

Charting Your Path Towards SAP S/4HANA

Lars Fasel, SAP

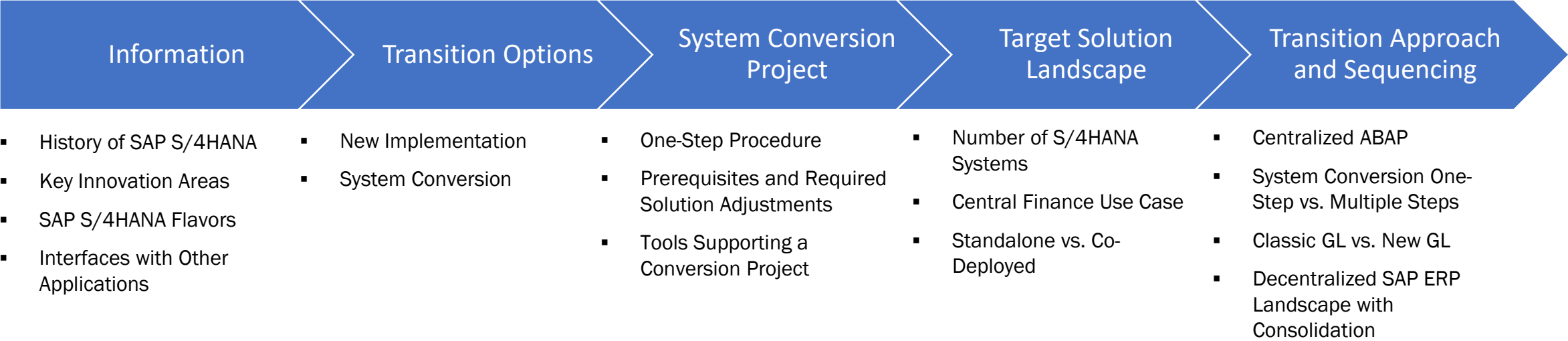
SAPinsider
2023



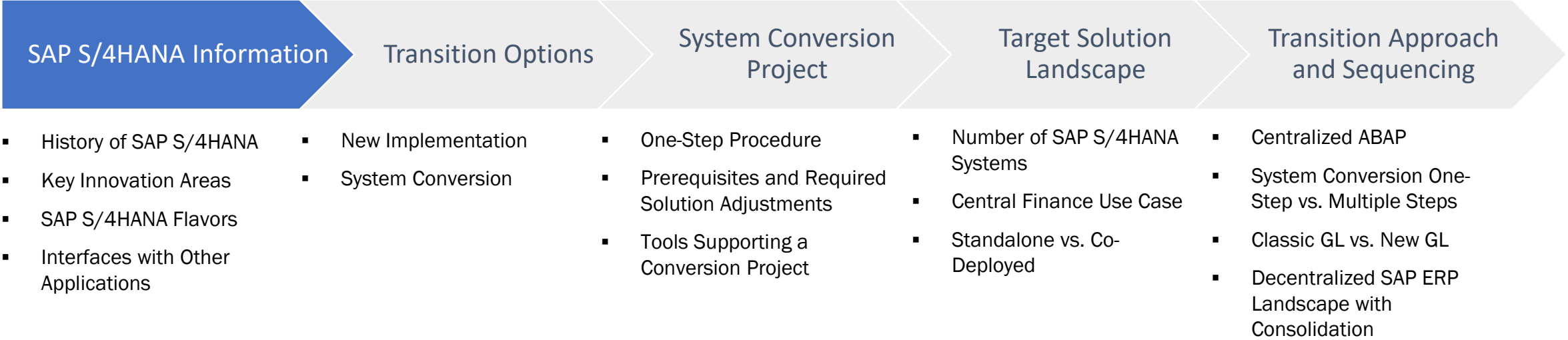
In This Session

- Key factors of building your roadmap to SAP S/4HANA
- Transition Options and how to pick the one that fits the best
- Tools and Methodologies Supporting Your SAP S/4HANA Journey

Charting Your Path Towards SAP S/4HANA

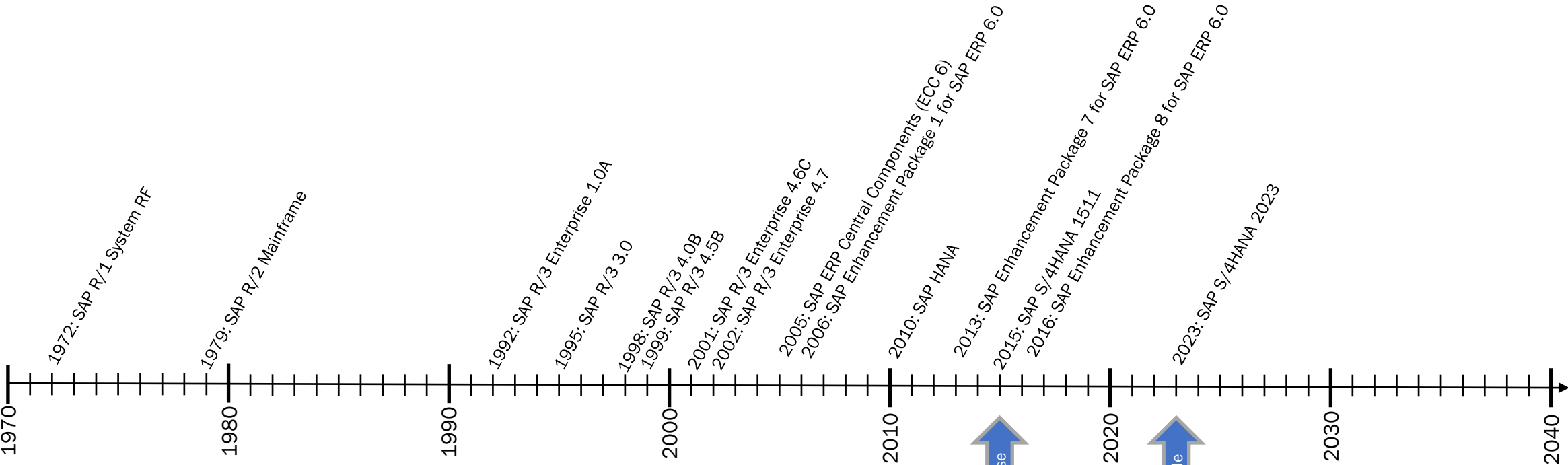


Charting Your Path Towards SAP S/4HANA



SAP S/4HANA Information

The Case for Change



>40 years of development constrained by the need to accommodate many different database platforms lead to innovation on the lowest common denominator

SAP HANA

1st S/4HANA Release

2-Year Release Cycle

SAP S/4HANA Information

Main Innovation Pillars of SAP S/4HANA

New User Experience (SAP Fiori)

- SAP FIORI AS THE USER EXPERIENCE PARADIGM
- Role-based, web-based, all devices
- Smart Business Cockpits (from KPIs to guided transactions)
- Operational Reporting
- → REAL-TIME DECISION SUPPORT, EFFICIENCY

Simplified Data Model and Application Innovation

- SIMPLIFICATION OF APPLICATIONS AND UNDERLYING DATA MODEL
- **Principle of One:** elimination of redundancy on application level
- **Single source of truth:** new data model w/o redundancies
- Application optimizations
- → HIGHER FLEXIBILITY & THROUGHPUT, INNOVATIONS

SAP HANA

- SAP HANA AS THE UNDERLYING PLATFORM
- OLAP & OLTP Merge
- Data Compression
- Various engines for planning, predictive, text mining, ...
- → SPEED, SIMPLIFICATION, INNOVATIONS

DEPLOYMENT MODEL OF CHOICE: On-premise, Private Cloud, Public Cloud

→ BUILT-IN CLOUD QUALITIES for all deployment options available (e.g. guided configuration, Cloud Compatible Development using Steampunk Engine, ...)

