

Overview on SAP S/4HANA Transition and Migration Patterns

Barry Hodges, Senior Solution Architect



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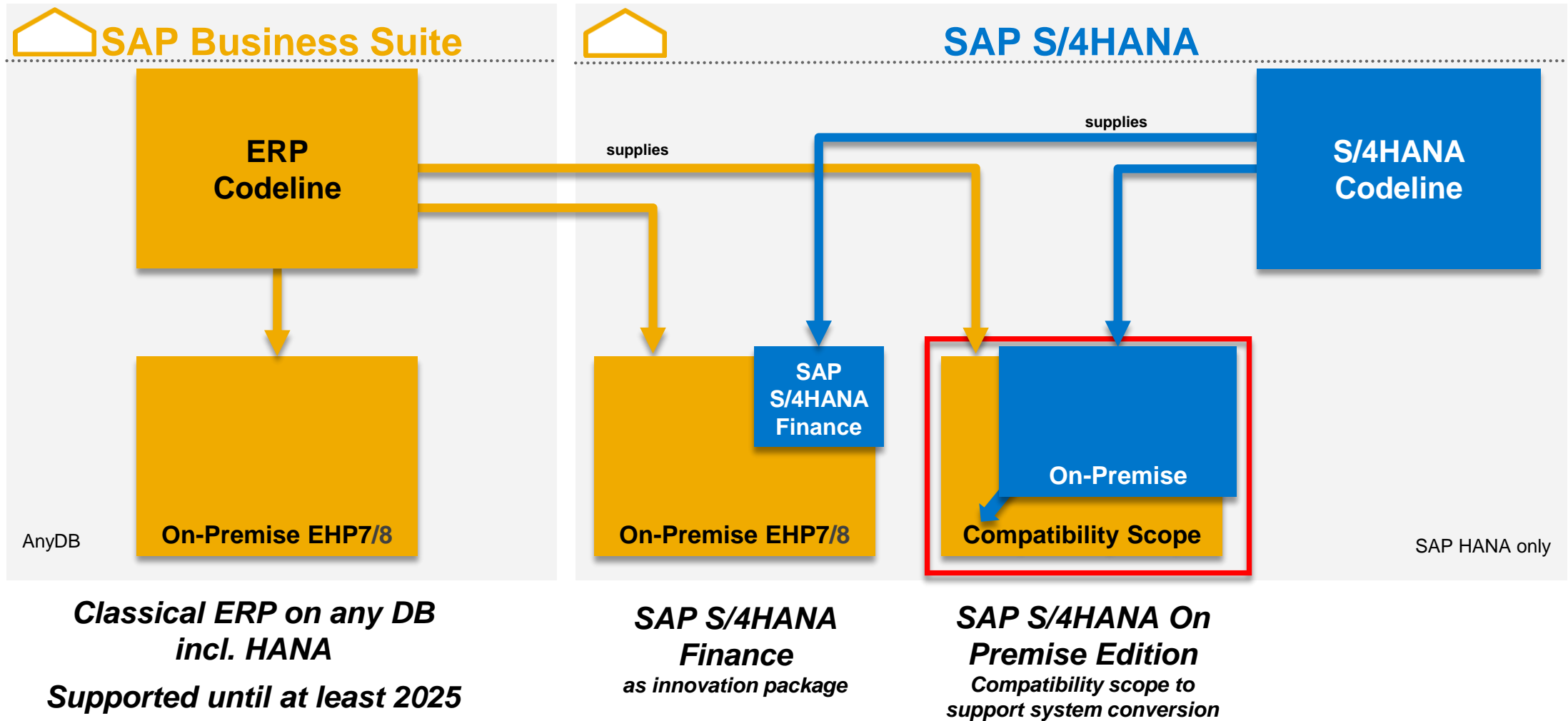
- » S/4HANA: Successor or New Product
- » Transition to S/4HANA: 3 scenarios
- » Focus on System Conversion
- » Supporting Services



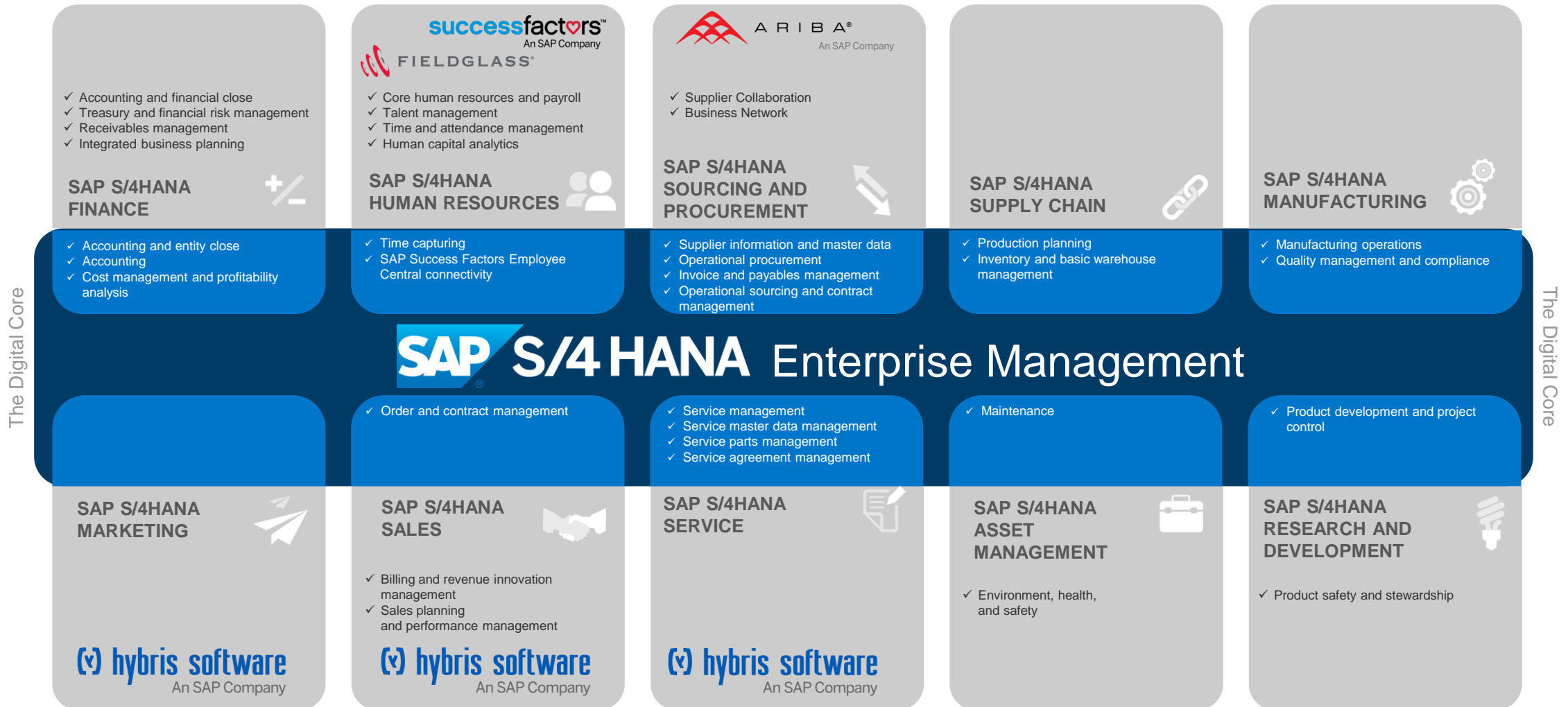
- » **S/4HANA: Successor or New Product**
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Relation between SAP ERP and SAP S/4HANA

Lab Preview

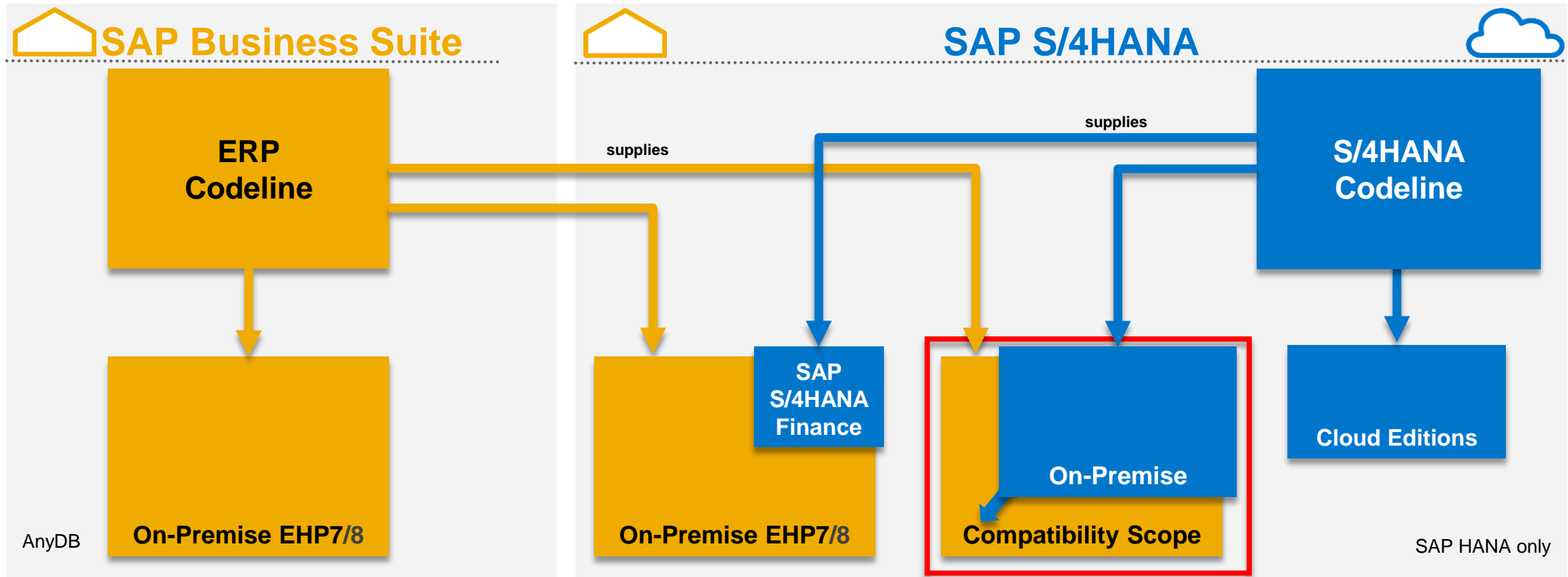


SAP S/4HANA 1511 (released to General Availability 10 Nov 2015)



