



Extending SAP Ariba Solutions with SAP Cloud Platform

Ryad Semichi, Director SAP Cloud Platform Global Go To Market, SAP

ASUG84295

About the Speaker

Ryad Semichi

- Director, SAP Cloud Platform (SCP)
- Extensibility focus areas : **SAP Ariba**, DSC and S/4.
- 20+ years SAP experience, working with Ariba since 2013, joined the SCP GTM team in 2017.

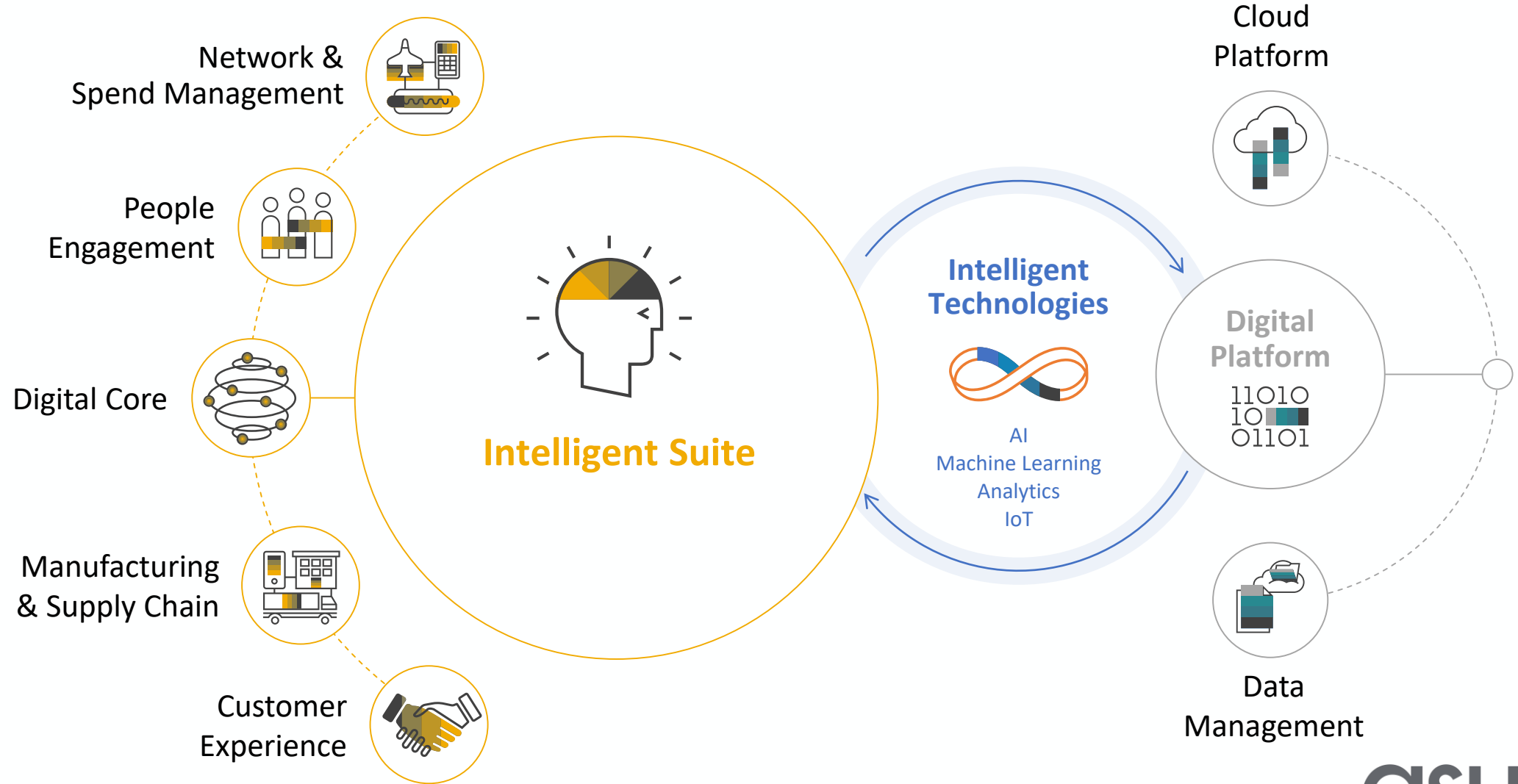
Key Outcomes/Objectives

1. Benefits of a Business Platform. Why SCP?
2. Why extend Ariba with SCP?
3. Big picture: you need to secure every step of your Digital Transformation journey.

Agenda

- SCP is the Business platform of the Intelligent Enterprise.
- Source to Pay and Ariba specific capabilities
- How to build Ariba Extensions on SCP

