



Week 1: Fundamentals and Technical Tooling

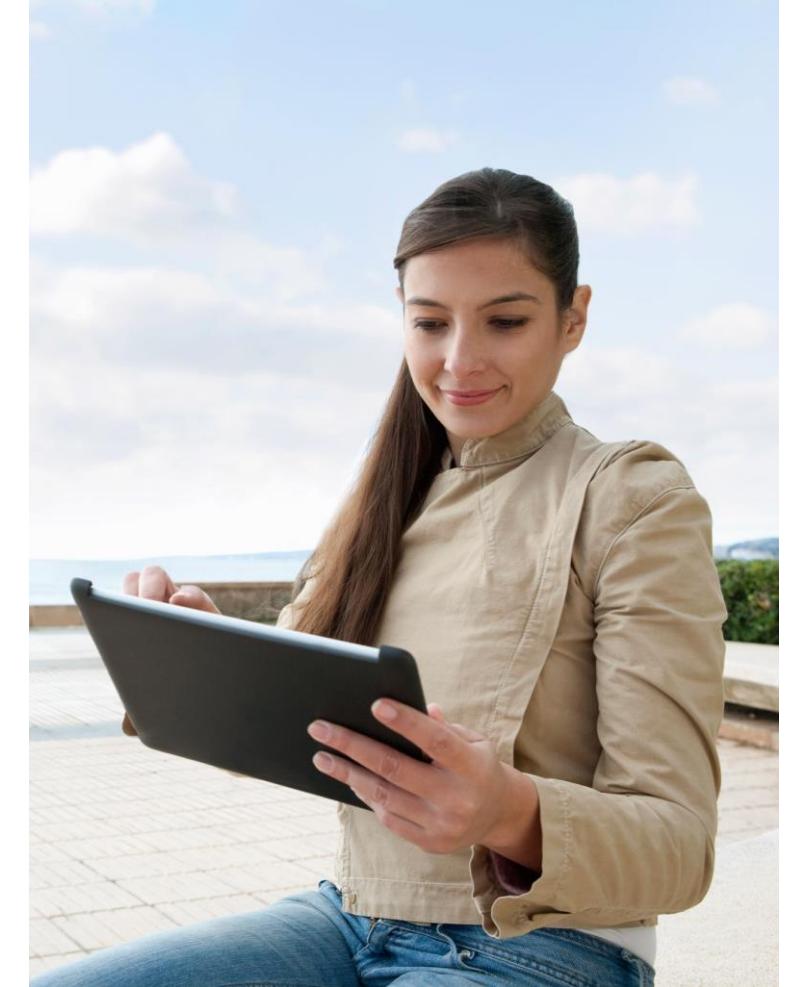
Unit 1: Arguments for Choosing SAP S/4HANA System Conversion

Arguments for Choosing SAP S/4HANA System Conversion

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 data models
- Renewed applications
- New UI technology
- Embedded AI
- Cloud & on-premise deployment models



Arguments for Choosing SAP S/4HANA System Conversion

Understanding your options

System Conversion



SAP ERP
System



SAP S/4HANA
On-Premise

New Implementation



SAP ERP or
Third-Party
System



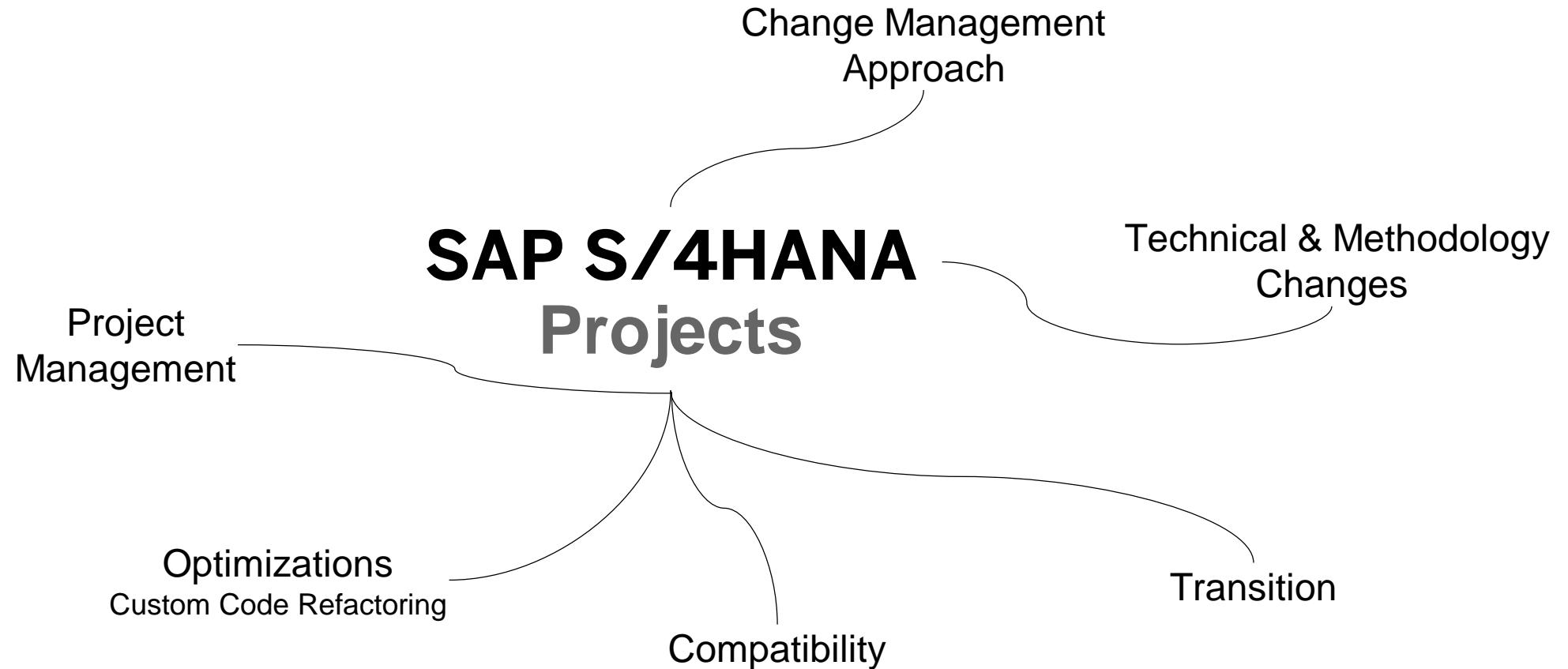
SAP S/4HANA
Cloud



SAP S/4HANA
On-Premise

Arguments for Choosing SAP S/4HANA System Conversion

Learnings from customer projects

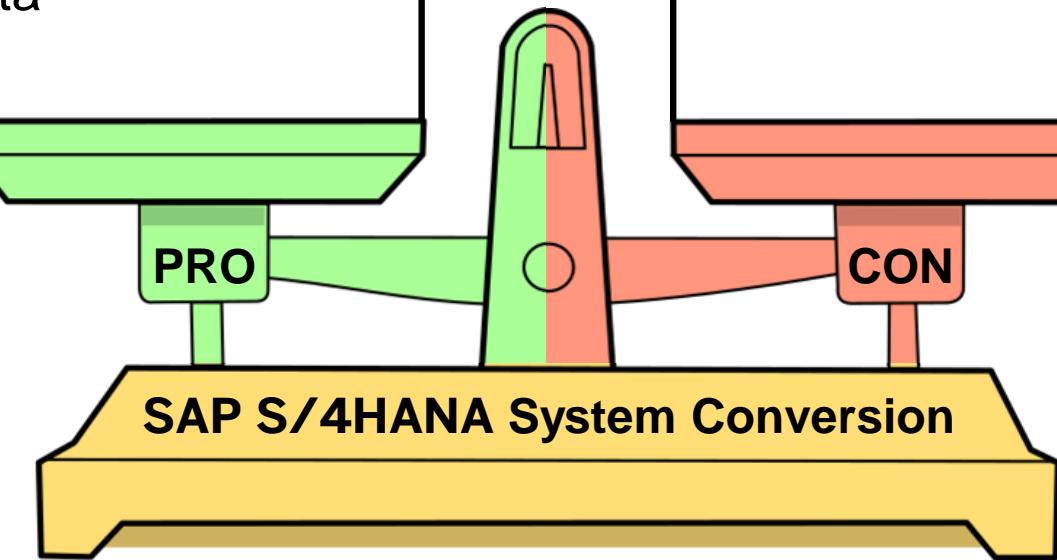


Arguments for Choosing SAP S/4HANA System Conversion

Decision factors influencing the choice of transition scenario

- Faster move to SAP S/4HANA
- Preserve historic data
- Investment protection
- Limit change management
- Prepare for business innovations
- No initial load of data

