owned material at CMO in our internal systems.

**AFTER**



## Program Components

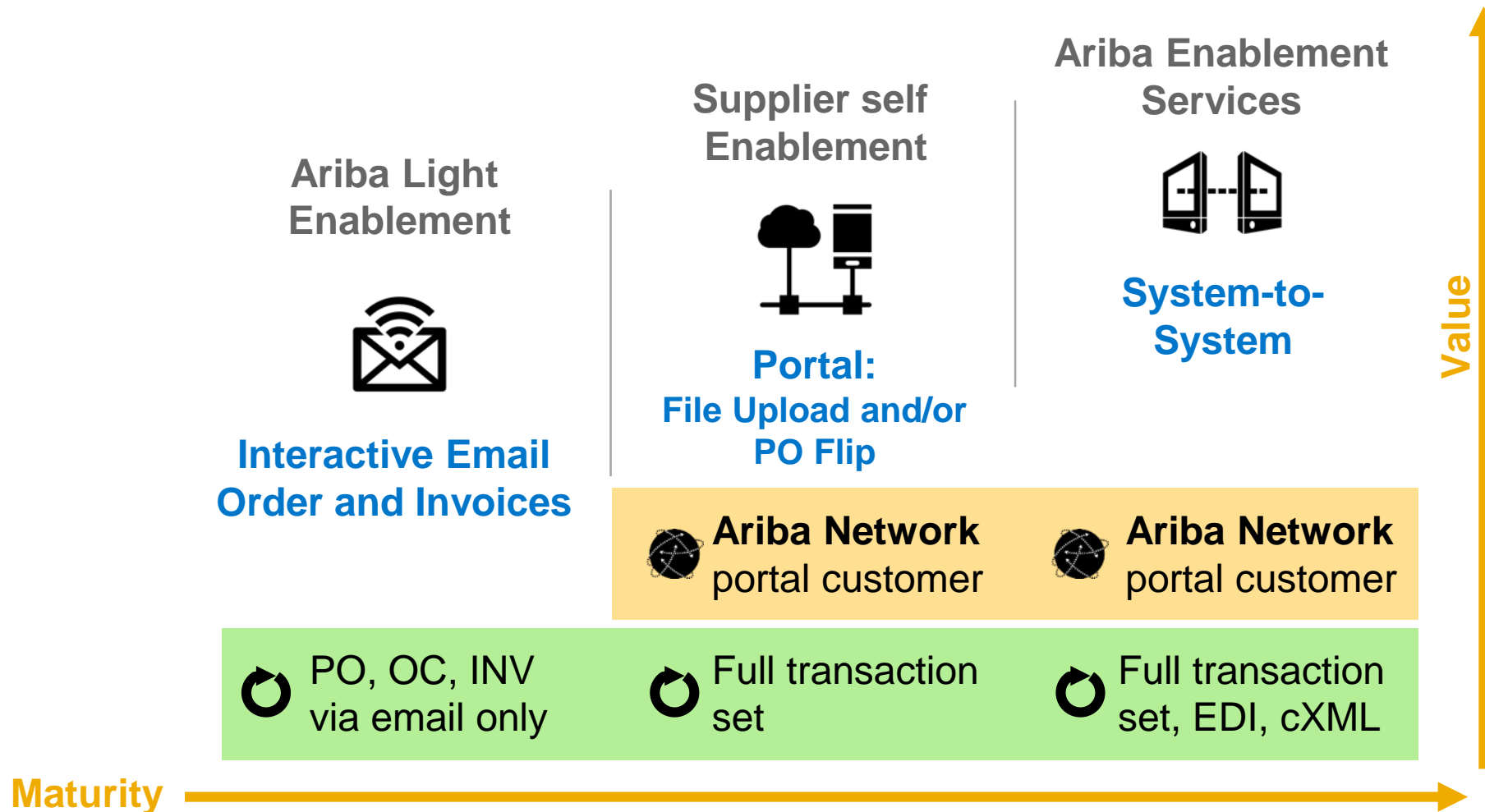
- 1 **Process and System improvement** – SAP Blueprint for ExM/EQA revised for current/ future needs (including Advanced Planning)
- 2 **Leverage Ariba Network**– via Ariba Supply Chain Collaboration (SCC) to automate order, inventory, quality transactions, improve timeliness and quality of information
- 3 **Process Standardization** – As each CMO on-boarded- standard planning cadence, quality process, data expectations established and enforced