Relation between SAP ERP and SAP S/4HANA

Lab Preview



**Classical ERP on any DB
incl. HANA**
Supported until at least 2025

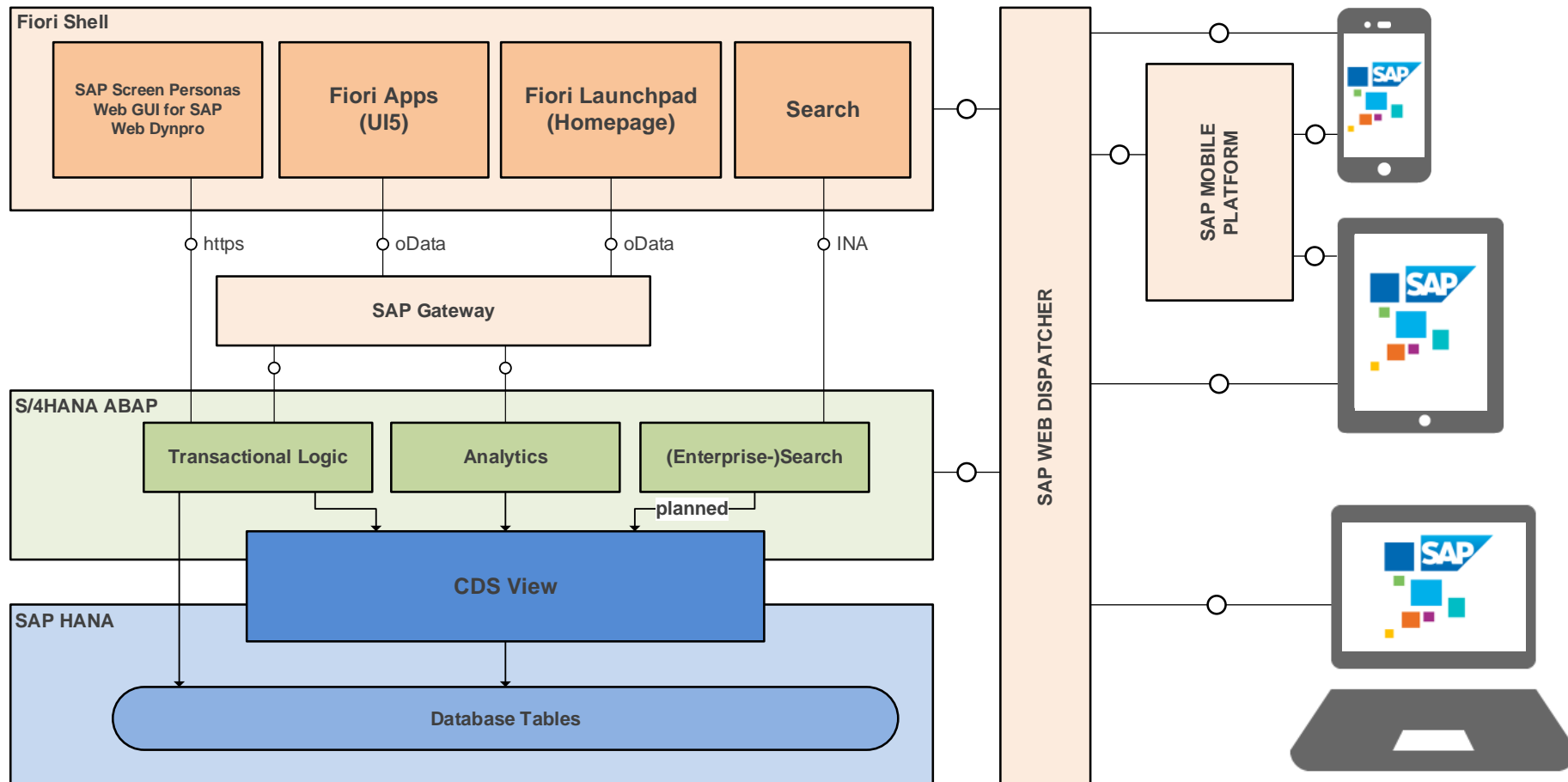
**SAP S/4HANA
Finance**
as innovation package

**SAP S/4HANA On
Premise Edition**
*Compatibility scope to
support system conversion*

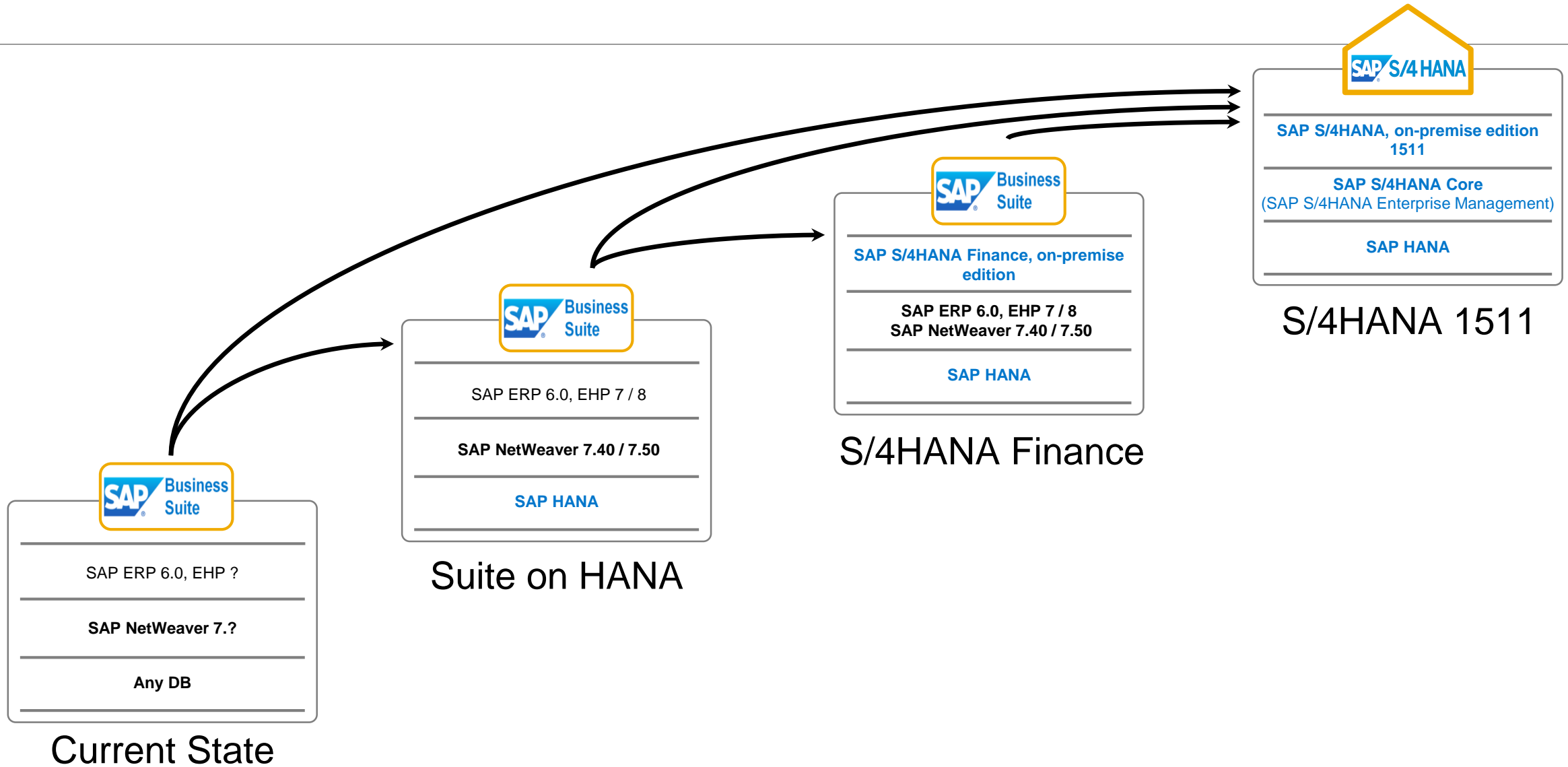
**SAP S/4HANA
Cloud Editions**
*Cloud Qualities also
available On-Premise*

High level stack architecture SAP S/4HANA – Logical view

Guided by the “principle of one”



How Will You Get There?