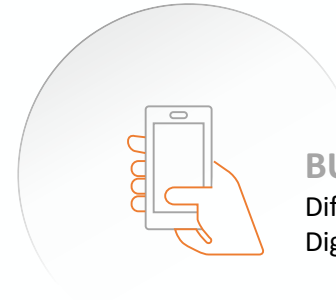
The Intelligent Enterprise



SAP Cloud Platform



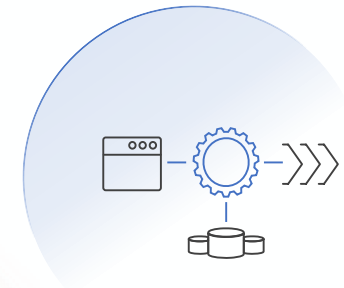
EXPERIENCE
People & Data



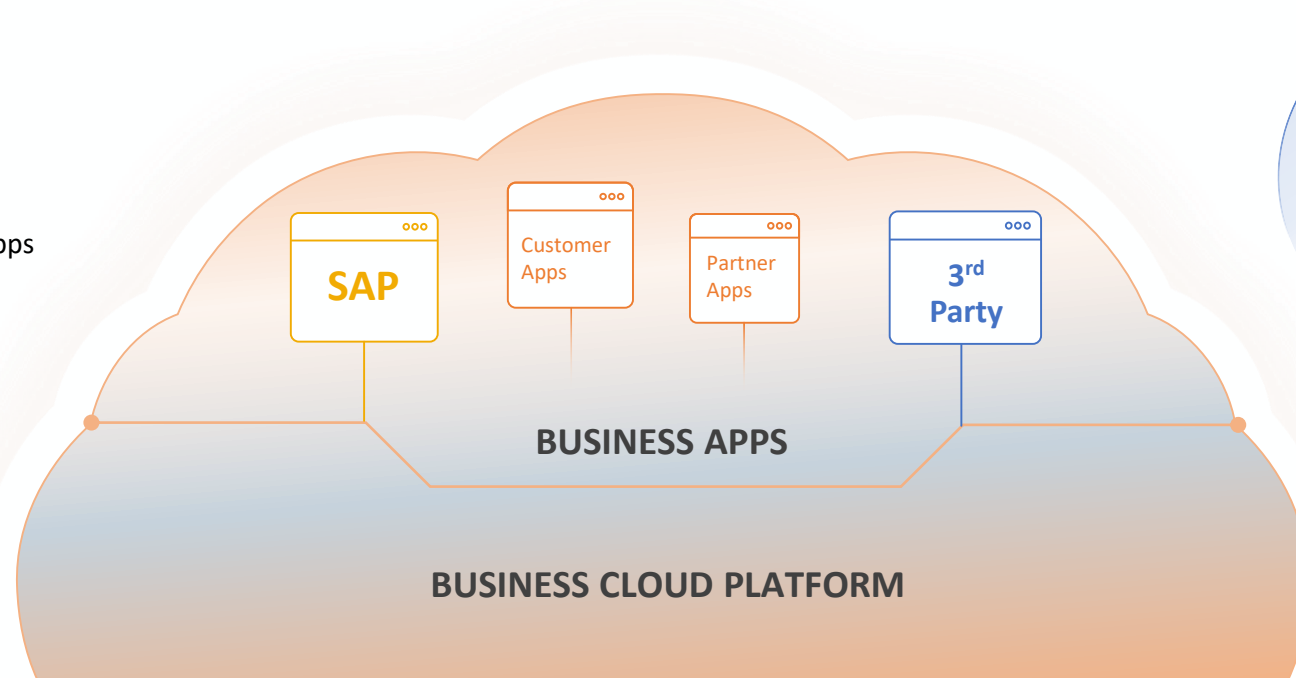
BUILD
Differentiating
Digital Apps



EXTEND
Cloud &
On-Prem Apps



INTEGRATE
Apps, Data
& Processes



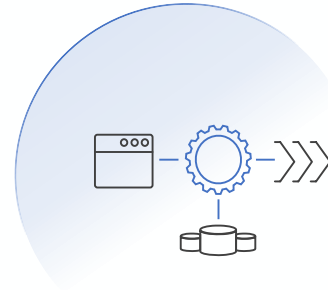
SAP Cloud Platform



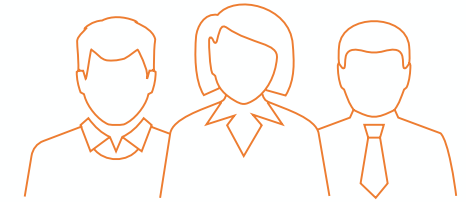
EXPERIENCE
People & Data



BUILD
Differentiating
Digital Apps



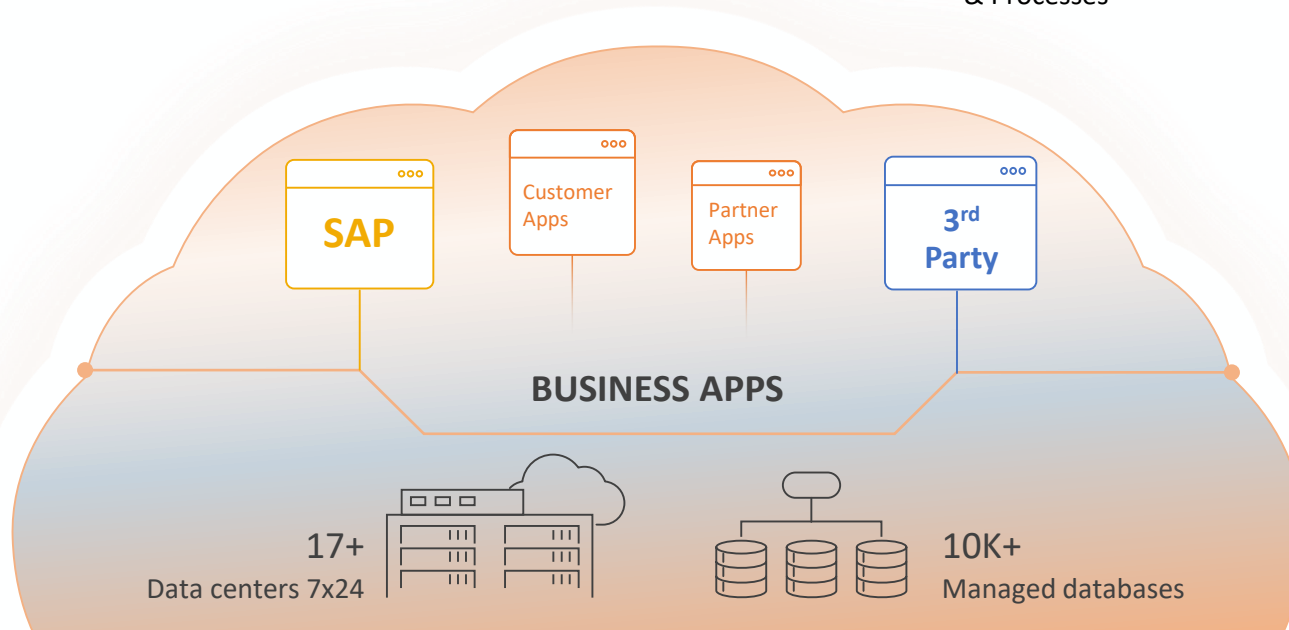
INTEGRATE
Apps, Data
& Processes



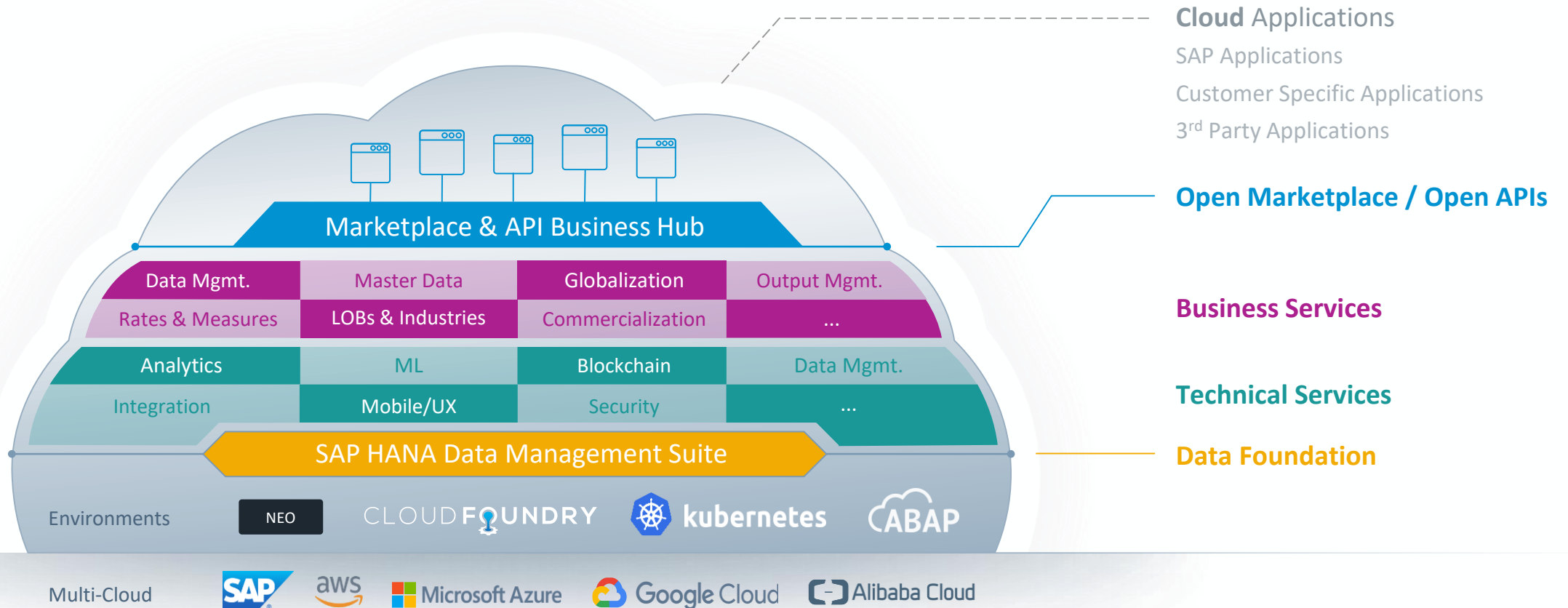
- 12000+** Customers
- +230%** Increase over last 2 years
- 1,300+** Partners with
- 1,500+** Apps on SAP App Center
- 14k** Developers use API Hub
- 5k** Integration customers
- 365k** Trial accounts
- 60k** Live Virtual Machines
- Biweekly** Zero downtime releases