## Most Significant Benefits

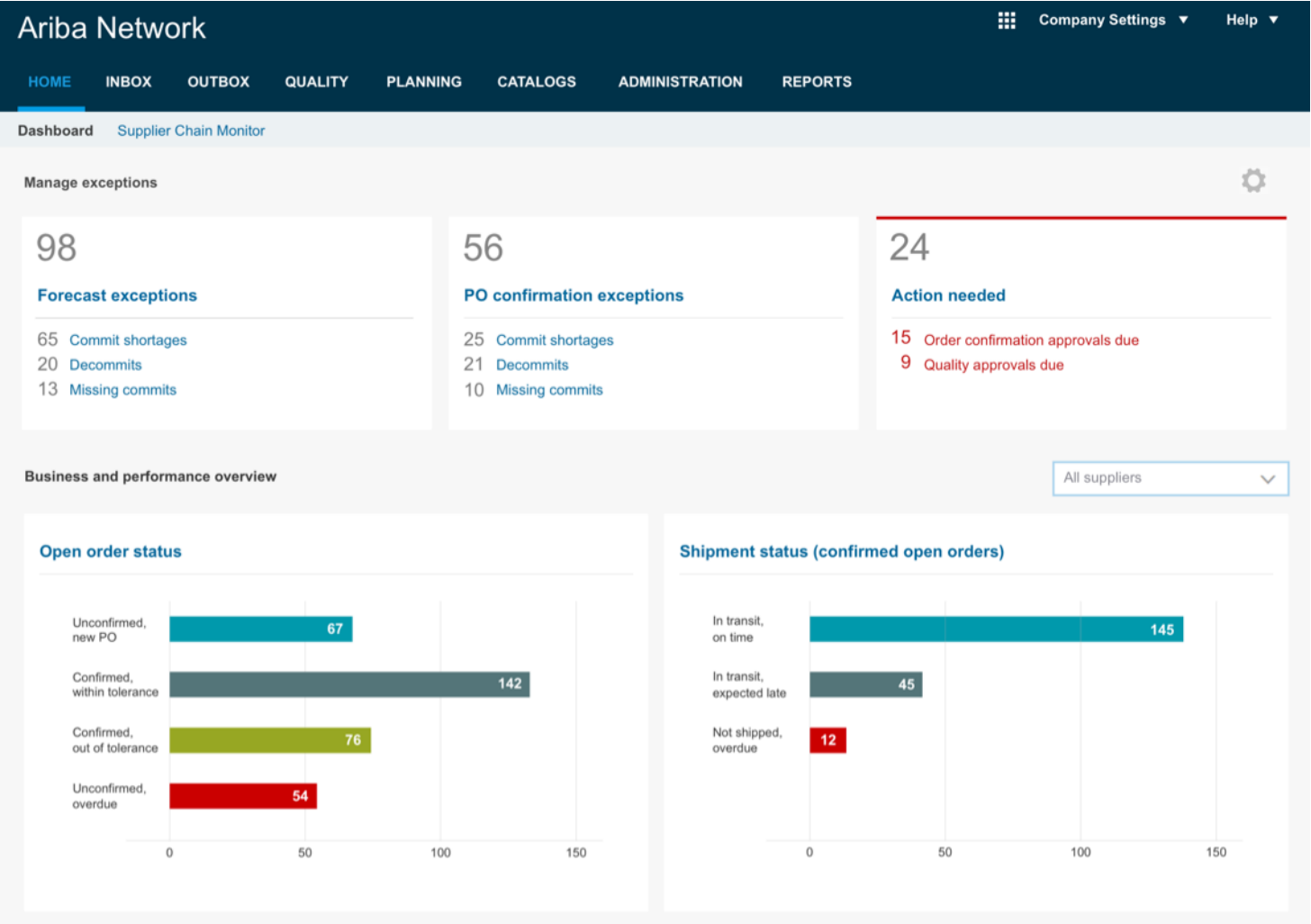
**ENHANCE VISIBILITY**

**IMPROVE EFFICIENCY**      **INCREASE CONTROL**

# SAP Ariba offers suppliers choice on how to collaborate digitally



# Buyer and Supplier Performance Dashboard



24

Action needed

15

Order confirmation approvals due

9

Quality approvals due

Business and performance overview

All suppliers

Open order status

Unconfirmed, new PO

67

Confirmed, within tolerance

142

Confirmed, out of tolerance

76

Unconfirmed, overdue

54

Shipment status (confirmed open orders)