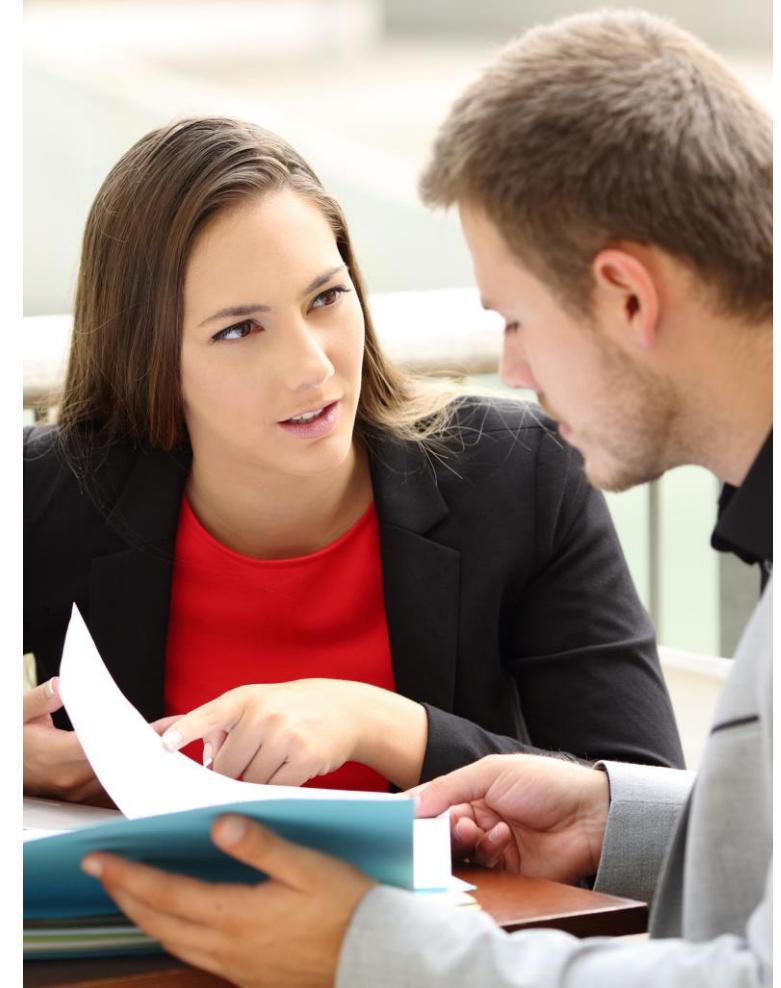
- Process re-design could be harder
- Need to meet prerequisites
- Additional housekeeping activities



Arguments for Choosing SAP S/4HANA System Conversion

Key questions you want to ask when deciding on the right transition scenario

- Do you want to keep your solution enhancements or your transaction data history?
- Does your system fulfill all conversion prerequisites?
- Do you need a phased business rollout?
- Do you need a renewal of your complete ERP solution?
- How do you perceive your current system?



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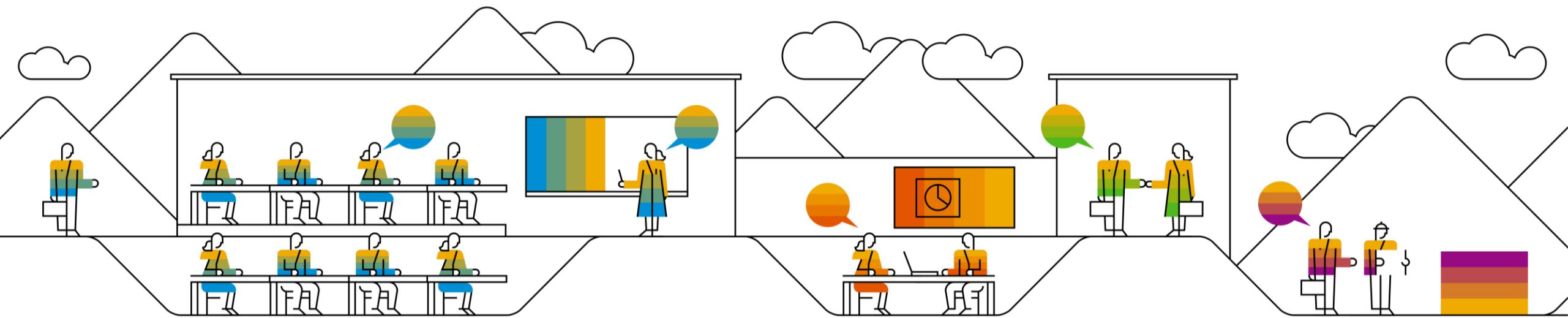


