



# *Master your digital transformation with* **SAP S/4HANA**

Roland Hamm, SAP SE  
February 2019

PUBLIC

# Disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.

This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP's intentional or gross negligence.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary

## APPENDIX

- Recommended links to further information

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary

## APPENDIX

- Recommended links to further information



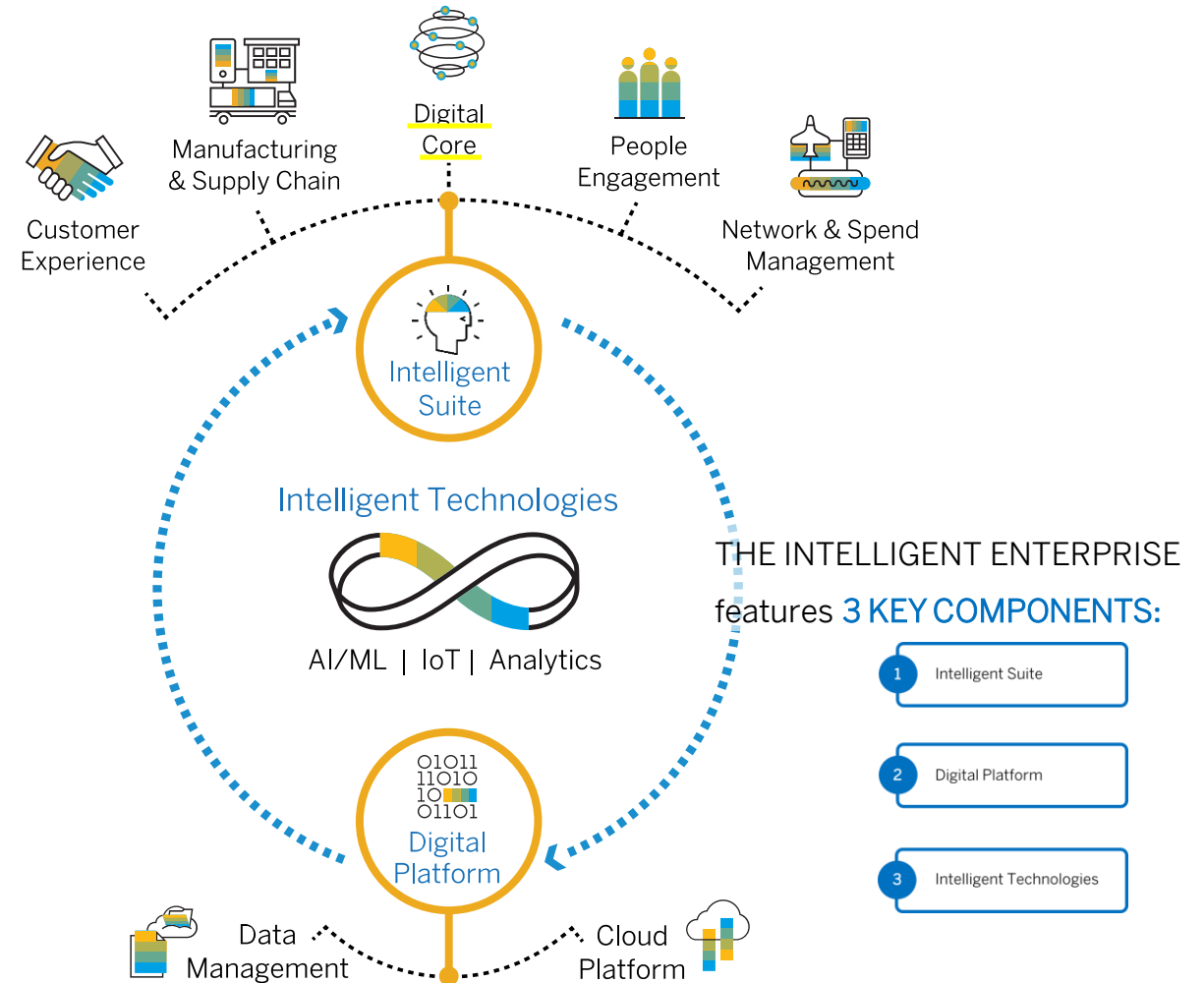
# Things are different with SAP S/4HANA ...

## SAP S/4HANA Enterprise Management is SAP's next-generation digital core

- Innovative in-memory database
- New architecture and new data models
- Renewed applications
- New UI technology (Fiori)
- Cloud & on-premise deployment models
- Natively integrated

→ **SAP S/4HANA is a new product line.**  
**It enables you to consume those innovations which can improve your business processes to run best in a modern economy.**

The classical SAP Business Suite incl. SAP ERP is a separate product line and will still be available.

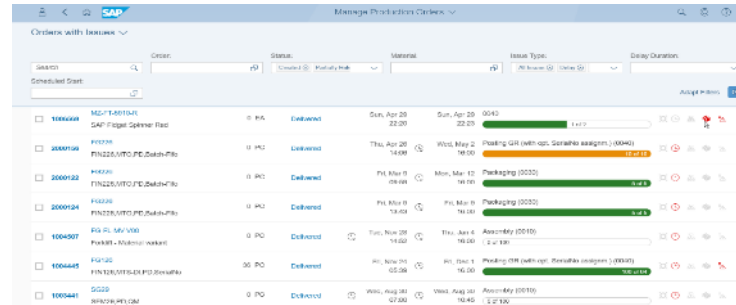


# S/4HANA will run your business different than before

On any device



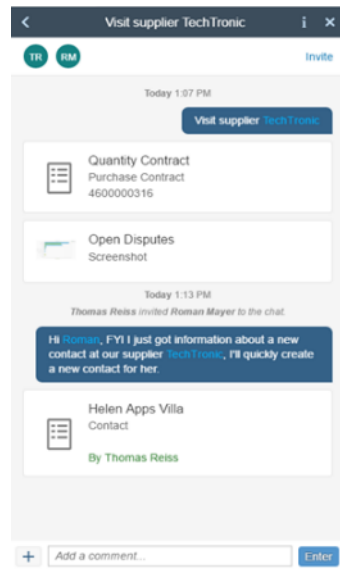
Use Cockpits & KPI's



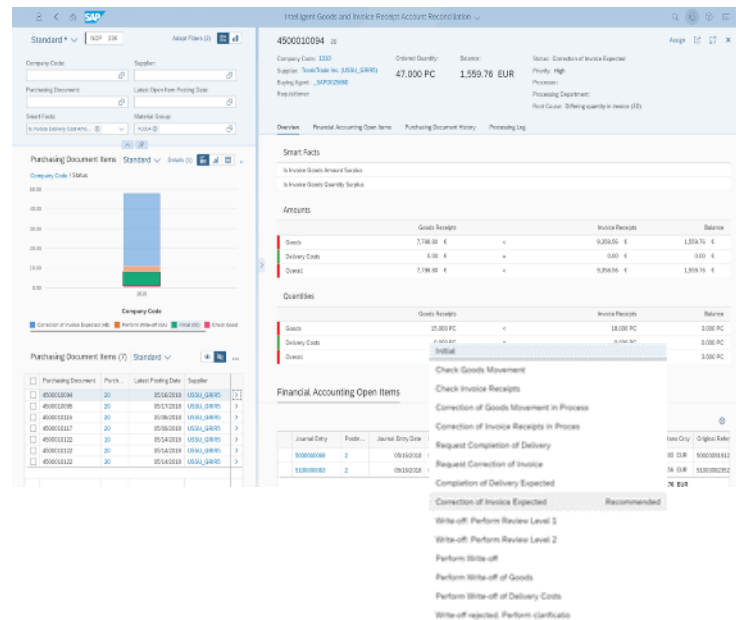
Use Simulation & Prediction



Use Digital Assistant

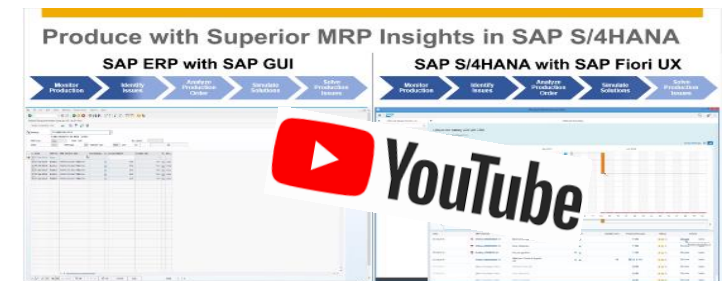


or Automate via Machine Learning



And see how it works

- watch out for "SAP S/4HANA Transformation"



- NEW ML Demo Videos





# SAP S/4HANA Business Value References

## Digital Core

### Digital Core

<b>Customers</b> as of October 2018  <b>&gt;340</b> References <b>&gt;9500</b> Customers	<b>Analytics</b>  <b>&gt; 200,000</b> Users getting real-time insights <b>3 seconds</b> To run reports	<b>Implementation</b>  <b>0 downtime</b> In production, shipping, and sales <b>4 months</b> For a rapid implementation	<b>Conversion</b>  <b>Ø</b> Reconciliation issues <b>40</b> Company codes in 6 months <b>&lt;6</b> Months to go live	<b>IT</b>  <b>3x-10x</b> Faster response rate <b>15 Minutes</b> To perform backup, down from 13.3 hours <b>75%</b> Lower IT costs	<b>Data</b>  <b>4,6x-205x</b> Faster generation <b>Up to 145x</b> Fewer period-end closing transactions	<b>Innovation</b>  <b>1 platform</b> Drive innovation and digital transformation <b>Faster</b> Through automation and predictive suggestion	<b>System Simplification</b>  <b>1</b> System replacing 70 systems <b>1</b> Controlling area instead of 60 <b>65</b> System interfaces from 370	<b>Fiori</b>  <b>1 day</b> For user ramp-up on average, down from 3 days
--	---	---	---	--	--	--	--	---

## Lines of Business

<b>Finance</b>  <b>60%</b> Faster month-end and consolidation processes <b>1 second</b> To display general ledger accounts, down from 8 min		<b>Sales</b>  <b>4x</b> Increase in order efficiency <b>70%</b> Reduction in monthly settlement cycle (from 15 to less than 5 days) <b>&gt;98%</b> Accuracy of customer orders	<b>Supply Chain</b>  <b>95%</b> Faster MRP <b>20%</b> Reduction in defects per unit	<b>Procurement</b>  <b>60%+</b> in operational efficiency <b>20%+</b> in procurement savings	<b>Manufacturing</b>  <b>50%</b> Shorter manufacturing cycle <b>30%</b> Reduction in order lead time <b>50%</b> Faster MRP	<b>Research &amp; Development</b>  <b>3</b> Months to deploy S/4HANA <b>0</b> Failures for product samples
--	--	---	--	---	---	---

## Digital Industries

<b>Retail</b>  <b>9 months</b> Implement the solution, achieving a major target	<b>Automotive</b>  <b>10%+</b> Sales Order Accuracy <b>Real-Time</b> Tracking of deliveries	<b>Chemicals</b>  <b>50%</b> Fewer sales returns than the industry standard <b>50%</b> Lower leakage than the industry standard	<b>Oil &amp; Gas</b>  <b>100%</b> Real-time tracking of inventory movements & expenses	<b>Mill Products</b>  <b>5</b> Months To go live <b>9 weeks</b> Successful migration <b>44%</b> Improved in sales order accuracy	<b>Utilities</b>  <b>1 day</b> For user ramp-up on average, down from 3 days	<b>High Tech</b>  <b>20%-40%</b> Reduction in bank fees <b>5%-10%</b> Reduced processing time & errors	<b>IM &amp; C</b>  <b>&gt;50%</b> Reduction in inspection time <b>90%</b> Reduction in database size	<b>Life Sciences</b>  <b>30%+</b> Accuracy of cost analysis <b>7 days</b> Complete closing process <b>10x</b> Faster data inquiries
--	--	--	---	---	---	---	---	--

## Cloud Integration

<b>SAP Ariba</b>  <b>&gt;80%</b> Of purchase orders to be managed on Ariba Network <b>900</b> Suppliers onboarded in one year	<b>SAP Commerce Cloud</b>  <b>15% Less</b> Manual effort spent on orders <b>Millions</b> of lines of code eliminated <b>Lower order errors</b> D/T higher process automation	<b>SAP Sales Cloud</b>  <b>20%-40%</b> Reduction in bank fees <b>5%-10%</b> Reduced processing time & errors <b>50%-100%</b> Reduced Localization costs	<b>SAP Concur</b>  <b>Better</b> Data quality, access, and analytics	<b>SAP SuccessFactors</b>  <b>20%</b> Reduction in manual processes for people development <b>4 people</b> Running payroll, from 12-15	<b>SAP Fieldglass</b>  <b>1.5 trillion</b> Transactions processed	<b>Move to Cloud</b>  <b>56 hours</b> Converted to SAP S/4HANA and moved to SAP HANA Enterprise Cloud
--	---	--	---	---	--	--

# Architecture I: Simplifying database & table structures to prepare for scale

## SALES

	Document			Item	
	Header				
Sales Order	VBAK		>	VBAP	VAKPA VAPMA
Delivery	LIKP		>	LIPS	VLKPA LKPMA
Billing Document	VBRK		>	VBRP	VRKPA VRPMA
Status Info	VBUK			VBUP	
Conditions		KONV			VBOX
Document Flow		VBFA			

## FINANCE

	Document			Totals			Indices		
	Header	Item							
GL, AR, AP	BKPF	BSEG	>	GLT0	KNC1	KNC3	BSIS	BSAS	BSIK
			>	LFC1	LFC3		BSID	BSAD	BSAK
New GL		FAGLF LEXA*	>	FAGLF LEXT*			FAGL BSIS	FAGL BSAS	
CO	COBK	COEP		COSS	COSP				
AA	ANEK	ANEP	ANEA	ANLC	ANLP				
ML	MLHD...	MLIT...		MLCD...	MCLR...		BSIM*	CKMI1*	

# SAP Business Suite

## MATERIAL VALUES

Valuation in MM or Valuation ML

### Aggregates

Hybrid: Master Data with Valuated Stock

### History

ML Valuation

MBEW	>	MBEWH	CKMLCR	MLPP	CKMLPP	CKMLPPWIP
EBEW	>	EBEWH	CKMLPP	MLCR	CKMLCR	CKMLKEPH
QBEW	>	QBEWH	MLHD	MLCRF	MLCD	CKMLMV004
OBEW	>	OBEWH	MLIT	MLKEPH	CKLMMV004	

## MATERIAL QUANTITIES

### Aggregates

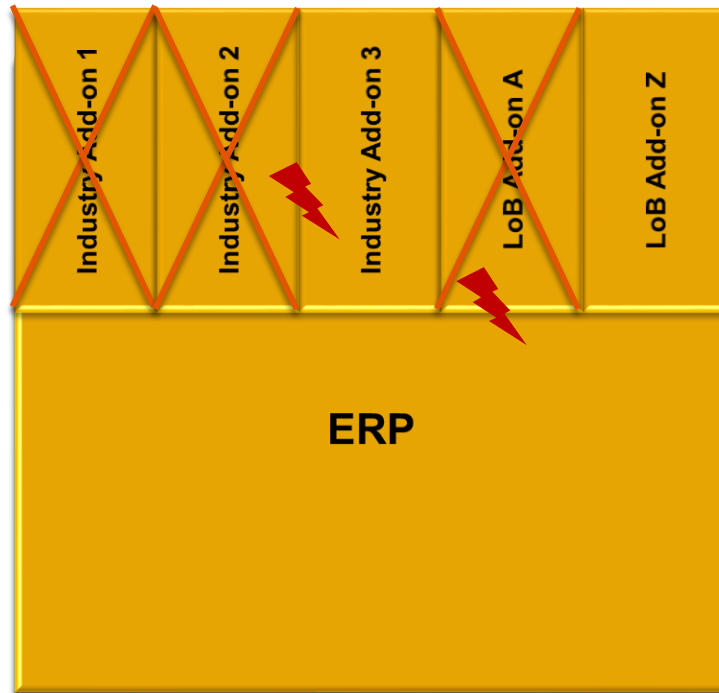
Stock Aggregates

History

Material Document	>	MSSA	MSSL	MSSQ	>	MSSAH	MSTBH	MSSQH	
MKPF	MSEG	>	MSTE	MSTQ	MSTB	>	MSTEH	MSTQH	
Inventory Movements	Hybrid: Master Data with Stock Aggregates					>	MARCH	MARDH	
		MCHB	MARC	MARD	MSKU	>	MSLBH	MCHBH	MSKUH
		MSKA	MKOL	MSPR	MSLB	>	MSKAH	MSKAH	



# Architecture II: SAP S/4HANA 1809 – delivered incl. “Industry to Core”



**ONE physical shipment**

## from Automotive <sup>1</sup>

Integrated Product and Process Engineering  
 Packaging Logistics  
 Executing Inbound Deliveries  
 Just in Time, Just in Sequence  
 Kanban  
 Parts Interchangeabilities / Supersession  
 Production Backflush for Discrete Industries  
 Self-Billing (Inbound)  
 Evaluated Receipt Settlement  
 Scheduling Agreement Processing  
 Vehicle Management System, Vehicle Search  
 Long Material Number  
 Vehicle Search<sup>2</sup>

## from E&C, Aerospace & Defense, Mill, Utilities <sup>1</sup>

Equipment Tools Management  
 Bill of Services  
 MRO Maintenance, Repair & Overhaul  
 Align multiple planned orders to one Prod. Order<sup>2</sup>  
 Utilities Service Interaction <sup>New 1809</sup>

## from Professional Services

Commercial Project Management<sup>2</sup>

## from Consumer Products

Catch Weight Management (incl. conversion)<sup>2,3</sup> <sup>New 1809</sup>  
 Commodity Management for Sales & Procurement<sup>2</sup>  
 SAP Agricultural Contract Management<sup>1, 2, 3</sup> <sup>New 1809</sup>

## from Retail & Wholesale <sup>1</sup>

Retail Article aligned with Material Master  
 Business Partner Concept aligned with Site  
 Fashion – Wholesale processes<sup>2</sup>, PSST Rules<sup>2</sup>  
 Order allocation, Segmentation <sup>New 1809</sup>  
 Merchandise Management<sup>1</sup>– empties & tied empties<sup>3</sup>

## from Oil & Gas <sup>1</sup>

Supply Chain Visualization  
 TSW Planning & Analytics, Ticketing  
 Physical Inventory Data Capture & Processing  
 IS -Oil Commodity Management Integration<sup>2</sup>

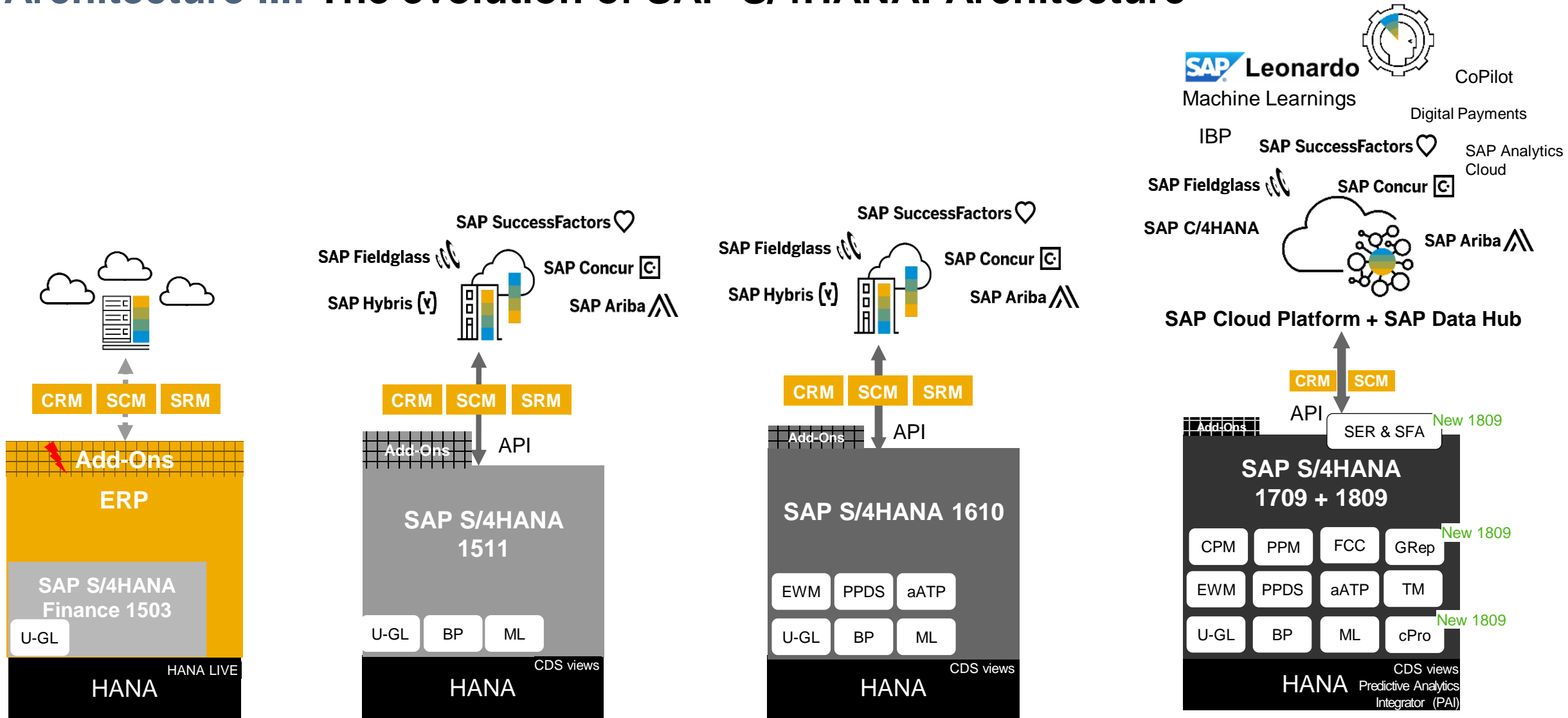
## from Banking & Insurance:

Integration with SAP Loans Management<sup>2</sup>  
 Amount field length extension in the general ledger<sup>3</sup> <sup>New 1809</sup>  
 Lease accounting for lease contracts<sup>3</sup> <sup>New 1809</sup>

## from Media

Product master Hierarchy<sup>2</sup>

# Architecture III: The evolution of SAP S/4HANA: Architecture



# Architecture IV: Choose the destination that's right for you



**SAP S/4HANA Cloud**



**SAP S/4HANA Cloud,  
single-tenant edition**

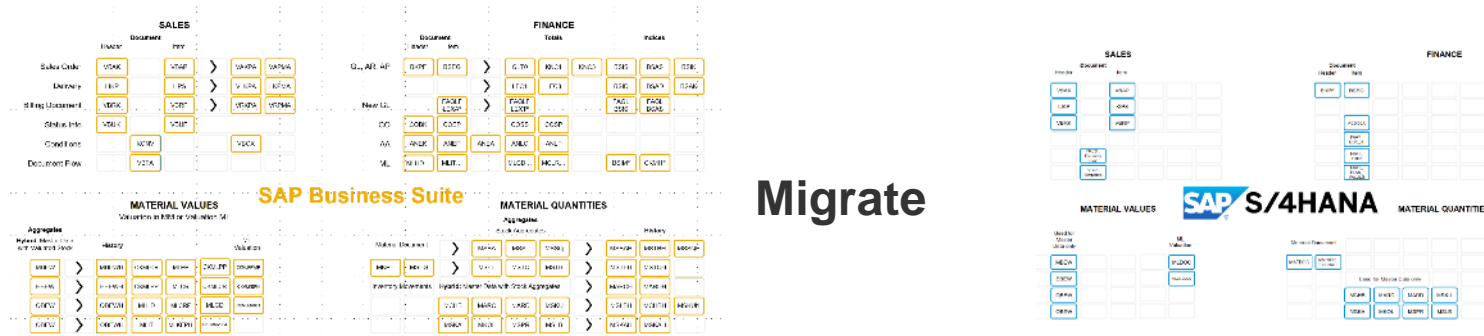


**SAP S/4HANA\***

<b>Business Process</b>	<b>Standardized, core ERP</b>	<b>Flexible, ext. ERP</b>	<b>Customizable, ext. ERP</b>
Innovation Lifecycle	Quarterly	Semi-annual	Annual, customer-led
TCO	Lowest	Lower	Higher
System Governance	SAP-led	Customer-influenced	Customer-led
IT Infrastructure	SAP, public	SAP, dedicated	Customer-managed
Customization	Within Standards	Within standards	Open to modifications
Extension	PaaS, SCP	PaaS, SCP	Open, SCP
System Delivery	New implementation	New implementation	New or ECC conversion

\*Private cloud managed by SAP & On-premise managed by cloud providers or customers

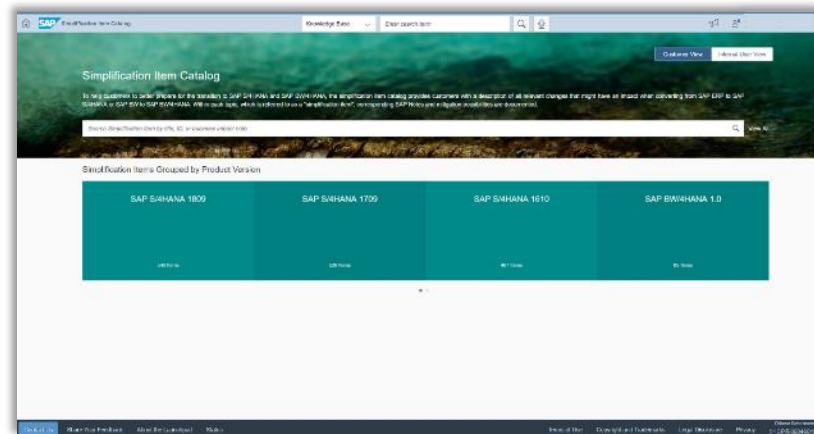
# Architecture V: SAP S/4HANA: how to get there?