SAP S/4HANA and System Conversion Overview

Tool List

Discover



Build Your Business Case

- [SAP Fiori apps reference library](#)
- [Business Scenario Recommendations \(BSR\)](#)
- [Value Lifecycle Manager \(VLM\)](#)
- [SAP Innovation and Opt. Pathfinder](#)
- [Innovation Discovery Tool](#)
- [SAP Roadmap](#)
- [SAP Best Practice Explorer](#)
- [SAP S/4HANA Trial](#)
- [Feature Scope Document 2022](#)
- [What's New Viewer - SAP S/4HANA](#)
- [What's New Document 2022](#)

Determine



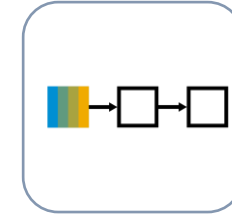
Prepare



Adapt



Migrate



Discover Your Destination

- [SAP Roadmap Viewer](#)
- [SAP Transformation Navigator](#)
- [SAP Readiness Check for SAP S/4HANA](#)
- [Simplification Item Catalog](#)
- [Simplification Item Check](#)
- [Code Inspector / Custom Code Migration Worklist](#)
- [Pre-Checks](#)
- [SAP S/4HANA Manifesto \(Practical Guide\)](#)
- [Build your Conversion Road Map](#)

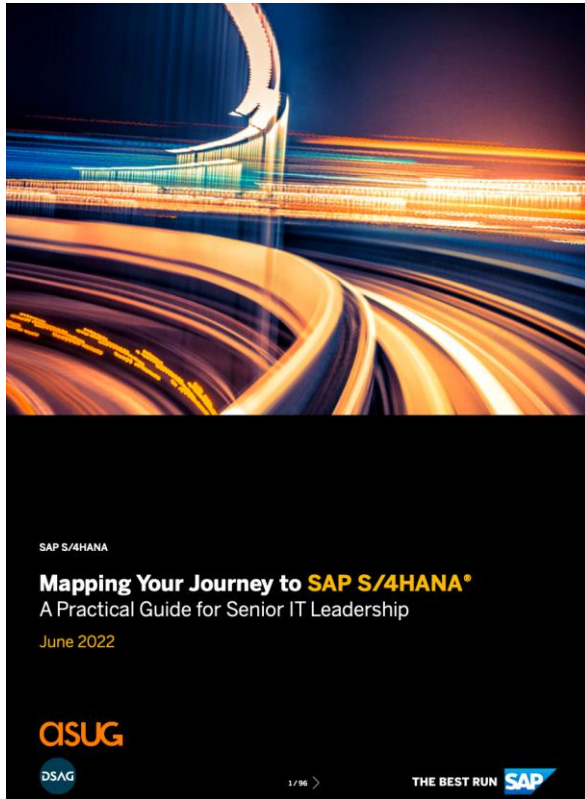
Execute Your Move

- [Maintenance Planner](#)
- [S/4HANA Help Portal 2022](#)
- [SAP S/4HANA Cloud, Private Edition](#)
- [S/4HANA Conversion Guide 2022](#)
- [DMO for SUM 2.0 Guide](#)
- [Custom Code Migration Guide 2022](#)

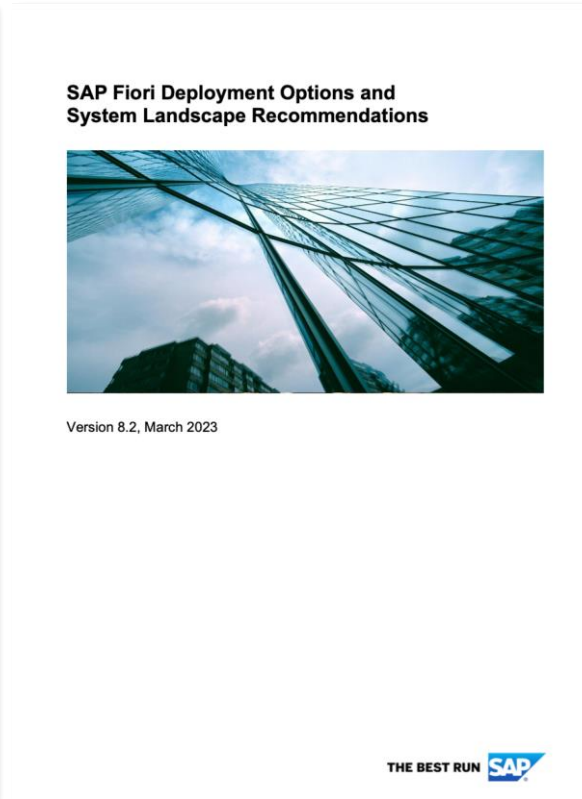
*Get a complete overview
of the new, changed and deleted
feature and functions > 2021...*