How Will You Get There?

successfactors™
An SAP Company

 **FIELDGLASS®**

 **A R I B A®**
An SAP Company

 **CONCUR**

 **hybris**

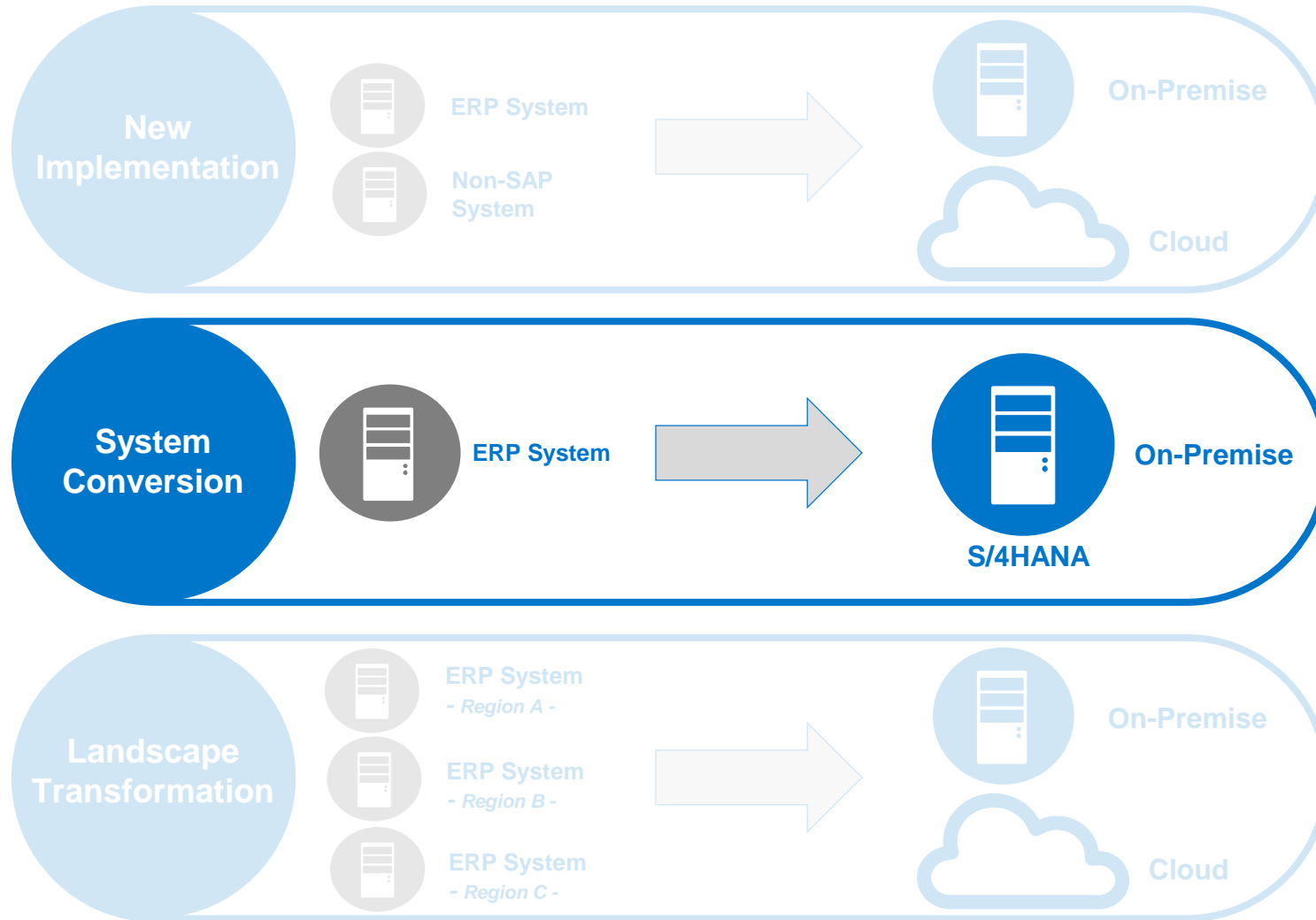




- » S/4HANA: Successor or New Product
- » **Transition to S/4HANA: 3 scenarios**
- » Focus on System Conversion
- » Supporting Services

Transition to SAP S/4HANA

The 3 Transition Scenarios





- » S/4HANA: Successor or New Product
- » Transition to S/4HANA: 3 scenarios
- » **Focus on System Conversion**
- » Supporting Services

Transition to SAP S/4HANA

Major Elements of Deploy Phase in Transition Process

1

Preparation

- Analysis of used business processes – mapping to SAP S/4HANA innovations
- Identify required integration scenarios of target state
- Run pre-transformation Checks on source system
- Mandatory preparation steps to be executed on source system

2

Technical Implementation

- “Installation” of SAP S/4HANA
- Customizing adjustment
- Adjustment of technical infrastructure

3

Semantical Adoption

- Adapt custom code to comply with SAP S/4HANA scope & data structure
- Adapt business processes to leverage new SAP S/4HANA innovation functionality
- Adapt integration (if applicable)
- Implement Fiori UIs
- Introduce new SAP S/4HANA innovation scenarios

Transition to SAP S/4HANA

Preparation Phase

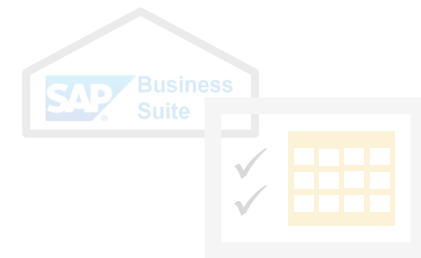
A Business Scenario Recommendations Report



B Semantical assessment Simplification List



C Technical system assessment SAP S/4HANA transition pre-checks



Executive Summary – Top Recommendations

SAP HANA accelerates key business processes with in-memory technology. The table below shows the transactions and reports in your processes that could be accelerated and impact your business value.

LINES OF BUSINESS	BUSINESS SCENARIO			RELEVANCE FOR YOU	IMPROVED / RELEVANT TRANSACTIONS
Enterprise Asset Management	Plant Maintenance			100%	31
Finance	Entity Close		Simplified	89%	16
Supply Chain	Inventory Analytics			89%	17
Manufacturing	Material Requirements Planning			77%	10
Procurement	Purchase Order Processing (ERP)			66%	6
Finance	Accounts Payable		Simplified	54%	5
Finance	Financial Reporting (ERP)		Simplified	43%	5
Finance	Financial Shared Services		Simplified	31%	2
Finance	Access Governance		Simplified	Recommended*	
Manufacturing	Manufacturing Analytics			Recommended*	
Supply Chain	Production Planning			Recommended*	

* Recommended: Data provided does not allow for relevance calculation however recommendations indicated will create added value.