**SAP ERP**

**SAP S/4HANA**

## Simplify



### Examples:

- Transportation Mgmt. replaces LE-TRA
- S/4HANA Finance Credit Mgmt. replaces ERP SD Credit Mgmt.
- Business Partner replaces multiple Customer & Vendor tx
- Material Ledger replaces MM-INV
- EWM replaces WM
- Material Ledger replaces MM-INV
- ...

# SAP S/4HANA – Suite 1809

## Suite LoB Solutions\*\*

## S/4HANA LoB Solutions\*

## SAP S/4 HANA

## Enterprise Management

## S/4HANA LoB Solutions\*

## Suite LoB Solutions\*\*

### Sales & Marketing

- SAP digital payments add-on
- SAP CRM
- SAP C/4HANA**
- SAP Sales Cloud
- SAP Commerce Cloud
- SAP Marketing Cloud

- Sales performance management
- Subscription billing and revenue management

- Order and contract management
- Sales force support

### Finance

- Governance, risk, and compliance
- Financial services network
- SAP digital payments add-on
- SAP Cash Application
- Financial planning & analysis

SAP Ariba  SAP Concur 

- Advanced accounting & financial close
- Advanced financial operations
- Treasury management
- Enterprise risk and compliance
- Commodity management

- Accounting and financial close
- Financial operations
- Cost management & profitability analysis

### Manufacturing

- Responsive manufacturing (ME, MII, QIM, VE)
- Production operations (MII, QIM)
- Digital operations for manufacturing

- Extended production planning and scheduling
- Complex manufacturing

- Production planning
- Production operations
- Quality management
- Manufacturing insights

### Supply Chain

- Integrated business planning
- Global batch traceability
- Extended warehouse management
- Transportation management

- Advanced warehousing
- Advanced transportation
- Advanced order promising

- Inventory
- Warehousing
- Shipping and transportation
- Order promising

- Service master data and agreement management
- Service operations and processes
- Service parts management

- Maintenance management

- Asset operations and maintenance
- Environment, health, and safety

- Asset performance and intelligence

- Project control
- Product engineering

- Enterprise portfolio and project management
- Product lifecycle management
- Product compliance

- Digital operations for R&D
- Requirement management (IPD)

- Operational procurement
- Sourcing and contract management
- Supplier management
- Procurement analytics
- Invoice management

- Central procurement

- Supplier collaboration
- Business network
- Guided end-user buying
- External workforce management

SAP Ariba  SAP Concur  SAP Fieldglass 

- Core HR and time recording

- Core human resources and payroll
- Talent management
- Time and attendance management
- Human capital analytics

SAP SuccessFactors  SAP Fieldglass 

### Service

### Asset Management

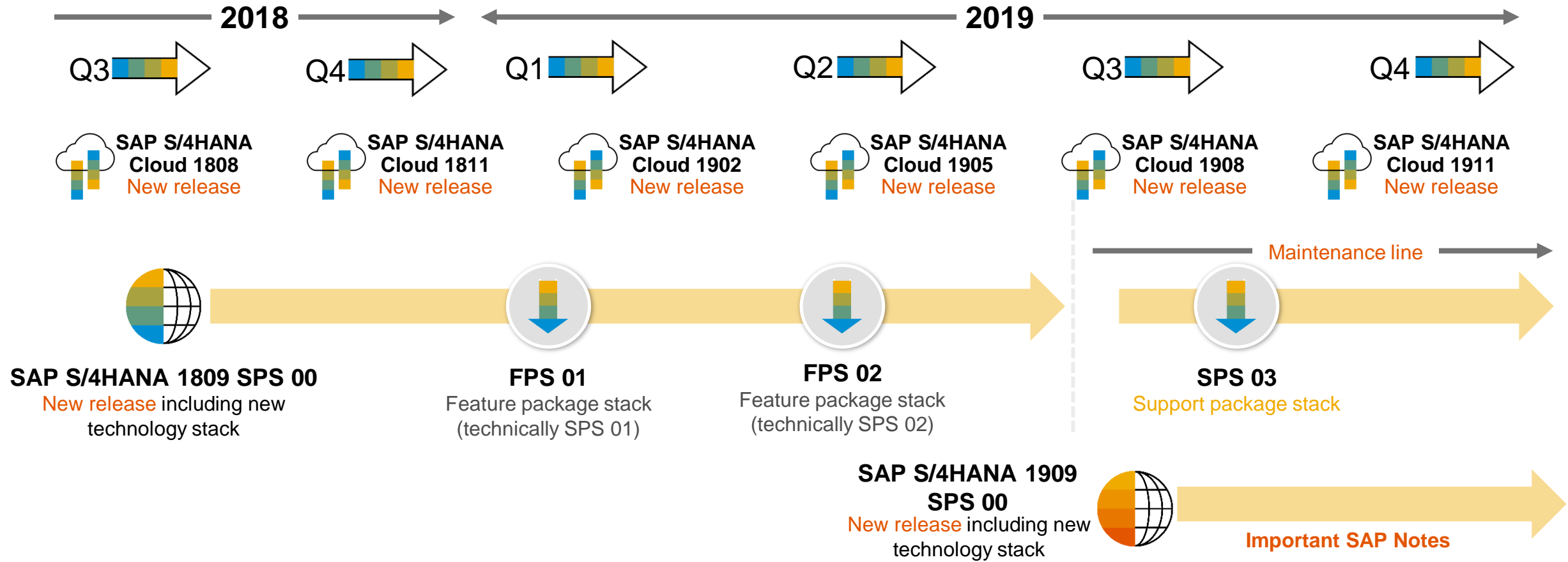
### R&D / Engineering

### Sourcing & Procurement

### Human Resources

# SAP S/4HANA Release Strategy

(2018– 2019 and definition of deliveries)



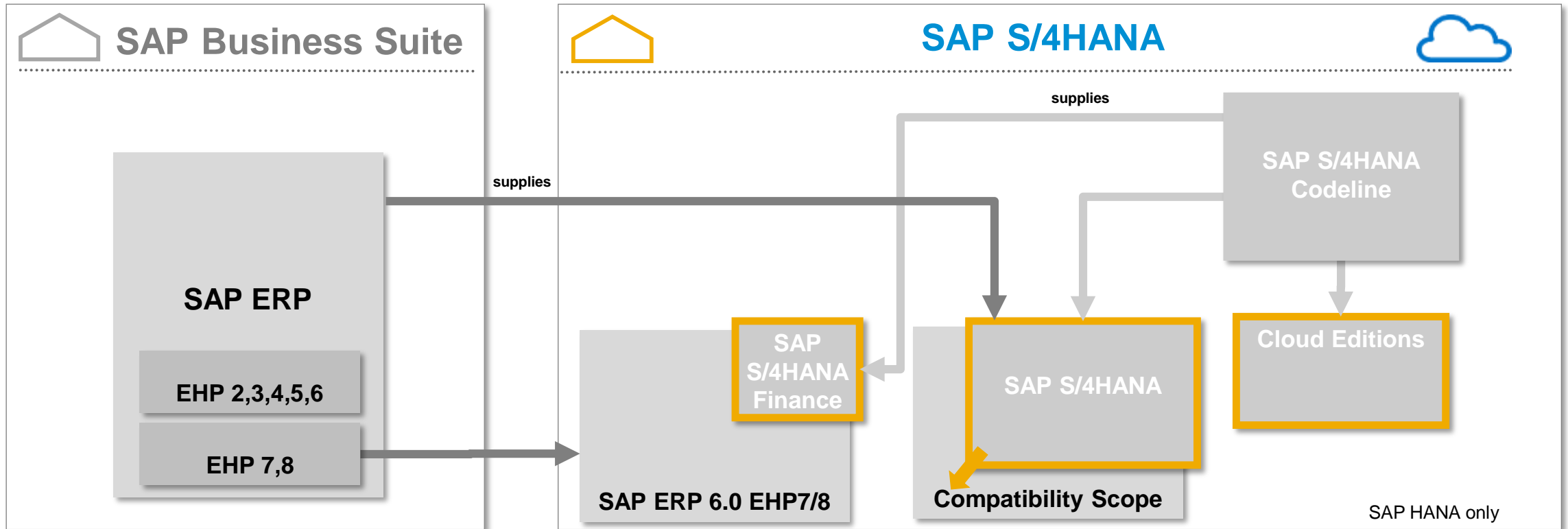
## Support package stack for SAP S/4HANA 1809

After general availability of SAP S/4HANA 1809, feature package stacks (FPSs) and support package stacks (SPSs) contain stabilizations bundled with corrections and legal changes. Customers benefit from this functionality as part of their maintenance fee. The first SPS of a new release can contain selected features and is labeled FPS accordingly.

Support package stacks are compiled periodically and made available in the [SAP Service Marketplace](#).



# Relation between SAP ERP and SAP S/4HANA



**Classical SAP ERP**  
on any DB or SAP HANA

**SAP S/4HANA**  
Finance

**SAP S/4HANA**  
Compatibility scope to  
support system conversion  
(see SAP Note [2269324](#))

**SAP S/4HANA**  
Cloud  
Cloud Qualities also  
available On-Premise

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary










## APPENDIX

- Recommended links to further information



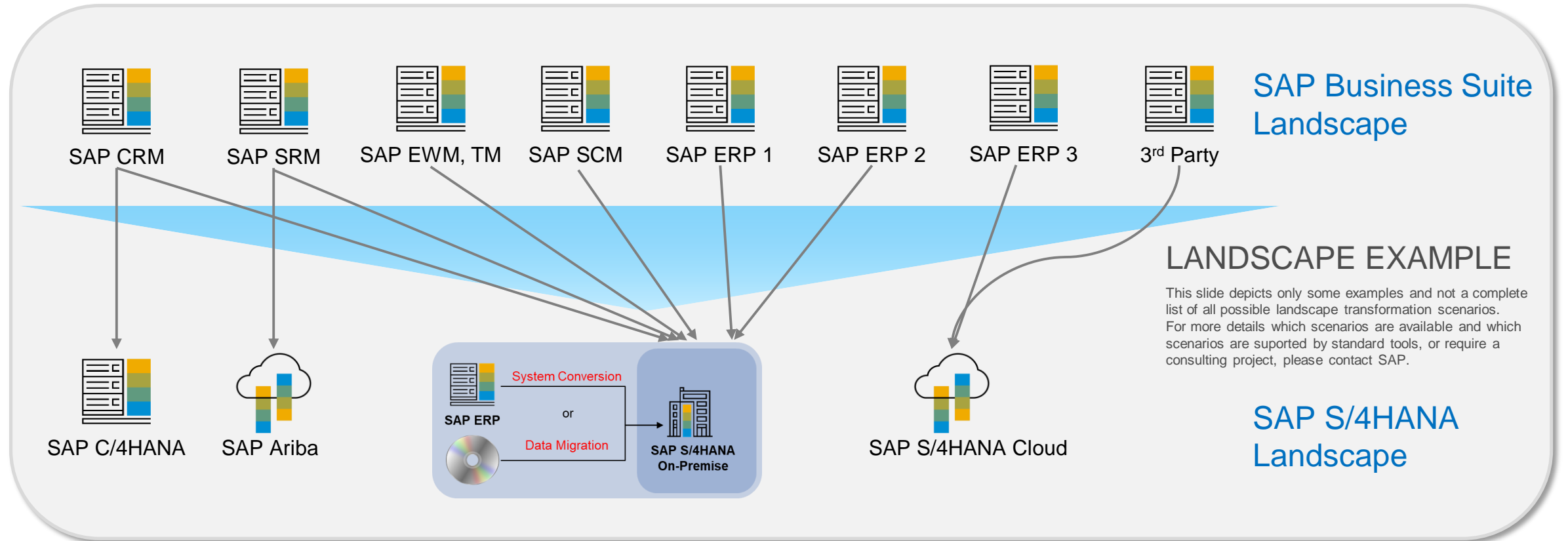
# Transition to SAP S/4HANA

## Different approaches to move to SAP S/4HANA

Type	Approach	Available for	Purpose
<b>REUSE</b> by in-place conversion 	<b>System Conversion</b> (Tool: SAP Software Update Manager / 'SUM')	 >  SAP ERP System      SAP S/4HANA On-Premise	<b>Bring your business processes to the new platform</b> <ul style="list-style-type: none"> <li>A complete technical in-place conversion of an existing SAP Business Suite ERP system to SAP S/4HANA</li> <li>Adopt new innovations at your speed</li> </ul>
<b>REENGINEERING</b> with data migration  Standardized  Customer-tailored	<b>New Implementation</b> (Tool: SAP S/4HANA Migration Cockpit)	 >  SAP ERP or Third Party System(s)      SAP S/4HANA On-Premise	<b>New implementation / re-implementation</b> <ul style="list-style-type: none"> <li>Reengineering and process simplification based on latest innovations</li> <li>Implement innovative business processes with pre-configured content on a new platform</li> <li>Perform initial data load</li> <li>Retire old landscape</li> </ul>
	<b>Landscape Transformation</b> (customer-tailored service/consulting offering)	 >  SAP ERP or Third Party System(s)      SAP S/4HANA On-Premise	

# Transition to SAP S/4HANA

## The IT Landscape point of view



- Start with the transition of your SAP ERP system to SAP S/4HANA
- Successively transform your current SAP Business Suite based solution landscape into an intelligent enterprise ready, hybrid landscape around SAP S/4HANA as the digital core
- Migrate data and processes between systems

# Define SAP S/4HANA Centric Landscapes with SAP Transformation Navigator

To learn more about SAP Transformation Navigator, listen to the MTE/tutorial available in SAP [ES Academy](#).

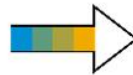
## Clear guidance to move to the Intelligent Enterprise.

- SAP Transformation Navigator is a free self-service tool available to all SAP customers
- Based on your current SAP products, SAP Transformation Navigator gives clear recommendations on your future product roadmap
- SAP Transformation Navigator helps to build the foundation for your business case to move to the SAP S/4HANA centric world
- SAP Transformation Navigator produces three customer output documents (the business guide, the transformation guide and the technical guide)

### SAP Transformation Navigator (self service tool)



Generates



Discover [www.sap.com/TransformationNavigator](http://www.sap.com/TransformationNavigator)\* for guidance to your future SAP S/4HANA-centric product map

\*Accessible to all internal users and S-users as of May, 15 2017

# SAP S/4HANA Conversion

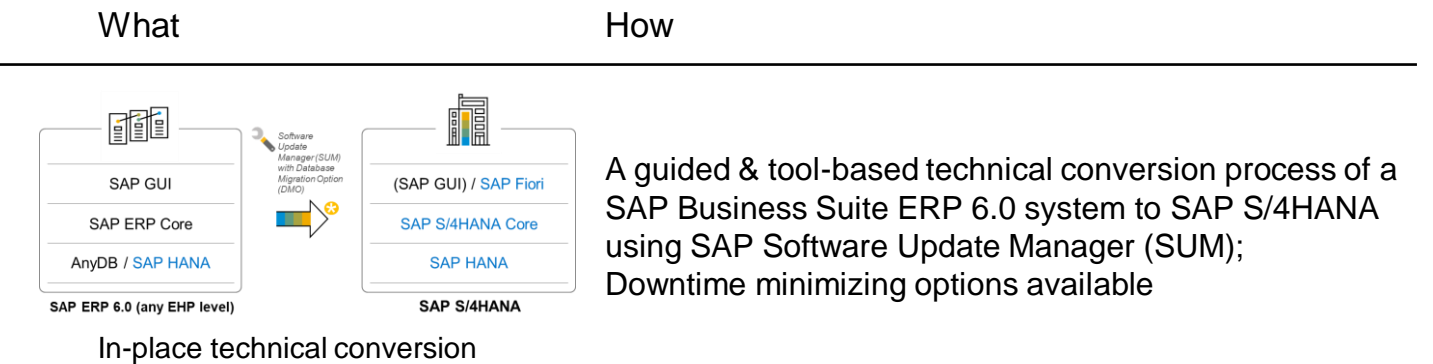
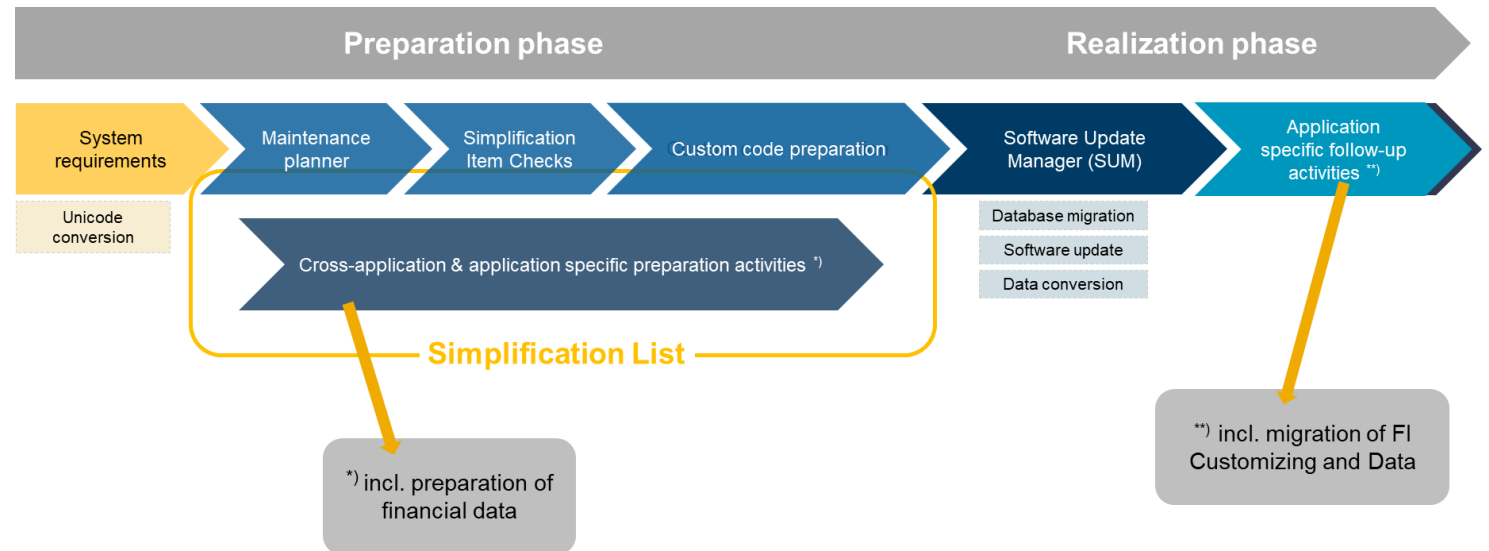
## A system conversion definition – a recap

### Scenario description

A complete technical in-place conversion of an existing SAP Business Suite ERP system to SAP S/4HANA (Database, SAP NetWeaver *and* Application transition in one step).

### Why you chose this option

- Bring your existing business processes to the new platform.
- Keep your investment in custom code
- Mitigate the risk and investment of a big bang conversion project by running a technical conversion project with some focused, selected innovation,
- Adopt more new innovations at your speed at a later point of time and in a phased approach.





# Transition to SAP S/4HANA

## New Implementation

### Scenario description

New implementation of SAP S/4HANA, e.g. for customers migrating a legacy system, also known as “greenfield” approach.