In transit, on time

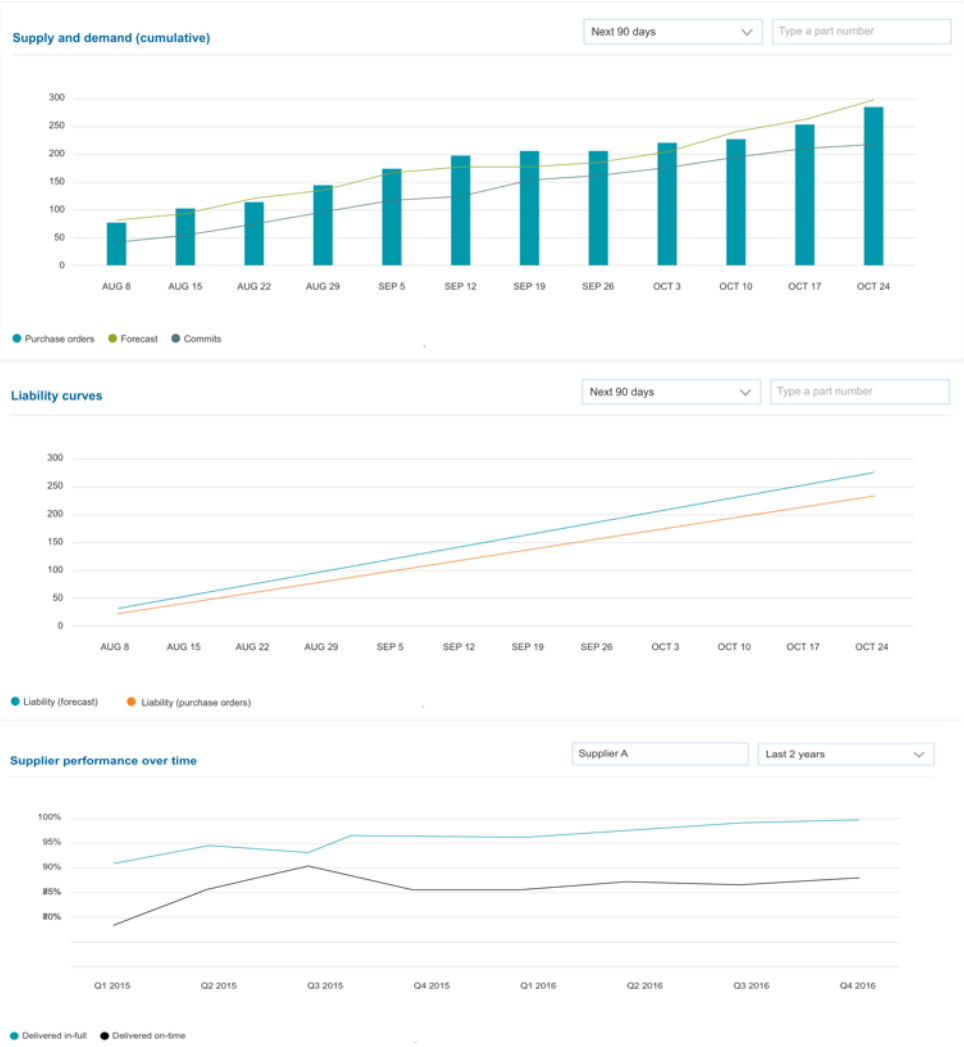
145

In transit, expected late

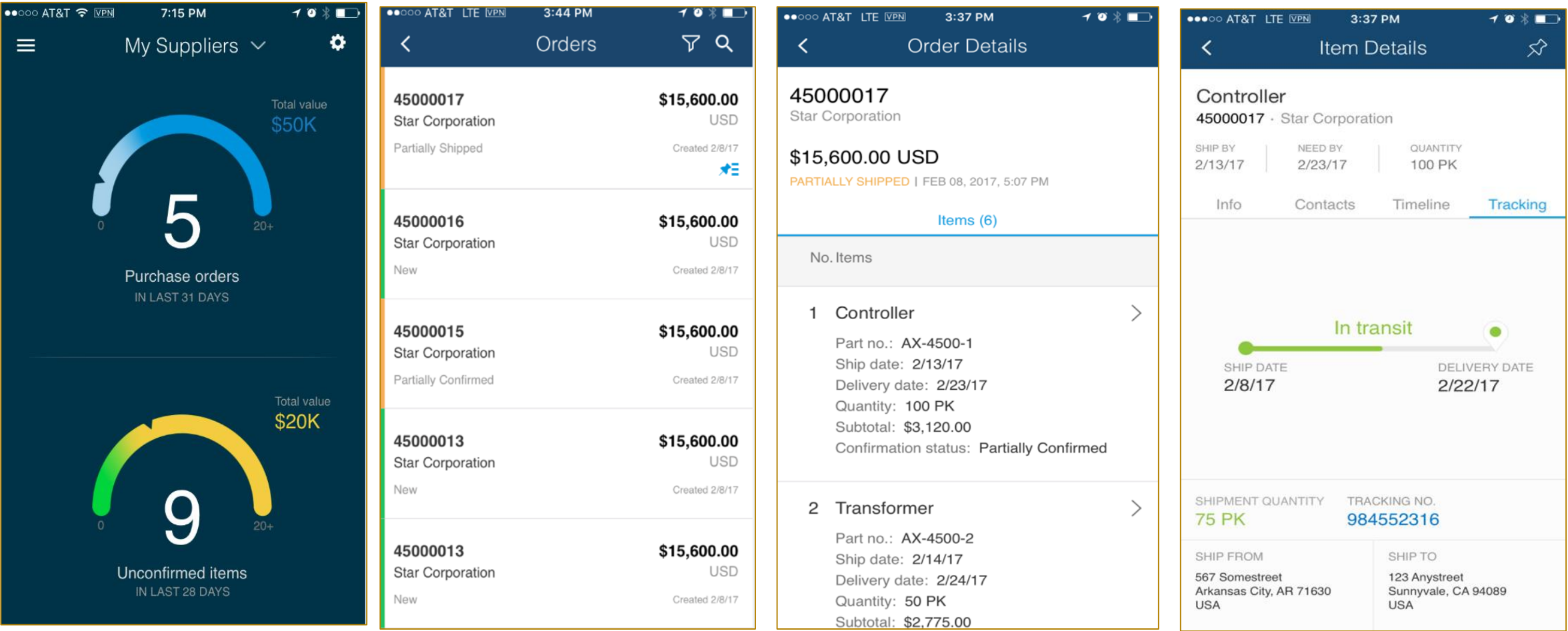
45

Not shipped, overdue

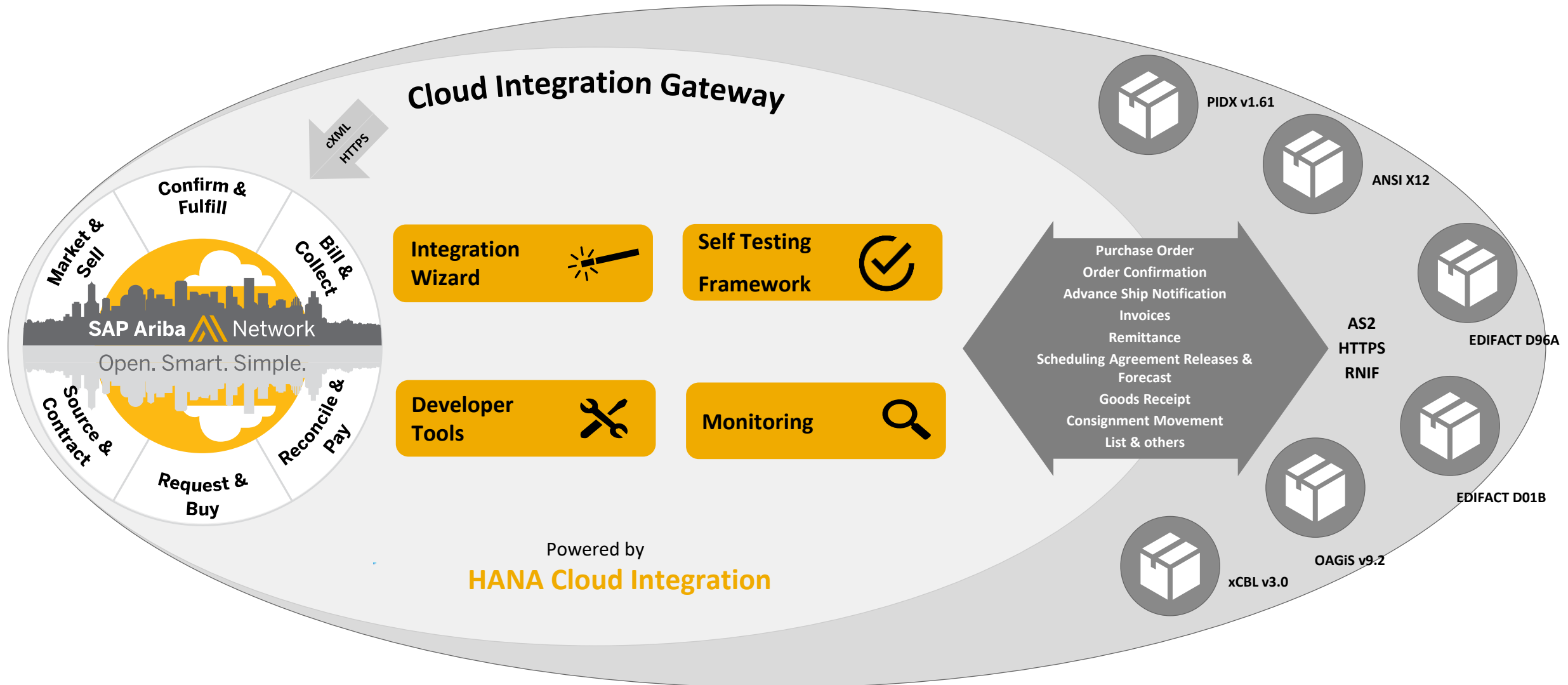
12



# Mobile app for buyers and planners



# What makes Cloud Integration Gateway Innovative





# Digital Transformation Journey



# Thank you



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Please take a few minutes to complete this brief survey.

Survey link:

[www.instituteforsupplymanagement.org/IH17](http://www.instituteforsupplymanagement.org/IH17)

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