Transition to SAP S/4HANA

Preparation Phase - Business Scenario Recommendations Report



<https://www.s4hana.com/>

Get started now



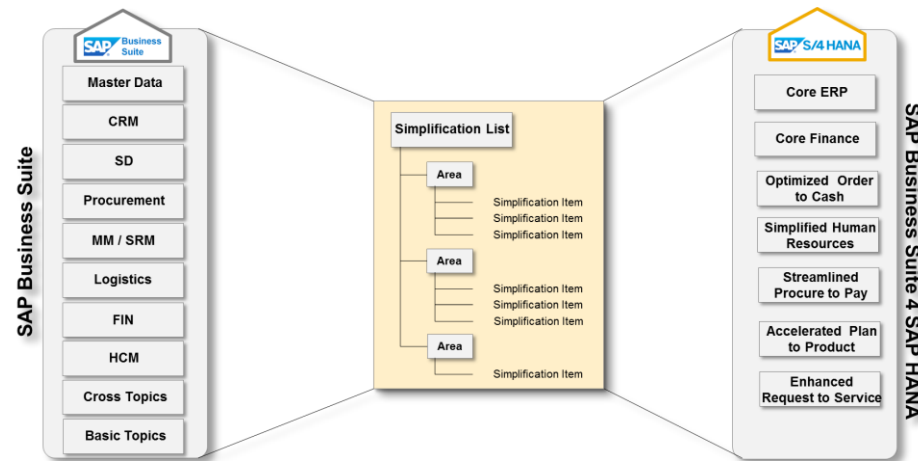
Transition to SAP S/4HANA

Preparation Phase

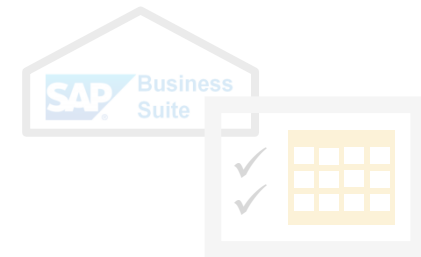
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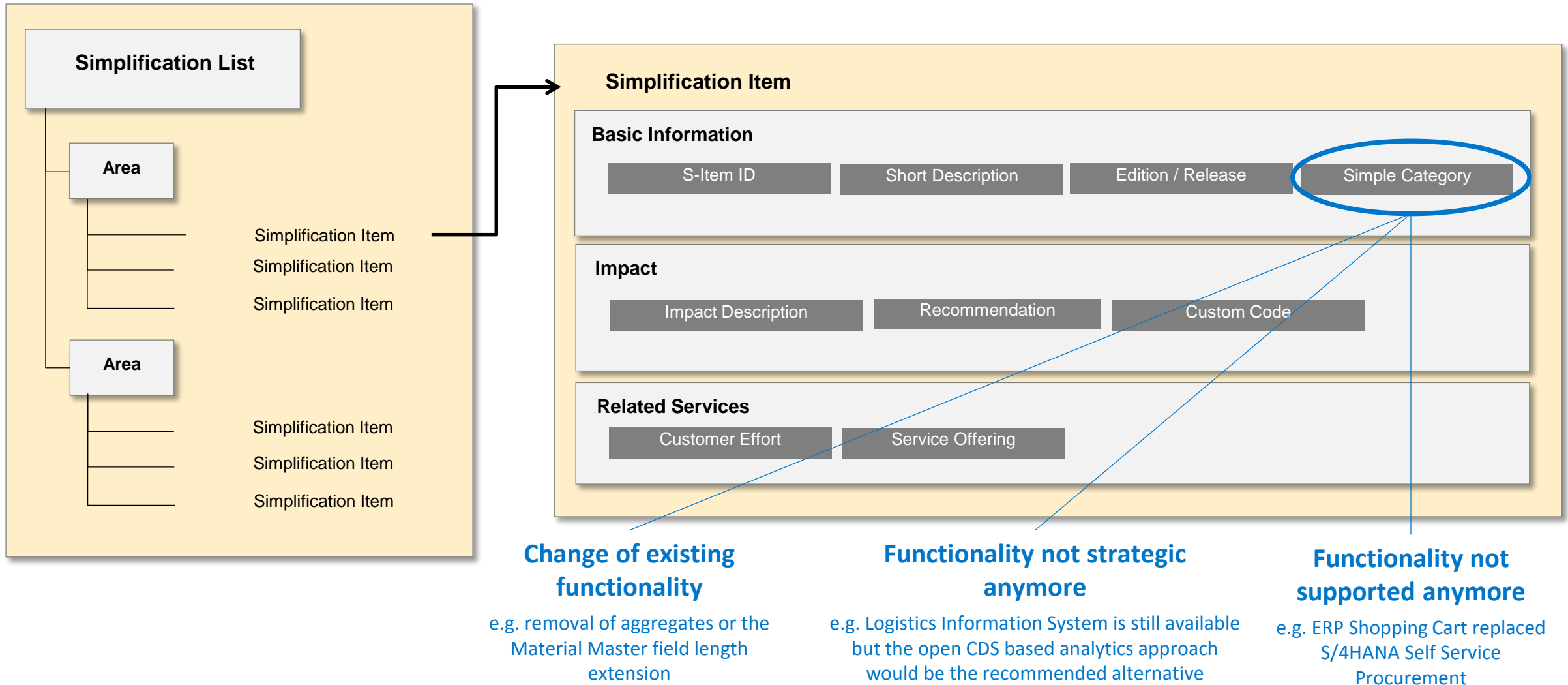


C Technical system assessment SAP S/4HANA transition pre-checks



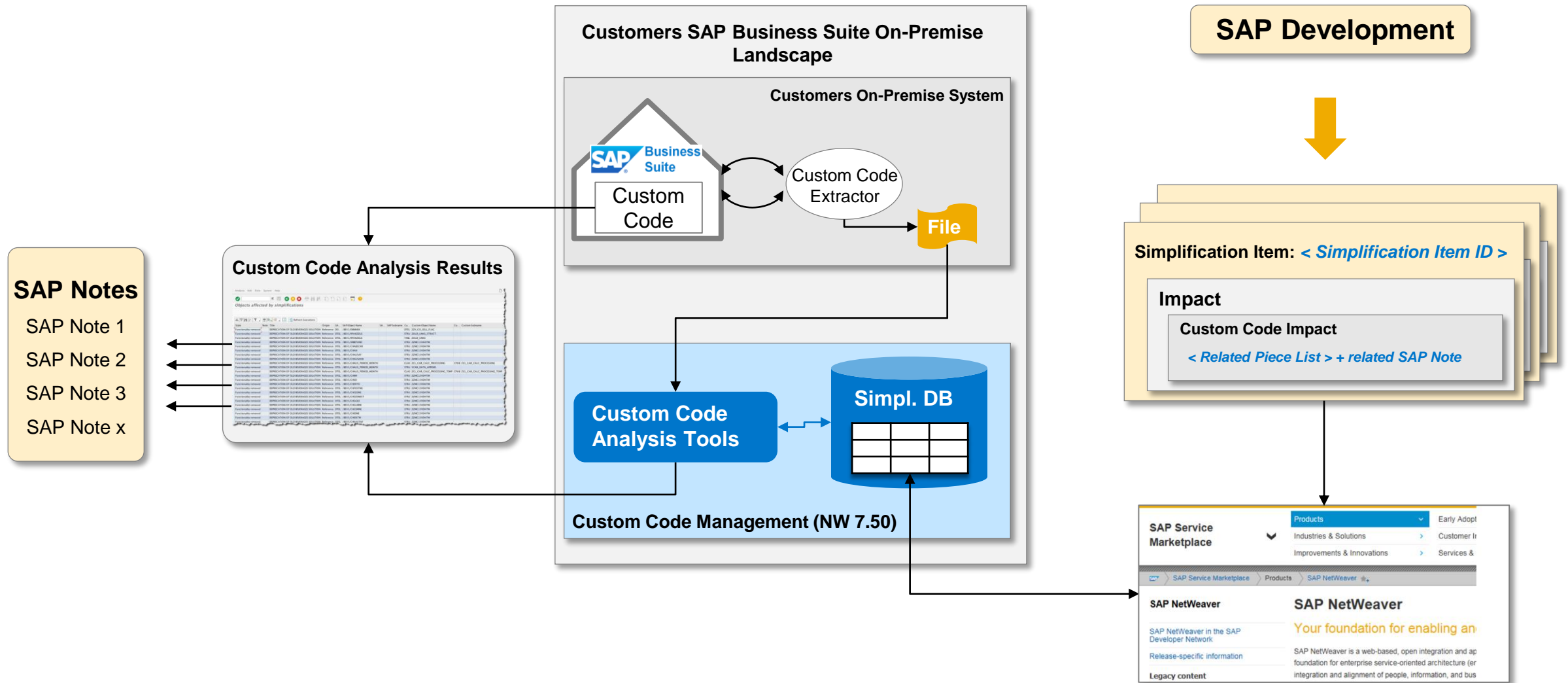
Transition to SAP S/4HANA

Preparation Phase - Simplification List



Transition to SAP S/4HANA

Preparation Phase - Simplification List



Transition to SAP S/4HANA

Preparation Phase - Simplification List

	Preparation Phase	Migration Phase	After Go-Live Phase
Will Do			
Must Do			

Transition to SAP S/4HANA

Preparation Phase

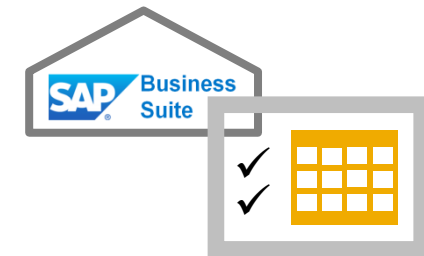
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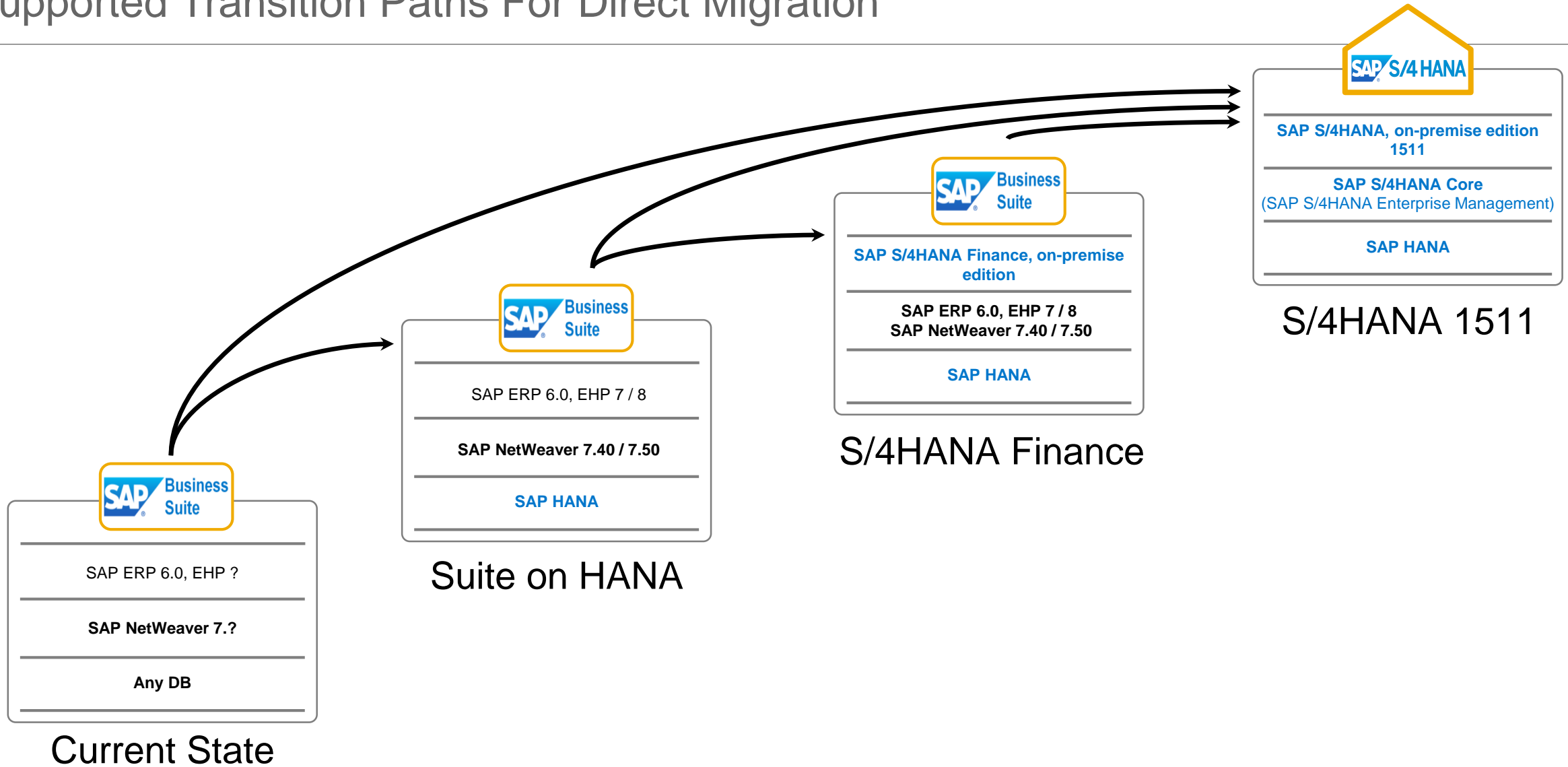