SAP S/4HANA and System Conversion Overview

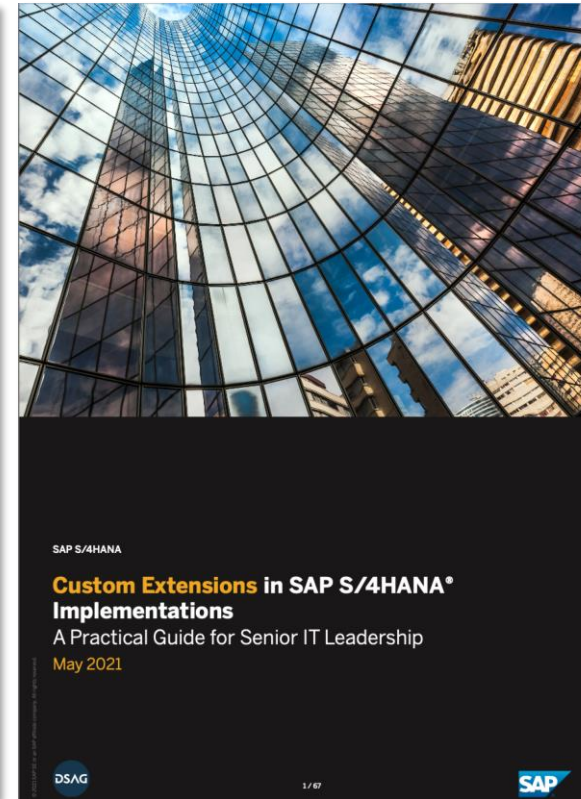
Additional Information



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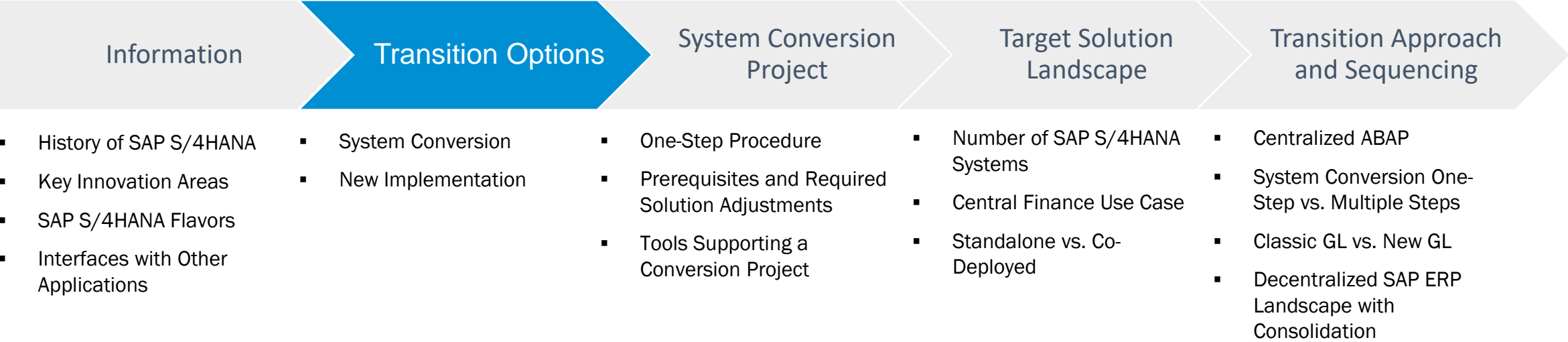


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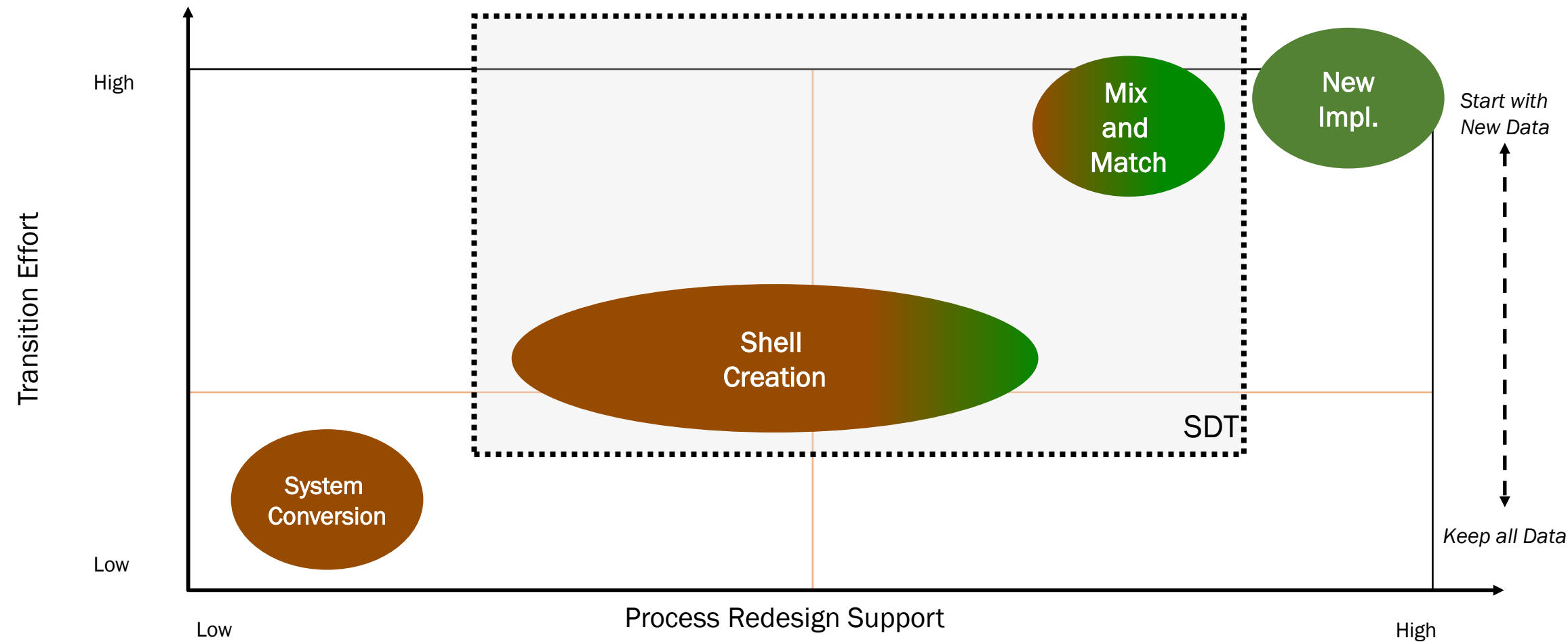
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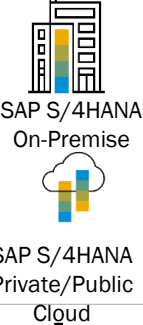