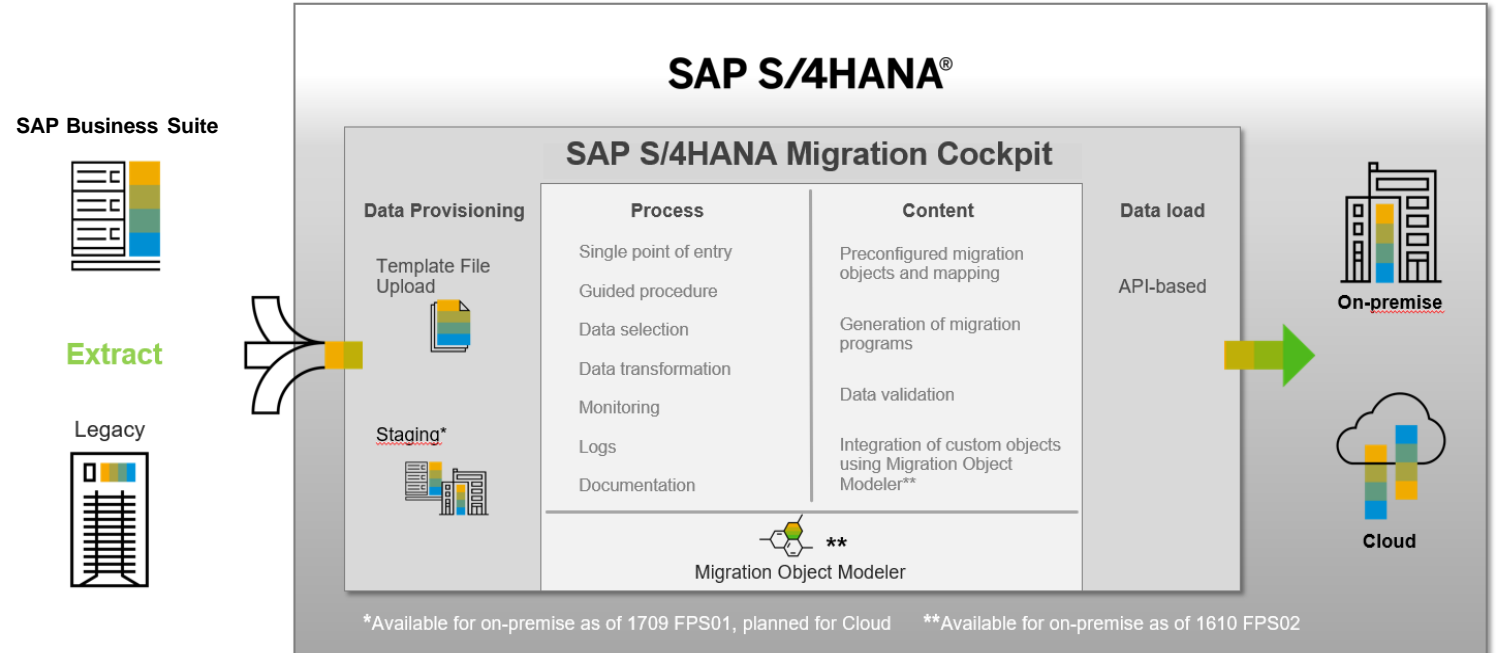
### Why would you choose this option?



Customers planning to migrate

- A non-SAP / 3rd-part legacy system,
- A good option for a SAP system, which may be
  - Of an older release and/or
  - Is highly customized/modified and/or
  - Does not meet the system requirements for a technical system conversion

Benefits for the customer are

- Reengineering and process simplification based on pre-configured business processes
- Rapid adoption of new innovations in a standardized manner



Steps	How
 Install SAP S/4HANA	<ul style="list-style-type: none"> <li>• SAP Software Provisioning Manager</li> </ul>
 Initial data load from source system	<ul style="list-style-type: none"> <li>• SAP S/4HANA Migration Cockpit</li> <li>• SAP Data Services (SAP DS) both with best practice migration content</li> </ul>

# Transition to SAP S/4HANA

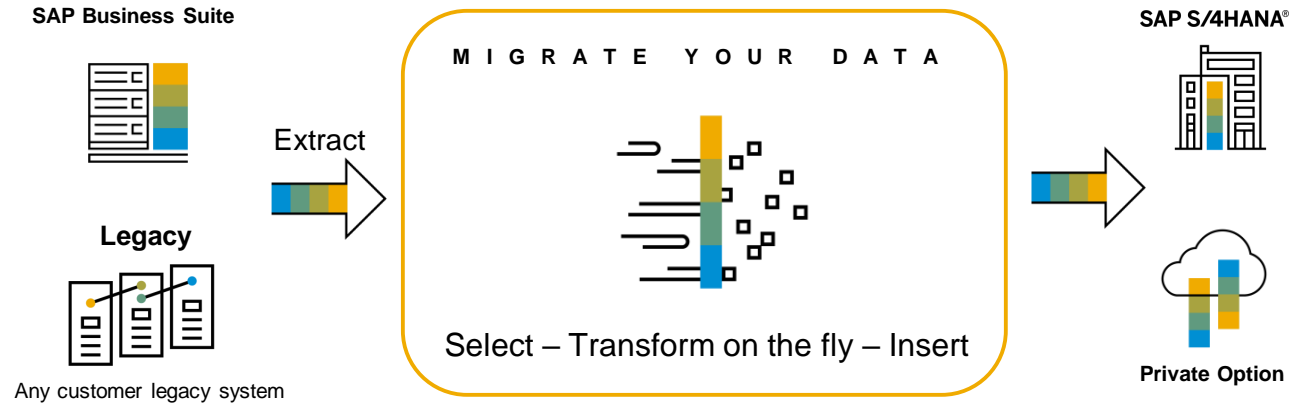
## Landscape Transformation

### Scenario description

Customers who want to consolidate their landscape or to selectively transform data into an existing SAP S/4HANA system.

### Why would you choose this option?

- Value-based migration: You need more than master data and open items, i.e. transactional data, complete or a selection by a period of time or by organizational units, etc.
- TCO reduction: system and landscape consolidation with harmonized/simplified processes and unified master data lead to lower cost of operations
- Transform your current SAP Business Suite based solution landscape into a innovative landscape based on/around SAP S/4HANA → Migrate data & processes between systems



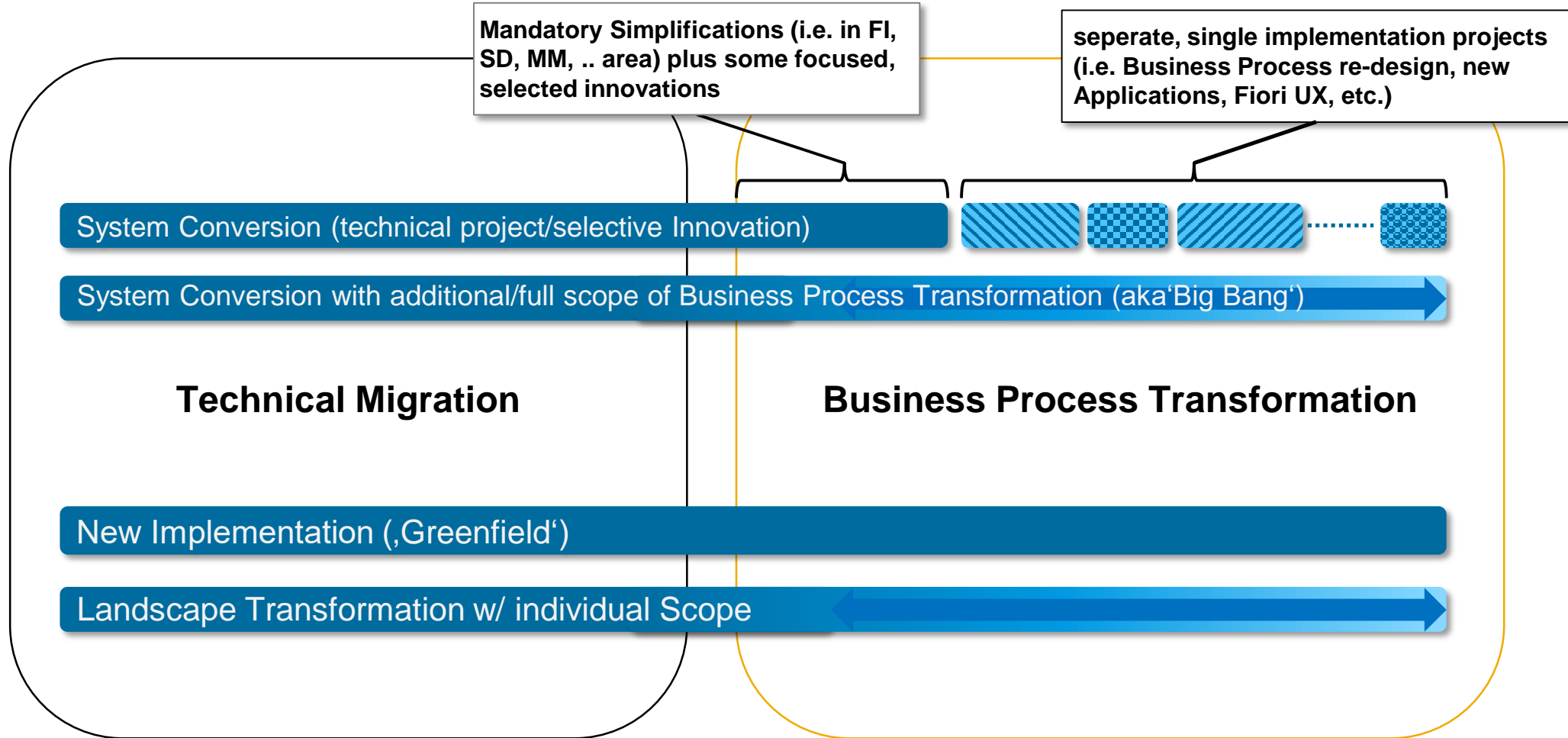
### Technical migration on table level using pre-configured LT transformation solutions

Consolidation	<ul style="list-style-type: none"> <li>• System merge of multiple source systems into one SAP S/4HANA system or</li> <li>• transfer of clients into existing SAP S/4HANA system (build-up multiple client system)</li> </ul>
Selective Data Transformation	<ul style="list-style-type: none"> <li>• Migration of business units/single entities such as company code(s)</li> <li>• 'application migration' scenarios, e.g. PP/DS, standalone EWM or TM, WM/EWM, LE-TRA, SCM, PPM, ERP Customer Service, ...</li> </ul>
Real-time reposting	
Implementation of central finance *	<ul style="list-style-type: none"> <li>• Real-time reposting of financial transactions into SAP Central Finance<sup>*)</sup> instance, e.g. to enable centralized reporting using SAP S/4HANA (synchronization of systems / side-car scenario)</li> </ul>

\* SAP S/4HANA for central finance foundation (Central Finance)

# Transition to SAP S/4HANA

## Scope of Business Process Transformation



# Conversion vs Greenfield: Seven “guiding” questions

## Questions influencing the choice of the transition scenario to SAP S/4HANA

Example of result documentation

As answer to questions, position green marker in the fitting column (1-5)

New Implementation

System Conversion

	1	2	3	4	5
1) Can you move to SAP S/4HANA in a one-step procedure?					
R/3 4.x	<ECC 6.x	Non-Unicode			↑ ≥ECC 6.0X
2) Do your current business processes support long-term strategy of the company?					
Redesign of core business processes			↑		Current Processes are a good long term fit
3) Can you adopt the Best Practices to modernize Core Business Process? Or are you planning to take over existing custom applications?					
Model Company / Back to Standard	Redevelop Custom Applications			↑	Take over custom
4) Is Landscape consolidation a key value driver for S/4 adoption?					
4+ systems to consolidate		3		2	↑ Consolidation 1:1
5) Do you require previous transactional data available in S/4?					
No				↑	Yes
6) Technical / IT funded project or Business funded project					
Business					↑ IT
7) Number of interfaces to other systems (Non-SAP and SAP)					
few/little complexity				↑	Many/high complexity

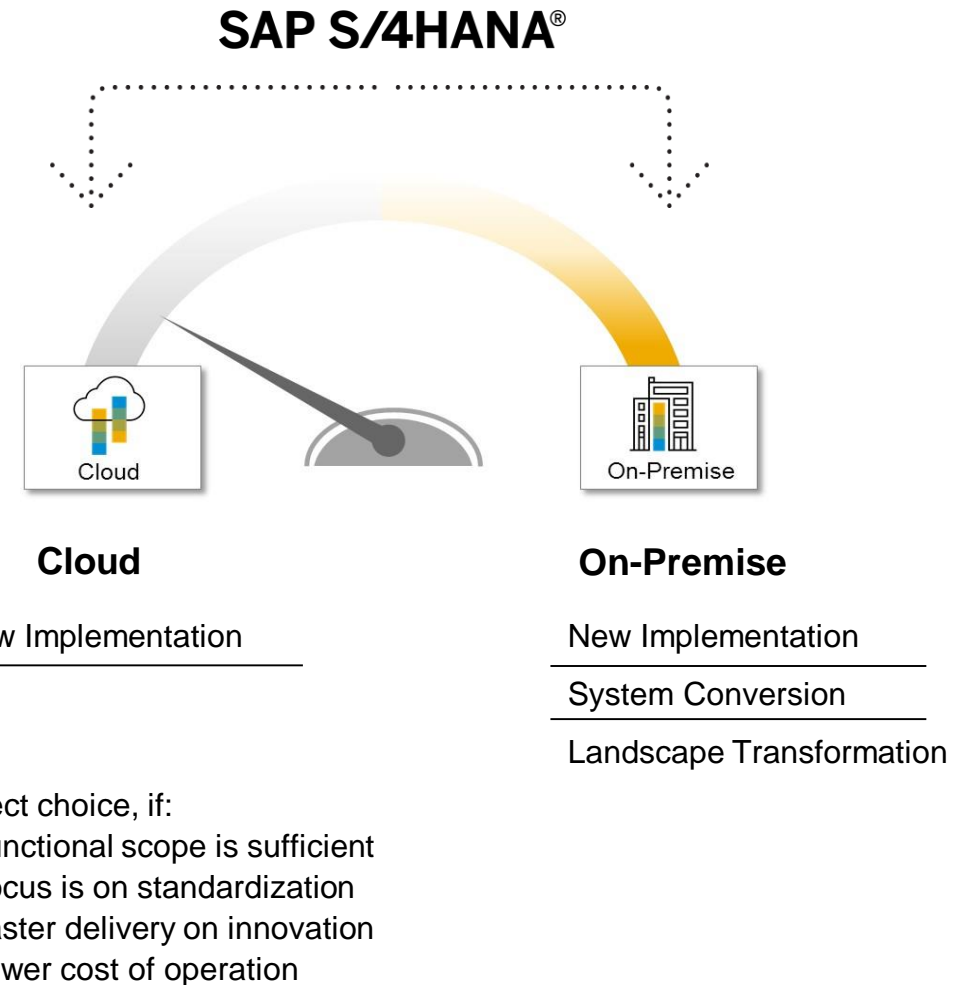
# Choice of Deployment

SAP S/4HANA and SAP S/4HANA Cloud share following characteristics for consistency at every level of your enterprise:

- Share same code line
- Designed for in-memory
- Same simplified data model
- Improved use experience

## Important considerations:

- Scope of business functionality (i.e. industry solutions)
- Deployment times
- Update frequency / impact on running processes
- Customizations
- Regulatory, industry, and regional requirements
- System operations skills and efforts
- Efforts for maintaining custom code and modifications during every maintenance event



# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary

## APPENDIX

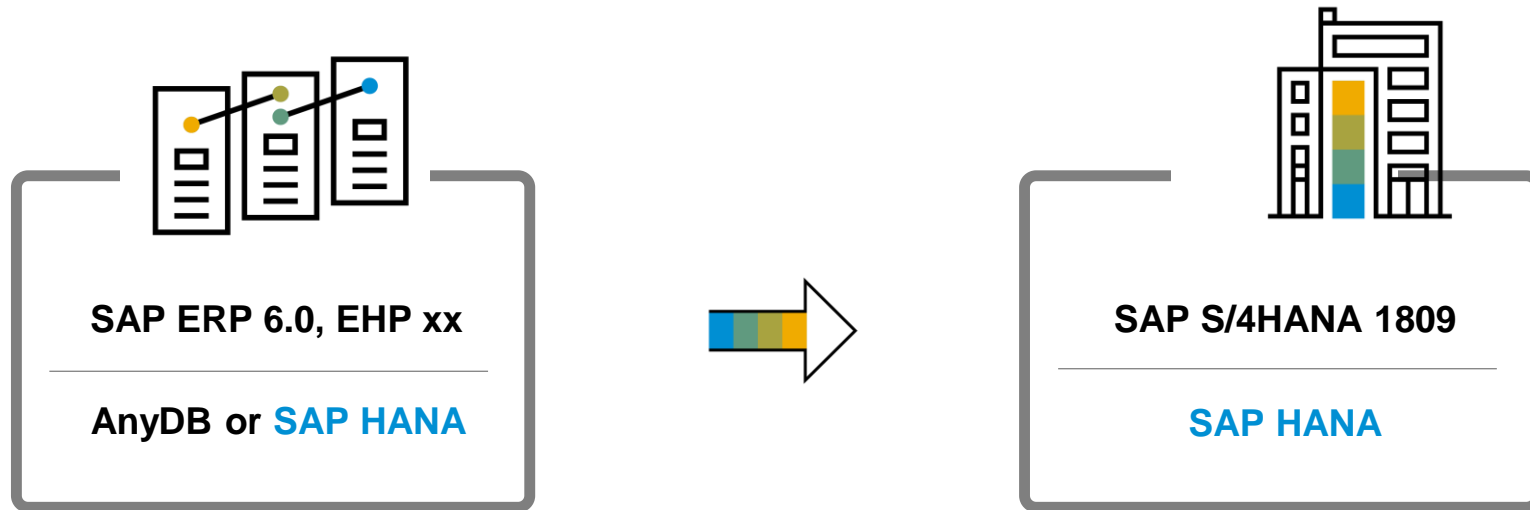
- Recommended links to further information





# SAP S/4HANA

## System Conversion – Transition Paths Overview (1/2)



### Prerequisites on source system

- Unicode is required
- ABAP single stack required
- SAP HANA database not required
- *SAP Suite on HANA customers who are planning a system conversion to SAP S/4HANA 1709 or 1809 must first update the database from SAP HANA 1.0 to SAP HANA 2.0 and then do the system conversion*

### Prerequisites on target system

- SAP S/4HANA 1809 is based on SAP ABAP Platform 1809
- SAP ABAP Platform 1809 has different OS coverage



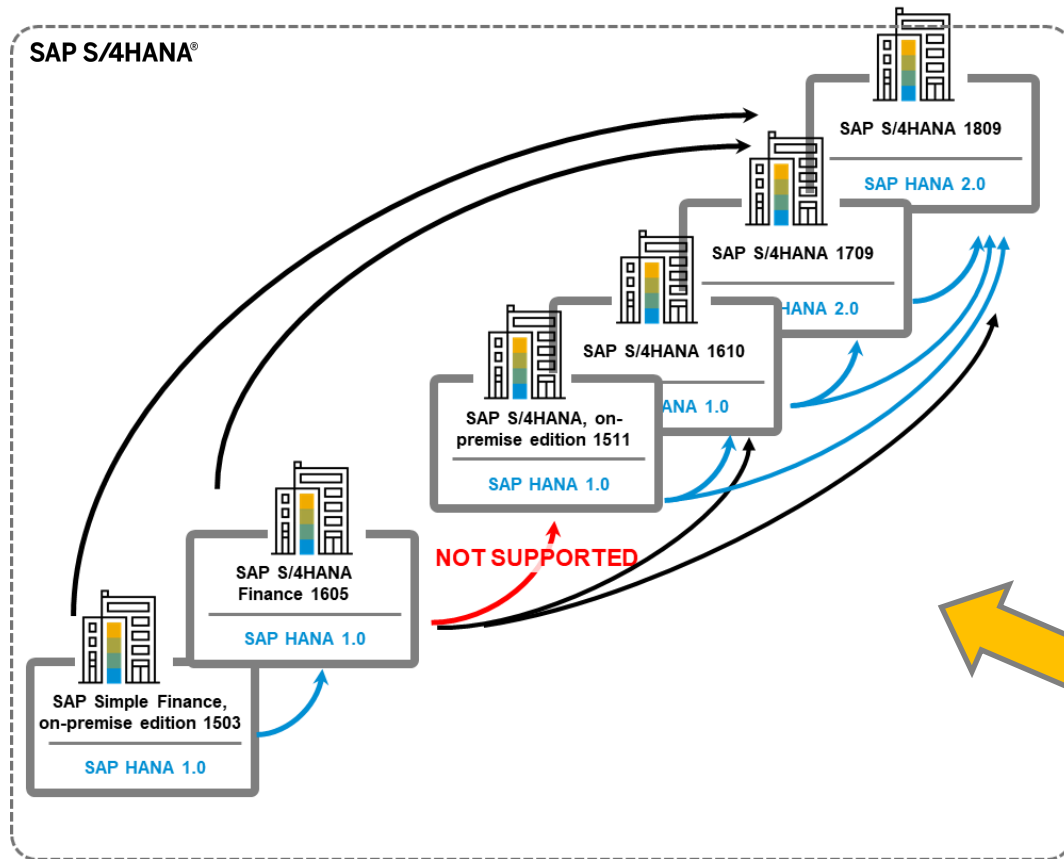
[SAP S/4HANA System Conversion – At a glance](#)

Conversion requirements incl. min./max. SP-level on source system:

[2625407 - SAP S/4HANA 1809: Release Information Note](#)  
[2482453 - SAP S/4HANA 1709: Release Information Note](#)