C Technical system assessment SAP S/4HANA transition pre-checks



Transition to SAP S/4HANA

Supported Transition Paths For Direct Migration



Transition to SAP S/4HANA

Supported Transition Paths For Direct Migration



**Start Release SAP ERP 6.0,
EHP ?**

SAP NetWeaver 7.?

Any DB

Current State

Transition to SAP S/4HANA

Software Update Manager / Database Migration Option

Software Logistics



Software Update Manager (SUM): introducing the tool for software maintenance

Posted by [Boris Rubarth](#) in [Software Logistics](#) on 7/11/2012 1:10:11 PM

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Software Update Manager (SUM) 1.0 introduction

Read this short blog to get a general understanding on what the Software Update Manager is and when to use it.

System Maintenance

The Software Update Manager 1.0 is the tool for **system maintenance**:

- Release upgrade (major release change)
- System update (EHP installation)
- applying Support Packages (SPs) / Support Package Stacks
- applying Java patches



Database Migration Option (DMO) of SUM - Introduction

Version 27

created by [Boris Rubarth](#) on 29/11/2013 1:14 PM, last modified by [Boris Rubarth](#) on 7/10/2015 1:01 PM

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Scenario:

- You want to migrate your existing SAP ABAP system to the SAP HANA database
- Your SAP release needs to be upgraded prior to migration

Use the database migration option (DMO) of the Software Update Manager (SUM): it combines SAP upgrade and database migration to SAP HANA in one tool!

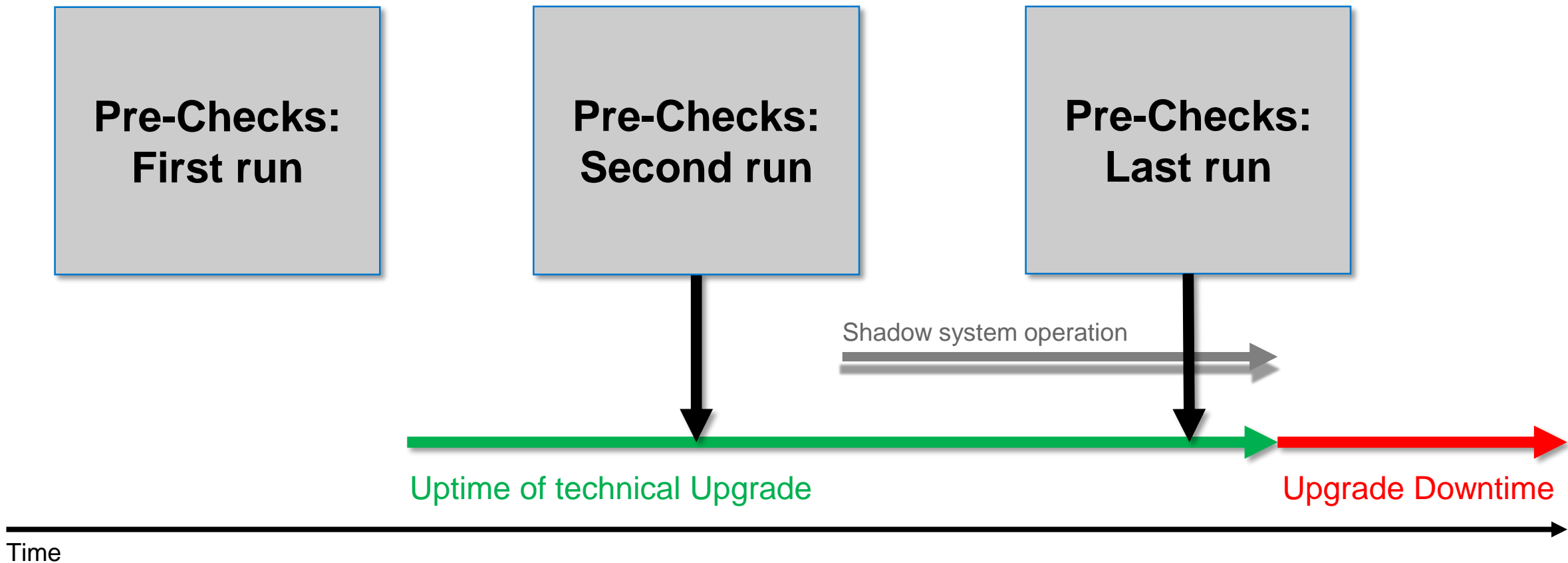
Benefits:

- Migration steps are simplified
- System update, Unicode Conversion, and database migration are combined in one tool
- Business downtime is reduced
- The source database remains consistent, so a fast fallback is possible

System Conversion

Integration of Pre-Checks into Upgrade-Procedure (SUM)

SAP Note 2182725 - S4TC Delivery of the S/4 System Conversion Checks



Transition to SAP S/4HANA

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Technical Implementation

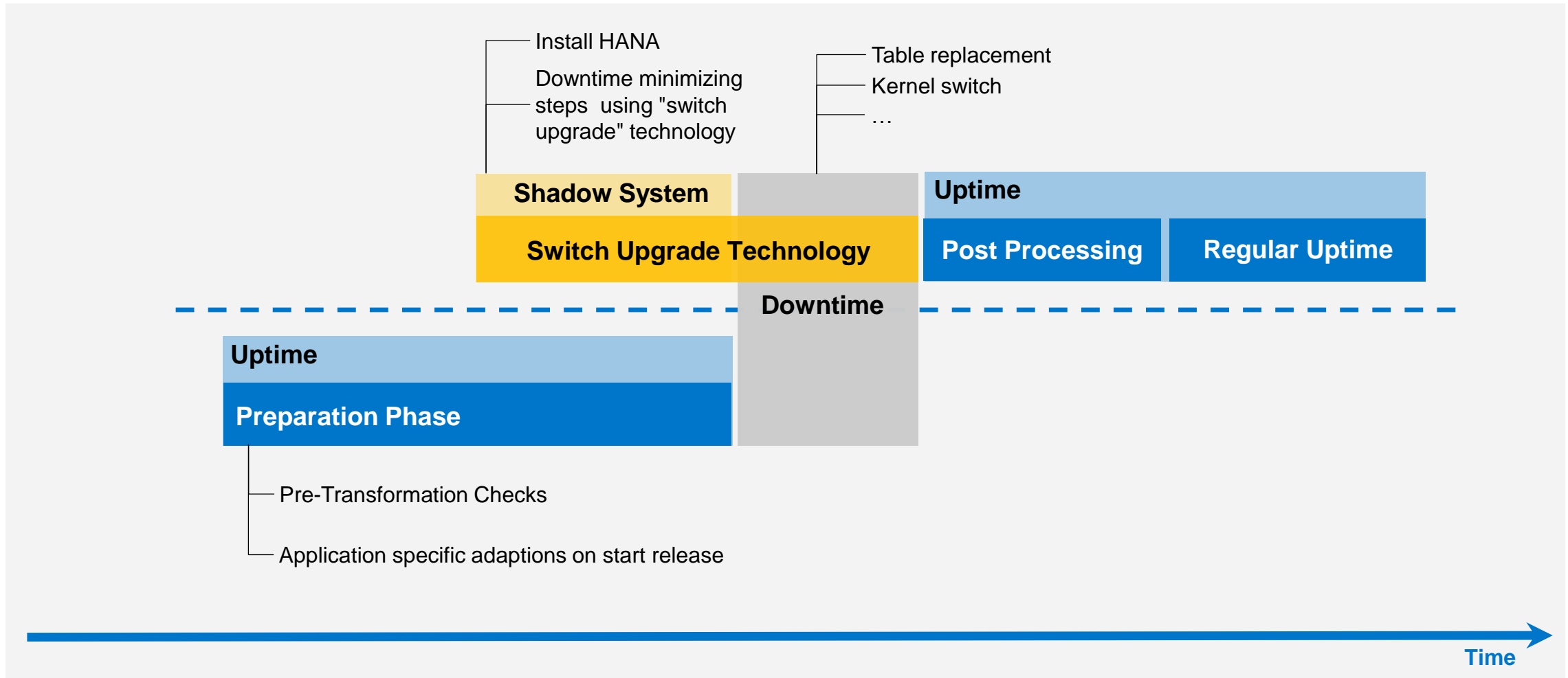
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- Customizing adjustment
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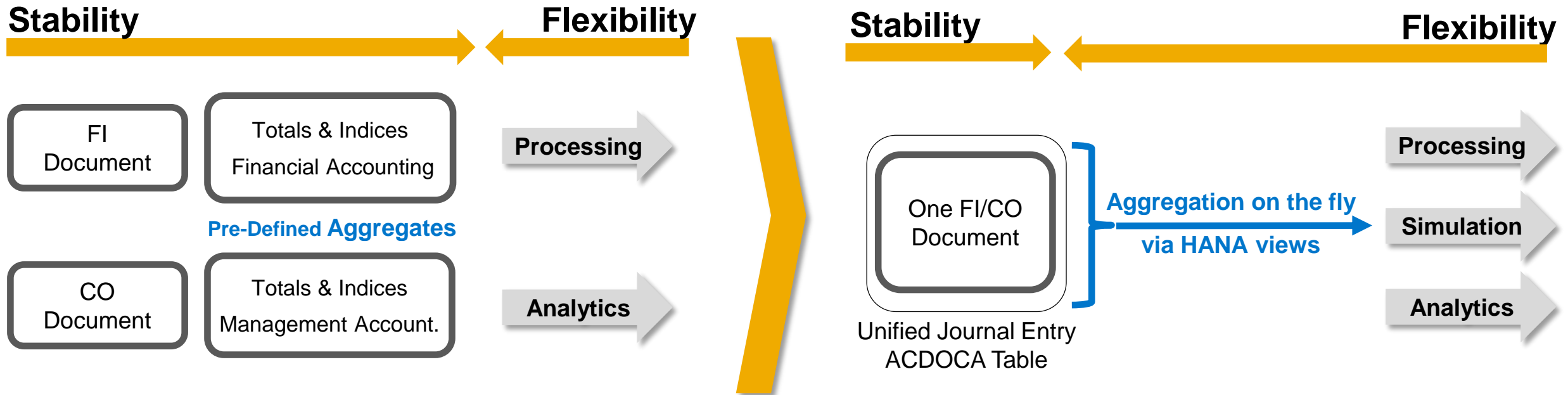
Semantical Adoption