Week 1: Fundamentals and Technical Tooling

Unit 2: Project Plan and Breakdown into Preparation and Realization – Part I

Project Plan and Breakdown into Preparation and Realization – Part I

Agenda



Unit 2

Unit 3

Part 1

- Getting started with a project methodology

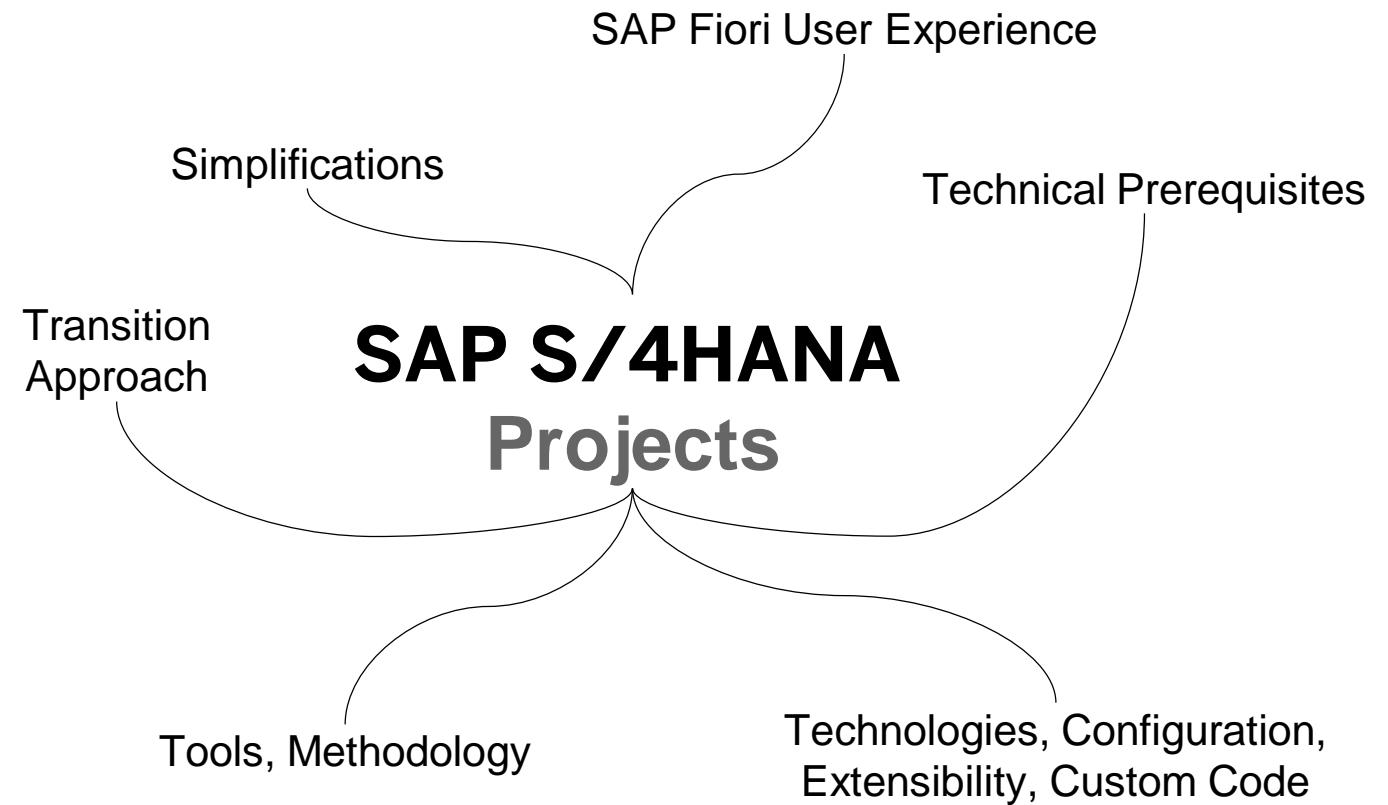
Part 2

- Special attention topics relevant for project planning

Project Plan and Breakdown into Preparation and Realization – Part I

SAP S/4HANA – Manage all parts properly in a project plan

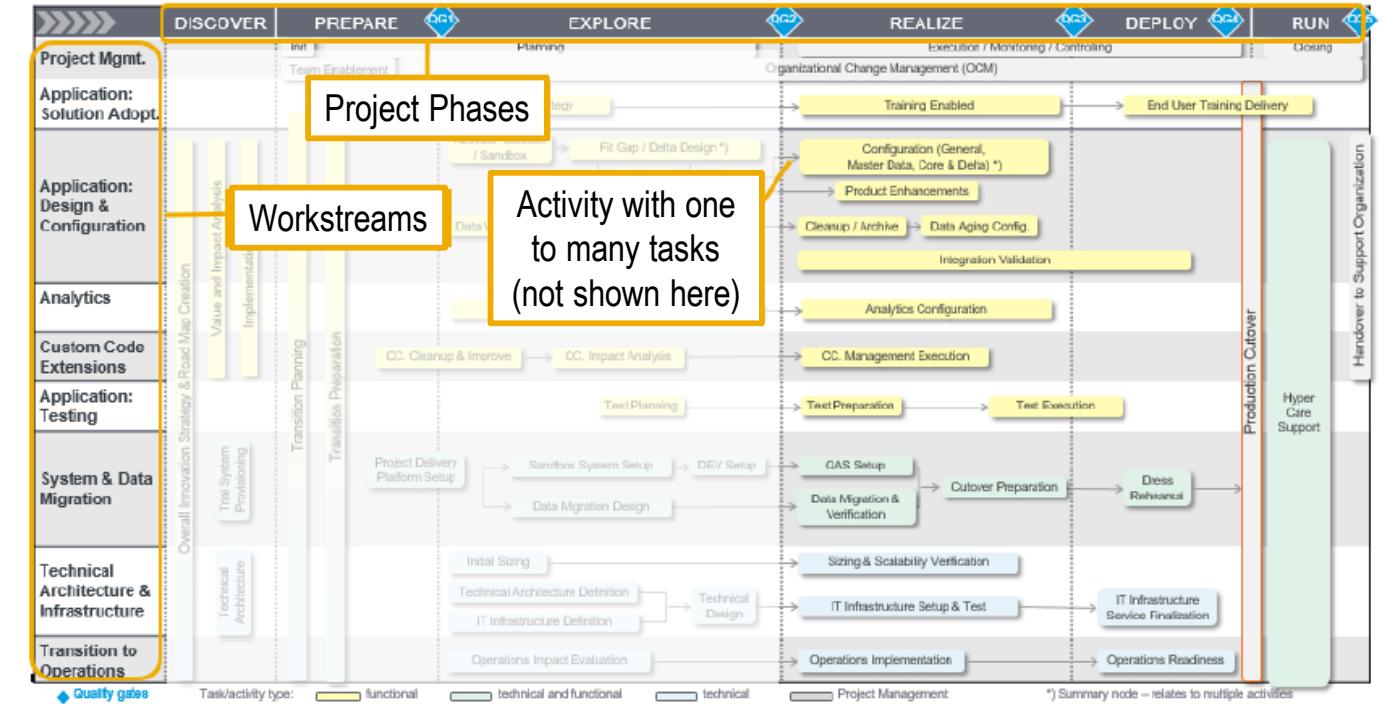
- **Customers choose their own path towards SAP S/4HANA**
- **Attention to change management topics**
- SAP S/4HANA is **not** ERP 6.0
- **Knowledge transfer** is a key element
- **Involve relevant stakeholders** right from the beginning
- **Simplification means change**



Project Plan and Breakdown into Preparation and Realization – Part I

Project planning is supported by the SAP Activate methodology

- SAP Activate is the SAP guidance for an SAP S/4HANA conversion project
- The conversion project is structured into
 - Project phases
 - Workstreams
 - Project activities and tasks
 - Quality gates
- Getting Started with SAP Activate in Roadmap Viewer

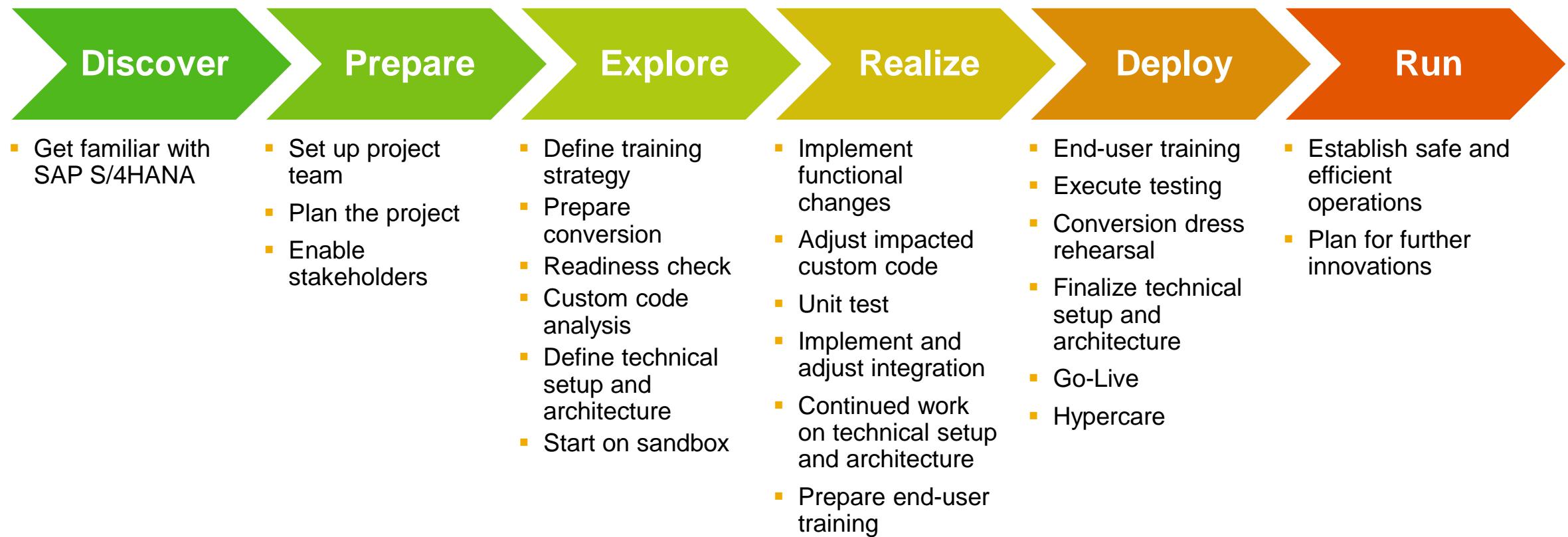


➤ <https://go.support.sap.com/roadmapviewer/>

Project Plan and Breakdown into Preparation and Realization – Part I

Project phases in SAP Activate

Project phases are stages of the project. At the end of each phase, a quality gate exists to verify the completion of the deliverables.