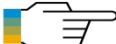
Transition Options

Overview

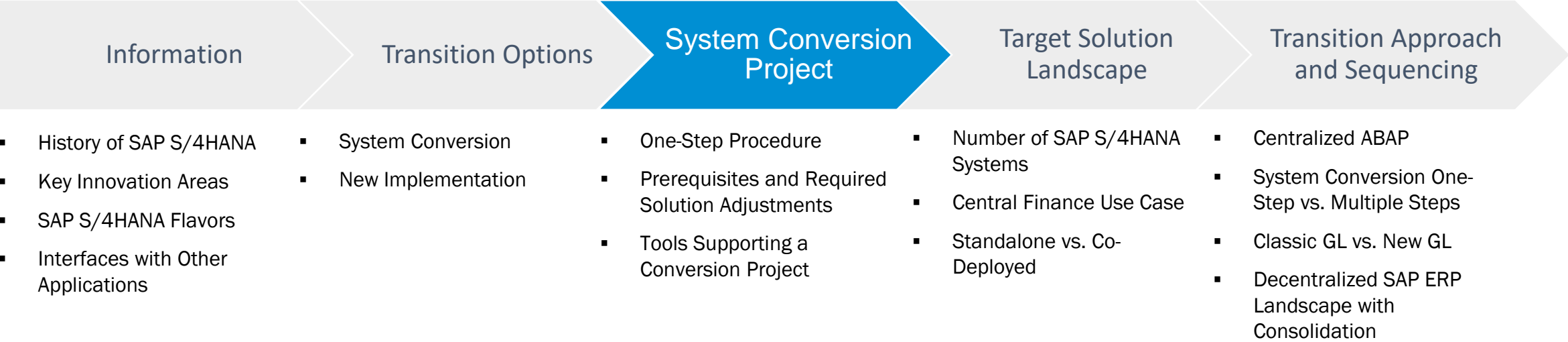


Transition Options

Different approaches to move to SAP S/4HANA

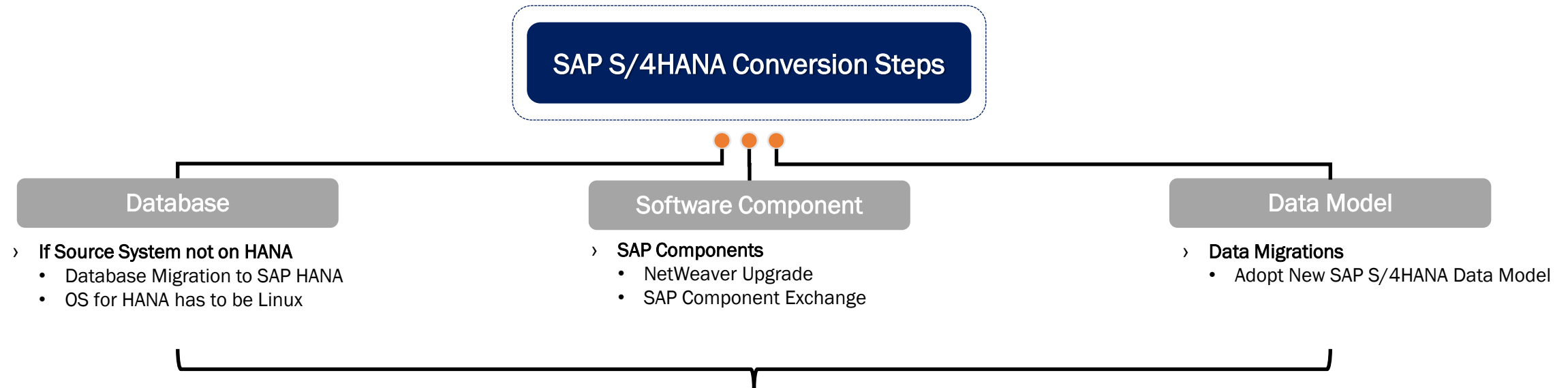
Type	Approach	Available for	Purpose
REUSE by in-place conversion 	System Conversion (Tool: SAP Software Update Manager / 'SUM')	  	Bring your business processes to the new platform <ul style="list-style-type: none"> A complete technical in-place conversion of an existing SAP Business Suite ERP system to SAP S/4HANA Adopt new innovations at your speed In-place if ERP already runs on HANA <div>Does not mean you can't adopt new features or adjust processes as part of the project or subsequent phases!</div>
REENGINEERING with data migration   	New Implementation (Tool: SAP S/4HANA Migration Cockpit)	  	New implementation / re-implementation <ul style="list-style-type: none"> Reengineering and process simplification based on latest innovations Implement innovative business processes with pre-configured content on a new platform Perform initial data load Retire old landscape
IndustryNOW Best Practices	Selective Data Transition (customer-tailored service/consulting offering)	  	Value-driven data migration to the new platform <ul style="list-style-type: none"> You need more than master data and open items, i.e. transactional data, complete or selected, Migrate a selection of data (i.e. by organizational units), Migrate data from more than one system, or Migrate application-related data into an SAP S/4HANA based solution landscape  SAP S/4HANA Selective Data Transition

Charting Your Path Towards SAP S/4HANA



System Conversion Project

One-Step Procedure



- Prerequisites for One-Step Procedure:
 - Minimum SAP ERP 6.0 (no EHP Required)
 - Unicode
 - Single Stack (ABAP only)