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Software Update Manager / Database Migration Option



In the course of installing the S/4HANA Finance for example ...



In the course of installing the S/4HANA Finance for example ...

During the Preparation Phase you need to ...

- Perform reconciliation between the accounting applications, to enable the data to be merged in the universal journal entry
- Carry out period-end closing including the storage of reporting key figures and closing the posting periods

During the Switch Phase the system automatically ...

- Creates backup tables for the totals tables and index tables
- Deletes the original totals tables and index tables
- Creates SAP HANA compatibility views for the totals, index, and line item tables
- Creates the new ACDOCA table for the universal journal entry

Immediately after the Switch Phase you need to ...

- Migrate the Accounting and Controlling data

Other things to think about

- Application of mandatory SAP Notes
- BW Extractors may need updating to reflect the changed data model
- User Management, Authorisation, Role Management
- Enterprise Search
- Workflows
- Integration
- Output Management – Adobe Forms

Transition to SAP S/4HANA

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Transition to SAP S/4HANA

“Activation” of Innovation

Business Intelligence

Account	Customer	Actual Amount
2011 Account		20,553,000.00
2012 Account		20,553,000.00
2013 Account		20,553,000.00
2014 Account		20,553,000.00
2015 Account		20,553,000.00
2016 Account		20,553,000.00
2017 Account		20,553,000.00
2018 Account		20,553,000.00
2019 Account		20,553,000.00
2020 Account		20,553,000.00
2021 Account		20,553,000.00
2022 Account		20,553,000.00
2023 Account		20,553,000.00
2024 Account		20,553,000.00
2025 Account		20,553,000.00
2026 Account		20,553,000.00
2027 Account		20,553,000.00
2028 Account		20,553,000.00
2029 Account		20,553,000.00
2030 Account		20,553,000.00

SAP Analysis for Office
 SAP Lumira
 SAP Business Explorer
 SAP Design Studio

Renewed Managerial Roles



Chief Financial Officer
 Financial close manager
 Cash manager
 Receivables manager
 Payables manager
 Finance for managers
 Real Estate manager (planned)

Renewed Transactional Roles

Name	Period Balance	Comparison Period	Difference	% Difference
ASSETS	1,089,525,147.44	805,478,167.34	284,046,980.10	35.3
CURRENT ASSETS	824,982,855.91	419,495,970.37	205,486,885.54	49.0
NON-CURRENT ASSETS	454,542,291.53	385,982,196.97	78,560,094.56	20.4
LIABILITIES	-1,089,525,147.44	-805,478,167.34	-284,046,980.10	35.3
CURRENT LIABILITIES	-825,277,615.55	-566,255,205.41	-259,022,409.14	45.7
NON-CURRENT LIABILITIES	-44,253,732.93	-18,503,132.18	-26,455,602.75	143.0
SHAREHOLDER'S EQUITY	-219,293,738.96	-220,719,827.75	1,426,088.79	0.0

General ledger accountant
 Accounts receivable accountant
 Accounts payable accountant
 Collections specialist
 Dispute specialist

Transition to SAP S/4HANA

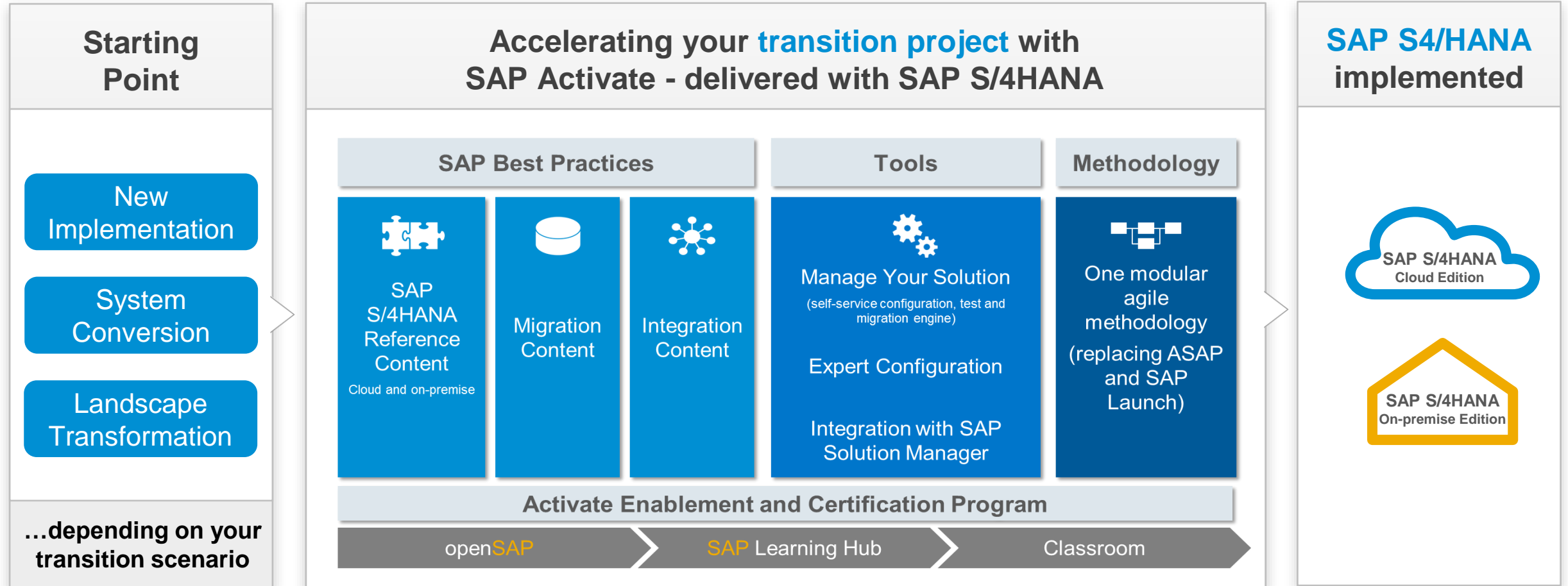
“Activation” of Innovation

Don't forget about configuration, customisation and extension!