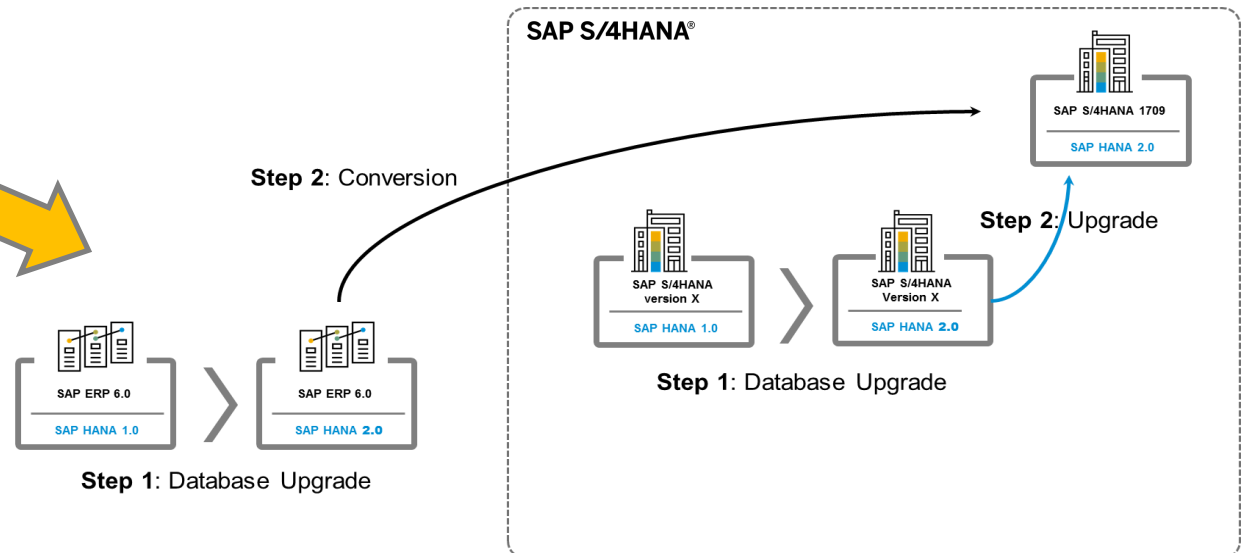
# SAP S/4HANA

## System Conversion – Transition Paths Overview (2/2)



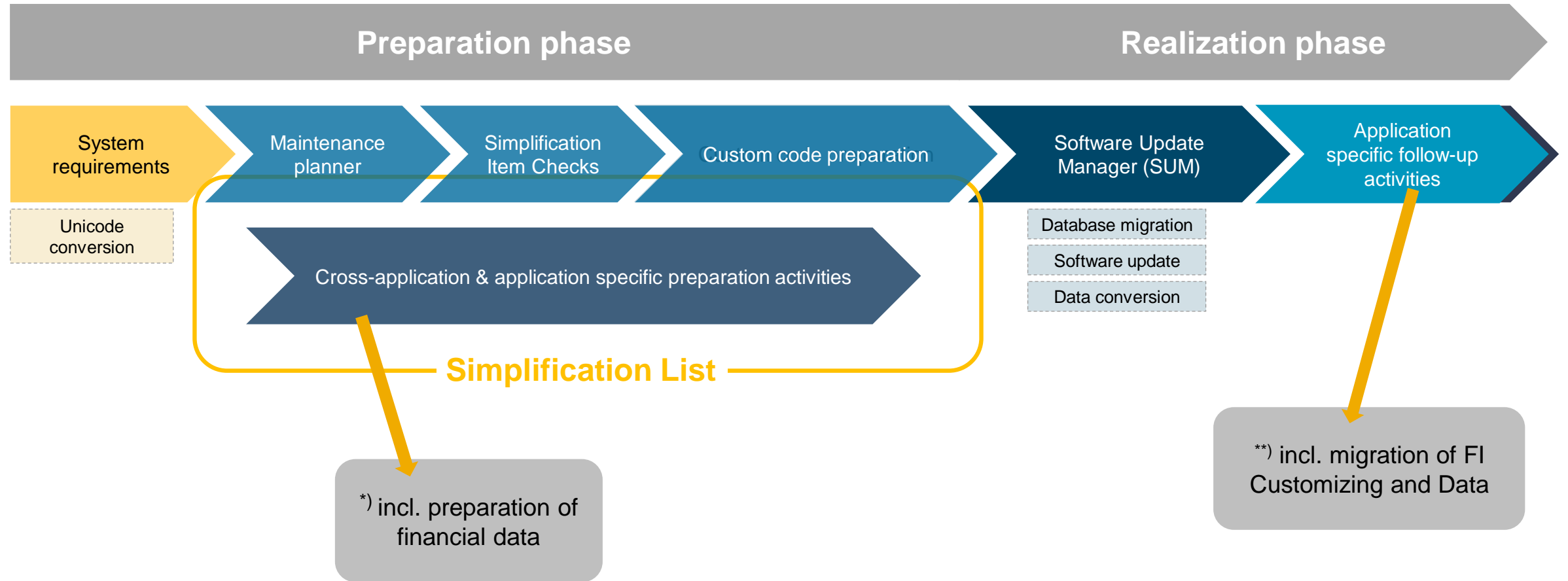
- System conversion from SAP S/4HANA Finance to SAP S/4HANA
- Upgrade within the SAP S/4HANA product family

SAP S/4HANA conversion or upgrade to release 1709 and 1809 with upgrade from SAP HANA 1.0 to SAP HANA 2.0 :



# SAP S/4HANA System Conversion

## Overview technical process steps

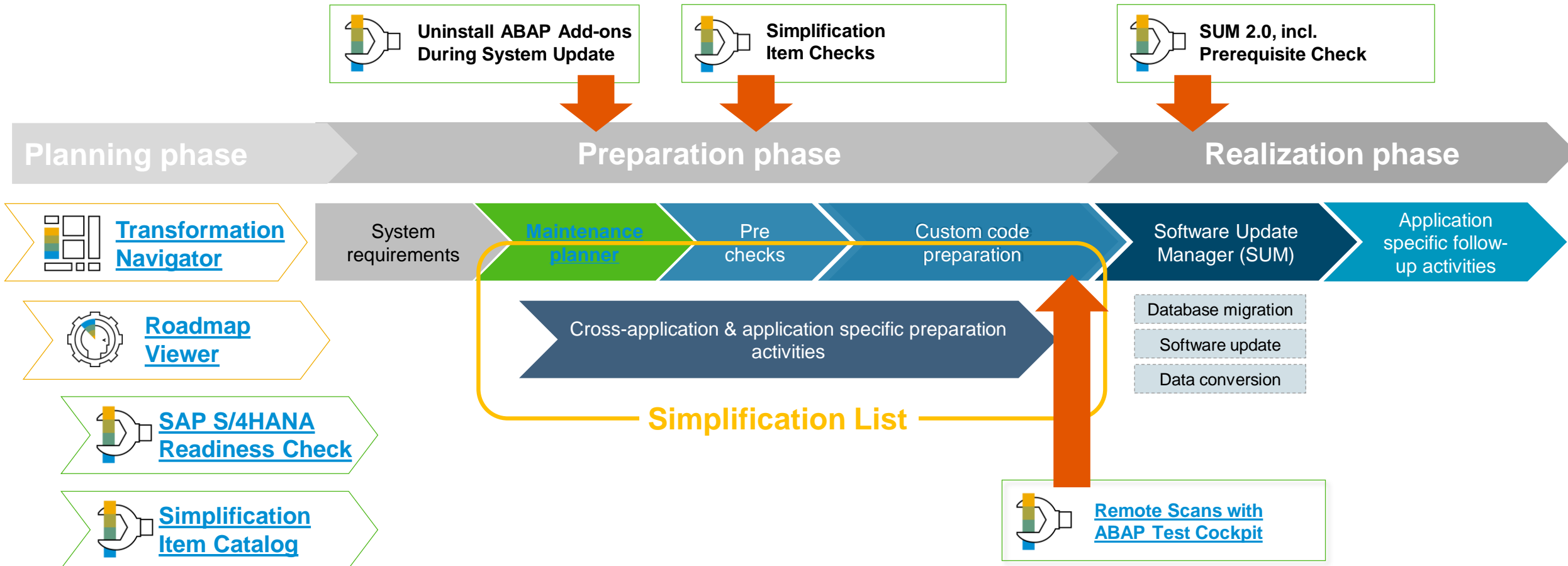


# SAP S/4HANA Conversion Project

An overview of a conversion project and the key tools

To learn more about the discover phase, enter the search tag "SAP S/4HANA Discovery" with the quotes in SAP [ES Academy](#).

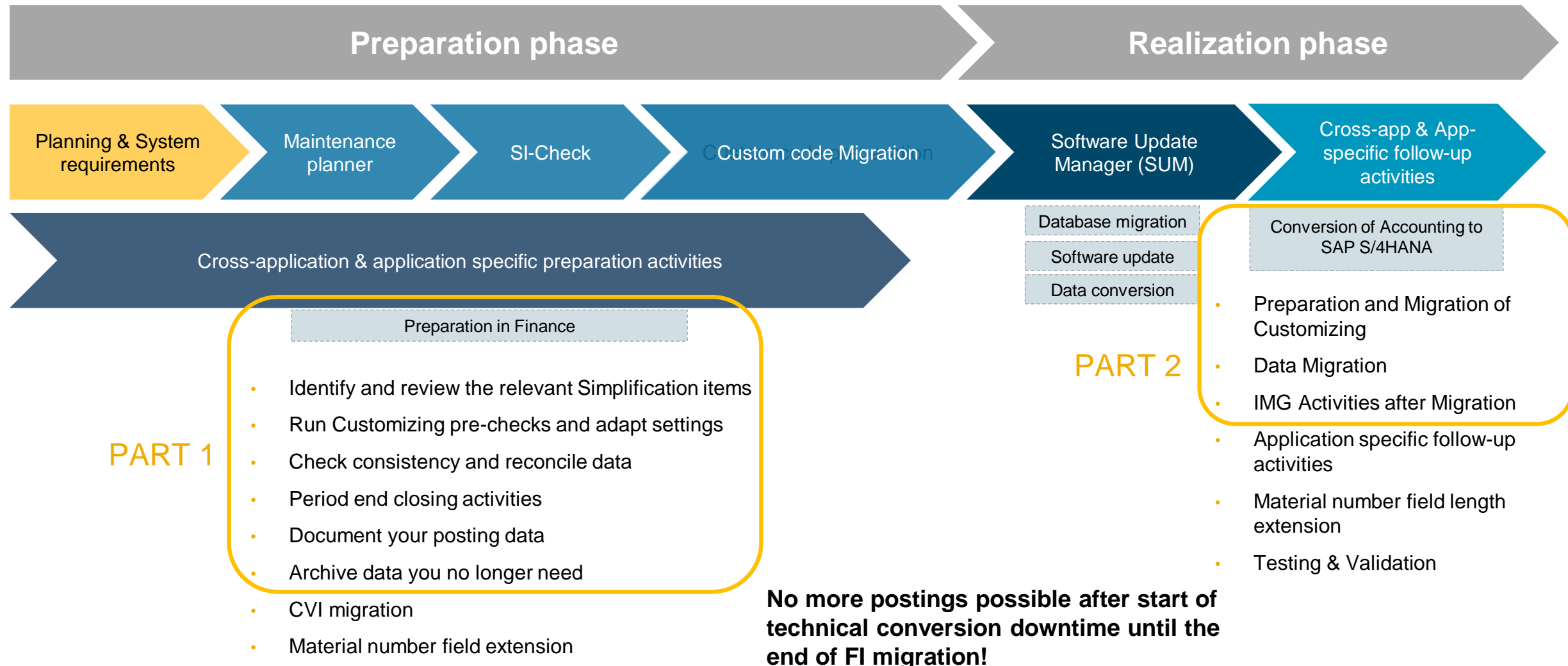
Read the public blog: <https://blogs.sap.com/2018/12/14/key-elements-for-your-digital-transformation-journey-with-sap-s4hana/>



# SAP S/4HANA Conversion Project

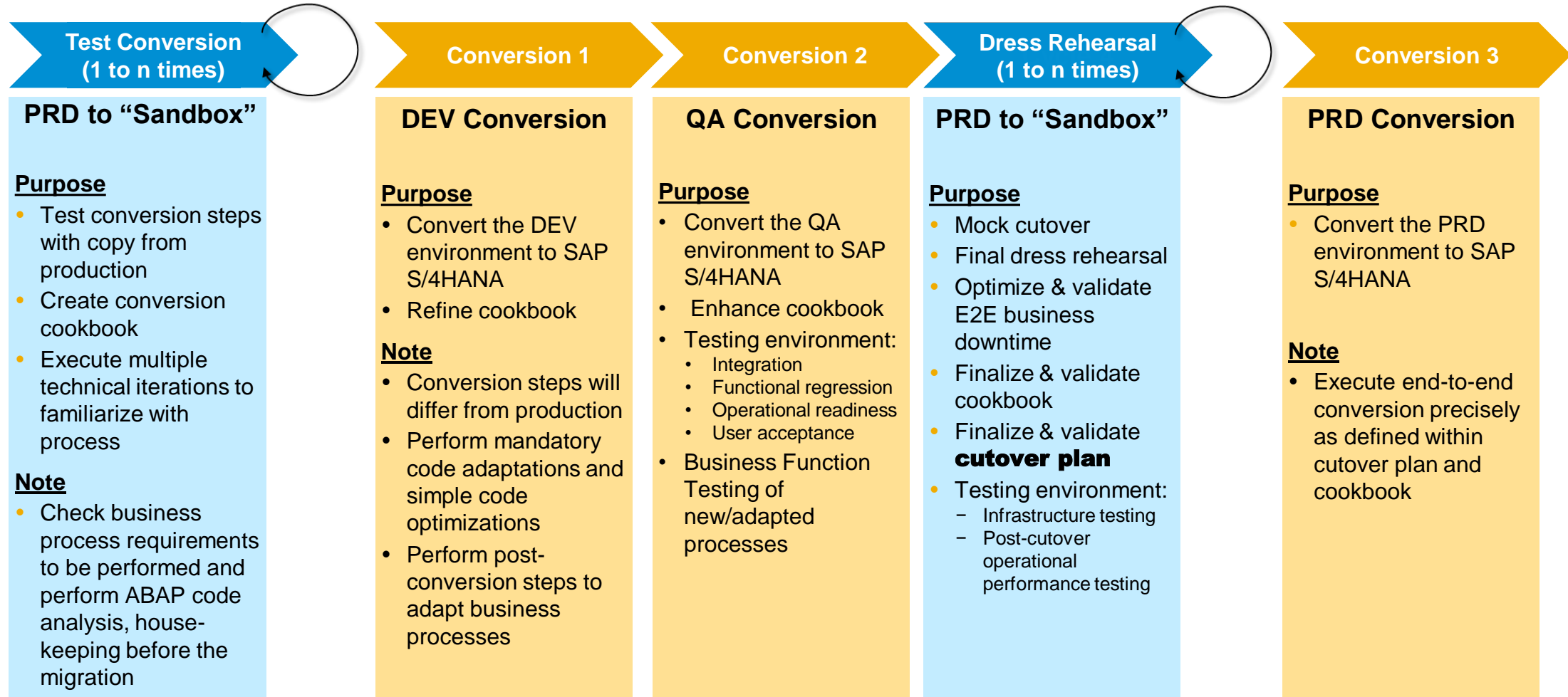
## Focus on application related activities<sup>\*)</sup>

To learn more about SAP S/4HANA Finance conversion, listen to the two MTEs (part 1 and part 2) available in SAP [ES Academy](#)



# Key Recommendations

Project planning aspects: conversion will occur multiple times in the project



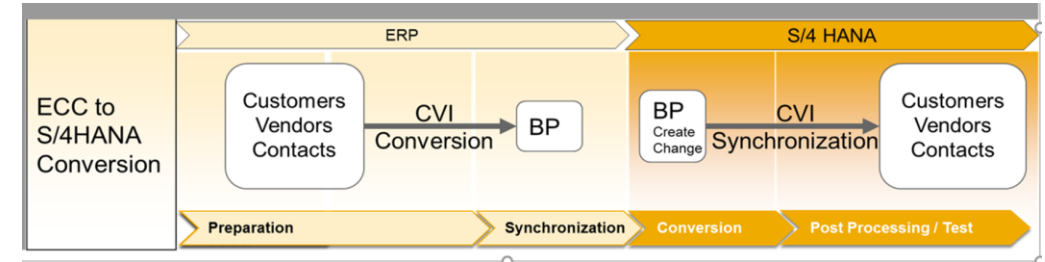
# Understand Simplifications

## Examples for essential changes

To learn more about SAP S/4HANA Finance and Logistics listen to the MTEs available in SAP [ES Academy](#)

### Customer Vendor Integration (CVI) and Business Partners

- In SAP S/4HANA, Business Partner is the leading object and single entry point to maintain business partners, customer and vendor master data.
- There is a new data model with Business Partner (e.g. categories, roles, multiple addresses and relationships)
- Customer Vendor Integration (CVI) ensures that customer and vendor master data tables are updated automatically after a business partner is created/changed



### Key Examples\*) Finance:

- **Universal Journal**
- **Material Ledger and Asset Accounting**
- **New Cash Management**
- **SAP Credit Management (FSCM)**
- Revenue Recognition SD not available, replaced by SAP **Revenue Accounting and Reporting (RAR)** – Migration before conversion
- Classic Real Estate not available, replaced by **Flexible Real Estate Management** – Migration before conversion
- **SAP Trade Finance**

### Key Examples\*) Logistics:

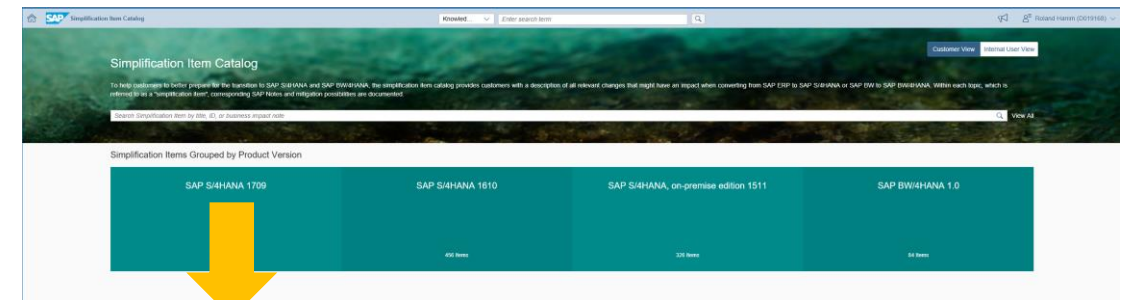
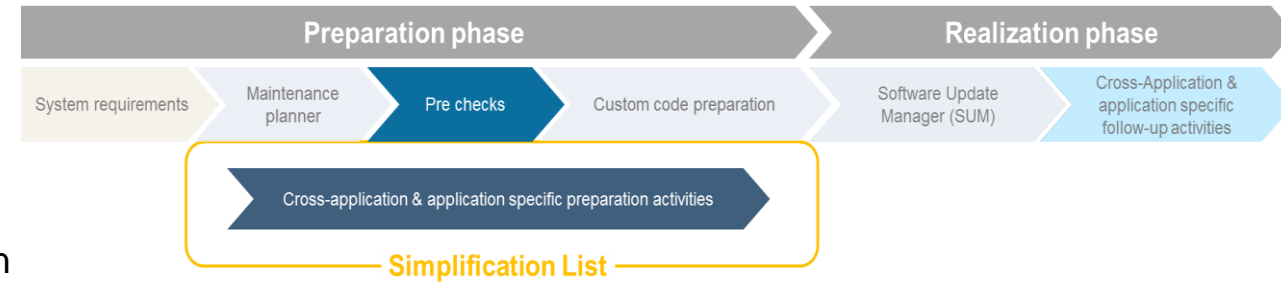
- **Changes in MRP** (e.g. material field length extension, output management, MRP area, simplified sourcing and production version)
- **Inventory Management - new data model**
- Data model changes in **SD pricing**
- **ERP foreign trade, replaced in SAP S/4HANA** (e.g. SAP S/4HANA for internal trade and SAP Global Trade Services)
- Changes in **Settlement Management**
- **Transportation Management and Extended Warehouse Management** embedded in SAP S/4HANA

# Understand Simplifications

## Simplification List

The **Simplification List** is a collection of **Simplification Items**. Within a Simplification Item, it is described what is the difference of a functionality (changed, replaced, removed) between SAP Business Suite and SAP S/4HANA.

- A Simplification Item provides information about the potential impact of this change for the customer.
- The Simplification List provides this information per SAP S/4HANA On-Premise release as part of the SAP S/4HANA documentation.
- The [SAP Readiness Check for SAP S/4HANA](#), the [ABAP custom code analysis](#), as well as the [Simplification Item Checks](#) are based on the information in the Simplification Items.



ID	Title	Application Area	Application Component	SAP Note
S14	Utilities_IDE_OUTGOING_PAYMENT	S4TWL - IDE Outgoing Payment Processing	Industry Utilities	IS-U-IDE 2574403
S03	DE_BAA	S4TWL - Removal of Business Application Accelerator	Cross Topics	BC-DB-DBI 1694697
S07	CM_DCS_ACCESS	S4TWL - Simplified DCS Access	Commodity Management	LO-CMA-BF 2551960
S06	CM_COMMODITY_CURVES	S4TWL - Simplified Commodity Curves	Commodity Management	LO-CMA-BF-FIN-FSCM-TRM-MR 2551913
S58	Logistics_General	S4TWL - Season Active in Inventory Management	Industry Retail & Fashion	LO-RFM-MD, LO-RFM-MD-ART, LO-RFM 2530093
S2	Loans_CML_Banking	S4TWL - CML specific functions with regard to collateral and collateral objects	Industry Banking	FS-CML 2329754, 2059467, 2144079, 2484134, 2369534...
S16	FIN_TRM	S4TWL - Allocation of FX Transactions for Financial Documents and Cash Management	Financials - Treasury and Risk Management	FIN-FSCM-TRM 2524941
S17	Logistics_General	S4TWL - Fashion Functionality	Industry Retail & Fashion	LO-RFM 2516743
S16	Logistics_General	S4TWL - Segment Field Length Extension	Industry Retail & Fashion	LO-RFM, LO-RFM-CA 2522971
S8	Logistics_QM	S4TWL - Removed Navigation to Transactions for Evaluations in QM	Logistics - QM	QM-QN, QM-IM, QM-QC-IS, QM 2340996
S11	Logistics_MM-IM	S4TWL - Blocked customer or supplier in Inventory Management	Logistics - MM-IM	MM-IM-RS, MM-IM-PL, MM-IM-GF, BNS-INT-AR-IM 2516223
S26	MasterData_BP	S4TWL - API RFC_CVI_EI_INBOUND_MAIN is obsolete	Master Data	LO-MD-BP 2506041
S25	MasterData_BP	S4TWL - Batch Input for Customer Master/Supplier Master	Master Data	LO-MD-BP 2492904
S19	PROC_CPRR_SPPR	S4TWL - Webdyno Applications for Purchase Requisition Transfer from ERP to SPM	Procurement	MM-PUR-REQ 2200412
S22	Logistics_EHS - Changed data model CR	S4TWL - Adjustments needed due to changed data model for Compliance Requirement	Logistics - Environment, Health & Safety (EHS)	EHS-MGM-ENV, EHS-SUS-EM 2543223
S19	CT_MRSS	S4TWL - MRS Enhancements for Material Master	Cross Topics	CA-MRS 2493402
S18	CT_BW_EXTRACTORS	S4TWL - BI Extractors in SAP S/4HANA	Cross Topics	XX-SER-REL 2500202
S3	FIN_BILL_SR_DV	S4TWL - Determination of default values in Intra-Period Reporting	Financials - International Trade	BILL-ITR-ISR, BD-FT-GDV 2469294



Access Simplification Items via the Simplification Item Catalog:

- <https://launchpad.support.sap.com/#/sic/>

[SAP S/4HANA on the SAP Help Portal](#): Most current Version of the SAP S/4HANA Simplification List as PDF

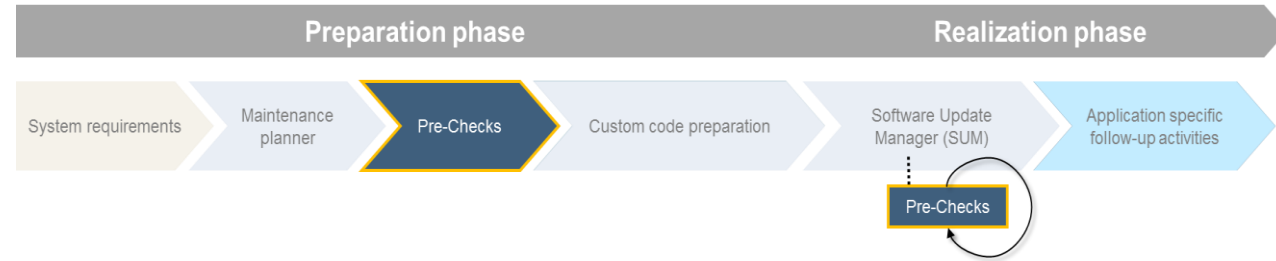
SAP Blog: [SAP S/4HANA Simplification Item Check – How to do it right](#)

SCN Blog: [The TOP Simplification List Items](#)



# Understand Simplifications

## Simplification Item Checks



- Simplification item ('SI') Checks are shipped as SAP TCI Notes.
- SI-checks are executed on the (SAP Business Suite) start system (preparation phase) to determine relevant **Simplification Items and mandatory application specific preparation steps**.
- Check if serious issues exist in the system which could cause the system conversion/upgrade to fail.
- Support not only system conversions to SAP S/4HANA, but also upgrade within SAP S/4HANA
- SI-Checks are executed again as step in the Software Update Manager (SUM). In case dedicated Simplification Items require mandatory preparation steps the conversion procedure can stop to ensure a consistent system conversion.