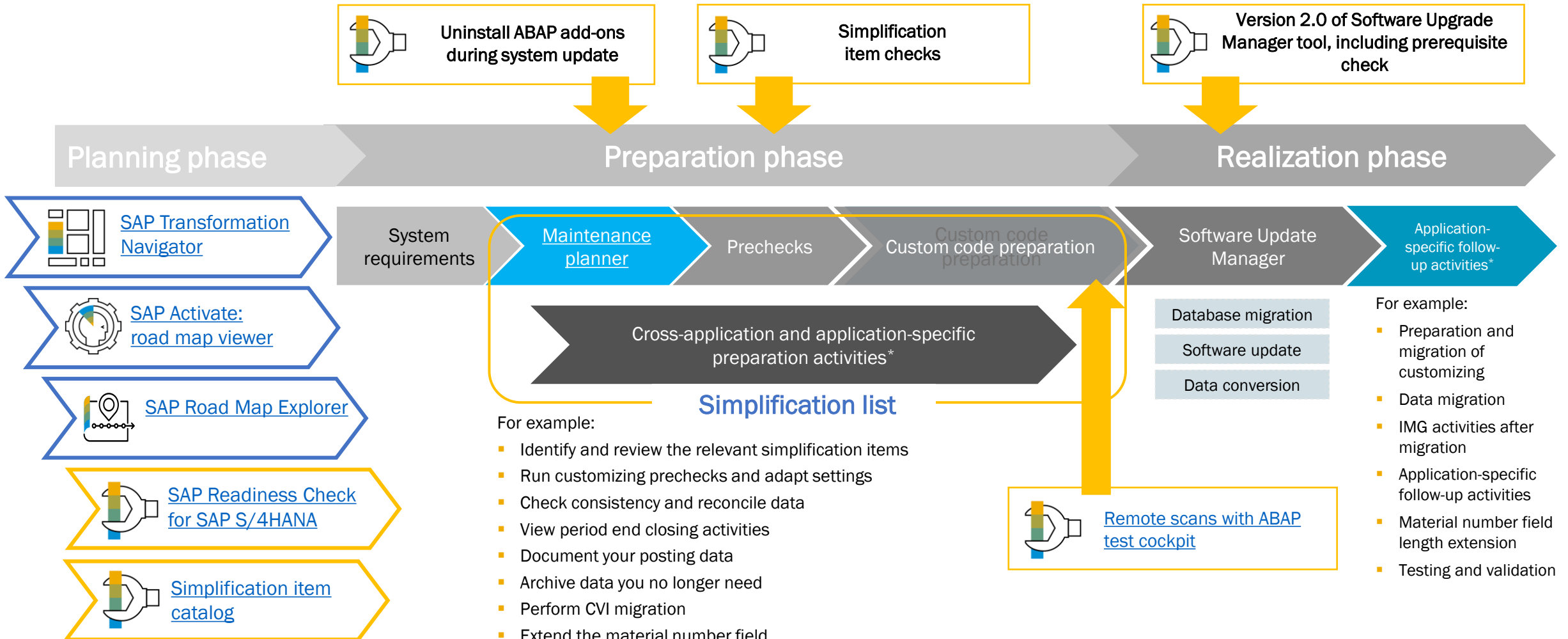
System Conversion Project

Prerequisites and Required Solution Adjustments

	Condition	Documentation for S/4HANA 2023	Check Tool	Covered in SAP Readiness Check
Prerequisites for SUM to start system conversion	SAP ERP 6.0, Unicode, Single Stack, min. DB Version (SUM Note)			
	Installed Industry Solutions, Add-Ons, Business Functions released for S/4HANA	SAP Notes: 3307222 , 3230844 , 2214409	Maintenance Planner	Yes
	Customer Vendor Integration (CVI) in place	2713963 - FAQ: CVI - for system conversion to SAP S/4HANA	CVI Cockpit	Yes
Required Solution Adjustments	All used functionality needs to be changed through conversion and potentially re-implemented to comply with functionality available in SAP S/4HANA	Simplification Item Catalog (https://me.sap.com/sic)	Simplification Item Relevance Check	Yes
Required Changes in Custom Code	Code needs to be made compatible to S/4HANA and its simplification items	SAP Notes: 2190420 , Custom Code Migration Guide	ABAP Test Cockpit, Custom Code Migration Fiori App	High Level only
Required Upgrades of connected SAP Systems	All connected applications and SAP NetWeaver systems have a release or have to be upgraded to a release according to the version interoperability rules.	SAP Notes 2251604 , 3257040	Maintenance planner, upgrade dependency analyzer	
	If a standalone Fiori front-end server is used, consider moving to embedded to ease the administrative efforts.	Fiori Deployment Options		
Others	Compatibility Scope Matrix – Usage rights will expire <div>Important</div>	SAP Note 2269324 , Compatibility Scope: What Happens after 2025/2030		Yes

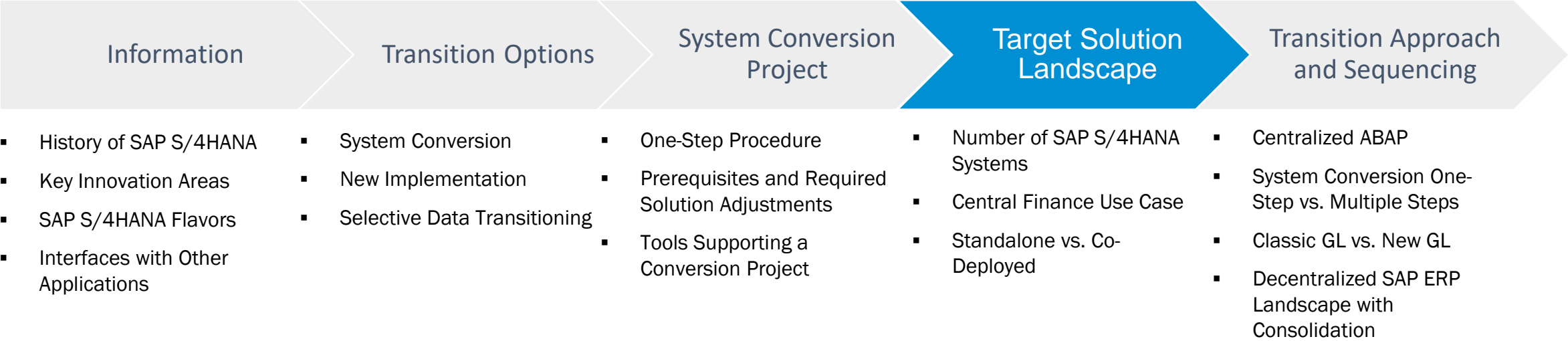
System Conversion Project

Tools Supporting the SAP S/4HANA Conversion Project Planning



*This is not a full list, only key examples.

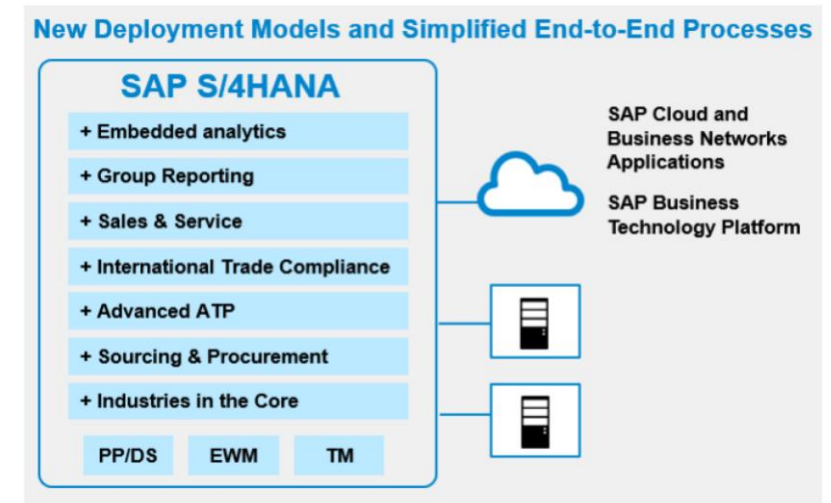
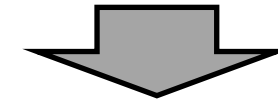
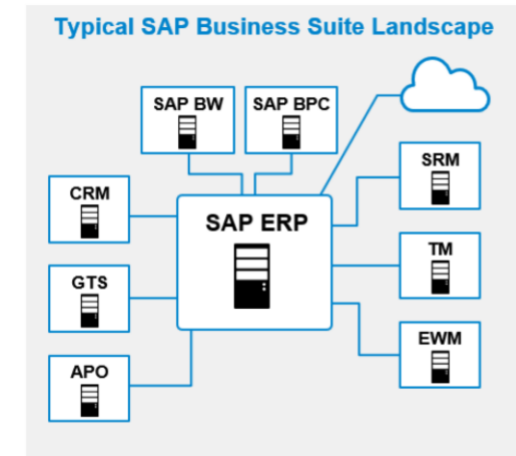
Charting Your Path Towards SAP S/4HANA