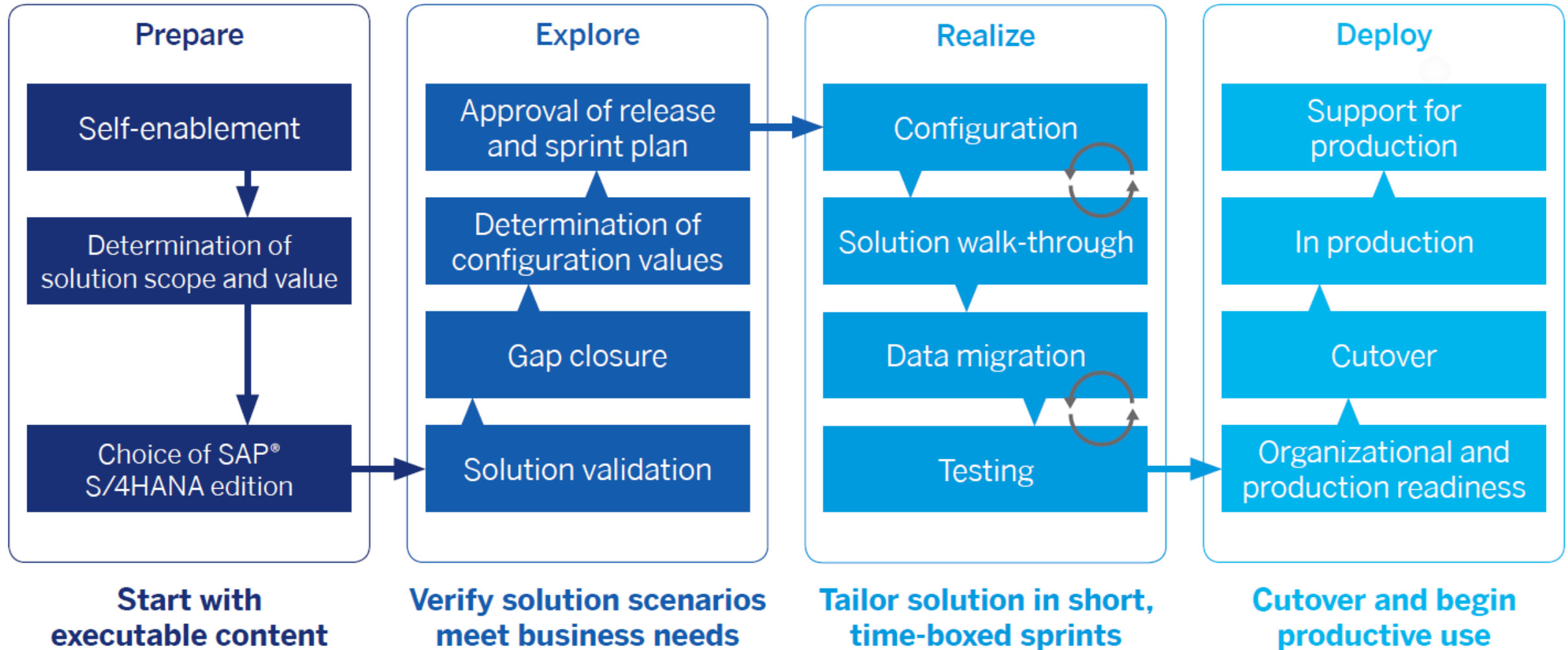


- » S/4HANA: Successor or New Product
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- » **Supporting Services**

Supporting Services – SAP Activate



Supporting Services – SAP Activate





Thank you

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» Appendix



- » Appendix
- » New Implementation

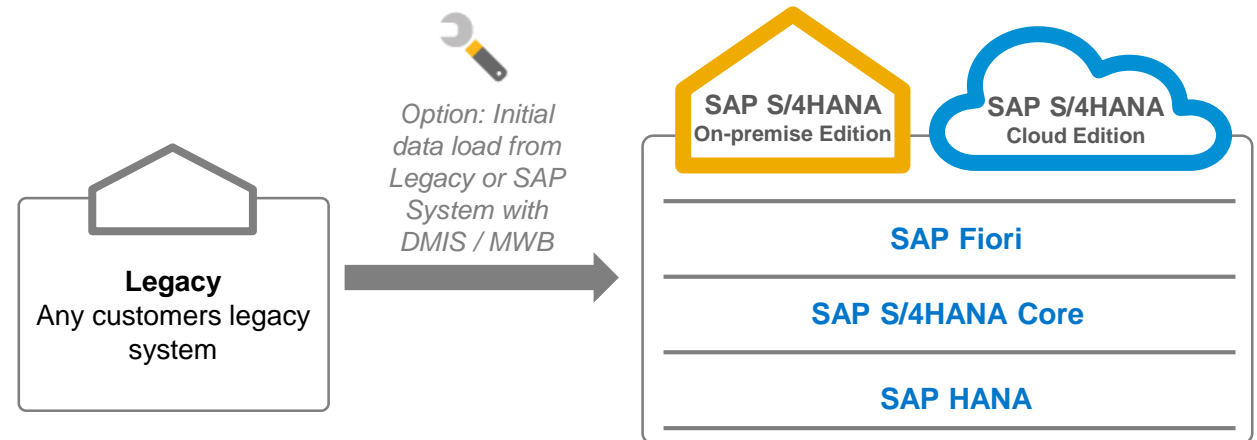
New Implementation

Scenario Description

New installation of SAP S/4HANA e.g. for customers migrating a legacy system.

Benefits for the customer

- Reengineering and process simplification based on ready-to-run business processes and reference solution delivered with the product
- New implementation of industry-leading Business Suite
- Pre-defined migration objects & Best Practices available in a guided process



What	How
1 Install S/4HANA	SWPM (Software Provisioning Manager)
2 Initial data load from source system	Data Migration Server / Migration Work Bench <ul style="list-style-type: none"> • SAP source: system connection • Legacy system: file upload; SAP Data Services additionally supported with predefined migration content

New Implementation Migration Cockpit

Identity and Access Management

- Maintain Business Users
- Display Technical Users
- Maintain Communication Users
- Maintain Catalog Roles

End to End Implementation Experience

Manage Your Cloud Solution

S/4 HANA Guided Configuration

Realize

Adapt the business processes to your needs and perform dry runs of the data migration results until you are certain that you can perform the launch smoothly.

- Configure Your Solution
- Review Mandatory Settings
- Test Your Processes
- View Solution Summary
- Migrate Your Data
- Learn More

Data Migration

Connection to Source System

Connected To: Not connected

Migration Activities

Action	Name	Status	Progress
	Prepare Migration Objects	Open	0%
	Generate Runtime Objects	Open	0%
	Calculate Access Plans	Open	0%
	Transfer Data	Open	0%

Log

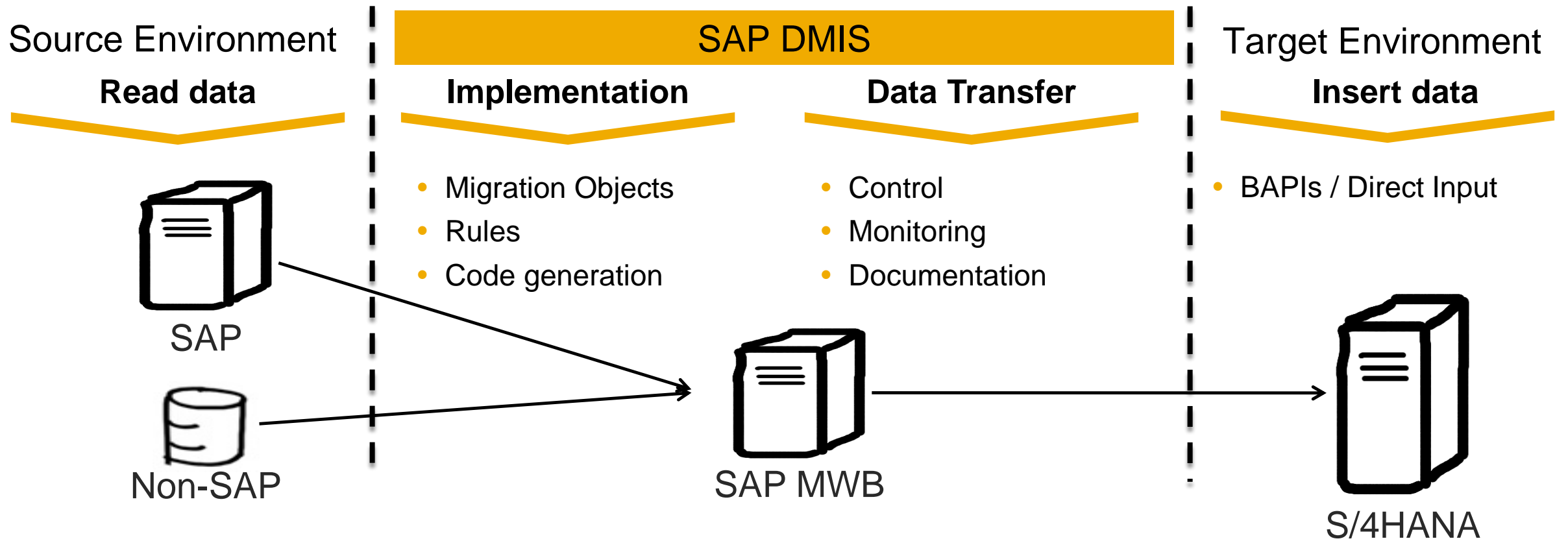
Text	Long Text	Context	Link
No messages available			

Data Migration

- The data migration activities can be executed based on the cloud implementation cockpit
- Based on the selected Business Scenarios relevant data migration objects are proposed.
- Existing customer can connect their SAP Business Suite system. For new customer a template based approach can be used