Project Plan and Breakdown into Preparation and Realization – Part I

Relevant workstreams for a conversion project

A workstream

- Is a collection of related deliverables
- Has relationships within a project and among other streams
- Can span phases and is not necessarily dependent on phase start and end

Application Design & Configuration

System & Data Migration

Application Solution Adoption

Custom Code

Project Management

Analytics

Application Testing

Application Integration

Technical Architecture & Infrastructure

Transition to Operations

Project Plan and Breakdown into Preparation and Realization – Part I

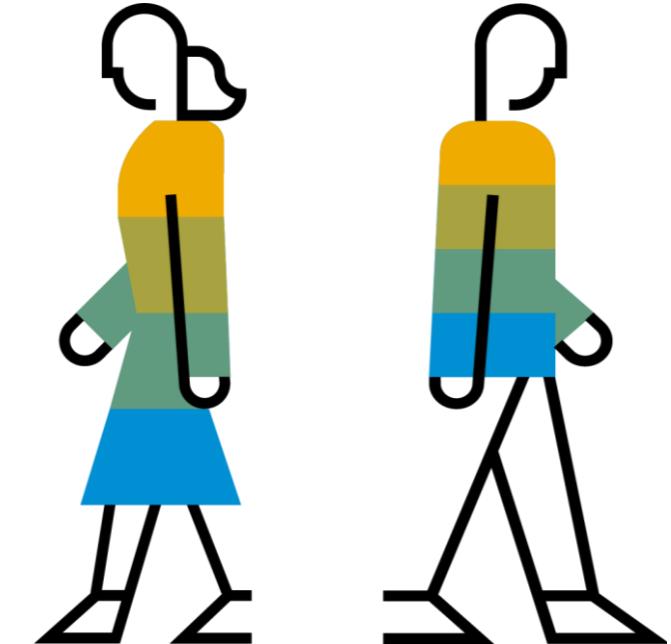
Project roles and skills

Roles

- Project manager
- Basis expert
- Architect
- Functional expertise
 - Finance expert
 - Logistics expert
 - CVI expert
- Development expert
- Key users
- Test user
- SAP Fiori expert

Skills

- Technical architecture
- Good SAP Basis skills
- Experienced in upgrades and migrations
- ABAP, ABAP on HANA
- SAP HANA Basis and Operations
- Test experience
- SAP Fiori and UI5, Fiori architecture



Project Plan and Breakdown into Preparation and Realization – Part I

Take a look into the Roadmap Viewer

The Roadmap Viewer can be accessed here:

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

Welcome to the Roadmap Viewer in
SAP Solution Manager



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Week 1: Fundamentals and Technical Tooling

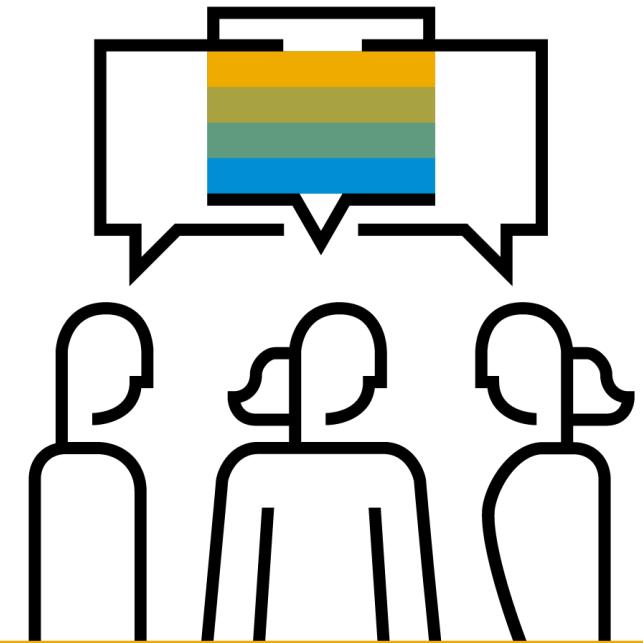
Unit 3: Project Plan and Breakdown into Preparation and Realization – Part II

Project Plan and Breakdown into Preparation and Realization – Part II

Check the full architecture right from the beginning

The target architecture for SAP S/4HANA influences the project plan

- Used add-ons and business functions
- Additional servers and systems that are required for SAP S/4HANA
- Connected and integrated systems
- Versions, releases, and SAP HANA revisions
- Sizing
- Clarify the extent of usage of SAP Fiori

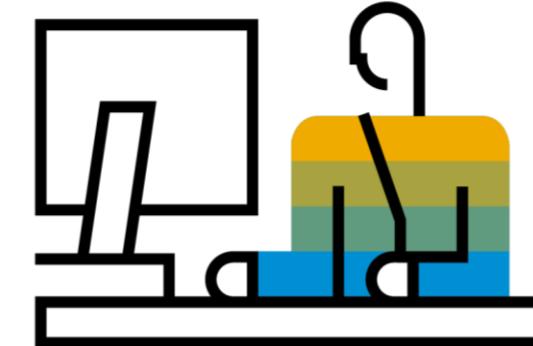


This might lead to additional tasks in a project plan next to the conversion

Project Plan and Breakdown into Preparation and Realization – Part II

Consider a sandbox to start the journey towards SAP S/4HANA

- Conversions can cost **a significant amount of time**. This can't be **avoided** and must be taken into account in the project plan
- Plan for **sufficient testing on a sandbox**
 - To learn and get first experience of a conversion
 - To optimize downtime
 - To test functional changes with regard to SAP S/4HANA
 - To check data quality issues and to trigger mitigation in time
 - To learn about actions that might be required for downtime optimization purposes

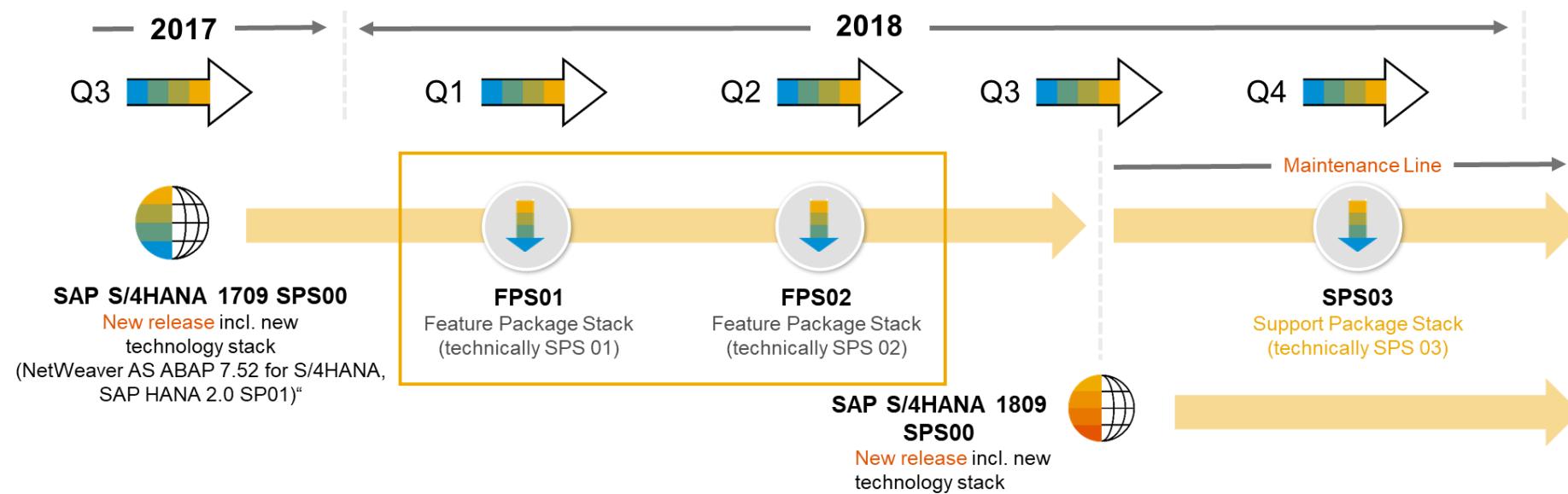


A sandbox allows to better plan for the “unknown” such as integration topics, testing issues, and other topics in the conversion project

Project Plan and Breakdown into Preparation and Realization – Part II

Consider the release and maintenance plan of SAP S/4HANA

- Yearly innovation cycle for SAP S/4HANA on-premise
- The latest release receives Feature Package Stacks (FPS)
- Availability of 3rd party add-ons with a new release