- » As of SAP S/4HANA 1809 there are **~560** Simplification Items, basically three categories:
  - » Change of existing functionality
  - » Functionality unavailable (equivalent exists /no equivalent)
  - » Non-strategic-function (no equivalent yet /equivalent on roadmap)
- » For a given customer system only **approx. 40 - 60** Simplification Items are typically **relevant and require attention!**

### Customer-specific Simplification List

Title	Component	Category	Relevance	Last	Consist	Exemption	Note
S4TWT - Long Material Number	IS-A-LMN	Change of existing functionality	▲	▲	●	●	2220396
S4TWT - Actual labor and costing	IS-ADEC-ALC	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2445654
S4TWT - Manufacturing Execution Systems	IS-HT-MES	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2383942
S4TWT - Tracking Inbound	IS-A-TRI	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2220352
S4TWT - Software License Management	IS-HT-SW-LIC	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220848
S4TWT - Supplier Workplace	IS-A-SWP	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2220354
S4TWT - Installed Base Management	IS-HT-SW-IB	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220849
S4TWT - Contract Management Enhancements	IS-HT-SW-CM	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220850
S4TWT - Flight Scheduling	IS-ADEC	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220837
S4TWT - Condition Technique in DRM: Rule Configuration	IS-HT-DRM	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220855
S4TWT - BSP based Dealer Portal	IS-A-DP	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2221102
S4TWT - AECMA SPEC 2000M Military Version	IS-ADEC-IS-ADEC-SPC	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2220840
S4TWT - Manufacturer/Supplier Processes	IS-HT-DRM	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220856
S4TWT - Distributor/Reseller Processes	IS-HT-DRM	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220858
S4TWT - Billing Process Enhancements	IS-HT-SW-BIL	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220851
S4TWT - BOS Cost Transfer to PS removed	IS-ADEC-BOQ	Functionality unavailable (no equivalent)	▲	▲	●	●	2223314
S4TWT - Vehicle search using SAP TREX as external search engine	IS-A-IS-A-VMS-IS-A-VMS-SR	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2456102
S4TWT - RosettaNet	IS-HT-RN	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2383076
S4TWT - ETM General	IS-ADEC-ETM	Non-strategic-function (no equivalent yet)	▲	▲	●	●	2383777
S4TWT - Manufacturer Part Number	IS-ADEC-MPN	Change of existing functionality	▲	▲	▲	▲	2498023
S4TWT - Enhancements Subcontracting Special Stock Types Not Av.	IS-ADEC-IS-ADEC-SUB	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220839
S4TWT - User Exits in DRM	IS-HT-DRM	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220853
S4TWT - Obsolete transactions and Enhancements in GPD	IS-ADEC-GPD	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2445653
S4TWT - Storage Location MRP	PP-MRP	Functionality unavailable (equivalent exists)	▲	▲	▲	▲	2268945
S4TWT - Cross-System Trans between Two Plants	IS-A-XLO	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220358
S4TWT - Software Maintenance Processing	IS-HT-SW-SMP	Functionality unavailable (no equivalent)	▲	▲	▲	▲	2220852
S4TWT - SRM Product Master	AP-MD-PRO	Functionality unavailable (equivalent exists)	▲	▲	●	●	2267297
S4TWT - CM: Simplified Market Data	LO-CMM-BF-SD-BF-CPE-MM-P	Functionality unavailable (equivalent exists)	▲	▲	●	●	2460737
S4TWT - CM: Simplified CPE Activation	LO-CMM-BF-MM-PUR-GF-CPE	Change of existing functionality	▲	▲	●	●	2461004
S4TWT - CM: CPE Simplification of Readiness & Rules	LO-CMM-BF-MM-PUR-GF-CPE	Functionality unavailable (no equivalent)	▲	▲	●	●	2461014
S4TWT - Summarization Hierarchies in Controlling	CO-PC-15	Change of existing functionality	▲	▲	●	●	2492882
S4TWT - Technical Changes in Material Ledger with Actual Costing	CO-PC-ACT-FIN-MIG-ML	Change of existing functionality	▲	▲	●	●	2254768
S4TWT - Simplification in Product Compliance for Discrete Industry	EHS-MGM-PRC	Functionality unavailable (equivalent exists)	▲	▲	●	●	2267461
S4TWT - ...	MM-INV	Change of existing functionality	▲	▲	●	●	2221180

### Simplification Item Check

The new check framework will be delivered via one SAP Note and all coded pre-check classes will be delivered with one TCI Note (Transport-Based Correction Instructions)

SAP Business Suite

Simplification Item Check Report



More Information:

- SAP Note: [2399707](#)
- SAP Note: [2418800](#)

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary

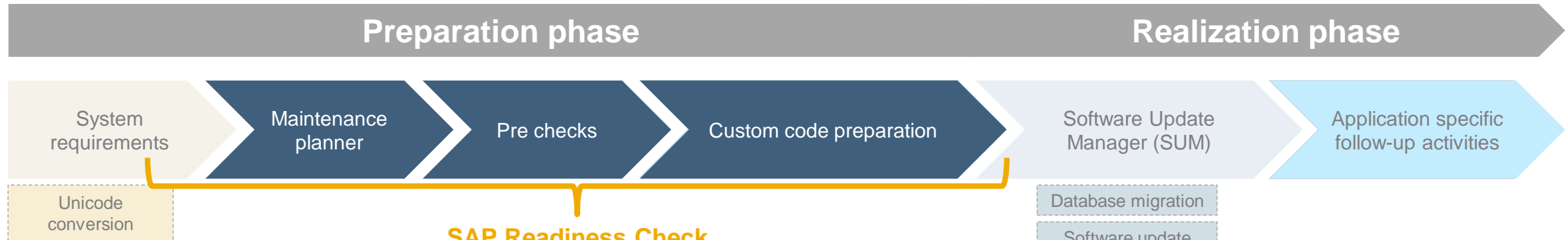
## APPENDIX

- Recommended links to further information

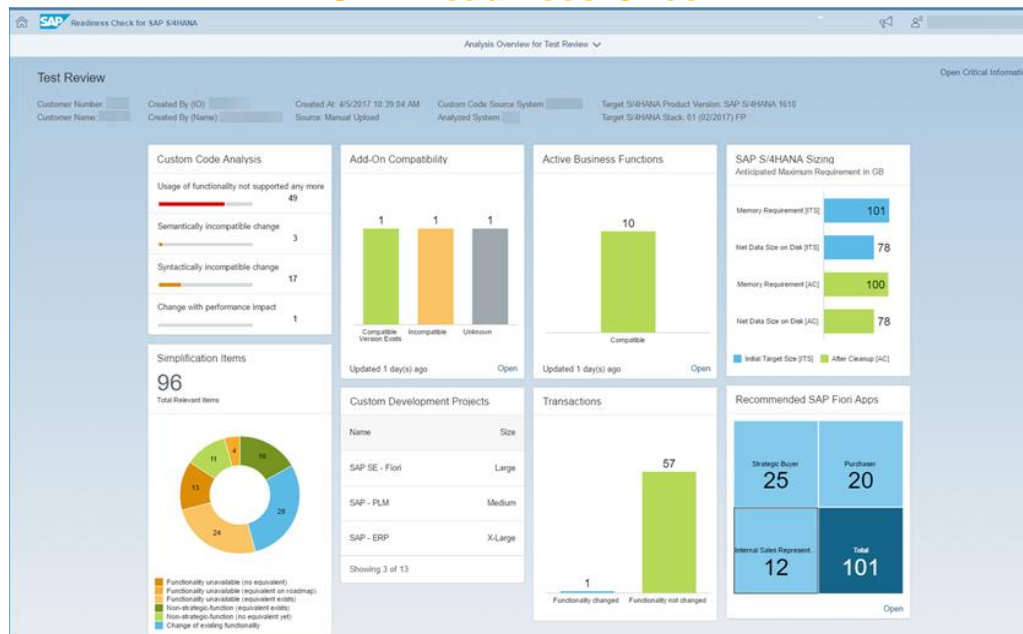


# SAP S/4HANA System Conversion

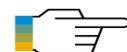
## New SAP Readiness Check



### SAP Readiness Check



- A holistic system analysis is the foundation for further planning steps toward a successful and smooth SAP S/4HANA system transition.
- The SAP Readiness Check for SAP S/4HANA summarizes the most important aspects of the conversion in an easily consumable way.



# SAP Readiness Check for SAP S/4HANA

## Add-Ons & Business Functions

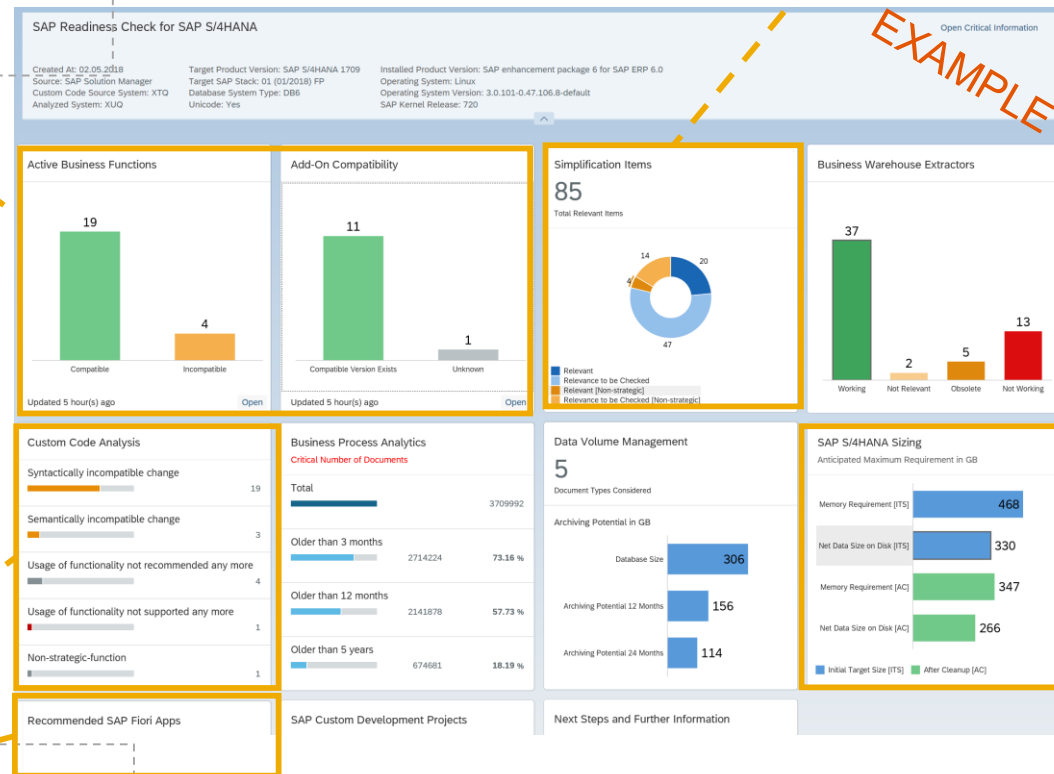
- SAP Add-Ons and Business Functions as well as 3rd party Add-Ons have to be checked for their compatibility with SAP S/4HANA
- SAP software is listed and rated
- 3rd party software is listed only

## Simplification items

- Simplification Items represent application or architecture changes in comparison to ERP
- About 560 Simplification Items exist for SAP S/4HANA 1809
- They are grouped by business priority (e.g. Core Finance) and industry, respectively

## Custom Code & Custom Dev

- Custom Code analysis vs. SAP S/4HANA compliance, based on SAP simplification database
- SAP Readiness Check provides BOM of affected objects as well as SAP Custom Development Projects (CDP's)
- An in-depth custom code management activities to follow during project execution



EXAMPLE

## S/4HANA Sizing

- To prepare for SAP S/4HANA, a system sizing is the baseline for further discussions regarding the future target size
- SAP Readiness Check summarizes the technical sizing result so that customers can further engage internally, with SAP or with partners to discuss the future target system size

## Recommended Fiori Apps

- Fiori apps recommended based on the transaction usage history in the evaluated system

# Understand Simplifications

## SAP Readiness Check for SAP S/4HANA versus Simplification Item Checks

	Type	User Interface	Types of checks included	Called by Software Update Manager (SUM)	Mandatory	Granularity	Use cases	Usable with
<b>SAP Readiness Check for SAP S/4HANA</b>	Customer self service provided by SAP Digital Business Services in <b>SAP Support Portal</b>	Cloud based web interface	<ul style="list-style-type: none"> <li>• <b>Simplification Item Relevance</b> <ul style="list-style-type: none"> <li>• Custom Code</li> </ul> </li> <li>• Recommended Fiori Apps</li> <li>• Add-on Compatibility                             <ul style="list-style-type: none"> <li>• SAP Custom Development Projects</li> </ul> </li> <li>• SAP S/4HANA Sizing</li> <li>• Business Functions</li> </ul>	No	No	High Level	<b>Conversion to SAP S/4HANA</b>	SAP S/4HANA, on-premise edition 1511 or higher
<b>Simplification Item Checks</b>	ABAP Report in <b>Customer System</b>	SAPGUI	<ul style="list-style-type: none"> <li>• <b>Simplification Item Relevance</b> <ul style="list-style-type: none"> <li>• Check System Consistency before the conversion or upgrade</li> </ul> </li> </ul>	Yes	Yes	Detailed	<b>Conversion to SAP S/4HANA</b> Upgrade to a higher SAP S/4HANA release	SAP S/4HANA 1709 or higher

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary

## APPENDIX

- Recommended links to further information



# Some Facts that you have to consider independent of the transition scenario

## → Preparation of master data for customers, vendors, employees, or materials

Some master data has to obey to stricter check rules in SAP S/4HANA. Therefore, this data has to be checked and corrected before going to SAP S/4HANA independent of transition scenario.

## → SAP S/4HANA simplifications

- Concepts such as central business partner, new general ledger or new asset accounting are obligatory in SAP S/4HANA. Design and implementation of these topics are largely the same for any transition scenario.
- For certain applications or functions that are no longer available in SAP S/4HANA you have to implement new solutions as replacement. Efforts for these activities are virtually the same in both transition scenarios

## → SAP HANA DB

If you move for the first time to SAP HANA as database, operational changes are the same.

## → Interfaces

Most standard interfaces to external systems and data sources shall still work with SAP S/4HANA. In case of exceptions, necessary adjustments are virtually the same in both transition scenarios.

## → Become familiar with **Simplification Items** for target release. Sufficient time for workshops, training (Change Management) has to be included in the project plan.

# Key Success Factors

- Conversion to SAP S/4HANA requires applications / functional staff and consultants with broad knowledge of **Financials, Controlling and Asset Accounting**
- Ensure **availability of key business people** to work with application consultants on resolving functional issues
- Consistency checks for master data is more restrictive in SAP S/4HANA, especially important: **Customer/Vendor/Employee, Financials/Controlling and Material master**.  
→ Prior to running the system conversion this data shall be thoroughly analyzed and cleaned.
- Consider setting up a **pre-project to resolve data inconsistencies** in Finance. They should be resolved before project starts in order to avoid any delays
- Plan 2 to 3 **test conversions** on a sandbox/isolated system (refresh / new copy of the system might be necessary) before setting up development system
- An accurate project planning can be done only after the first conversion on a sandbox/copy of production has been finished
- Identify all the activities which can be done at any time and execute them before or during the preparation phase
- Plan **Dress Rehearsal** (test conversion of productive system under real-time conditions)
- Maintain a detailed '**Run Book**' with as much as possible details, all the steps performed, the sequence, the errors and the resolution and also the time required for each activity.



# Recommendations

- Check if (consistent) **archiving** can be done to reduce data volume to be converted
- Check the compatibility of the 3rd party products as soon as possible and allocate time for **more extensive testing**
- Both **SAP Fiori** and **Embedded Analytics** should be considered to leverage the full potential of SAP S/4HANA
- Plan a dedicated **SAP Fiori Expert Role** as part of the project team to work with business, functional and basis
- Plan **sufficient time** for **testing of roles and changes in authorizations**
- Use the **opportunity to replace Custom Code** with standard functionality where possible
- BW Extractors → Simplification Item [2500202](#) - S4TWL - BW Extractors in SAP S/4HANA
- Consider to migrate from SAPscript forms to Adobe Document Services

# Summary: Actual findings from customer projects & recommendations

- **System conversion projects are in average shorter and cost less than new implementation (Greenfield) projects**
  - Many customers choose system conversion for doing a ‚technical uplift‘ to the SAP S/4HANA platform; intensive adoption of new SAP S/4HANA applications and SAP Fiori UI Technology is often addressed in follow-up projects.
- Analysis of installed-base SAP S/4HANA projects with a (planned) go-live in 2018 or later shows, that almost half chose system conversion, this trend is rising...
- **SAP S/4HANA Finance and SAP S/4HANA Enterprise Management projects have pretty much the same project duration**
  - In general a two-step approach by moving to SAP S/4HANA via SAP S/4HANA Finance does not make sense
- **Is a phased approach possible?**
  - Phased move to SAP S/4HANA by organization units (company code- / client-wise → LT scenario), vs.
  - System conversion approach with reduced scope as a technical uplift for all organizational entities with low impact, followed by individual process optimizations/adaptations per organizational entity.
- For SAP ERP on any DB customers **a two-step approach via SAP ERP on SAP HANA has in general no significant benefits** (individual exceptions may make sense in case of for non-unicode systems & for SAP ERP system releases < SAP ERP 6.0)
- We plan to stop offering system conversion paths from SAP ERP to older SAP S/4HANA releases for new projects.
  - System conversions will always be possible to the latest two SAP S/4HANA releases (on ‚stable stacks‘).

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Key Recommendations

## Summary

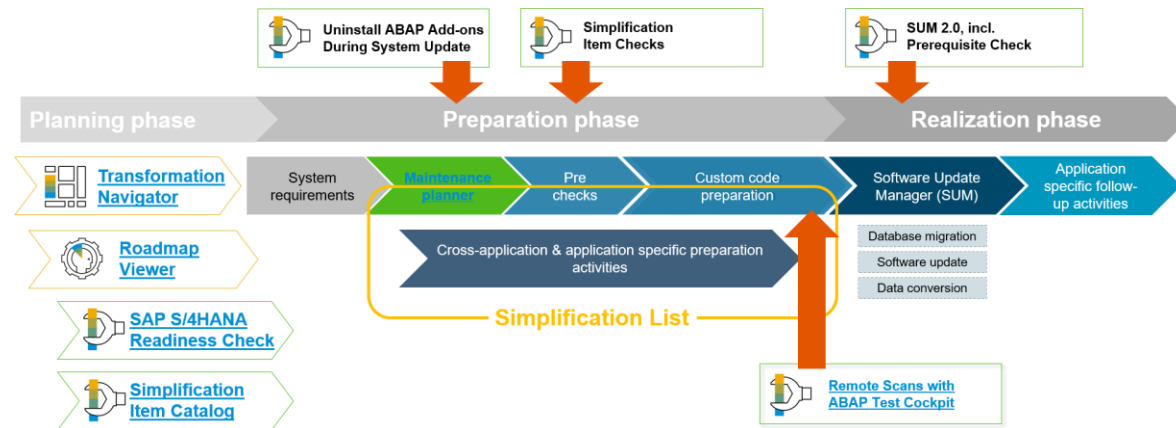
## APPENDIX

- Recommended links to further information



# Summary: Recommended Preparation for a System Conversion Project

- Familiarize yourself with the available tools which can support your transition project!



- Run the [Maintenance Planner](#) early to confirm that your SAP ERP system (incl. SAP and partner add-ons) can technically be converted to SAP S/4HANA.
- Start your project planning by running the [SAP Readiness Check for SAP S/4HANA](#) to get an overview and planning baseline about important topics you need to take care about and the related efforts and required skills.

- The [SAP Roadmap Viewer](#) provides access to complete SAP Activate Methodology content (all tasks, templates and accelerators) and contain project experience from SAP S/4HANA implementations and supports implementation projects of SAP S/4HANA with a structured documentation.
- Run the [Simplification Items checks](#) as soon as possible, as some business process adaptations may be complex and require more time than expected.
- Start early with those preparation and cleanup activities which can already be done in your current SAP ERP system – as indicated by the Simplification Items. I.e. clean up of your customer and vendor data in preparation for the Customer/Vendor Integration (CVI) in SAP S/4HANA.
- Check your custom code with ABAP Test Cockpit and optimize it for SAP S/4HANA. Further info on <https://blogs.sap.com/2017/02/15/sap-s4hana-system-conversion-custom-code-adaptation-process/>
- Visit the related deep-dive sessions here at SAP TechEd (see next slide).