New Implementation

SLT Data Migration Server





- » Appendix
- » Landscape Transformation

Landscape Conversion

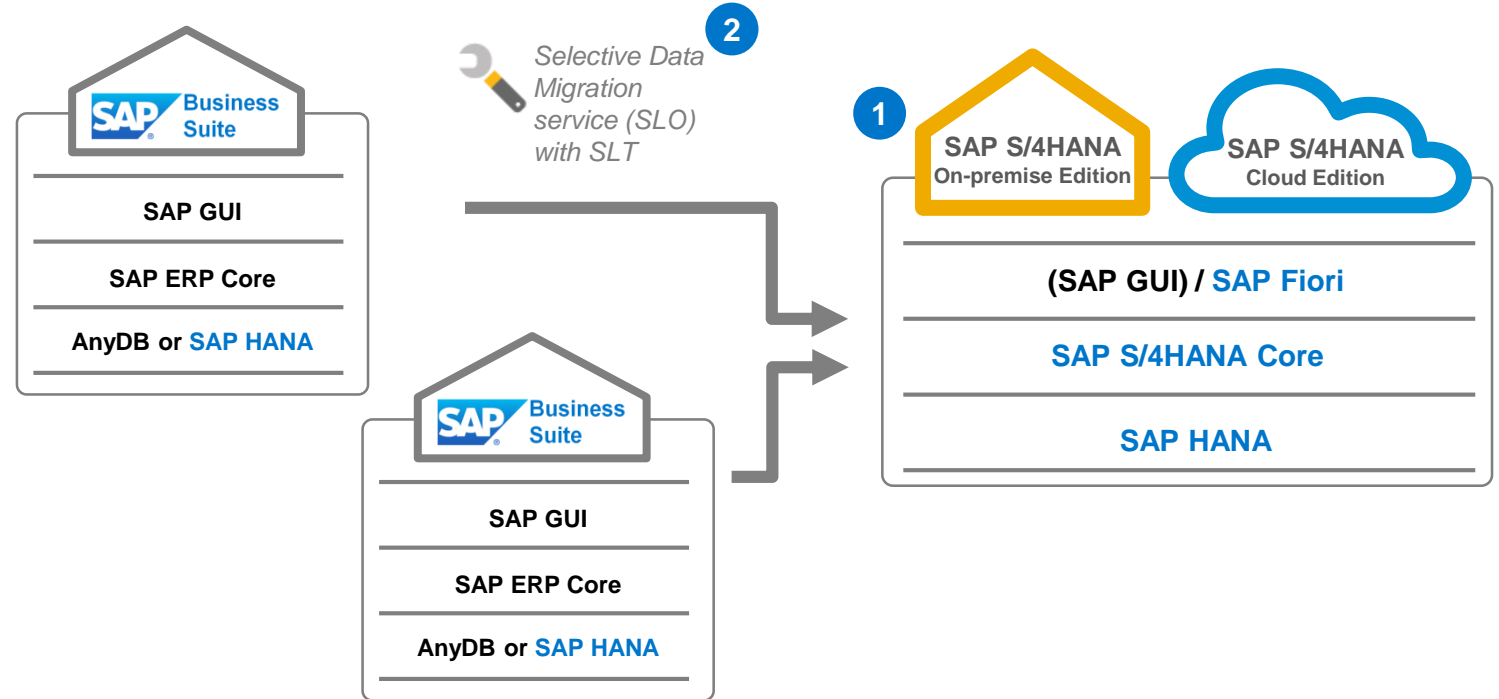
Scenario Description

Customers who want to **consolidate** their landscape or **carve out** selected entities or processes into an existing SAP S/4HANA system.

Customer-specific migration project re-using standard migration content.

Benefits

- Stay with current business processes and move gradually to SAP S/4HANA innovations
- Harmonized business processes and shared master data through consolidation
- Carve out of single entities of the company to SAP S/4HANA and leverage process simplification



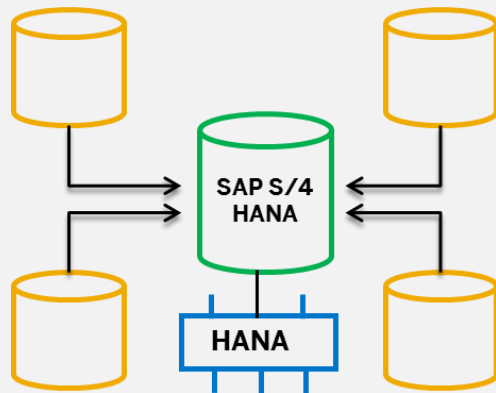
	What	How
1	Install (and configure) S/4HANA	SWPM (Software Provisioning Manager)
2	“Carve Out”	Selective Data Migration service (SLO) with SLT → Individual harmonization project required

Landscape Conversion

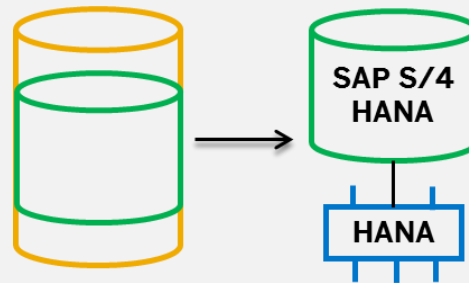
Procedure

Pre-configured

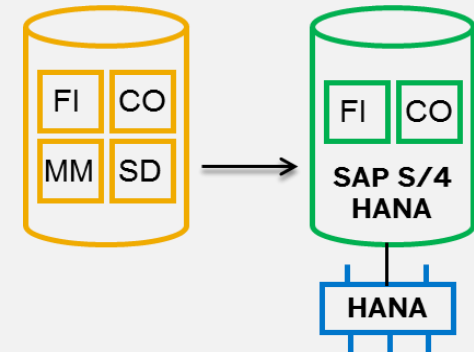
Consolidation



Migration of Business Units
(Company Code)



Migration of selected applications
(centralFinance)



Possible system merge scenarios



Greenfield

“Start from scratch”

Systems to be merged won't be in operative use afterwards.

A new system with new organizational structures and processes will be created.

In case of a „selective“ migration access to source systems for historical information is required.



Brownfield

“Pick up best scenarios within company”

Systems to be merged won't be in operative use afterwards.

A new system with a new organizational structures but existing processes will be created.

In case of a „selective“ migration access to source systems for historical information is required.



Blackfield

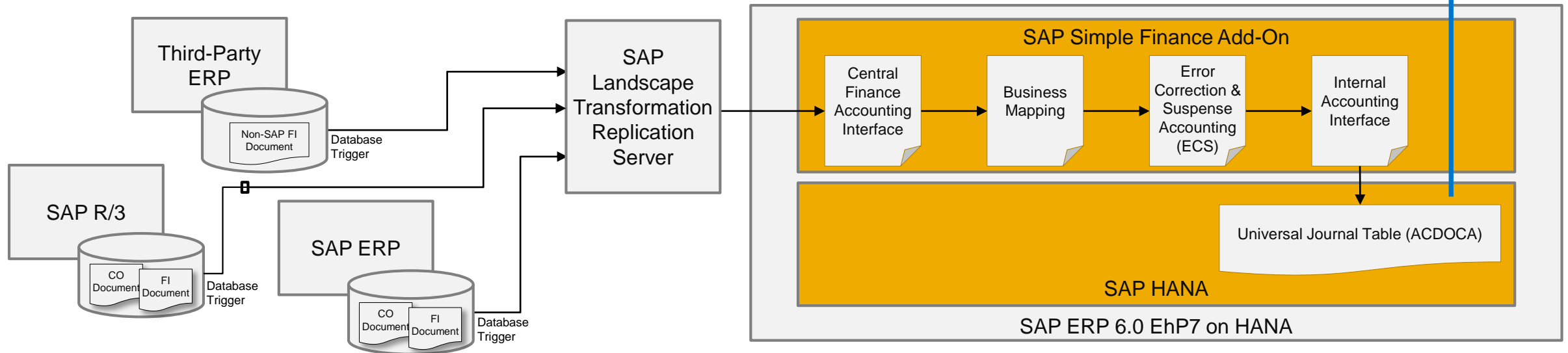
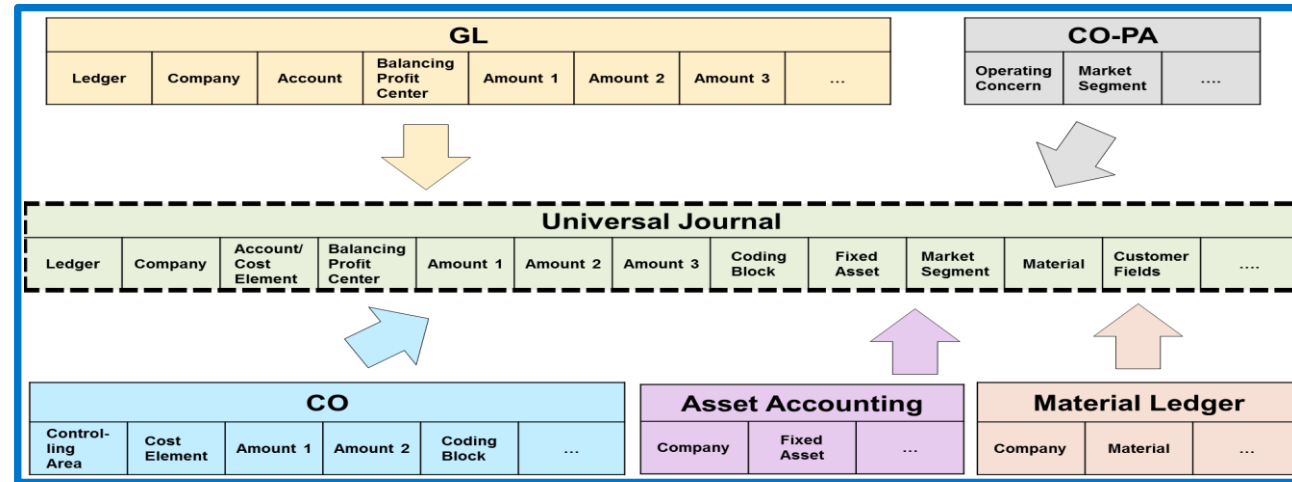
“Pure technical n to 1”

One system will be identified as „leading“ system, others will be merged into that.

All existing processes and organizational structures will be adjusted in case of conflicts.

In general all data will be migrated.

Central Finance Concept



From Business Suite to SAP S/4HANA On Premise

Future Options for Landscape Planning

Lab Preview