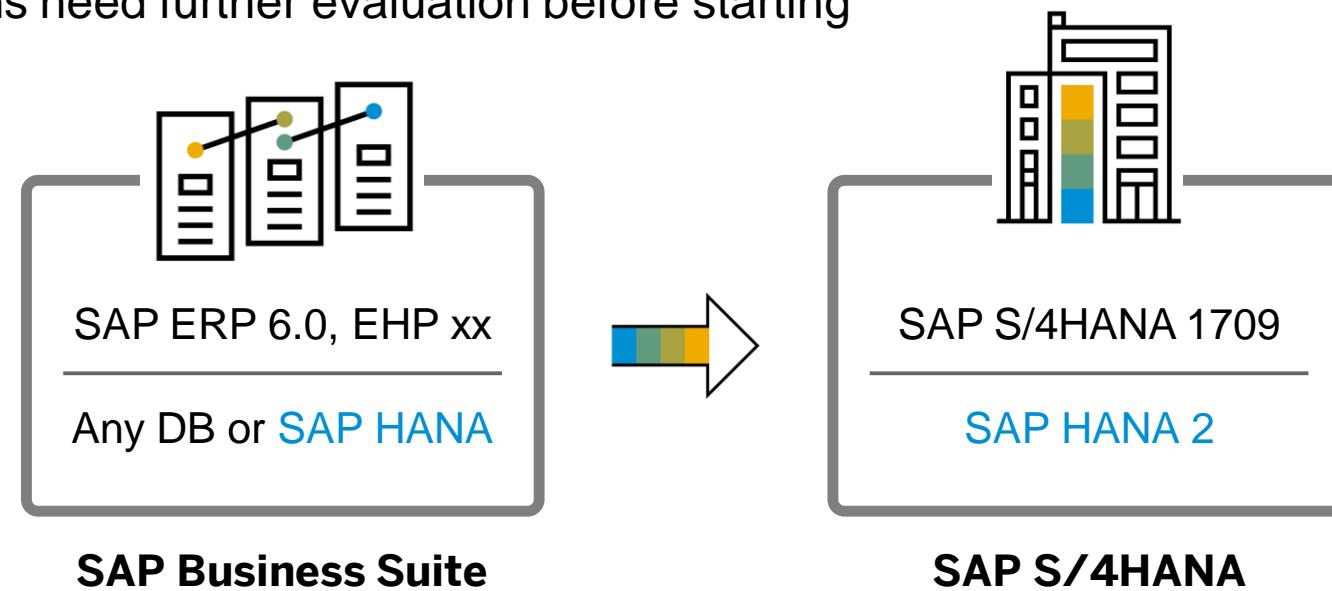
Be clear about the target release. In long-running projects, consider the release plan for SAP S/4HANA. Don't forget the SAP HANA database release cycles.

Project Plan and Breakdown into Preparation and Realization – Part II

Transition path overview for SAP S/4HANA system conversion

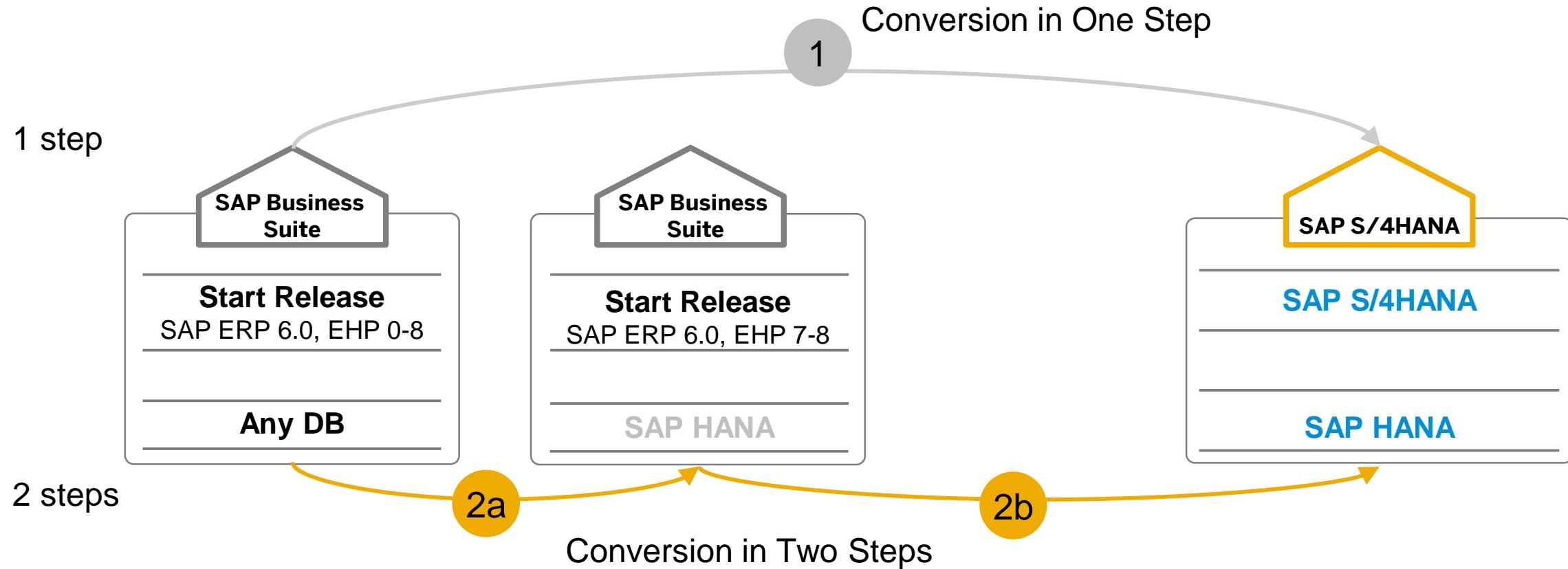
Requirements for the source system in one-step approach

- Start from ERP 6.0 EHP 0-8 on Any DB
- ABAP-only system
- Unicode
- SAP Business Suite on HANA systems that are on SAP HANA 1 needs to upgrade first to SAP HANA 2
- All other consolidations need further evaluation before starting



Project Plan and Breakdown into Preparation and Realization – Part II

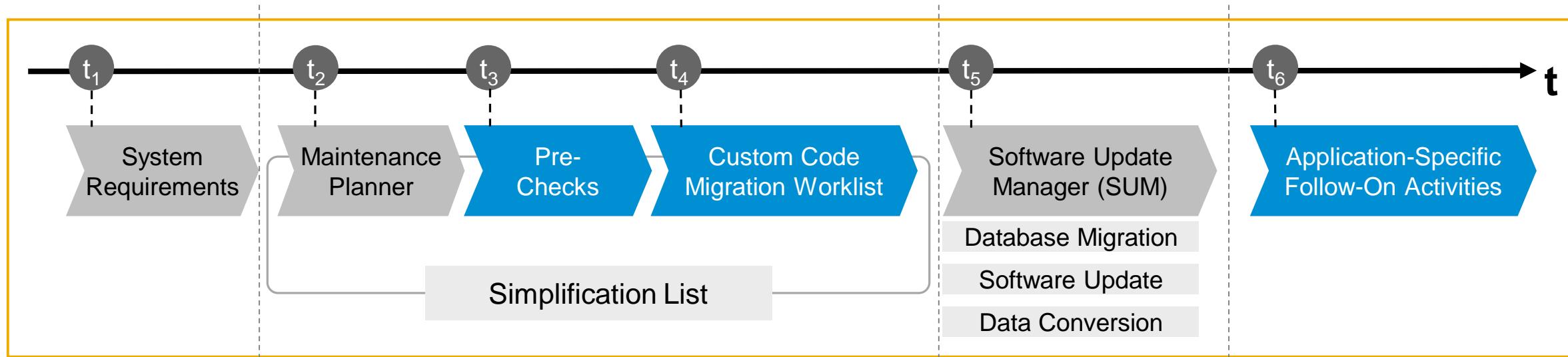
The way to SAP S/4HANA – One-step vs. two-step approach



One-step approach as preferred option (if no showstopper or other constraints exist)