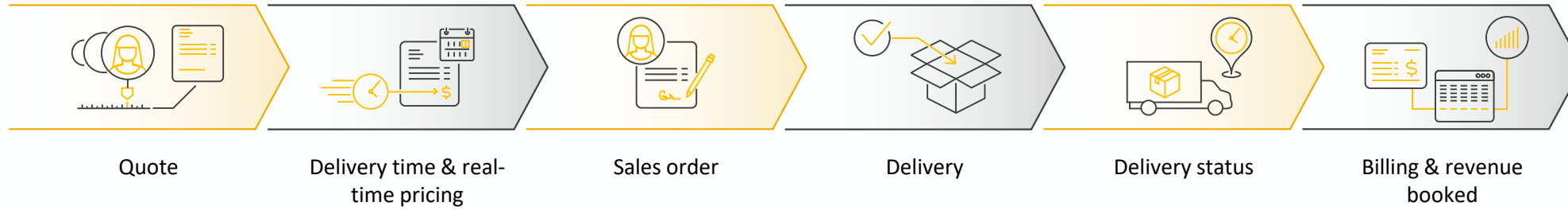
EXTEND
Cloud &
On-Prem Apps









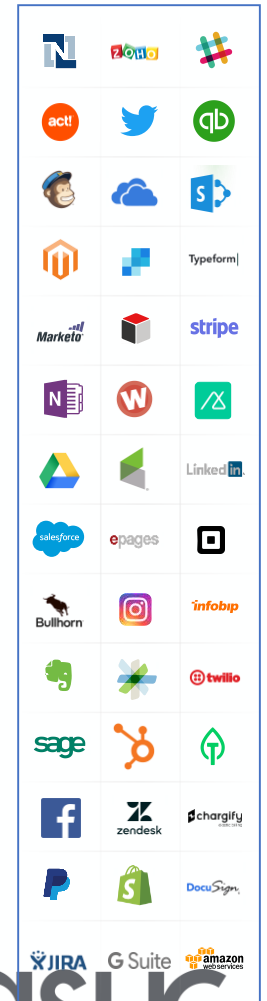
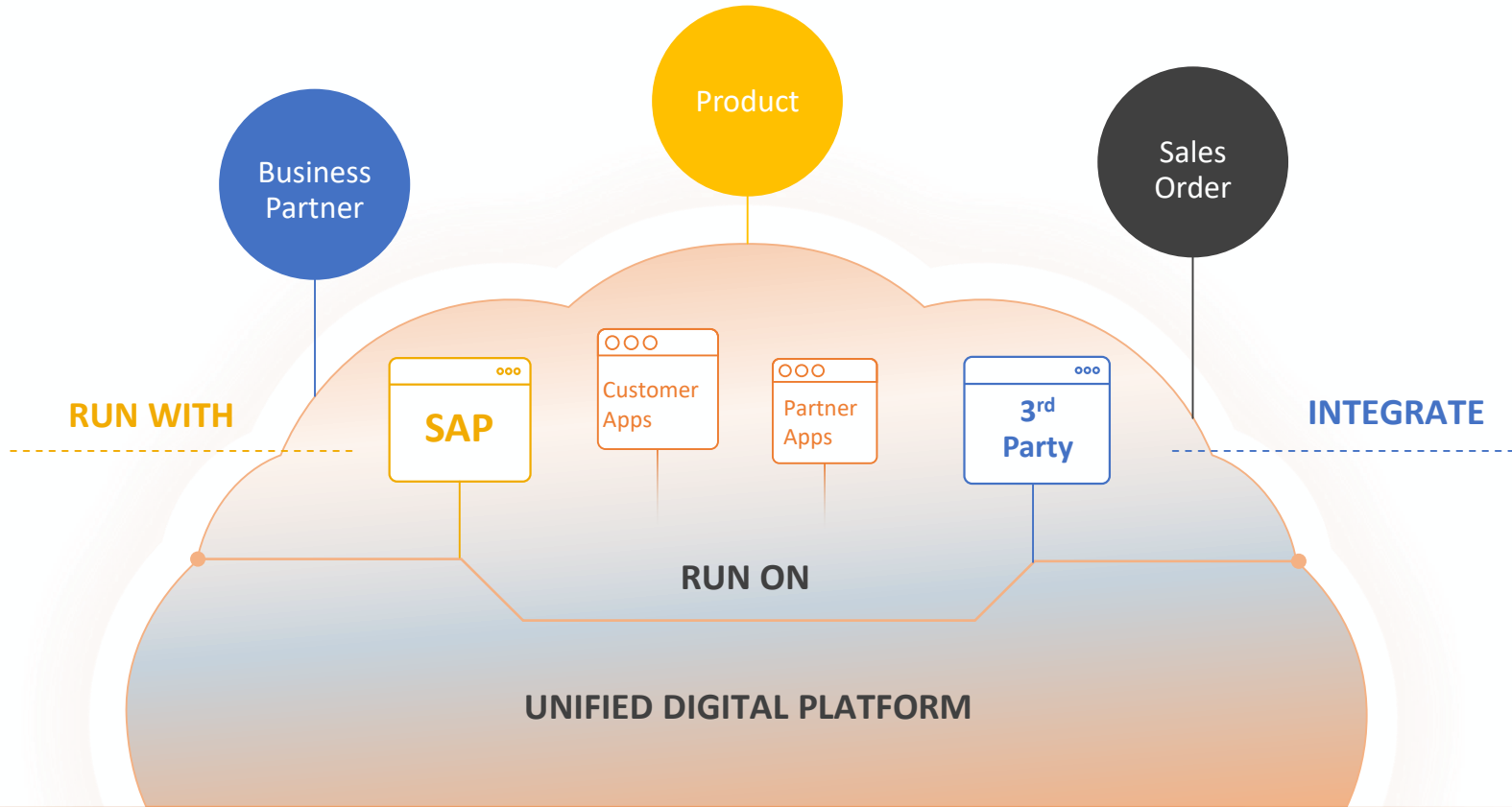
SAP Cloud Platform