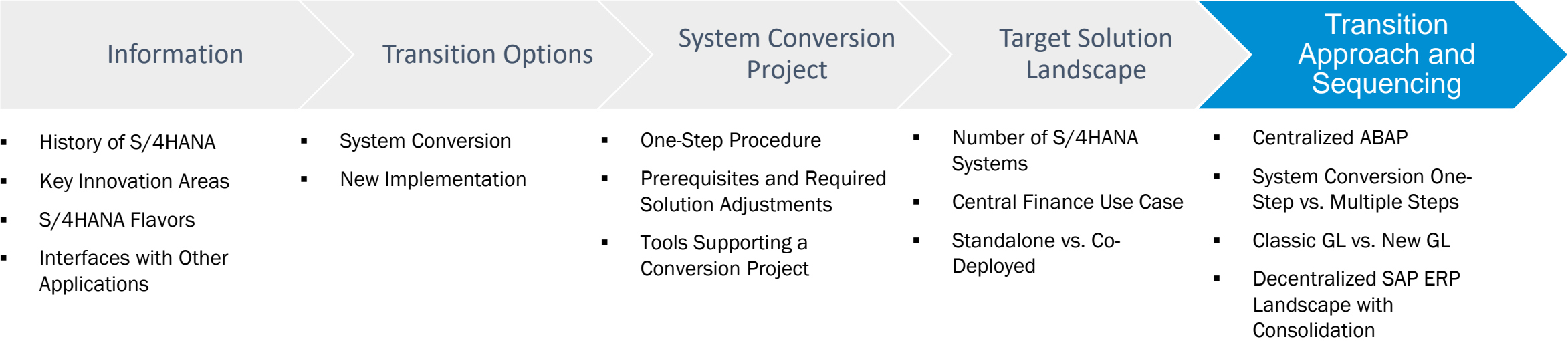
Target Solution Landscape

Deployment Options

- New Deployment Models
 - Allow embedding previously standalone solutions/capabilities
 - Allow simplified end-to-end processes
- Recommendations Regarding New Deployment Options
 - Not Mandatory
 - Not a suggestion from SAP how to run SAP applications in the future
 - Require a Proper Evaluation



Building your Roadmap to SAP S/4HANA



Transition Approach and Sequencing

Single Central SAP ERP ABAP System

	System Conversion	Selective Data Transition	New Implementation
What is it?	<ul style="list-style-type: none"> • An “upgrade” of a complete system, using standard SUM • Simplest and least risky approach with by far best data conversion performance • Downtime minimization available for larger systems 	<ul style="list-style-type: none"> • A project approach by SAP Services for migrating and transforming selected historical data into an SAP S/4HANA System • More complex approach, feasibility, efforts and risks depend on scope 	<ul style="list-style-type: none"> • Migration of master data, open items and balances into an SAP S/4HANA system using standard SAP S/4HANA migration Cockpit tool (posting via application interface) • Phased approach possible
When does it fit best?	<ul style="list-style-type: none"> • Solution largely fits to current business needs, • and evolutionary approach to consuming SAP S/4HANA innovations is feasible and acceptable 	<ul style="list-style-type: none"> • Solution largely fits business needs, • and need for historical data, • and transformation needs • Examples: <ul style="list-style-type: none"> • Selective data migration (divesture, time slice, ...) • Consolidation of multiple ERP systems • Implementation of parallel ledgers • Org structure changes 	<ul style="list-style-type: none"> • Current solution is too complex or doesn’t fit business needs anymore, • and strong desire to reimplement the solution or go back to standard (independent of SAP S/4HANA) • or data transformation needs and no need for historical data

Transition Approach and Sequencing

Decentralized SAP ERP Landscape with Consolidation

		How well does the existing solution fit to the business requirements? Is process reengineering required?		
		Solution fits in all systems, no need to change	Solution fits largely in at least one system	Solution does not fit anymore in any of the systems
How much historical data needs to be taken over?	Master data + open items and balances only	New system implementation reusing config/code or system conversion of one system, then data migration		New system implementation using accelerators like IndustryNOW or Best Practices
	+ selective migration of historical data		Additional data could possibly be taken over, will increase effort for data migration. Feasibility check required.	Additional data could possibly taken over, will increase effort for data migration. Feasibility check required.
	+ complete historical data for all systems	System consolidation, then system conversion / or system consolidation into new system.	Probably not feasible and does not make sense	Probably not feasible and does not make sense

Appendix

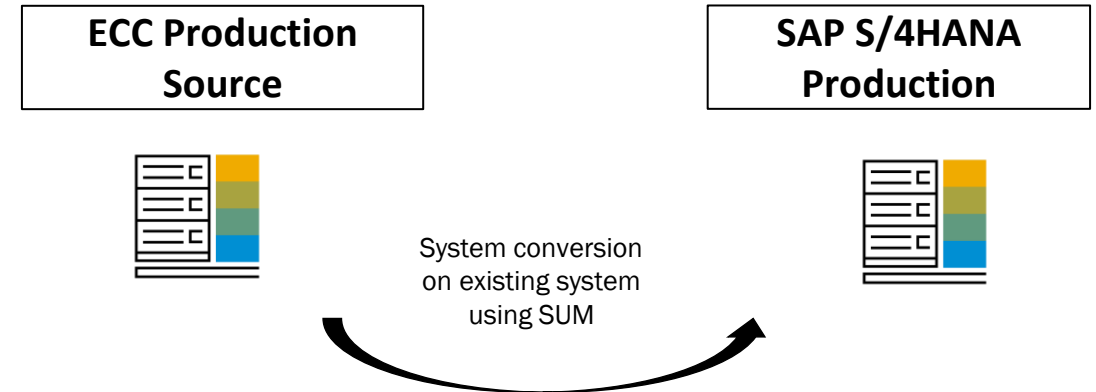
Transition Options

System Conversion

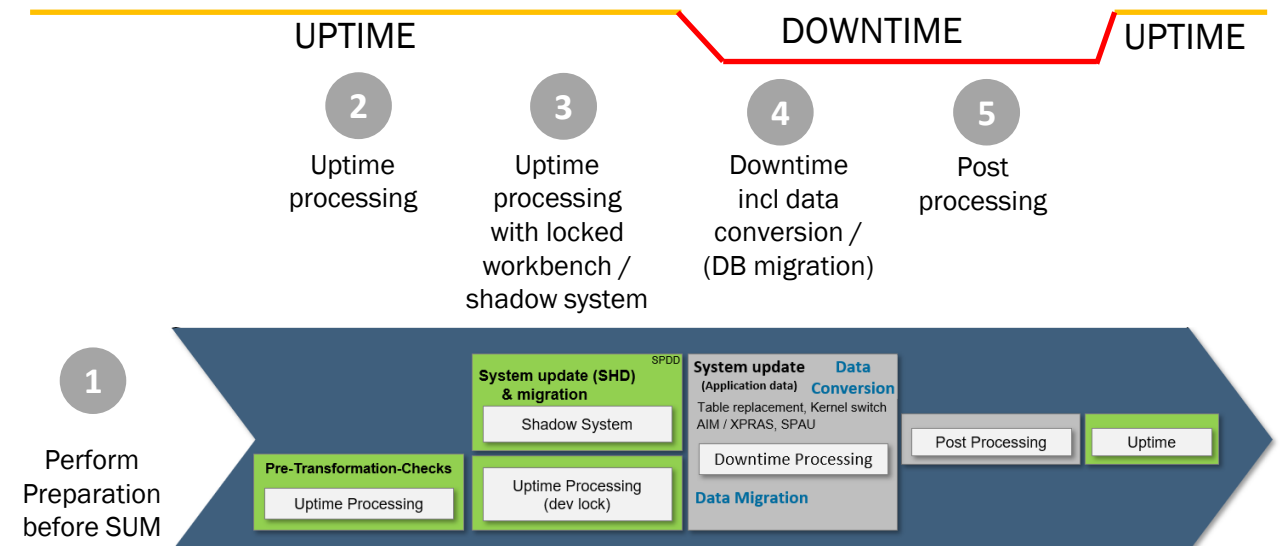
Convert existing ERP system into SAP S/4 HANA system including data etc. on existing hardware (called in-place conversion) using SUM (Software Update Manager).