Project Plan and Breakdown into Preparation and Realization – Part II

Overview of the system conversion approach

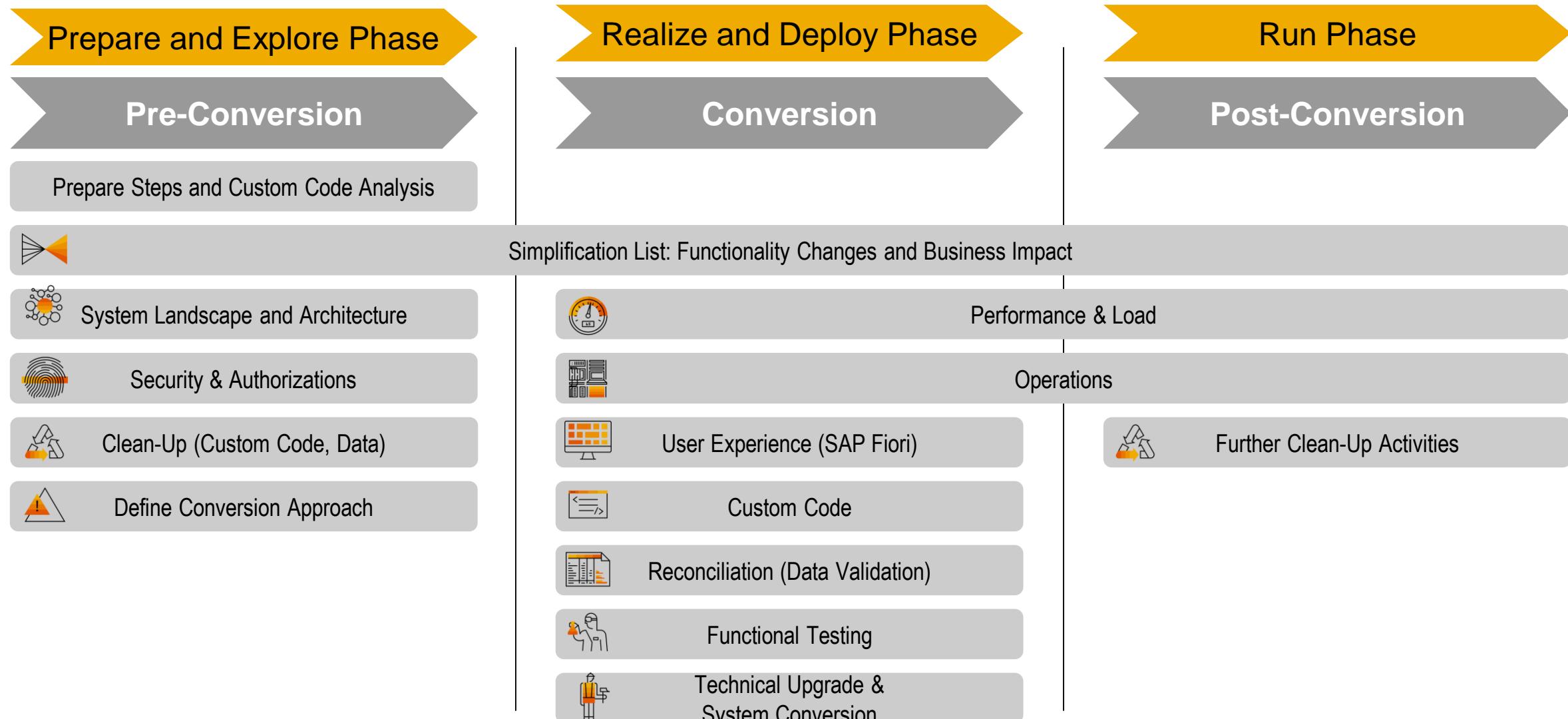


- Proper planning and checking prerequisites
- Run pre-checks right from the beginning
- Maintenance planner required for stack calculation
- Pre-checks are executed here at latest
- Adaption of custom code
- Most of Logistics conversion to SAP S/4HANA is done here
- Application-specific migration during business downtime
- Majority of the Finance migration happens here in the standard approach

Practice and repeat the conversion approach. Align with the project plan.

Project Plan and Breakdown into Preparation and Realization – Part II

In a nutshell: A project plan includes many different aspects of the conversion



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Week 1: Fundamentals and Technical Tooling

Unit 4: Project Roles and Skills for System Conversion – Part I

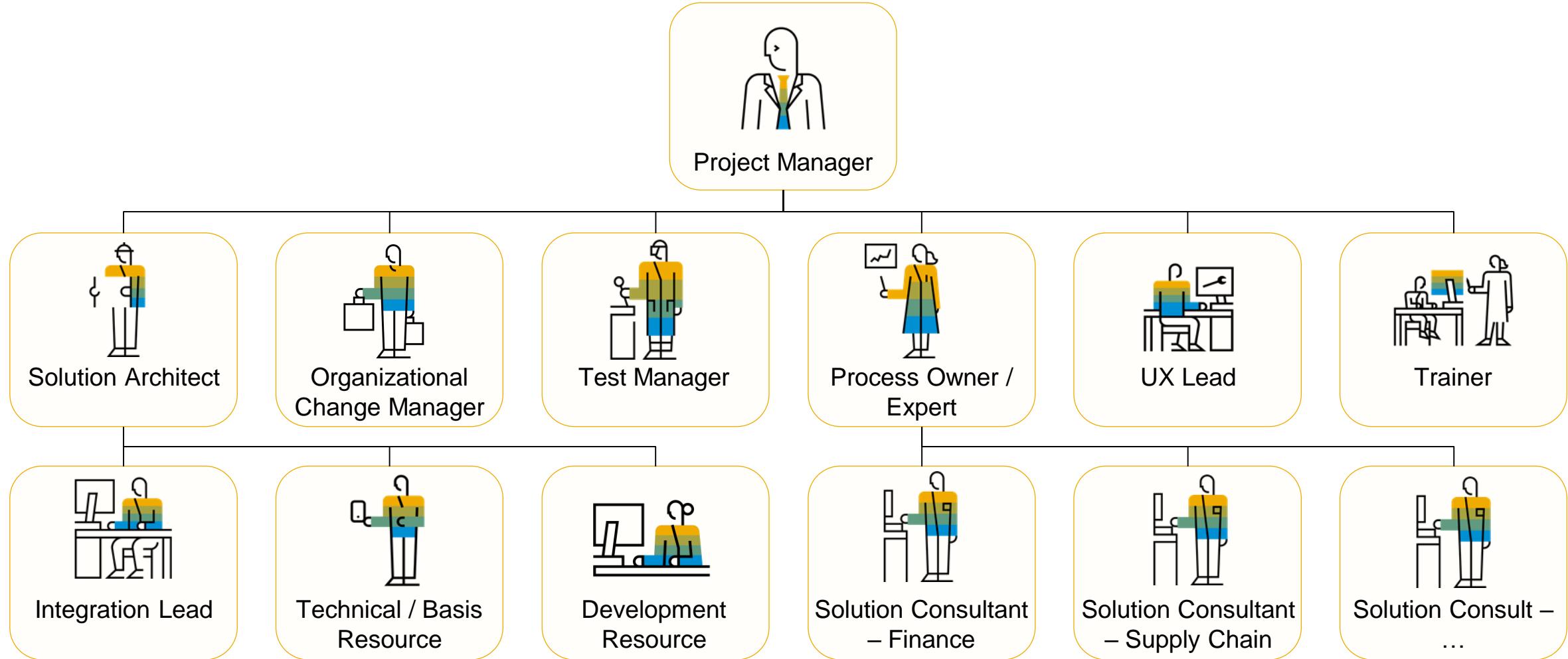
Project Roles and Skills for System Conversion – Part I

Required roles and skills

“Which roles & skills are required for a system conversion project?”