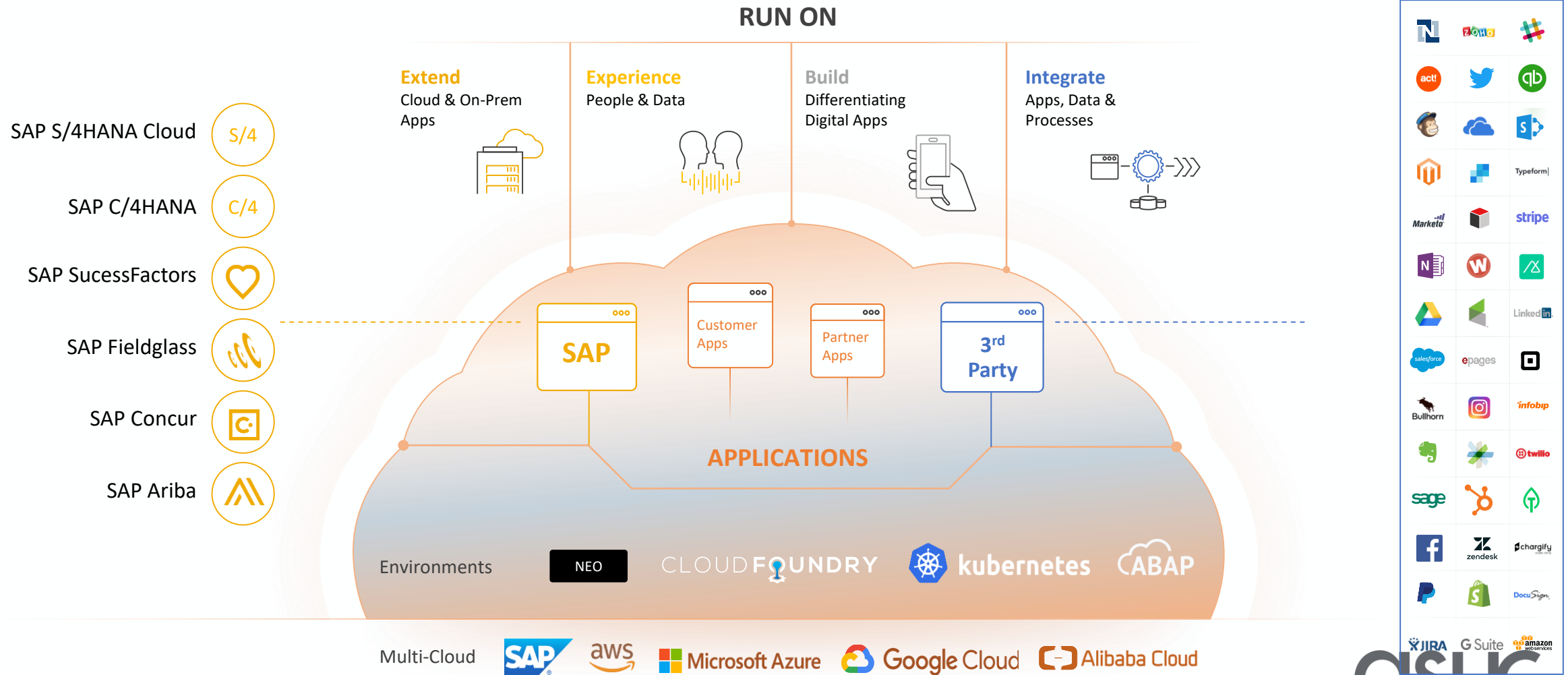
The BIG Picture



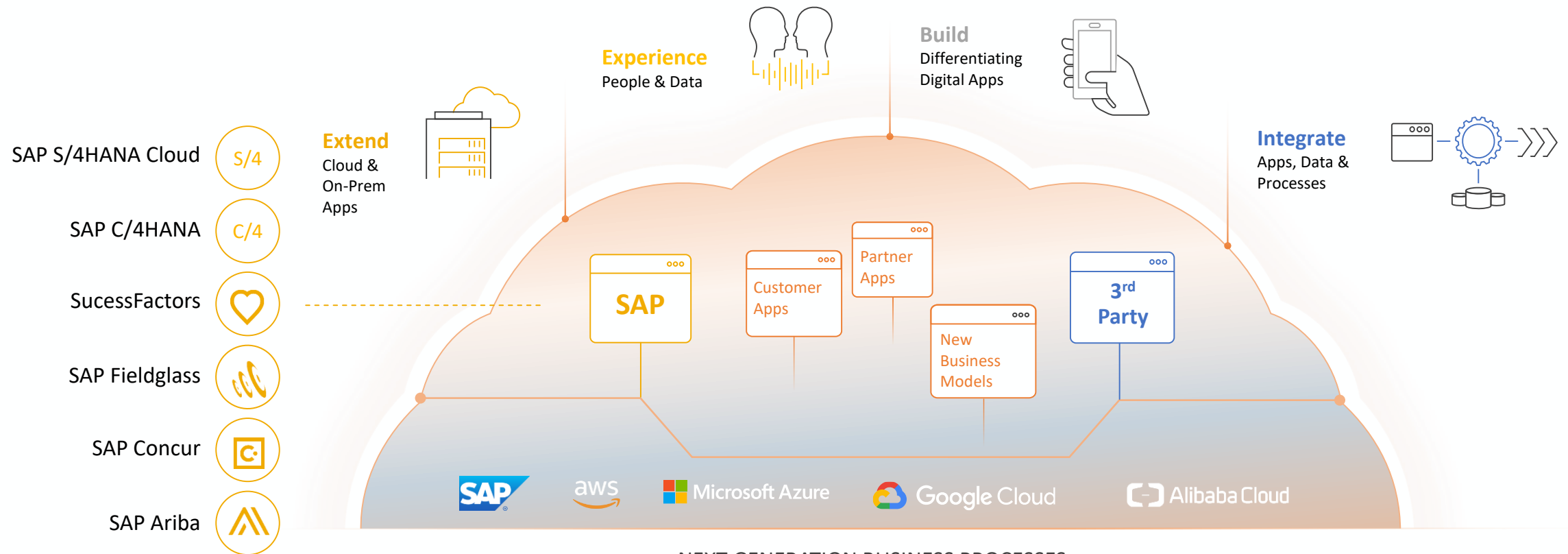
- SAP SuccessFactors 
- SAP S/4HANA Cloud 
- SAP C/4HANA 
- SAP Fieldglass 
- SAP Concur 
- SAP Ariba 



SAP Cloud Platform in Action



The Intelligent Enterprise is more than ERP



NEXT GENERATION BUSINESS PROCESSES
Embedded Intelligence | Harmonized Experience | Unified Integration | Flexible Extension

EFFICIENCY

SPEED OF INNOVATION

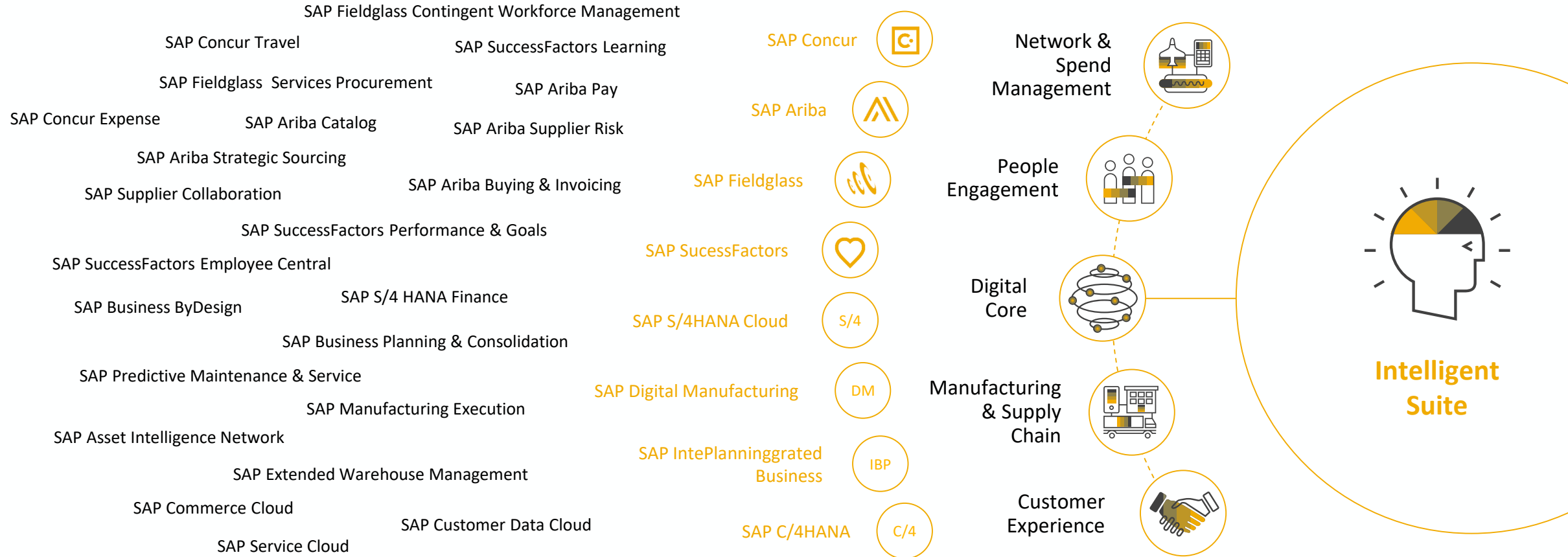
AGILITY



DATA

ASUG

Intelligent Suite



Deliver Intelligence Across Value Chains and Lines of Business

The Intelligent Suite will retain the modularity and flexibility of independent solutions while delivering a unified experience enabled by a standardized integration approach.