# Thank you.

Contact information:

**Roland Hamm** ( [roland.hamm@sap.com](mailto:roland.hamm@sap.com) )

# Agenda

## SAP S/4HANA – A short Introduction

- Architecture & Release strategy

## Overview Transition Scenarios

## System Conversion and managing Simplifications

## SAP Readiness Check

## Summary

## APPENDIX

- Recommended links to further information

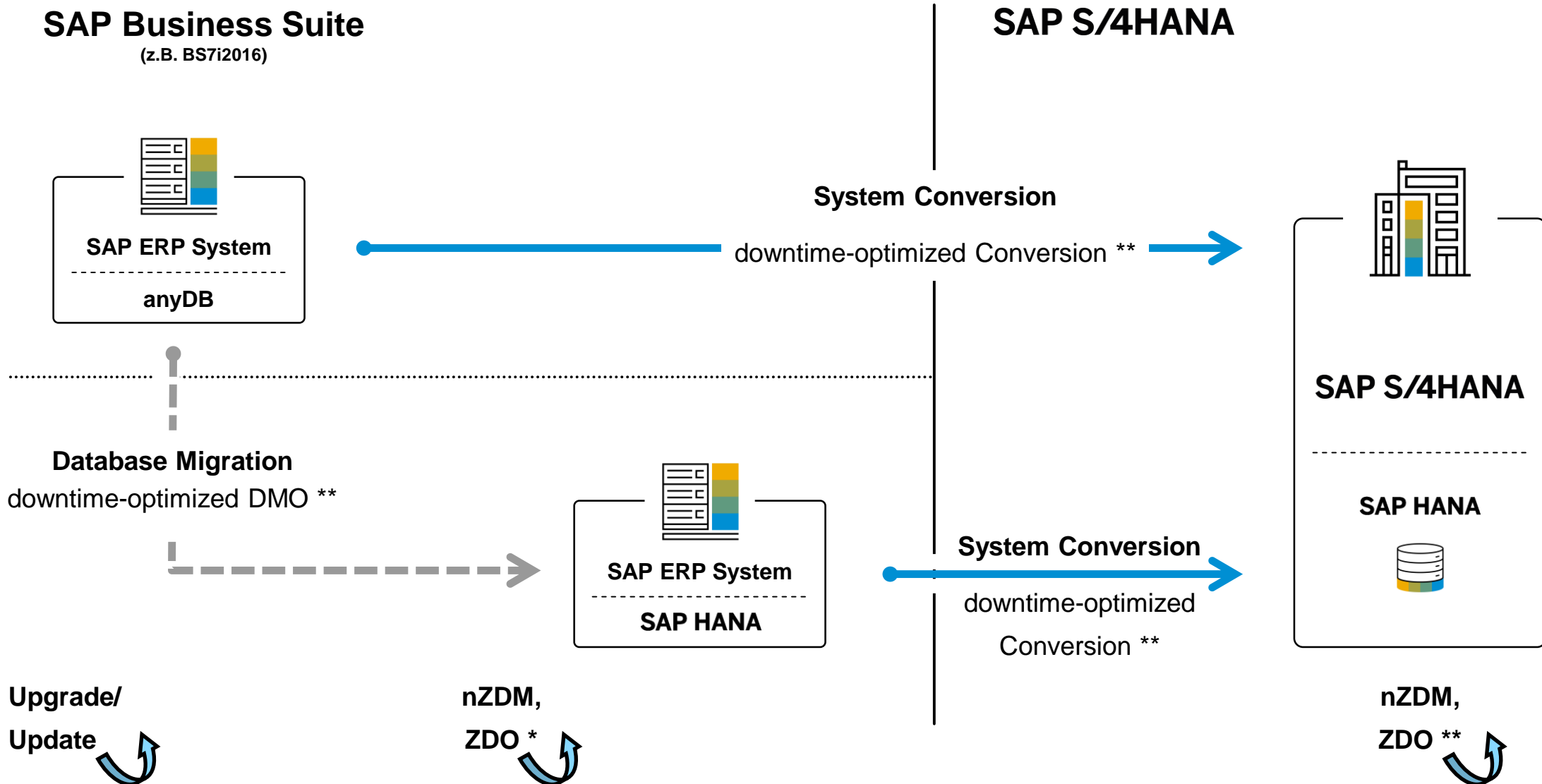


# **APPENDIX:**

# **Downtime Optimized Conversion Options**

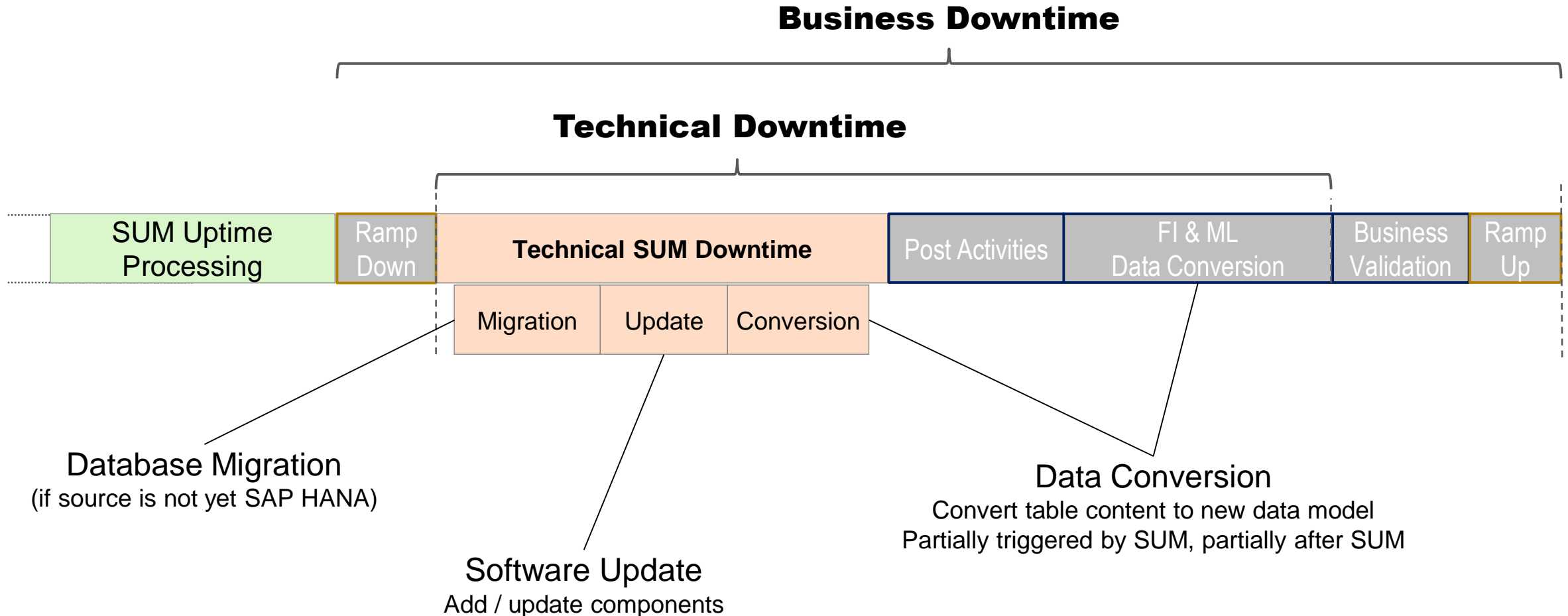


# Downtime-optimization approaches of Software Update Manager 2.0



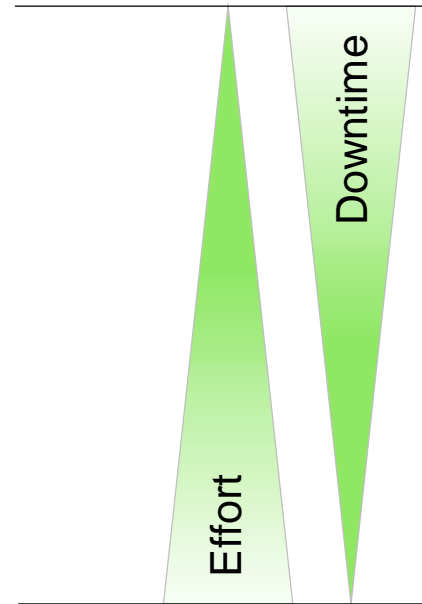


# Main conversion steps with focus on technical downtime



# Downtime-optimization approaches

- Standard approach**  
 using Software Update Manager (SUM) with several optimizations
- Downtime-optimized conversion approach**  
 uses SUM as well, and reduces downtime by moving data conversion and migration partly to uptime (currently only piloted)
- Near-Zero Downtime Technology approach**  
 allows further reduction of downtime by executing the conversion on a clone; it is a consulting service project (aka NZDT)



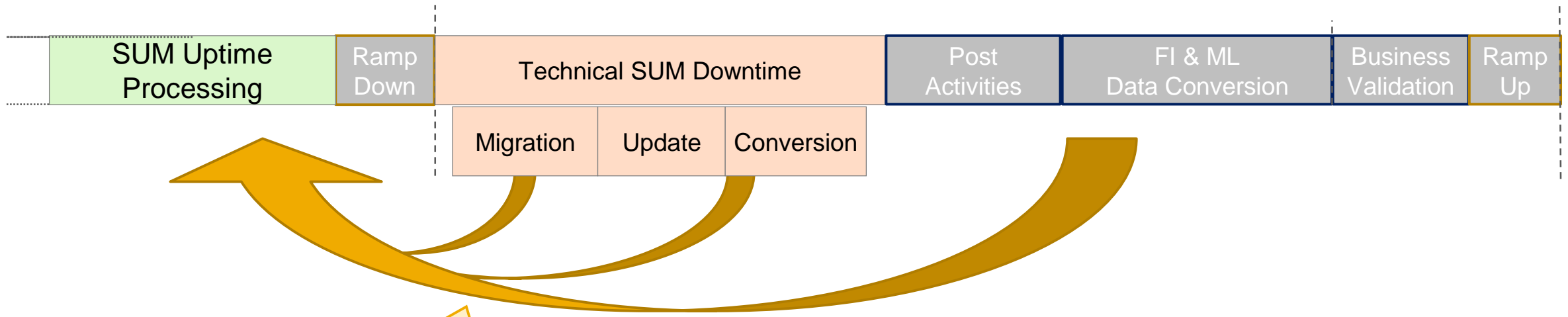
Decision about approach depends on several factors and should be taken after a **migration planning workshop**.  
 (Service component of SAP Value Assurance for SAP S/4HANA)

Approach Path:	1709	1809
Standard	✓	✓
Downtime-Optimized Conversion	piloted	piloted
NZDT	piloted	✓

# Downtime-optimized conversion approach

Lab Preview

- **Table conversion** moved to uptime processing
- **Field conversion** moved to uptime processing (KONV and VBFA tables)
- **Uptime migration** for selected big application tables (without data conversion)



**Conversion partially moved to uptime** for

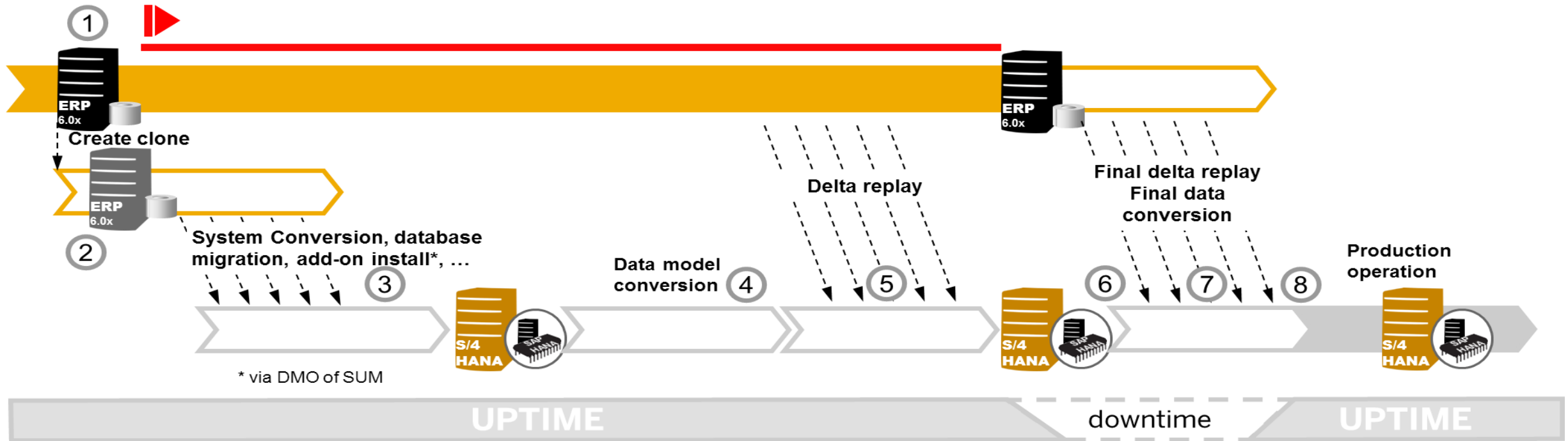
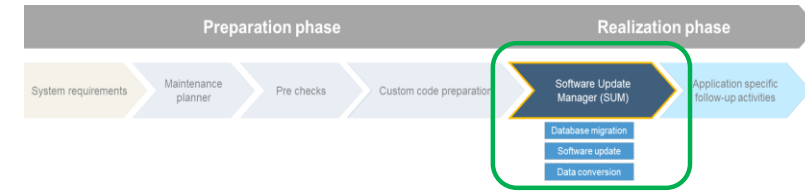
- FIN and Material Ledger (MM-ML) & Inventory Management (MM-IM)
- KONV and VBFA tables



SAP Note 2293733 for Prerequisites and Restrictions

# SAP S/4HANA system conversion with SUM

## Customer specific approach (NZDT)



1. Start recording on productive system
2. Create the clone of productive system
3. Start system conversion in clone to S/4HANA – SUM/DMO
4. Convert the data to SAP S/4HANA data model (FIN/LOG migration)

5. Start on-line replay of the recorded data (incl. data model conversion)
6. Begin downtime and finalize replay of the recorded data
7. Convert the remaining data to SAP S/4HANA data model
8. Validate the system and GoLive with SAP S/4HANA

# Downtime-Optimierungsansätze für SUM-Aktivitäten

Ansatz	Abkürzung	Szenario	Verfügbarkeit*	SAP Hinweis
<b>near-Zero Downtime Maintenance (ABAP) **</b>	nZDM (ABAP)	Update/Upgrade	Generell verfügbar	<a href="#">1678565</a>
<b>Zero Downtime Option</b>	ZDO	Update/Upgrade	Pilot	<a href="#">2707731</a>
downtime-optimized Database Migration Option	<b>downtime-optimized DMO</b>	Migration zur SAP HANA database	Pilot	<a href="#">2442926</a>
<b>downtime-optimized Conversion</b>		Conversion zu SAP S/4HANA	Pilot	<a href="#">2293733</a>
near-Zero Downtime Maintenance (JAVA)	nZDM Java	Update/Upgrade	Generell verfügbar	<a href="#">2422909</a>
<b>Near Zero Downtime Technology</b>	NZDT	mehrere	Service-basiert	<a href="#">693168</a>

\* Derzeitiger Stand der Planung, kann von SAP jederzeit geändert werden.

\*\* Dies ist unterschiedlich zu *nZDM for SAP HANA database*

# Minimized Downtime Service Approach

## Discovery Phase

### First Contact

- Complete MDS questionnaire
- Provide contact information
- Suggest date/time for initial information call

### Initial Information Call

- high level information on MDS
- Indicate further interest
- Follow up questions

## Plan Phase

### Planning Workshop

- Detailed information on MDS
- High level project planning
- Roles and responsibilities

### Contracting

- High level price indication
- Contract development
- Contract signature

## Execution Phase

### Preparation

- Project setup
- Prerequisite completion

### Test Runs

- End to end test iteration
- Optimization

### Dress Rehearsal

- Final end to end test iteration

### Go Live

- Productive Cutover
- Hypercare

# Zero Downtime Option of SUM

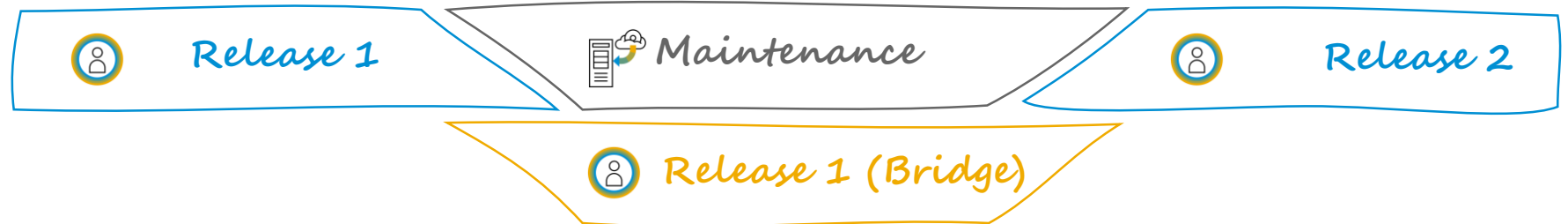
Maintenance procedure without technical downtime

## Motivation



Perform maintenance events of the ABAP applications without technical downtime and almost no business downtime.

## Solution Approach



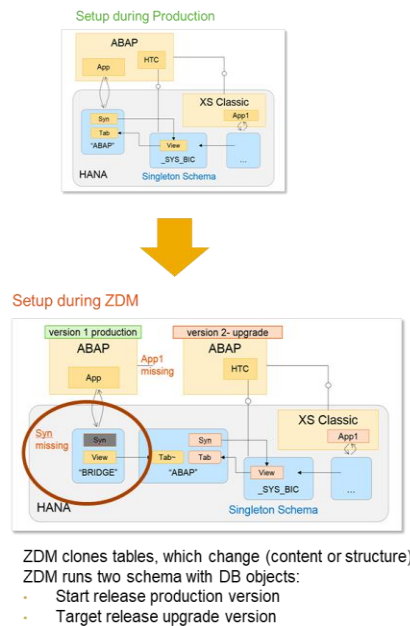
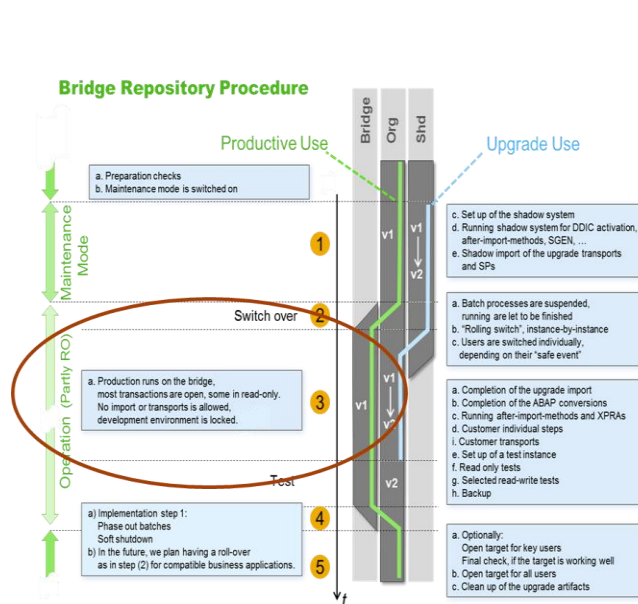
# Development Outlook: Zero Downtime Maintenance for S/4HANA Release Upgrades and (F)SP Updates



## Business case:

- No interruption of business during software upgrades and updates
- Upgrade and maintenance windows possible at any time
- Instant and continuous adoption of software innovations

→ PLANNED: will become a SAP S/4HANA on-Premise product capability for S/4HANA Release Upgrades and (F)SP Updates



## ZDM Building blocks for S/4HANA:

- **Maintenance Tool readiness:** Software Update Manager (SUM) with zero-downtime-option (ZDO) for S/4HANA Release Upgrades and SP Updates will be able to orchestrate and run the technical maintenance process.
- **S/4HANA Application readiness: All within the SAP S/4HANA on premise shipment delivered applications are**
  - **either fully ZDO enabled** (→ will run without limitations within a ZDO environment throughout the whole uptime phase of the maintenance event), or
  - **have documented limitations**, so that single application functionality is (in a controlled manner) not available during uptime phases of the zero downtime maintenance process, and
  - **do not block/hinder the zero downtime maintenance procedure in general and/or cause additional business outages.**
- **E2E Testing of S/4HANA applications within a ZDM environment**

## Outlook for customer PoC's:

- **SP updates with ZDO option**, planned start release 1809 FSP(1or2, to be decided)
- A PoC offering for **release upgrade with ZDO option** for selected customer cases with 1809 FPS01/02 to 1909SPS00 is currently under investigation

## Outlook for ZDO Release Upgrades readiness

- Start release enablement planned for release 1909



# APPENDIX: more useful links



# Additional Resources: Define the Business Case (1/2)

Source	Description	Link
SAP Portal	<b>SAP Road Maps</b> highlight innovations and provide a robust planning horizon to help detail the transformation journey	Go to <a href="https://www.sap.com/products/roadmaps.products-solutions.html">https://www.sap.com/products/roadmaps.products-solutions.html</a>
SAP Help Portal	<b>SAP S/4HANA Help Portal landing page</b>	Go to <a href="https://help.sap.com/viewer/p/SAP_S4HANA_ON-PREMISE">https://help.sap.com/viewer/p/SAP_S4HANA_ON-PREMISE</a>
SAP Portal	<b>Discover SAP S/4HANA</b> , our next-generation ERP Software	Go to <a href="https://www.sap.com/products/s4hana-erp.html">https://www.sap.com/products/s4hana-erp.html</a>
SAP S/4HANA Trial	Explore <b>SAP S/4HANA with a 30-day trial</b> . You will experience the value of instant insight across end-to-end business processes	Go to <a href="https://www.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise.html">https://www.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise.html</a>
SAP S/4HANA Cloud Trial	Start your <b>SAP S/4HANA Cloud experience now with a free 14-day trial</b> . You will discover the value of simplicity across concrete roles and predefined business scenarios	Go to <a href="https://www.sap.com/registration/trial.fe5ab812-4278-4ed7-bfe6-14f55d4c0630.html">https://www.sap.com/registration/trial.fe5ab812-4278-4ed7-bfe6-14f55d4c0630.html</a>
SAP Innovation Discovery	<b>SAP Innovation Discovery</b> , find the innovations and features that you can turn into tangible value for your business	Go to <a href="https://go.support.sap.com/innovationdiscovery/">https://go.support.sap.com/innovationdiscovery/</a>
SAP Best Practices Explorer	You can explore the complete <b>SAP Best Practice portfolio</b> and narrow down the list step-by-step, by choosing an area of business or technology	Go to <a href="https://rapid.sap.com/bp/#/browse/categories/sap_s%254hana">tps://rapid.sap.com/bp/#/browse/categories/sap_s%254hana</a> → SAP S/4HANA
SAP Roadmap Viewer	This Roadmap is intended to guide the implementation team through the <b>Transition to SAP S/4HANA</b> and is comprised of phases, deliverables and tasks using SAP Activate methodology	Go to <a href="https://go.support.sap.com/roadmapviewer/#/">https://go.support.sap.com/roadmapviewer/#/</a> → Select "Roadmap: Transition to SAP S/4HANA"
SAP Blog	Understand the <b>available transition options</b>	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2017/07/06/how-to-find-my-path-to-s4hana-understand-the-available-transition-options/">https://blogs.sap.com/2017/07/06/how-to-find-my-path-to-s4hana-understand-the-available-transition-options/</a>