Project Roles and Skills for System Conversion – Part I

Project roles – Overview



Project Roles and Skills for System Conversion – Part I

Project role – Project manager

Mindset

- This is not a purely technical project, and business process adjustment will be required

Challenges

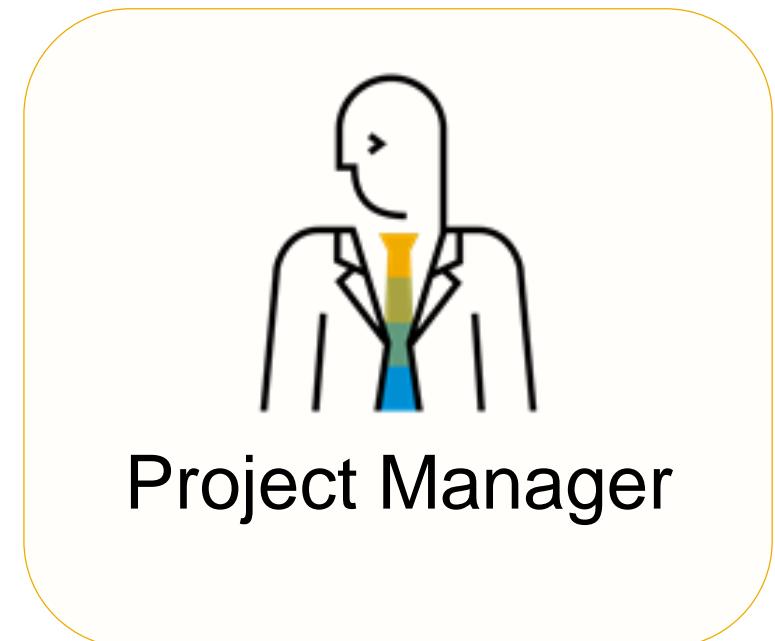
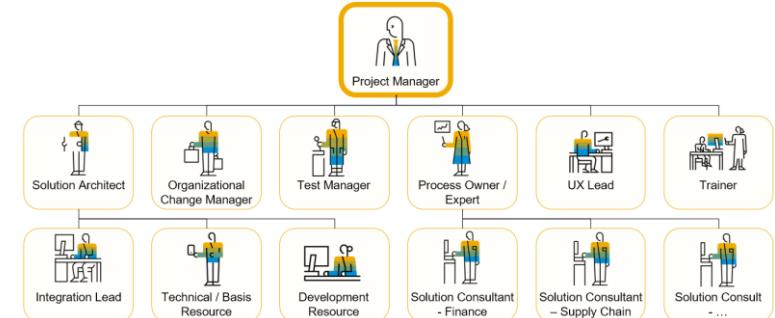
- Understand the overall digital transformation of the company

Responsibilities

- Define success criteria for the conversion project

Skills / Knowledge

- Good communication and ability to drive collaboration



Project Roles and Skills for System Conversion – Part I

Project role – Solution architect

Mindset

- Understand the future needs and define the future system landscape

Challenges

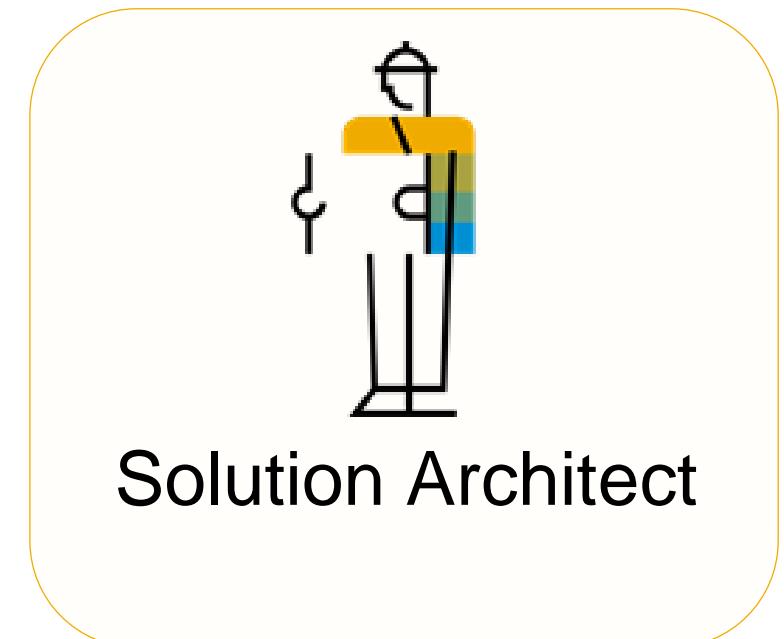
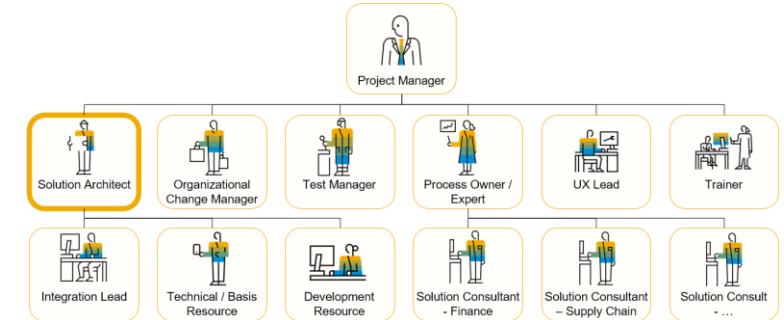
- Be able to understand and plan the technical changes required and define a roadmap leading to the final target

Responsibilities

- Understand the involved technologies and be able to provide advice

Skills / Knowledge

- Be able to quickly learn about the required changes and articulate this in a solution architecture



Solution Architect

Project Roles and Skills for System Conversion – Part I

Project role – Organizational change manager

Mindset

- This is the start of long-term change

Challenges

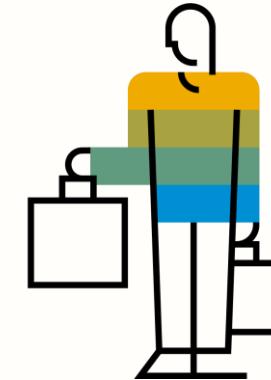
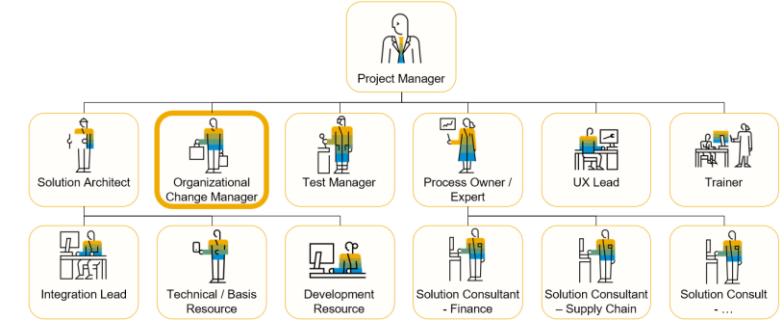
- Make sure to involve people in the change

Responsibilities

- Define the organizational change management and governance

Skills / Knowledge

- Very good communication skills



Organizational
Change Manager

Project Roles and Skills for System Conversion – Part I

Project roles – Test manager

Mindset

- Testing should not be an afterthought

Challenges

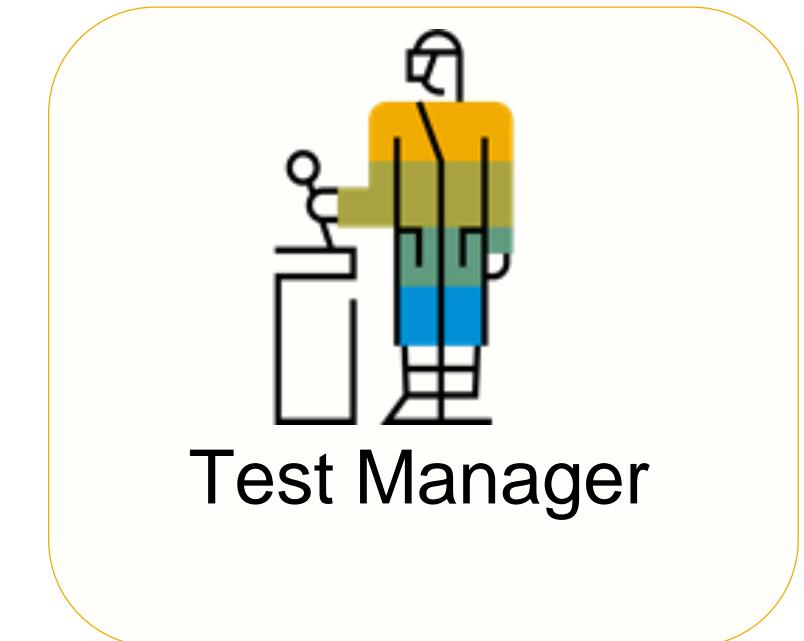
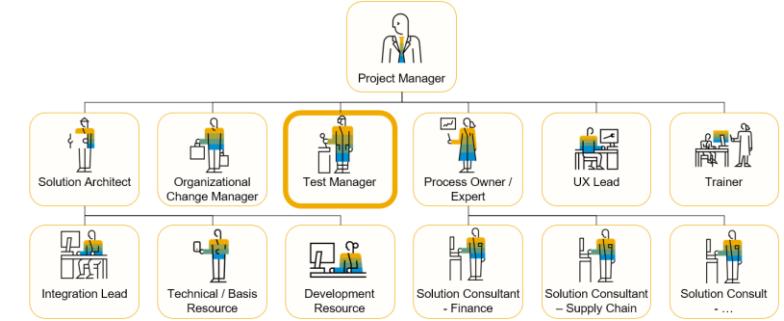
- Allocate sufficient time and resources for testing