Services with SAP Cloud Platform

<https://cloudplatform.sap.com/capabilities.html>



Collaboration

- ✓ Jam
- ✓ Gamification
- ✓ Document center



User experience

- ✓ Build
- ✓ Fiori Cloud
- ✓ Portal
- ✓ Adobe Form
- ✓ Theme Designer



Integration

- ✓ Integration (DI, PI)
- ✓ Workflow
- ✓ Business Rules
- ✓ API Management
- ✓ Enterprise Messaging
- ✓ Cloud Connector
- ✓ Agile Data Preparation
- ✓ OData Provisioning
- ✓ RabbitMQ



IoT

- ✓ IoT
- ✓ Streaming Analytics
- ✓ Remote Data Sync
- ✓ IOT Application Enablement



Analytics

- ✓ Predictive
- ✓ Streaming Analytics
- ✓ Advanced analytics with SAP HANA
- ✓ SAP Analytics Cloud
- ✓ Agile Data Preparation



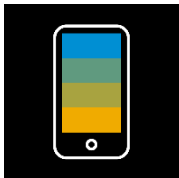
Machine learning

- ✓ Image Processing
- ✓ Natural Language Processing
- ✓ Tabular and Time-Series Processing



Security

- ✓ Cloud App Security
- ✓ Identity Authentication
- ✓ Identity Provisioning



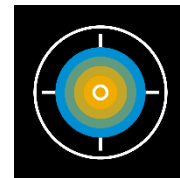
Mobile

- ✓ SDK for iOS
- ✓ Mobile Development and Operations
- ✓ Mobile App and Device Management
- ✓ Mobile service for SAP Fiori



Data and storage

- ✓ HANA
- ✓ Big Data - Hadoop
- ✓ ASE
- ✓ Document Service
- ✓ PostgreSQL
- ✓ MongoDB
- ✓ Object Store (S3)
- ✓ Redis



Business services

- ✓ Hybris as a Service
- ✓ Localization Hub, tax service



DevOps

- ✓ Web IDE
- ✓ Monitoring Service
- ✓ Translation Hub



Runtimes and container

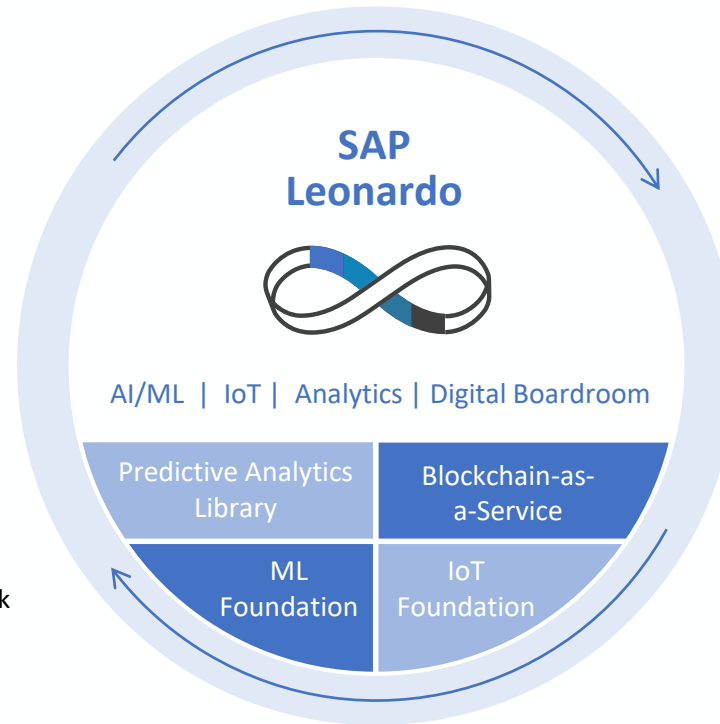
- ✓ Cloud Foundry services
- ✓ Virtual Machines
- ✓ Programming Models (Java, XSJS, HTML5, nodeJS, XSC/XSA)
- ✓ Use your favorite language (Buildpacks)

✓ **ABAP in SCP***

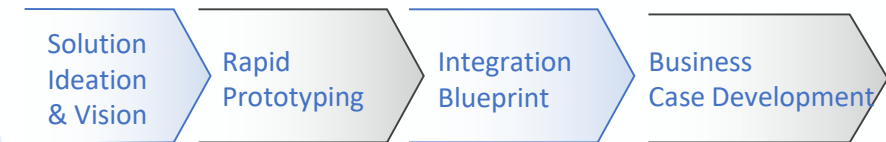
Intelligent Technologies

SAP Core Applications Leonardo embedded

- SAP Intelligent Cash Management
- SAP Service Ticket Intelligence
- SAP Brand Intelligence
- SAP Customer Retention
- SAP Resume Matching
- SAP Global Track & Trace
- SAP Predictive Engineering Insights
- SAP Vehicle Insights
- SAP Manufacturing Execution
- SAP Asset Intelligence Network
- SAP Predictive Maintenance & Service



Industry Accelerators Industry-led Design Thinking Methodology



- Discrete Manufacturing Logistics & Spare Parts
- Discrete Manufacturing Service & Assets
- Chemicals Spare Parts
- Chemicals Service & Assets
- Utilities Service & Assets
- Consumer Products Assets & Logistics
- Travel & Transport Logistics
- Retail Assets & Logistics

SAP Leonardo Everywhere

Drive rapid and continuous innovation with SAP Leonardo – combines intelligent technologies and services.

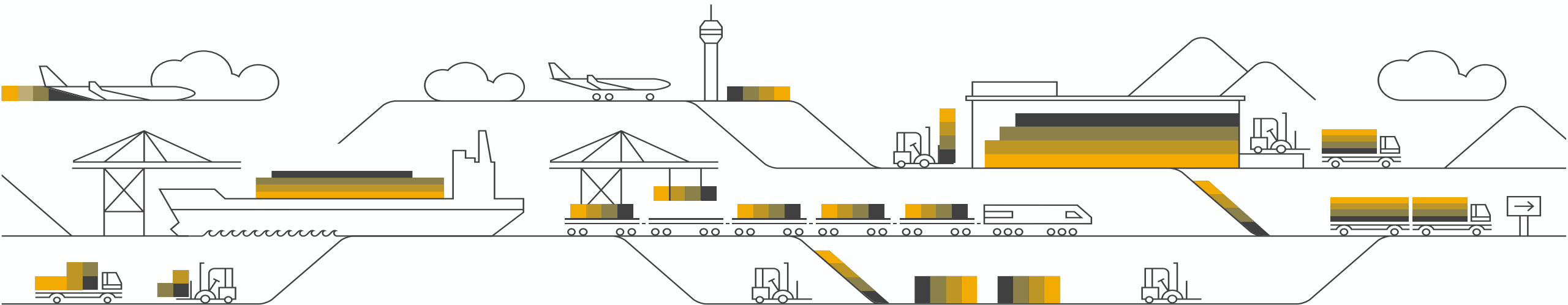


Source to Pay



SAP Ariba and other solutions will be needed to cover all requirements:

SAP S/4 HANA + Integrated Business Planning + SAP Digital Manufacturing + SAP Fieldglass + SAP Concur + SAP Leonardo + SAP Analytics Cloud + SAP Sourcing Simulation and Optimization + **Non-SAP...**



SAP Ariba SOURCE-TO-SETTLE PORTFOLIO

SUPPLIERS — ORDER TO CASH

ARIBA NETWORK











SOURCE

PLAN

PROCURE

PAY

OPEN PLATFORM

SLP and Risk	Spend Visibility	Collaborative Sourcing	Contract Management	Forecast and Scheduling	Inventory Collaboration	Procurement	Order Execution	Invoice	Cash Management
 Registration and On-Boarding Diversity and Green Certs Risk Management Surveys Scorecards Performance	 Spend Classification Category Management Enrichment Services Market Intelligence D&B Insight Spend Analytics	 Supplier Discover Strategic Sourcing Reverse Auctions Knowledge Repository Optimization Article Pricing Lead Time	 Award to Contract Workflow Authoring Repository Lifecycle Notifications Redlining E-Signatures	 Forecast sharing Forecast Commit Exception Management Scheduling Agreements Releases	 Inventory Visibility Consignment Collaboration Supplier Managed Inventory (SMI) Quality Collaboration	 Material and Services Catalogs Spot Buy Robust Approval Workflows Guided Buying Workbench Request Quotes	 Mobile Ordering Confirmations Advanced Ship Notice Goods Receiving Rate Card Management Returns	 PO Flip Invoice Automation Intelligent Invoicing Service Entry Sheets ERS Tax Service	 Terms Management DPO Extension Early Pay Discounts Supply Chain Financing Receivables Fin Electronic Payment