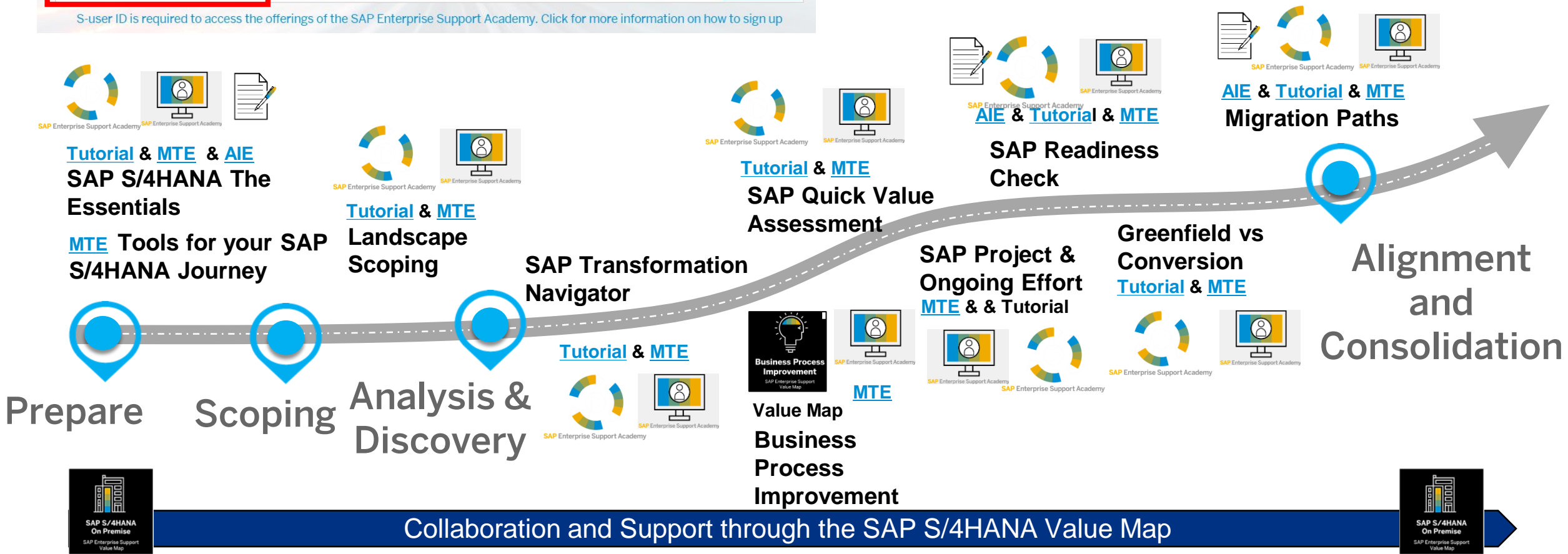
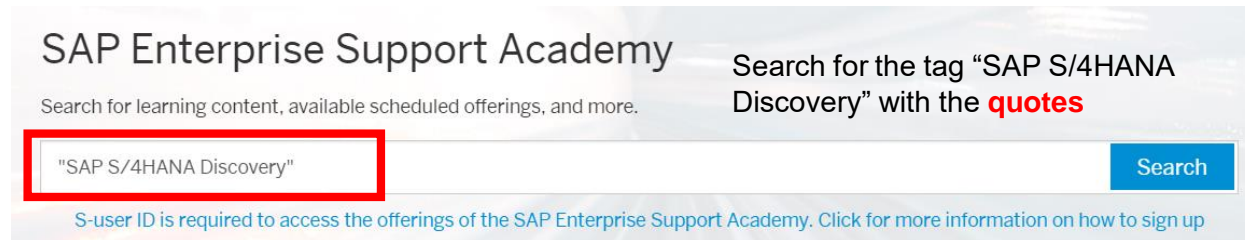
## Additional Resources: Define the Business Case (2/2)

Source	Description	Link
Business Scenario Recommendations (BSR)	Get Your <b>Personalized Business Scenario Recommendations Report for SAP S/4HANA</b>	Go to <a href="https://www.s4hana.com/">https://www.s4hana.com/</a>
SAP Solution Explorer Tool	SAP Solution Explorer tool helps match your business needs to solutions	Go to <a href="https://solutionexplorer.sap.com/solexp/ui/vlm/is_s4hana_onpremise/vlm/is_s4hana_onpremise-ind-is_s4hana_onpremise">https://solutionexplorer.sap.com/solexp/ui/vlm/is_s4hana_onpremise/vlm/is_s4hana_onpremise-ind-is_s4hana_onpremise</a>
SAP Tool	<b>SAP Value Lifecycle Manager</b> , measure the expected value of your SAP initiatives with benchmarking surveys and business case tools	Go to <a href="https://valuemanagement.sap.com">https://valuemanagement.sap.com</a>
SAP Innovation Pathfinder Tool	SAP <b>Innovation and Optimization Pathfinder for SAP ERP</b> , Discover how SAP can help you to optimize and innovate your existing SAP ERP system. Take just a few minutes to share your company information and receive your personalized, free report	Go to <a href="http://www.sap.com/pathfinder">http://www.sap.com/pathfinder</a>
SAP Fiori apps reference library	Explore, plan and implement <b>SAP Fiori</b> , the latest user experience from SAP including all relevant content for the SAP Fiori launchpad	Go to <a href="https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/">https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/</a>
SAP HANA Hub	Access to SAP S/4HANA custom success stories	Go to <a href="http://www.saps4hanahub.com/h/">http://www.saps4hanahub.com/h/</a>
SAP Portal – Transformation Navigator	<b>SAP Transformation Navigator</b> provides clear guidance to the Intelligent Enterprise and creates your future SAP Product Roadmap based on your current SAP products	Go to <a href="http://www.sap.com/TransformationNavigator">http://www.sap.com/TransformationNavigator</a>

# SAP S/4HANA Discovery: Define a Transition Roadmap to SAP S/4HANA

SAP Enterprise Support Content\* - [public blog](#)

Visit us at [SAP Enterprise Support Academy](#) and enter the search tag “SAP S/4HANA Discovery” with the quotes



# Additional Resources with SAP Enterprise Support (1/2)

Source	Description	Link
SAP Enterprise Support Academy: MTEs	<p>Recent MTEs delivered in H2-2018:</p> <ul style="list-style-type: none"> <li>▪ Tools for your SAP S/4HANA journey</li> <li>▪ SAP S/4HANA The Essentials</li> <li>▪ SAP Readiness Check for SAP S/4HANA</li> <li>▪ Built your Product Roadmap – SAP Transformation Navigator</li> <li>▪ SAP S/4HANA Conversion in Finance (Part 1) - Overview and Preparation</li> <li>▪ SAP S/4HANA Conversion in Finance (Part 2) – Realization</li> <li>▪ SAP S/4HANA Finance</li> <li>▪ Customer Vendor Integration – Journey Towards SAP S/4HANA ,</li> <li>▪ SAP S/4HANA Central Finance</li> <li>▪ SAP S/4HANA Digital Logistics</li> <li>▪ Extensibility of SAP S/4HANA – An End-to-End Scenario</li> </ul> <p>New MTEs in Q1-2019</p> <p>SAP S/4HANA Sourcing and Procurement Overview – scheduled on Jan 22</p> <p>SAP S/4HANA Sales Force Support Overview – scheduled on Feb 5</p> <p>SAP S/4HANA Advanced Order to Cash Processes – scheduled on Feb 19</p>	Go to <a href="https://support.sap.com/en/offerings-programs/enterprise-support/enterprise-support-academy.html">https://support.sap.com/en/offerings-programs/enterprise-support/enterprise-support-academy.html</a> → Search by MTE name
SAP Enterprise Support Value Map	<b>SAP Enterprise Support Value Map for SAP S/4HANA</b>	Sign up here: <a href="https://support.sap.com/valuemaps">https://support.sap.com/valuemaps</a> → “Sign Up” → Choose the SAP S/4HANA on premise Value Map
SAP Blog	Understand the <b>key elements for your Digital Transformation Journey with SAP S/4HANA</b>	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2018/12/14/key-elements-for-your-digital-transformation-journey-with-sap-s4hana/">https://blogs.sap.com/2018/12/14/key-elements-for-your-digital-transformation-journey-with-sap-s4hana/</a>



## Additional Resources with SAP Enterprise Support (2/2)

Source	Description	Link
SAP Enterprise Support <b>EGI</b> Duration: 4 days - 2hrs per day	EGI <b>"SAP S/4HANA: Roadmapping"</b> Explains capabilities of SAP Finance and SAP Logistics in SAP S/4HANA. Demonstrate the Business Value of using SAP S/4HANA for SAP Finance and SAP Logistics.	Go to <a href="https://support.sap.com/esacademy">https://support.sap.com/esacademy</a> → Access Learning content <b>Search by course ID: SUP_EDE_0010_1812 or course name</b>
SAP Enterprise Support <b>EGI</b> Duration: 5 days - 2hrs per day	EGI <b>"Plan Your Conversion to SAP S/4HANA"</b> Help you to plan the conversion of your existing SAP ERP system to S/4HANA	Go to <a href="https://support.sap.com/esacademy">https://support.sap.com/esacademy</a> → Access Learning content <b>Search by course ID: SUP_EDE_0140_1712 or course name</b>
SAP Enterprise Support <b>EGI</b> Duration: 5 days - 2hrs per day	EGI <b>"Plan Your Conversion to SAP S/4HANA"</b> Help you to plan the conversion of your existing SAP ERP system to S/4HANA	Go to <a href="https://support.sap.com/esacademy">https://support.sap.com/esacademy</a> → Access Learning content <b>Search by course ID: SUP_EDE_0140_1712 or course name</b>
SAP Enterprise Support <b>EGI</b> Duration: 5 days - 2hrs per day	EGI <b>"SAP S/4HANA Implementation with SAP Activate"</b> Explains the end to end implementation of SAP S/4HANA using SAP's recommended framework, SAP Activate	Go to <a href="https://support.sap.com/esacademy">https://support.sap.com/esacademy</a> → Access Learning content <b>Search by course ID: SUP_EDE_0040_1712 or course name</b>
SAP Enterprise Support <b>EGI</b> Duration: 3 days à 2h	EGI <b>"SAP Readiness Check tool for SAP S/4HANA"</b> Explains how to prepare and run the check as well as how to analyze and follow-up on the results	Go to <a href="https://support.sap.com/esacademy">https://support.sap.com/esacademy</a> → Access Learning content → Search

# Additional Resources: Application Specific Preparation

Source	Description	Link
OpenSAP courses	OpenSAP successfully helps to enable the SAP Ecosystem to upskill, free of charge. Key recommended courses are: Find Your Path to SAP S/4HANA, System Conversion to SAP S/4HANA, Data Migration to SAP S/4HANA	Go to <a href="https://open.sap.com/">https://open.sap.com/</a> → Select <a href="https://open.sap.com/courses/s4h5">https://open.sap.com/courses/s4h5</a> → Select <a href="https://open.sap.com/courses/s4h11">https://open.sap.com/courses/s4h11</a> → Select <a href="https://open.sap.com/courses/s4h8">https://open.sap.com/courses/s4h8</a>
SAP Help Portal	SAP S/4HANA Help Portal – <b>Feature scope description 1809 (PDF)</b> and <b>Learning Journeys: SAP S/4HANA Scope and Business Processes</b>	Go to <a href="https://help.sap.com/doc/e2048712f0ab45e791e6d15ba5e20c68/1809.000/en-US/FSD_OP1809.pdf">https://help.sap.com/doc/e2048712f0ab45e791e6d15ba5e20c68/1809.000/en-US/FSD_OP1809.pdf</a> and <a href="http://help.sap.com/s4hana">http://help.sap.com/s4hana</a> and <a href="https://help.sap.com/doc/221f8f84afef43d29ad37ef2af0c4adf/HP_2.0/en-US/500c836e7a261014a62bed2bad9ef0fa.html">https://help.sap.com/doc/221f8f84afef43d29ad37ef2af0c4adf/HP_2.0/en-US/500c836e7a261014a62bed2bad9ef0fa.html</a>
SAP Portal	<b>SAP Road Maps</b> highlight innovations and provide a robust planning horizon to help detail the transformation journey	Go to <a href="https://www.sap.com/products/roadmaps.products-solutions.html">https://www.sap.com/products/roadmaps.products-solutions.html</a>
SAP Portal	<b>Discover SAP S/4HANA</b> , our next-generation ERP Software	Go to <a href="https://www.sap.com/products/s4hana-erp.html">https://www.sap.com/products/s4hana-erp.html</a>
SAP S/4HANA Trial	Explore <b>SAP S/4HANA with a 30-day trial</b> . You will experience the value of instant insight across end-to-end business processes	Go to <a href="https://www.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise.html">https://www.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise.html</a>
Customer Vendor Integration Cook Book	This document is intended as guidance on the topic of Customer Vendor Integration (CVI) which is one of the key simplifications in SAP S/4HANA that affects most SAP customers	Go to <a href="https://support.sap.com/content/dam/SAAP/SAP_Activate/S4H.0781%20SAP%20S4HANA%20Cookbook%20Customer%20Vendor%20Integration.pdf">https://support.sap.com/content/dam/SAAP/SAP_Activate/S4H.0781%20SAP%20S4HANA%20Cookbook%20Customer%20Vendor%20Integration.pdf</a>
SAP Blog	Understand the <b>top simplification list items</b>	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2016/11/09/the-top-simplification-list-items/">https://blogs.sap.com/2016/11/09/the-top-simplification-list-items/</a>
BI Extractors	SAP note 2500202 provides full transparency for customers on availability of BI extractors in SAP S/4HANA	Go to <a href="https://launchpad.support.sap.com/#/notes/2500202">https://launchpad.support.sap.com/#/notes/2500202</a>

# Additional Resources: Technical Preparation and Execution (1/3)

Source	Description	Link
SAP Blog	<b>SAP S/4HANA System Conversion</b> – At a glance	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2016/11/02/sap-s4hana-system-conversion-at-a-glance/">https://blogs.sap.com/2016/11/02/sap-s4hana-system-conversion-at-a-glance/</a>
OpenSAP courses	System Conversion to SAP S/4HANA	Go to <a href="https://open.sap.com/">https://open.sap.com/</a> → Select <a href="https://open.sap.com/courses/s4h11">https://open.sap.com/courses/s4h11</a>
SAP Help Portal	<b>SAP Maintenance Planner</b>	Go to <a href="https://help.sap.com/viewer/p/MAINTENANCE_PLANNER">https://help.sap.com/viewer/p/MAINTENANCE_PLANNER</a>
SAP Blog	<b>SAP Maintenance Planner</b>	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2015/07/09/maintenance-planner-2/">https://blogs.sap.com/2015/07/09/maintenance-planner-2/</a> and <a href="https://blogs.sap.com/2016/05/26/maintenance-planner-release-highlights/">https://blogs.sap.com/2016/05/26/maintenance-planner-release-highlights/</a>
Simplification Item Catalog	To help customers to better prepare for the transition to SAP S/4HANA the <b>simplification item catalog</b> provides customers with a description of all relevant changes that might have an impact when converting from SAP ERP to SAP S/4HANA Within each topic, which is referred to as a "simplification item", corresponding SAP Notes and mitigation possibilities are documented.	Go to <a href="https://launchpad.support.sap.com/#sic">https://launchpad.support.sap.com/#sic</a>



## Additional Resources: Technical Preparation and Execution (2/3)

Source	Description	Link
SAP Blog	<b>Pre-checks in System Conversion</b> , provides an understanding what is Pre-check(s) report as a tool and what does it provide to the system conversion	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2016/12/10/pre-checks-in-system-conversion/">https://blogs.sap.com/2016/12/10/pre-checks-in-system-conversion/</a>
SAP Blog	SAP <b>S/4HANA Simplification Item Check – How to do it right. This is not a one-shot blog post, but will be regularly updated</b> with the most recent information concerning SAP S/4HANA Simplification Item Checks.	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2018/03/26/sap-s4hana-simplification-item-check-how-to-do-it-right./">https://blogs.sap.com/2018/03/26/sap-s4hana-simplification-item-check-how-to-do-it-right./</a>
SAP Blog	<b>ABAP Test Cockpit</b> – an Introduction to SAP's new ABAP Quality Assurance Tool	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2012/09/19/abap-test-cockpit-an-introduction-to-sap-s-new-abap-quality-assurance-tool/">https://blogs.sap.com/2012/09/19/abap-test-cockpit-an-introduction-to-sap-s-new-abap-quality-assurance-tool/</a> Additional blogs: <ul style="list-style-type: none"> <li><a href="#">Remote Code Analysis in ATC – One central check system for multiple systems on various releases</a></li> <li><a href="#">Remote Code Analysis in ATC – Technical Setup step by step</a></li> <li><a href="#">Remote Code Analysis in ATC – Working with Baseline to suppress findings in old legacy code</a></li> <li><a href="#">Remote Code Analysis in ATC for Developers</a></li> <li><a href="#">Remote Code Analysis in ATC – Working with Exemptions</a></li> <li><a href="#">Remote Code Analysis in ATC – Scanning customer extensions</a></li> <li><a href="#">Remote Code Analysis in ATC – Working efficiently with ATC Result List</a></li> <li><a href="#">Remote Code Analysis in ATC – FAQ</a></li> </ul>

## Additional Resources: Technical Preparation and Execution (3/3)

Source	Description	Link
SAP Blog	<b>ABAP Call Monitor (SCMON)</b> - Analyze usage of your code	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2017/04/06/abap-call-monitor-scmmon-analyze-usage-of-your-code/">https://blogs.sap.com/2017/04/06/abap-call-monitor-scmmon-analyze-usage-of-your-code/</a>
SAP Portal	<b>ABAP Testing and Analysis Community</b>	Go to <a href="https://www.sap.com/community/topics/abap-testing-analysis.html">https://www.sap.com/community/topics/abap-testing-analysis.html</a>
Support Portal	<b>ABAP custom code migration</b> and recommendations for SAP HANA:	<ul style="list-style-type: none"> <li>SAP Note: <a href="https://support.sap.com/en/notes/1912445">1912445</a> and SAP Community: <a href="https://blogs.sap.com/2016/04/22/abap-custom-code-adaption-for-sap-hana-the-efficient-way/">https://blogs.sap.com/2016/04/22/abap-custom-code-adaption-for-sap-hana-the-efficient-way/</a></li> </ul> <p>Further information see</p> <ul style="list-style-type: none"> <li>SAP Community Blog on <a href="https://blogs.sap.com/2017/02/15/sap-s4hana-system-conversion-custom-code-adaptation-process/">https://blogs.sap.com/2017/02/15/sap-s4hana-system-conversion-custom-code-adaptation-process/</a></li> <li>SAP Note: <a href="https://support.sap.com/en/notes/2241080">2241080</a> and SAP Note: <a href="https://support.sap.com/en/notes/2190420">2190420</a></li> </ul>
SAP Blog	How to use SUM to check source system prior to System Conversion	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2018/03/29/howto-use-sum-to-check-source-system-prior-to-system-conversion/">https://blogs.sap.com/2018/03/29/howto-use-sum-to-check-source-system-prior-to-system-conversion/</a>
SAP Blog	System Conversion: news since 1610	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2017/10/23/system-conversion-news-since-1610/">https://blogs.sap.com/2017/10/23/system-conversion-news-since-1610/</a>
SAP Blog	SUM 2.0.	Go to <a href="https://blogs.sap.com">blogs.sap.com</a> and search for: <a href="https://blogs.sap.com/2017/08/10/sum-in-the-family-way/">https://blogs.sap.com/2017/08/10/sum-in-the-family-way/</a> For all information about using the SUM, please see the document Conversion of SAP Systems to SAP S/4HANA using Software Update Manager available at: <a href="https://support.sap.com/sltoolset">support.sap.com/sltoolset</a> in section <i>System Maintenance</i>
SAP Help	Migration Cockpit and SAP Data Services with Rapid Data Migration content	Go to <a href="https://help.sap.com/viewer/29193bf0ebdd4583930b2176cb993268/1809.000/en-US/8f97f0b407024465a283809f0bbe000c.html">https://help.sap.com/viewer/29193bf0ebdd4583930b2176cb993268/1809.000/en-US/8f97f0b407024465a283809f0bbe000c.html</a> and <a href="https://help.sap.com/viewer/p/SAP_DATA_SERVICES">https://help.sap.com/viewer/p/SAP_DATA_SERVICES</a>

# APPENDIX: further information



**SAP S/4HANA**

**Tools – Transformation Navigator**

# SAP Transformation Navigator

Our customers are asking for clear guidance for their digital journey to reimagining business models, business processes, and how their people work.

The self-service **SAP Transformation Navigator tool** recommends an SAP S/4HANA-centric product map based on the products a customer is currently using and on its business and IT priorities.

SAP Transformation Navigator builds on SAP road maps and produces an individualized document that highlights business value, shows integration from SAP S/4HANA to our cloud solutions, explains available transformation services, and provides license information for additional products and solutions.

Discover [SAP Transformation Navigator](#)\* for guidance to your future SAP S/4HANA-centric product map

\*Accessible to all internal users and S-users as of May, 15 2017



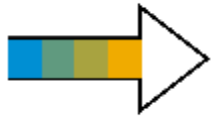


# SAP Transformation Navigator generates the set of customer guides

## SAP Transformation Navigator (self service tool)



Generates



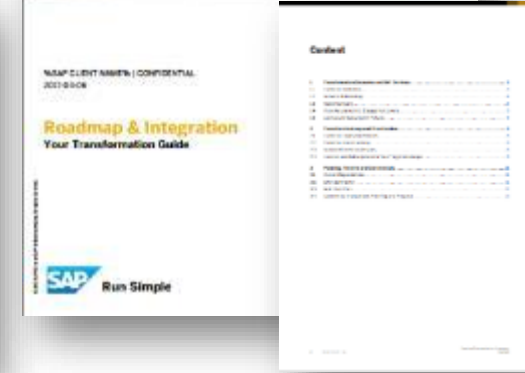
### Business Guide Why?



### Technical Guide What?



### Transformation Guide How?



**SAP S/4HANA**

**Tools – Roadmap Viewer**

# SAP Activate Methodology im SAP Roadmap Viewer

Customer and Partner have access to the SAP Activate Methodology

## SAP Roadmap Viewer

### Benefits

- SAP Fiori application that provides access to complete SAP Activate Methodology content (all tasks, templates and accelerators)
- Geared to use in a transition and implementation projects including SAP S/4HANA and SAP BW/4HANA and is used as a starting point for project planning
- Contain project experience from S/4HANA implementations and supports implementation projects of SAP S/4HANA with a structured documentation
- Harmonized implementation approach for cloud, on-premise and hybrid deployments



<https://go.support.sap.com/roadmapviewer>

Transition to SAP S/4HANA

Roadmap

Search

Discover Phase

Prepare Phase

Explore Phase

Realize Phase

Deploy Phase

Run Phase

Explore /

Fit-Gap / Delta Design - Introduction Deliverable

Description Accelerators

The purpose of Fit-Gap / Delta Design is to validate the predefined scenarios and enhancements (based on Best Practices for new implementation or the sandbox for system conversion), and identify potential gaps between the delivered product and customer's requirements.