Can be combined with a database migration to HANA from anyDB (in this case only DB server is changed) with SUM DMO (Database Migration Option).

1. Application preparation steps as well as technical preparation (e.g. HANA installation in case of SUM DMO)
2. Run SUM: uptime before lock workbench (ERP source can still be used productively without restrictions)
3. Run SUM: starts with lock workbench (no more development / transports). Shadow system with new Dictionary is built on same hardware, SPDD has to be performed. Except the locked workbench system can still be used productively
4. Run SUM: downtime execution where switch from ERP to S/4 is performed, data are converted and migrated in DMO case
5. System now is on S/4. Post processing contains still some smaller SUM-phases. After SUM is finished normally technical and application related post work is executed



Technical process in SUM:



Transition Options

New Implementation



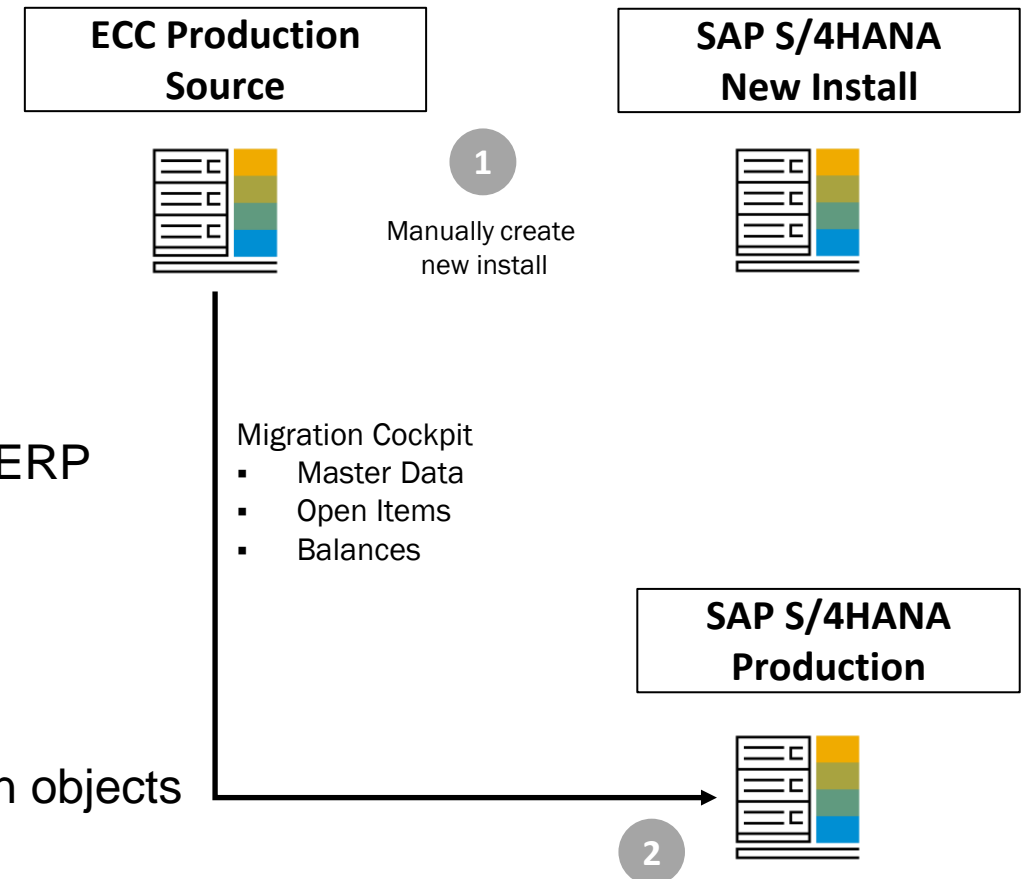
Don't start with an empty system. Use Accelerators!

Available Accelerators:

- Preconfigured SAP S/4HANA Systems (IndustryNOW)
- SAP Best Practices
- Potentially (Very Selectively) transport from existing SAP ERP