CUSTOMER VALUE SERVICES

BUYERS — SOURCE TO SETTLE

SAP ARIBA SOURCE-TO-SETTLE VALUE LEVERS

SUPPLIERS — ORDER TO CASH

ARIBA NETWORK

OPEN PLATFORM

CUSTOMER VALUE SERVICES

SOURCE

PLAN

PROCURE

PAY



4-15%
average Unit Price
Reduction



\$20M
contract leakage
per \$1 billion of spend



4-12% lower days in
Inventory **5-15%**
Inventory
write-offs



13 - 36%
lower rev loss due
to stock-outs



4-15%
average Unit Price
Reduction



\$20M
contract leakage
per \$1 billion of spend



\$1-2M
savings per
\$1 billion of target



40-50%
operating cost reduction
(Process Efficiency)

BUYERS — SOURCE TO SETTLE

The Art of the possible



Configuration

- Modify a behavior of an existing feature **using predefined, out-of-the-box settings**
- Does not need any additional coding or designing of UI pages
 - A toggle, parameters, or settings on a configuration page
- Backward-compatible and safe

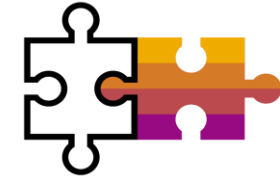
SAP Ariba 



Customization

- Use existing functionality to create new capabilities **inside** the application
- Does not require coding, but may require
 - Designing UI pages, creating new fields, creating new flows
- Backward-compatible and safe

SAP  Cloud Platform

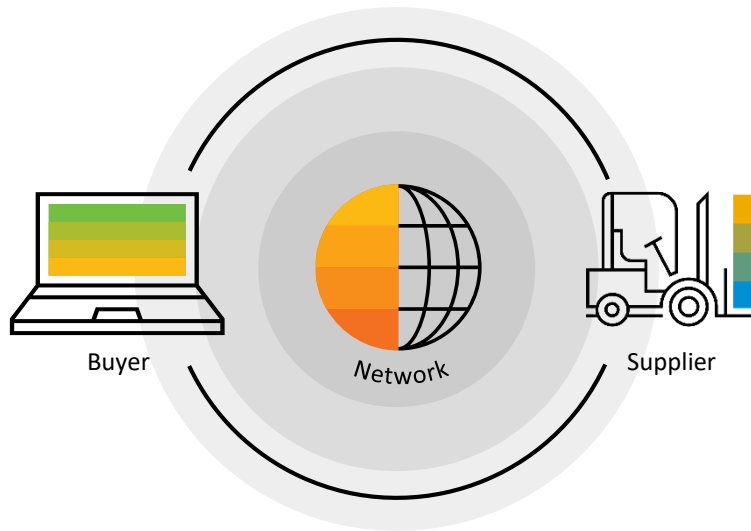


Extensibility

- Supplement SAP Ariba solutions to add capabilities **outside** of the application
- Most likely will require some development
 - Leverage Ariba delivered APIs
- Backward-compatible and safe

Ex: SUPPLY CHAIN BUSINESS COLLABORATIONS — PLAN

- Forecast 1
- SMI SA
- Demand / Inventory / Min-Max Levels 2
- Goods Receipt Notice
- Return PO
- Return Ship Notice
- Goods Return Posting
- Consignment PO
- Consignment Withdrawals
- Subcontracting PO
- Component Ship Notice
- Component Inventory Overview 10
- Scheduling Agreement Release (LPA/LP and with item categories 'K'/L')
- Transport Request
- Quality Notification Request
- Quality Inspection Request
- Quality Review Document 3



- Forecast Commit
- Supplier Forecast 3
- Supply Upside
- Planned repl. notification 1
- Advance Ship Notice
- Goods Receipt
- Component receipt
- Component Consumption 4
- Manufacturing Visibility
- Transport Confirmation
- Quality Notification Response 2
- Quality Inspection Response

26 Collaborations

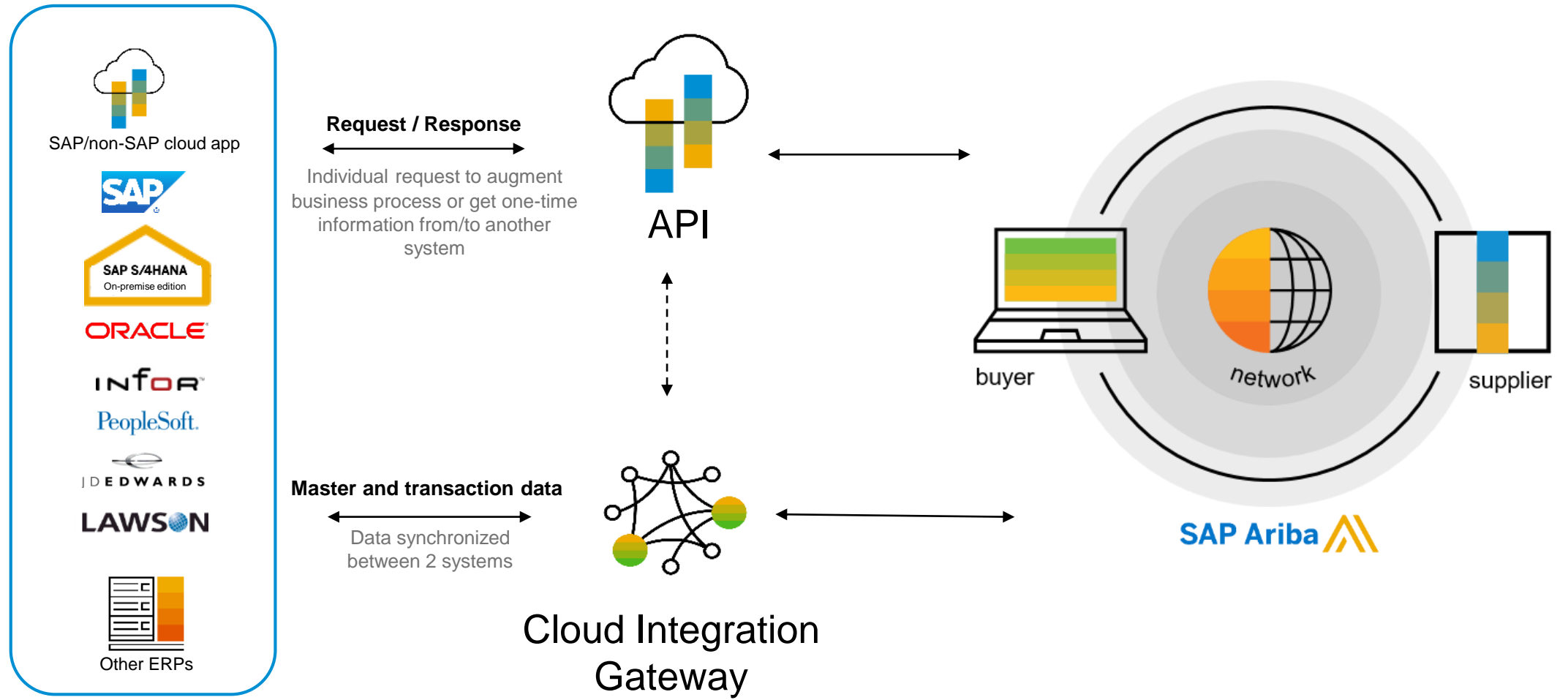
- Order
- Forecast
- Quality
- Inventory

*additionally Procurement Collab.