Three significant steps will be the baseline for the deliverables out of the activity Fit-Gap / Delta Design:

- Fit Gap Analysis / Solution Validation
- GAP Validation
- Delta Design / Solution Design

The following picture shows the Fit-Gap activities for a new implementation. For conversion scenarios, the sequence of steps is the same – however, the aim of certain steps differ. For instance, step #6 – Delta Design – also documents the configuration “must-do’s” which need to be performed due to the business processes which are already in use in the source system.

Step A: Fit Gap Analysis / Solution Validation

1. Finalize System Setup

2. Fit Gap Workshops / Validation of SAP Solution

3. GAP Documentation

4. Delta Scope Prioritization

5. GAP Validation

Step B: Delta Design

6. Verify & Accept

7. Design Review / Solution Review for critical processes

8. Delta Design

9. Delta Design for Process to Fit

Product Backlog

© 2018 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

Terms of Use Copyright and Trademarks Legal Disclosure Privacy 沪ICP备0904801



# Transition Roadmap in *Roadmap Viewer*



**Solution and Product**

Customer Login Required (S-User) – Road Maps are available to S-Users. Your S-User login is required to access this information. Please contact your SAP account manager for assistance.

Visit [this page](#) to view Road Map Webinars and recent Road Maps.

Welcome to the Roadmap Viewer in SAP Solution Manager

**SAP HANA Technology Platform** 2 of 2

[View All](#)

General 3 of 3

Solution Specific 6 of 6

Transition to SAP S/4HANA [Download Project Plan](#) [Accelerators](#)

Description: **Roadmap Structure**

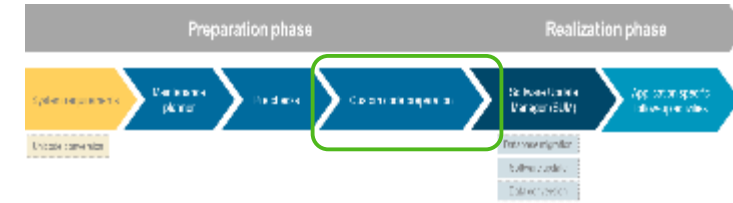
Phases	Workstreams	Services
Discover >	Application: Design & Configuration >	Planning the Digital Transformation >
Prepare >	System & Data Migration >	Engagement Foundation >
Explore >	Application: Solution Adoption >	Custom Code Management >
Realize >	Project Management >	Platform Execution >
Deploy >	Custom Code Extensions >	Build Design Support >
Run >	Analytics >	Analytics Design Support >
	Application: Testing >	Data Migration Design Support >
	Technical Architecture & Infrastructure >	Platform Design Support >
	Transition to Operations >	Transition to Operations >
		Build Execution >
		Safeguarding >
		Analytics Execution >
		Data Migration Execution >

[Follow this link to Roadmap Viewer](#)

**SAP S/4HANA**

**Tools – Custom Code Adaption**

# Custom Code Activities: SAP ERP vs. SAP S/4HANA



SAP S/4HANA specific

Adapt your custom code to SAP S/4HANA.

- Supported via standard code check tools (ABAP Test Cockpit)

Applies to SAP S/4HANA & SAP ERP

Like in SAP ERP, custom code activities include

- regularly remove obsolete custom code, unnecessary modification and clones.
- regularly run all code checks (e.g. functional correctness, performance, security...) provided by SAP (ABAP Test Cockpit) on your custom code.
- regularly do performance profiling and optimization of your custom code (general as well as SAP HANA specific).
- define suitable test concepts and test your custom code (including test automation).
- follow custom code best practices (ABAP, SQL in general and SAP HANA specific).
- do SPDD, SPAU, SPAU\_ENH adjustments during lifecycle events.

Optimize (SAP HANA, ABAP in general)

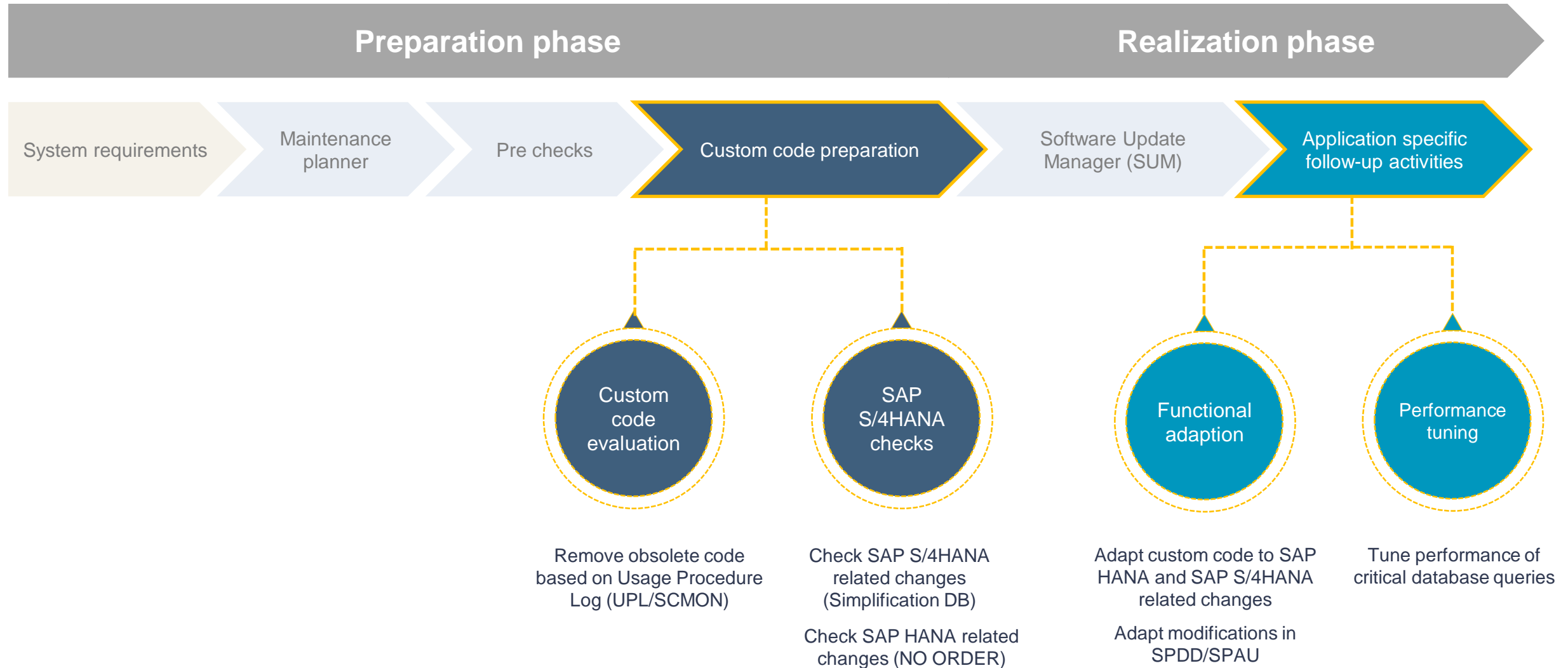
Like in SAP ERP, do custom code activities

- on a regular basis, accompanying your development activities.
- with increased focus and intensity during major lifecycle events.
  - In case of SAP S/4HANA: before the conversion to SAP S/4HANA and before a release upgrade.

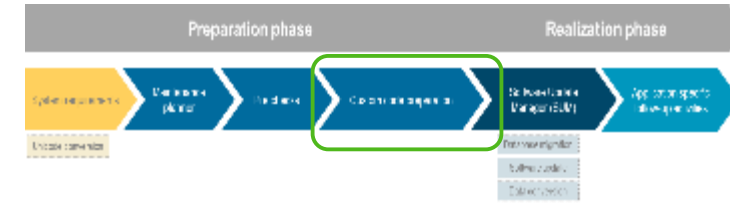
Housekeeping (cleanup, check, test)

# SAP S/4HANA system conversion

## Custom code related process

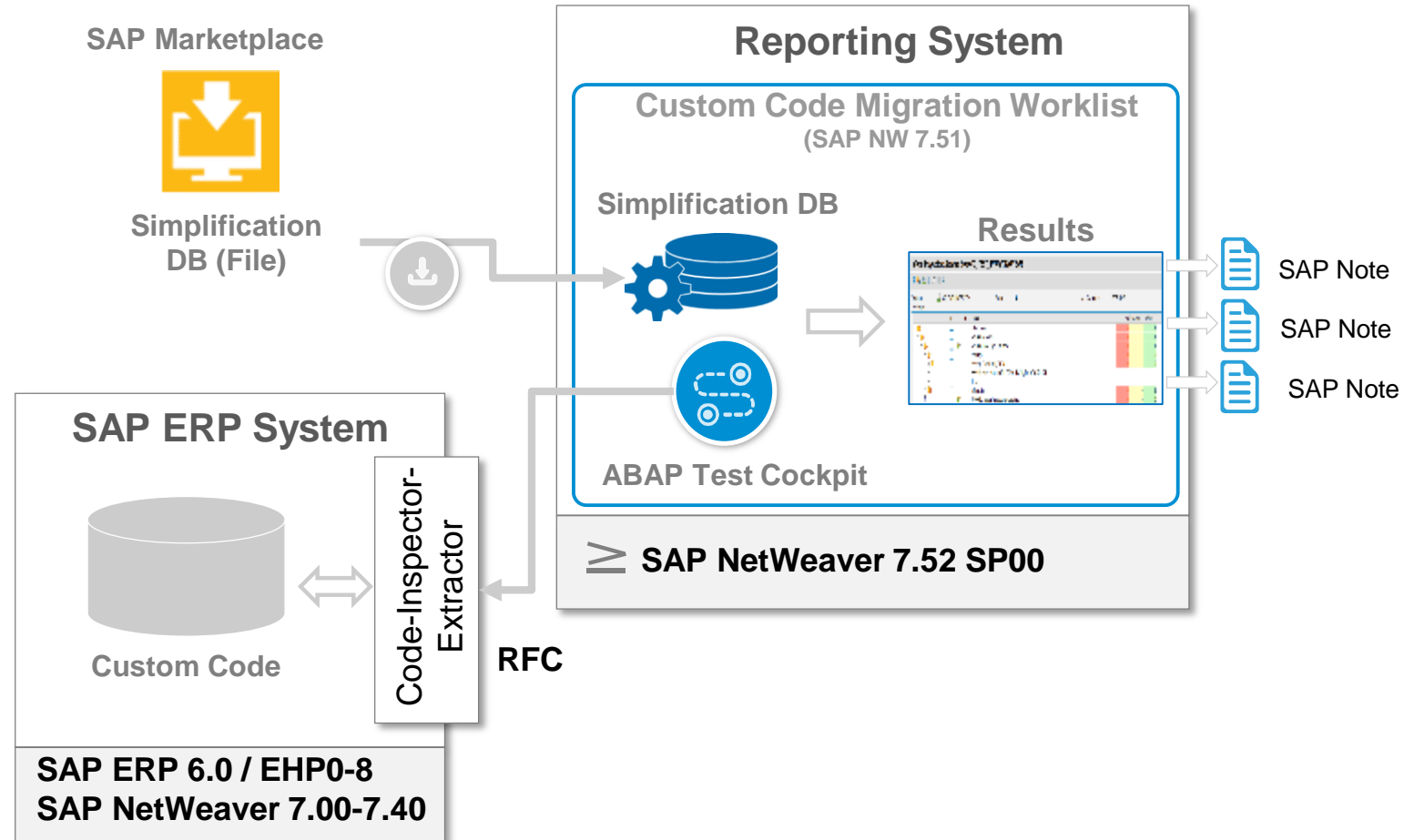


# SAP S/4HANA: Custom Code Check



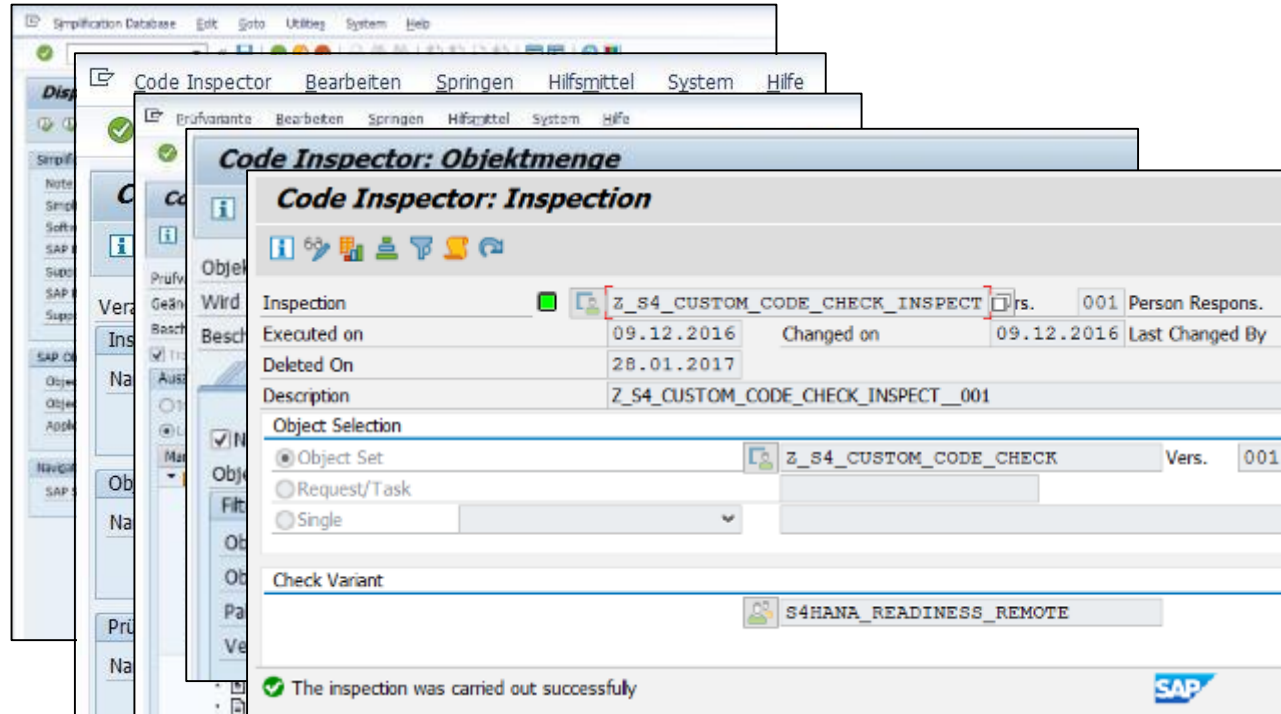
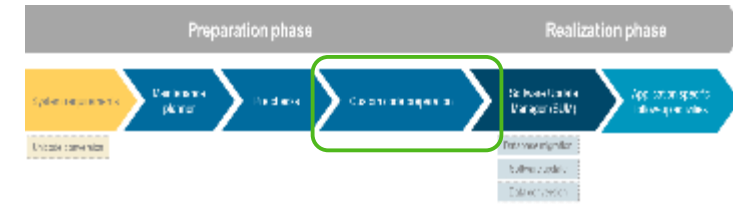
## SAP S/4HANA Custom Code Check

- Can be analyzed based on existing SAP Business Suite
- Custom Code Check is based on SAP Code Inspector. Dedicated Code Inspector variants are provided.



**i** More information about SAP Code inspector: [Link](#)

# SAP S/4HANA: Custom Code Check



1. Download Custom Code Check content
2. Start Code Inspector (TRX: SCI)
3. Use Check Variant: *S4HANA\_READINESS*
4. Specify Objects to be checked
5. Start Inspection Run
6. Analyse Check Results

	D...	...	E...	Tests	Error	Warnings	Information
				List of Checks	78	7	137
				S/4HANA Readiness	78	7	137
				S/4HANA: Field length extensions	7	7	137
				S/4HANA: Search for database operations	0	0	0
				S/4HANA: Search for usages of simplified objects	71	0	0
				S/4HANA: Search for ABAP Dictionary enhancements	0	0	0
				S/4HANA: Search for base tables of database views	0	0	0

# What you can do today in your SAP Business Suite landscape

Get your custom code prepared for SAP S/4HANA

## You **should**

- Collect productive usage and SQL execution data
  - Switch on SCMON (recommended) or UPL
  - Switch on SQL Monitor
- Create new code “S/4HANA ready”
  - Setup remote ATC
  - Use S/4HANA ATC checks in your dev system
- Make your developers “S/4HANA ready”
  - Gain practical skills in ADT in Eclipse
  - Get familiar with S/4HANA must-have technologies (e.g. CDS, BOPF, OData)



## You **could**

- Start to adapt your code in your dev system
  - Convert to Unicode
  - Fix SAP HANA ATC findings (e.g. NO ORDER)
  - Optimize performance critical SQLs found in SQL Monitor
- Estimate custom code adaptation efforts
  - Run S/4HANA ATC checks for all custom code



# Automatic Code Adaptations (Quick Fixes)

**FUTURE**

- **Quick Fixes** are planned to be made available in **ABAP IDE (Eclipse)** in order to minimize custom code adaptation efforts.
- Quick Fixes offer correction proposals, which a developer can choose from and accept.
- It will be possible to execute **Mass Quick Fixes** on a number of related findings, e.g. on package level.

The screenshot displays the ABAP IDE interface. The main editor shows the following code:

```
7  
8 select * from sflight into table @data(itab).  
9  
10 if sy-subrc = 0.  
11 read table itab index 1 into data(wa_itab).  
12 if wa_itab-carrid = 'LH'.  
13 write  
14 endif.  
15 endif.
```

A Quick Fix popup is visible over line 11, offering two suggestions:

- Add ORDER BY PRIMARY KEY\*
- Add SORT ITAB\*

At the bottom of the IDE, the 'ATC Problems' view is open, showing a breadcrumb: 'UIA > S4HANA\_READINESS > Last Check Run'. Below this is a search bar labeled 'type filter text'. The problem list shows:

- Worklist: 1 Infos
- Infos (1)
  - READ TABLE ... INDEX 1 for result of statement at Include TF\_TEST\_NO\_ORDER\_ISSUE line 8



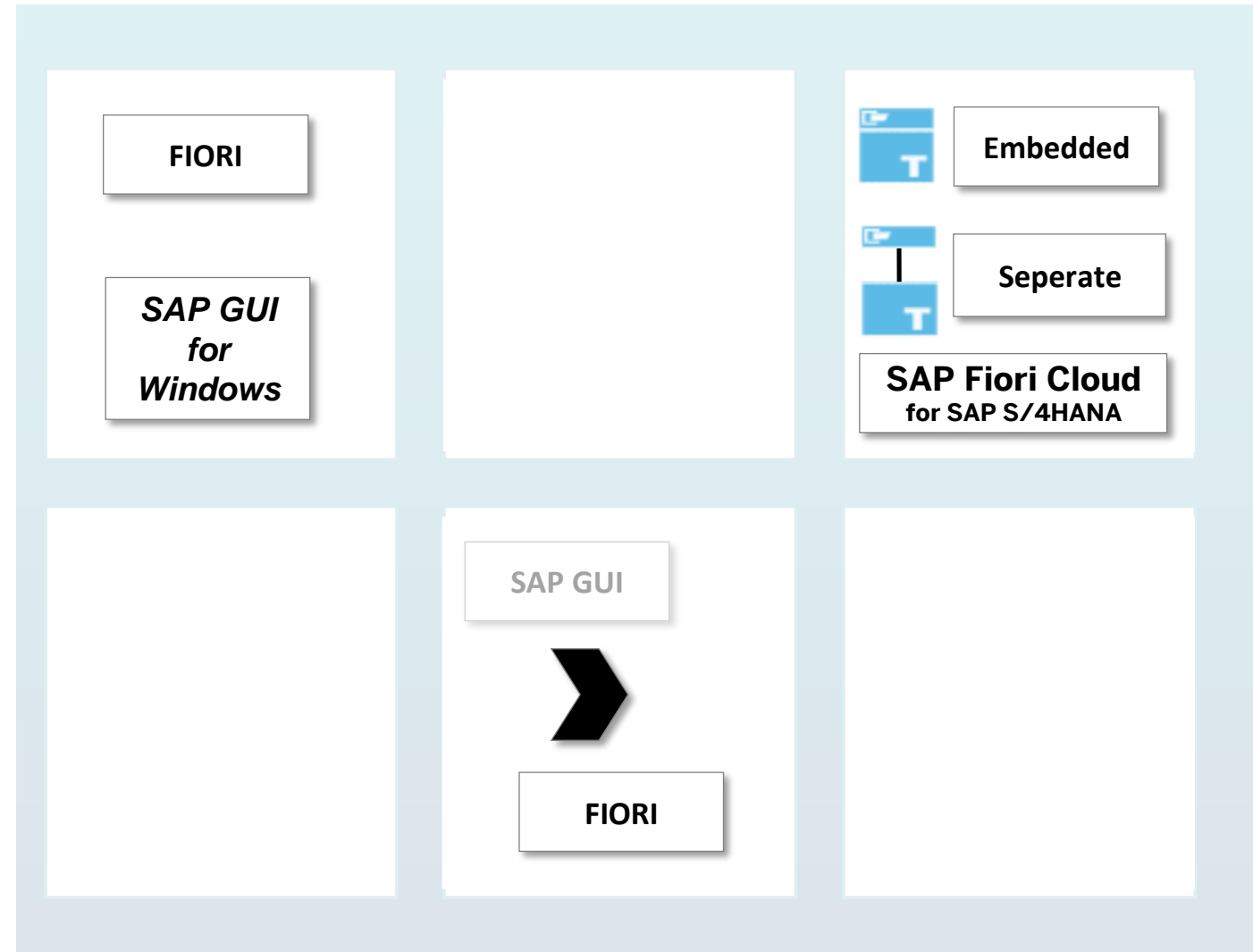
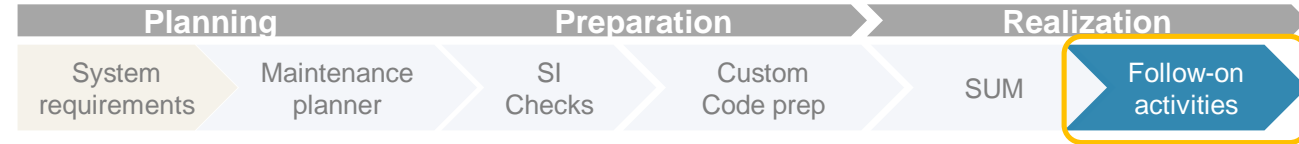
**SAP S/4HANA**

**Introduce SAP Fiori**

# SAP S/4HANA

## FIORI Aspects

- **SAP Fiori UX is new UI experience**, target architecture for SAP S/4HANA
- **Fiori und SAP GUI** are both supported (for exceptions see *Simplification List*)
- **Relevance and Readiness Analysis** recommends Fiori Apps based on T-codes
- **Deployment:** embedded, separate, or SAP Fiori Cloud for SAP S/4HANA
- **Stepwise Implementation** of Fiori Apps possible



**APPENDIX: END**



Follow us



[www.sap.com/contactsap](http://www.sap.com/contactsap)

© 2018 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

See [www.sap.com/copyright](http://www.sap.com/copyright) for additional trademark information and notices.