Data Migration Tools

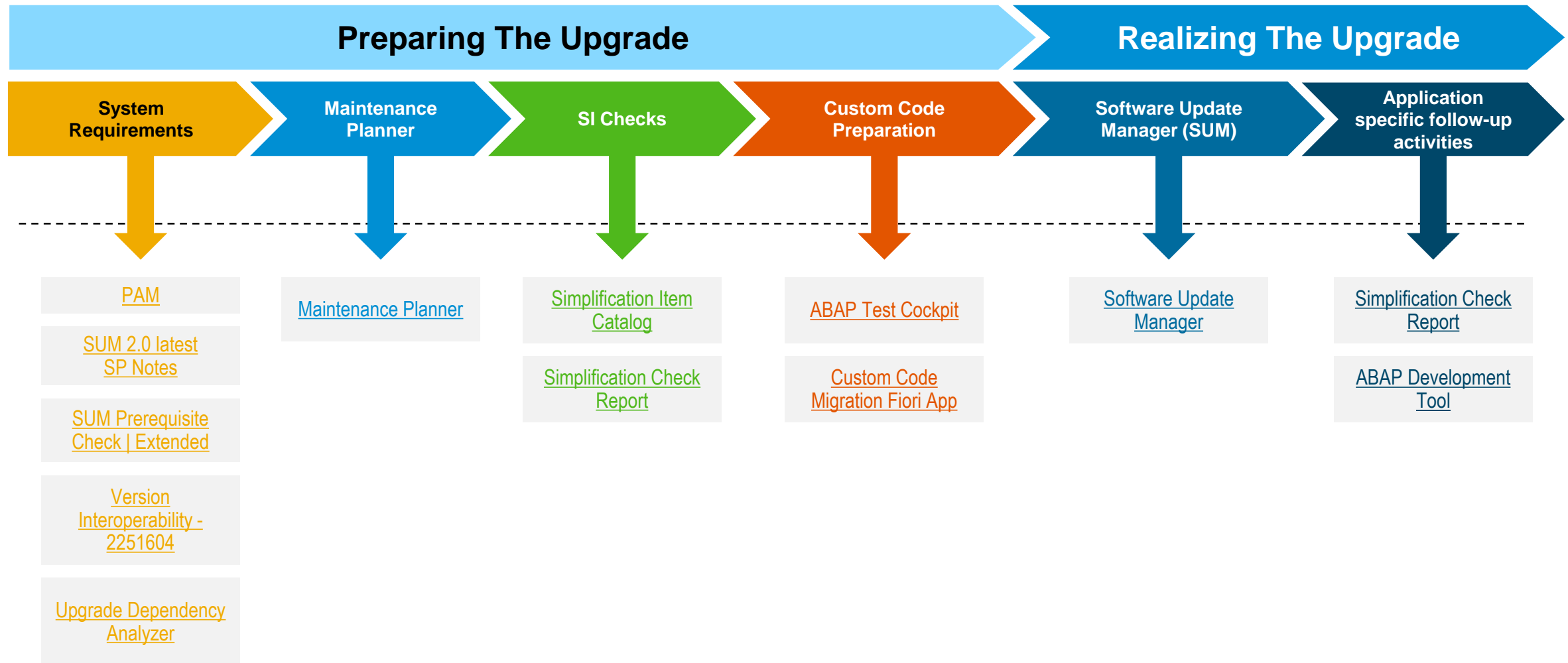
- No SAP Support for LSMW
- SAP's Migration Cockpit
 - SAP S/4HANA 2023 delivers templates for 487 migration objects
 - Only for initial data migration, can't update existing data
- RDM Content
- 3rd Party Migration tools



[Data Migration Tools for the move to S/4HANA – Comparison MC/RDM/LSMW](#)

System Conversion Project

Tools Supporting an SAP S/4HANA Conversion





SAP S/4HANA RIG Knowledge Assets

Most Relevant Assets (1/2)

Finance

- [Financial Planning with Universal Parallel Accounting in SAP S/4HANA 2022](#)
- [Universal Allocation in SAP S/4HANA 2022](#)
- [Multiple Valuation Approaches/Transfer Prices in SAP S/4HANA – Implementation hints](#)
- [General approach for Selective Data Transition projects in SAP S/4HANA – a Finance perspective](#)
- [An Introduction to the Data Transition Validation Tool](#)
- [What you should know about controlling in SAP S/4HANA. \(Part 1\)](#)

Architecture & Operations

- [openSAP course "Gain Technical Knowledge on SAP S/4HANA Cloud, private edition"](#)
- [Upgrading SAP S/4HANA - How, Why, and Best Practices](#)
- [Prepare your SAP S/4HANA System for an Upgrade](#)
- [SAP S/4HANA 2022 System Conversion Steps & Details – How to be prepared?](#)
- [Third-Party Solutions usage in RISE with SAP S/4HANA Cloud, private edition](#)

Procure to Pay

- [SAP S/4HANA Procurement - Service Procurement - An Introduction](#)
- [openSAP Course - Gain Experience with SAP S/4HANA – Logistics – Flexible Workflow Unit 8 & 9](#)
- [SAP Sourcing and Procurement Value Paper](#)
- [Considerations adopting SAP Fiori apps and innovations](#)
- [openSAP Course - Insights into Selected Logistics Innovations in SAP S/4HANA – Central Procurement Unit 5 & 6](#)

Business Partner & Customer Vendor Integration

- [BP and CVI in SAP S/4HANA System Conversion](#)
- [FAQ: CVI - Customer Vendor Integration for system conversion to S/4HANA](#)
- [CVI Cookbook](#)
- [New Employee Business Partner Data Model in SAP S/4HANA 2020 On-Premise](#)
- [SAP S/4HANA Business Partner BDT Analyzer usage](#)
- [SAP S/4HANA Business Partner restrict Business Partner Grouping at creation](#)

Order to Cash

- [Advanced Intercompany Sales in SAP S/4HANA OP/Private Cloud](#)
- [How to Manage Workflows for Sales Price in S/4HANA](#)
- [Comparison for SAP S/4HANA Basic Credit Management and Advanced Credit Management](#)
- [Flexible Workflow in SAP S/4HANA Sales Scenarios](#)
- [openSAP Course - Gain Experience with SAP S/4HANA – Logistics –Unit 2 & 3](#)
- [openSAP Course - Insights into Selected Logistics Innovations in SAP S/4HANA – Sales Unit 2 & 3 & 4](#)

Cloud, private edition specifics

- [openSAP course "Gain Technical Knowledge on SAP S/4HANA Cloud, private edition"](#)
- [Functional differences between SAP S/4HANA Cloud, private edition and SAP S/4HANA On-premise](#)
- [Roles and Responsibilities in SAP S/4HANA Cloud, private edition](#)
- [What tools do you require as SAP S/4HANA cloud, private edition customer to get in touch with SAP Service & Support](#)



SAP S/4HANA RIG Knowledge Assets

Most Relevant Assets (2/2)

Fiori & UX

- [SAP Community Topic - SAP Fiori for SAP S/4HANA](#)
- [SAP Fiori for SAP S/4HANA – Migrating from groups to spaces and pages – Why, When, and Key Differences for Users](#)
- [SAP Fiori for SAP S/4HANA – What is Key User Extensibility and Who are your Key Users](#)
- [SAP Fiori for SAP S/4HANA – App Variants are the EASY way to control App Features](#)
- [SAP Fiori for SAP S/4HANA –Finding authorization objects for SAP Fiori apps with SU24](#)
- [SAP Fiori for SAP S/4HANA – Performance Optimization and Best Practice – Part 1 Tools and Tracing](#)

Plan to Product

- [Everything you need to know about MRP Areas in S/4HANA](#)
- [Time-Dependent Stock Levels in SAP S/4HANA SAP](#)
- [Overview PP/DS on DSC Edition for S/4HANA with use case MMP & SEQ](#)
- [SAP Extended Warehouse Management versus SAP S/4HANA Stock Room Management.](#)
- [Main differences between SAP EWM embedded on SAP S/4HANA and Decentral SAP EWM on S/4HANA](#)
- [Supply Protection of advanced ATP in SAP S/4HANA On Premise | SAP Blogs](#)
- [SAP S/4HANA: Financial Planning with Commercial Project Management](#)

[Link to list of all Published Assets](#)

Key Points to Take Home

- Start your SAP Readiness Check for S/4HANA early
- A system conversion does not mean you don't get the benefits of S/4HANA
- You can have a transformation project using a system conversion
- On Average S/4HANA Conversions take 9-12 months
- If you are uncertain, please reach out to SAP

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your session evaluation.

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