10 Procure **13** Pay



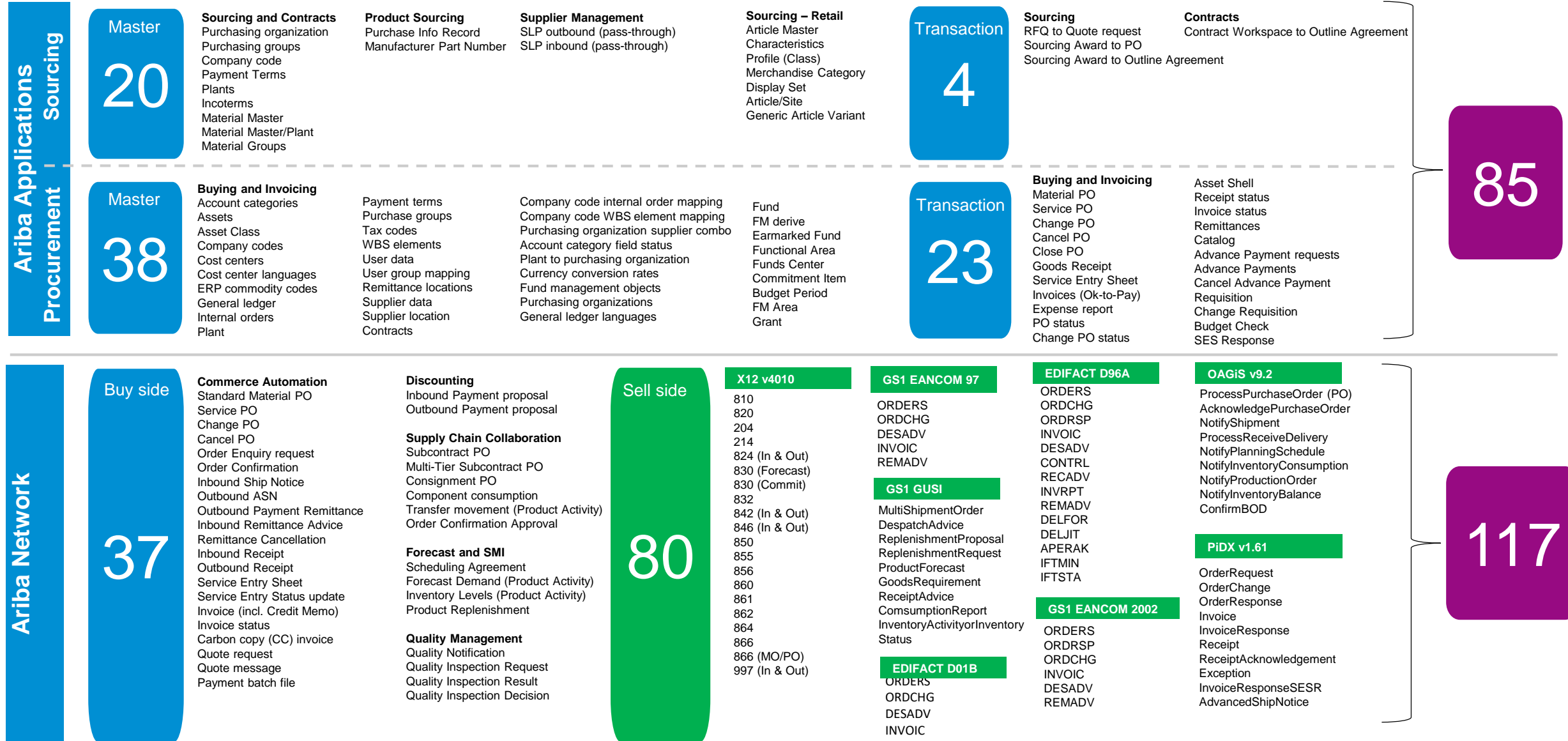
Simplified integration experience with SAP Ariba solutions



SAP ARIBA — STANDARD INTEGRATIONS — 200+

122= SAP ERP and S/4 HANA On-Premise

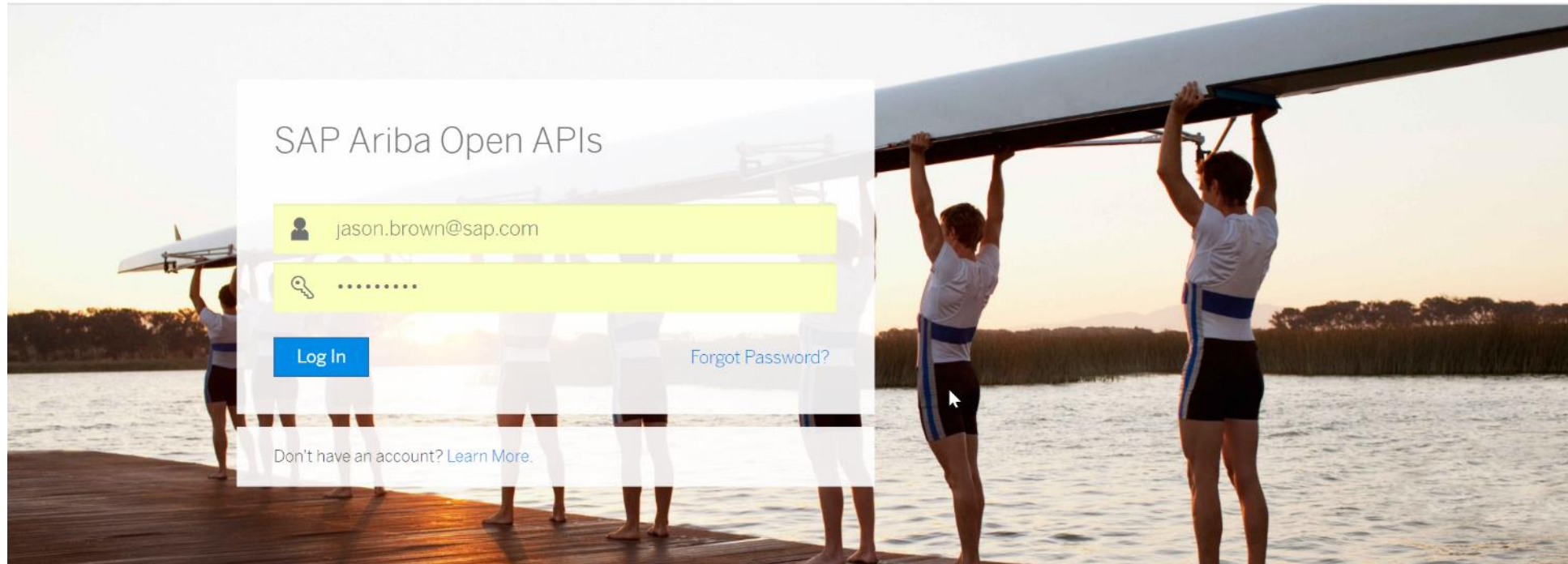
80 = Other Formats – Network Sell side



Developer Portal



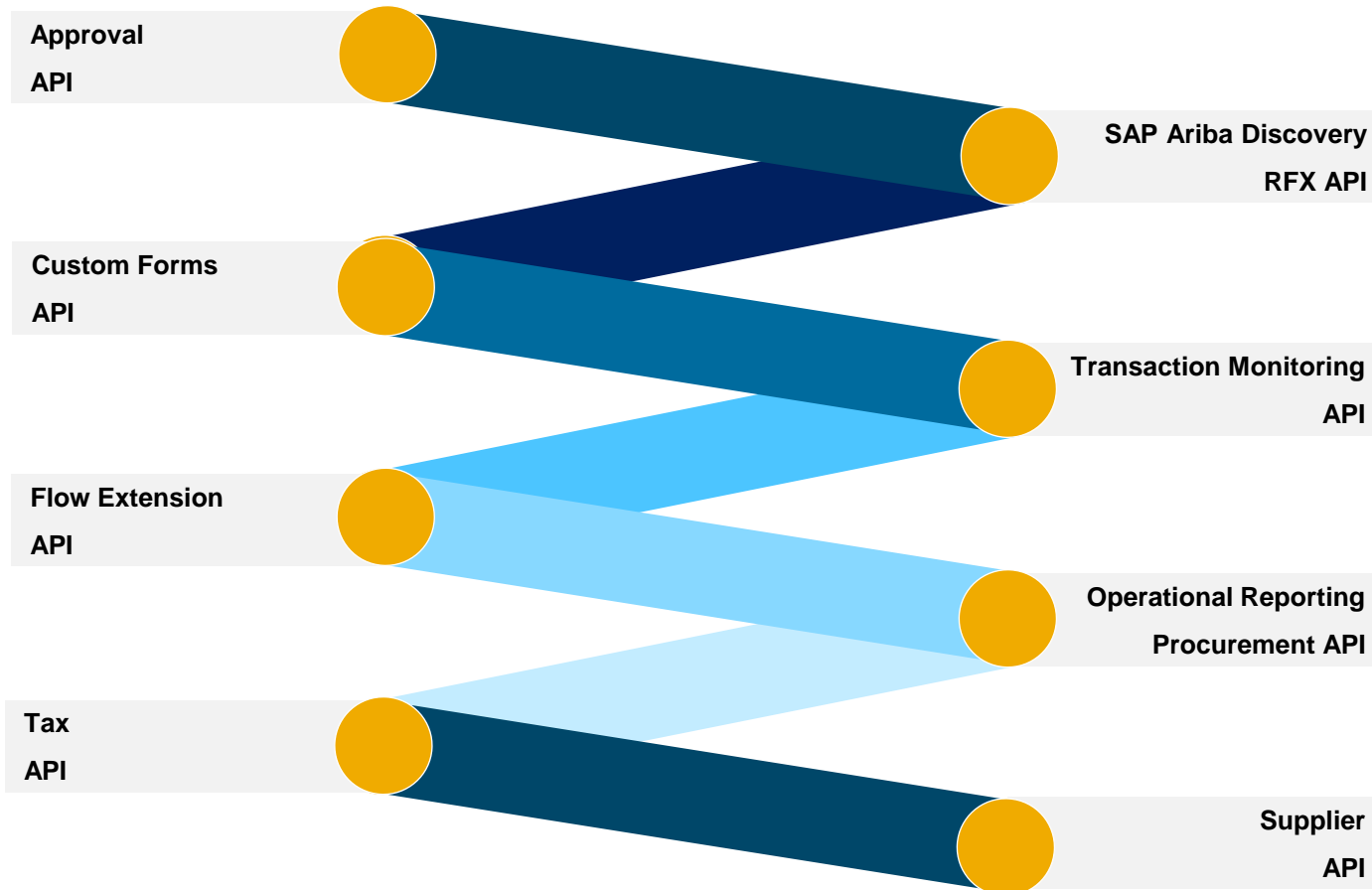
Contact Us



Build powerful domain specific applications to address your customer needs using a rich environment and user friendly tools offered by SAP Ariba.

SAP Ariba APIs

- Create and use an external application to obtain **approval, denial, and comments** on PR and invoices generated in an SAP Ariba Procurement solution
- Systematically or by presenting the **approval task** to one or more approvers
- Enables your application to get **custom forms document information** or data for reporting or sending to an external ERP system.
- **Enrich processes and documents** (including PO, invoice, ASN, OC, and receipts in Ariba Network with information external to SAP Ariba)
- Use **third-party tax data providers** to obtain **tax calculations** for PO and invoices in the SAP Ariba Buying, SAP Ariba Buying and Invoicing, and SAP Ariba Invoice Management solutions

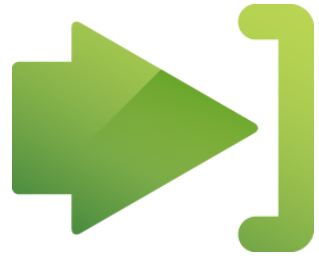


- **Publish** SAP Ariba Discovery events to Web sites / marketplaces to increase number of bidders
- **Publish** RFX events from a marketplace on SAP Ariba Discovery
- **Monitor** supply chain collaboration transactions across Ariba Network
- High visibility and traceability
- **Retrieve** header, line item, and other details for transactions (such as PR, PO, INV, IR)
- Access supplier data on a read-only basis for integration to a 3rd-party tool
- Example: get a list of all suppliers with registered/qualified/preferred status for a category, region, and BU

SAP Cloud Platform – extension scenarios

Use Case	Description	API Used
India waybill localization	In India, when goods are transported across state lines, there needs to be a waybill issued by the government that is provided by the transporter.	SAP Ariba APIs – Partner Flow Extension
Public RFx	In some regions, when an organization needs to source, it is required that its sourcing events are made public. Next evolution of the scenario is to enable connectivity through SAP Cloud Platform to enable third-party tendering sites to tender offers.	SAP Ariba API – SAP Ariba Discovery RFX Publication to External Marketplace
Requisition using SAP Ariba and Amazon Alexa	This is a Web application running on SAP Cloud Platform that demonstrates the consumption of a procure-to-pay API for purchasing requisitions using Amazon Alexa virtual assistant. It extends SAP Ariba solutions supporting the procure-to-pay process.	SAP Ariba API – SOAP Web Services to catalog item search, import requisition(s)
Real-time track and trace	This enables real-time track and trace of shipments.	SAP Ariba API – Flow Extension-ASN
Generate barcode based upon <ul style="list-style-type: none"> ▪ PO ▪ Goods receipt 	This allows the buyer to generate barcodes that would be attached to ASN, allowing the supplier to attach the barcode to the shipment. Once the goods are received, the buyer could just scan the barcode and have it update the GRN, whether that be an ERP system or other.	SAP Ariba API – Flow Extension-ASN
Integration with ServiceNow and unified worklist	This scenario allows a user to create a service catalog request within ServiceNow. Using the SAP Cloud Platform Integration service, this information is used to create the purchase requisition within SAP Ariba.	SAP Ariba API – PR Approval

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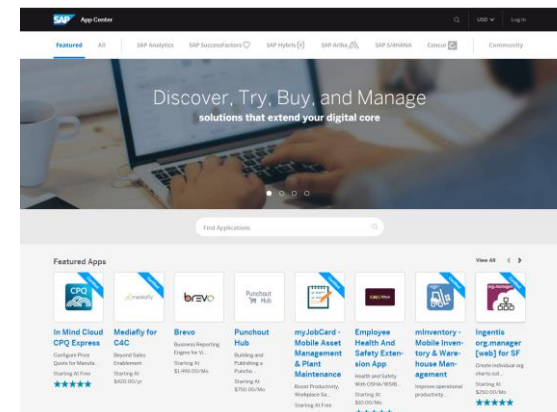
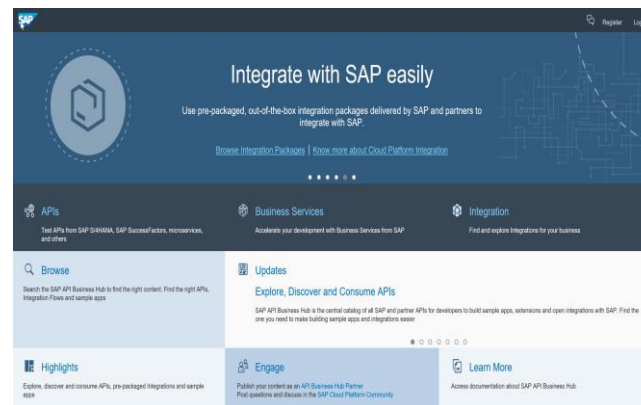
Find a Partner App!

Visit sapappcenter.com



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Contact your SAP Account Executive



Summary

- SCP is the business platform where you extend all LOB applications.
- Best of both worlds: run SAP best practices and extend to your own specific needs in the public cloud on a single data model.
- Partner apps (incl. those developed by your own IT dept) will be more easily deployed and consumed.

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Presentation Materials

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<http://info.asug.com/2019-ac-slides>

Q&A

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