Responsibilities

- Manage the full end-to-end test cycle and the successful outcome

Skills / Knowledge

- Good communicator and knowledge of SAP an advantage



Project Roles and Skills for System Conversion – Part I

Project role – Process owner / expert

Mindset

- Understanding the system conversion is a chance to improve the business practices

Challenges

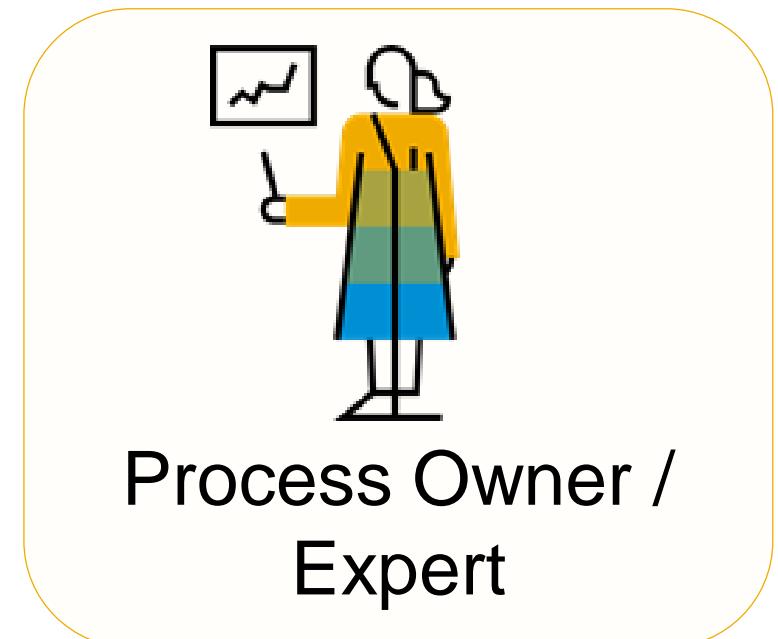
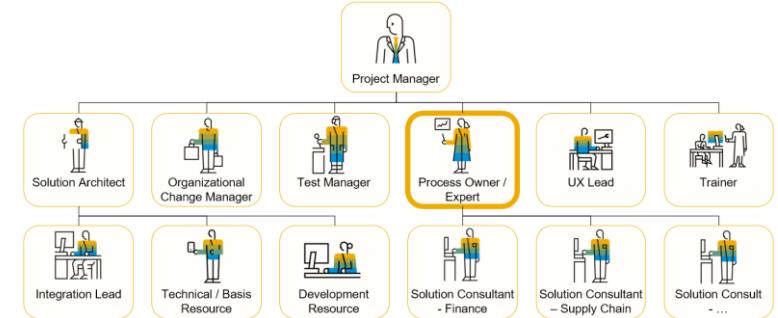
- Ensure the community is taken on the change journey and people are not left behind

Responsibilities

- Communicate the changes and provide feedback from the user base to the project

Skills / Knowledge

- Be able to listen and learn quickly about the new business processes



Project Roles and Skills for System Conversion – Part I

Project role – UX lead

Mindset

- User experience is a key factor in solution acceptance

Challenges

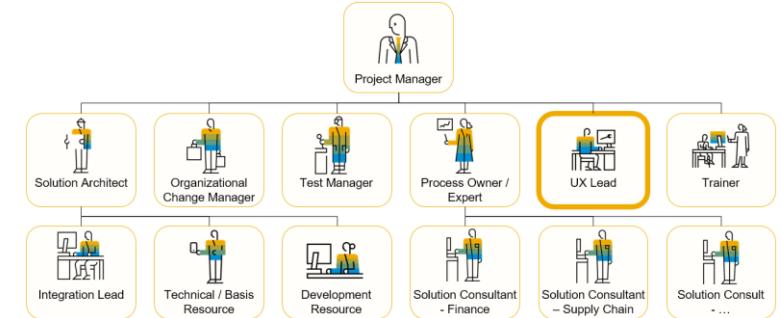
- Advocate the UX strategy to support the transformation goals

Responsibilities

- Guide the user experience journey throughout the SAP S/4HANA project

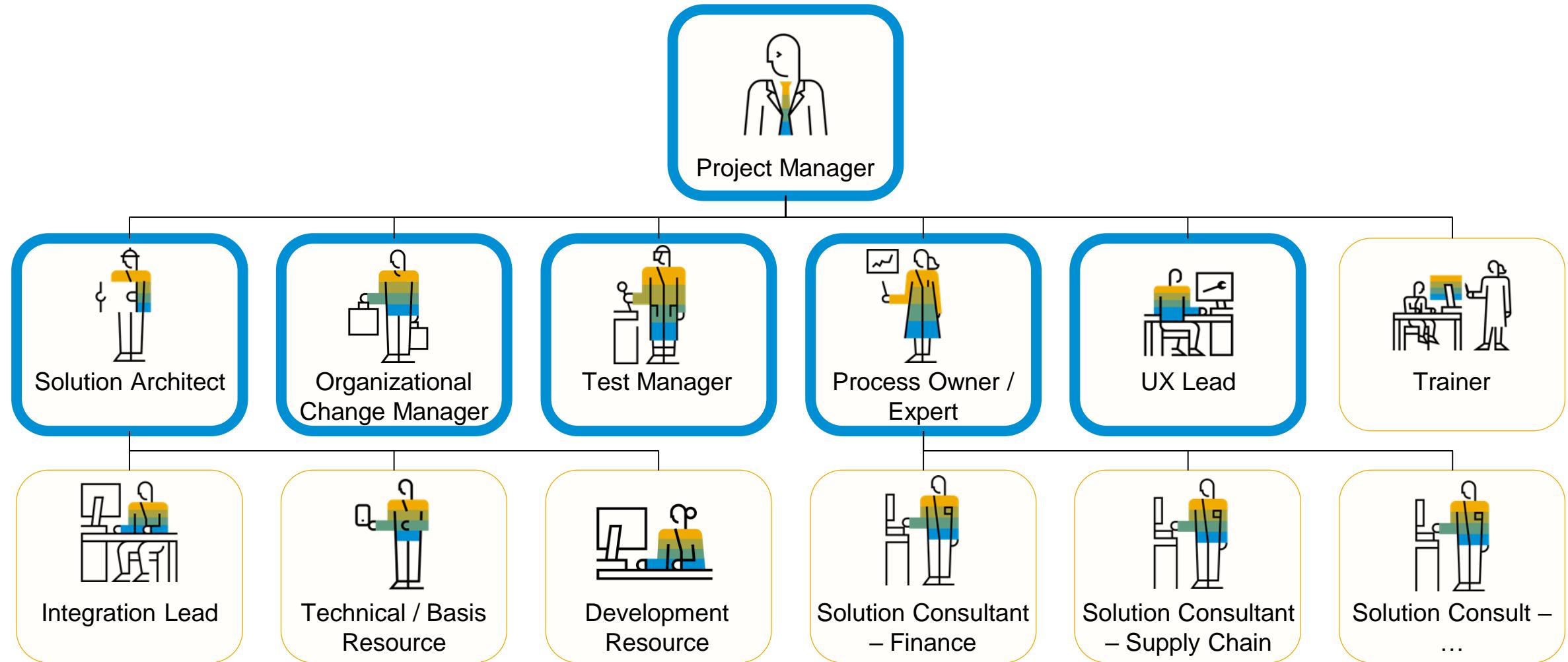
Skills / Knowledge

- Understand the current challenges and how the new solution can best benefit the individual user groups



Project Roles and Skills for System Conversion – Part I

Project roles – Overview



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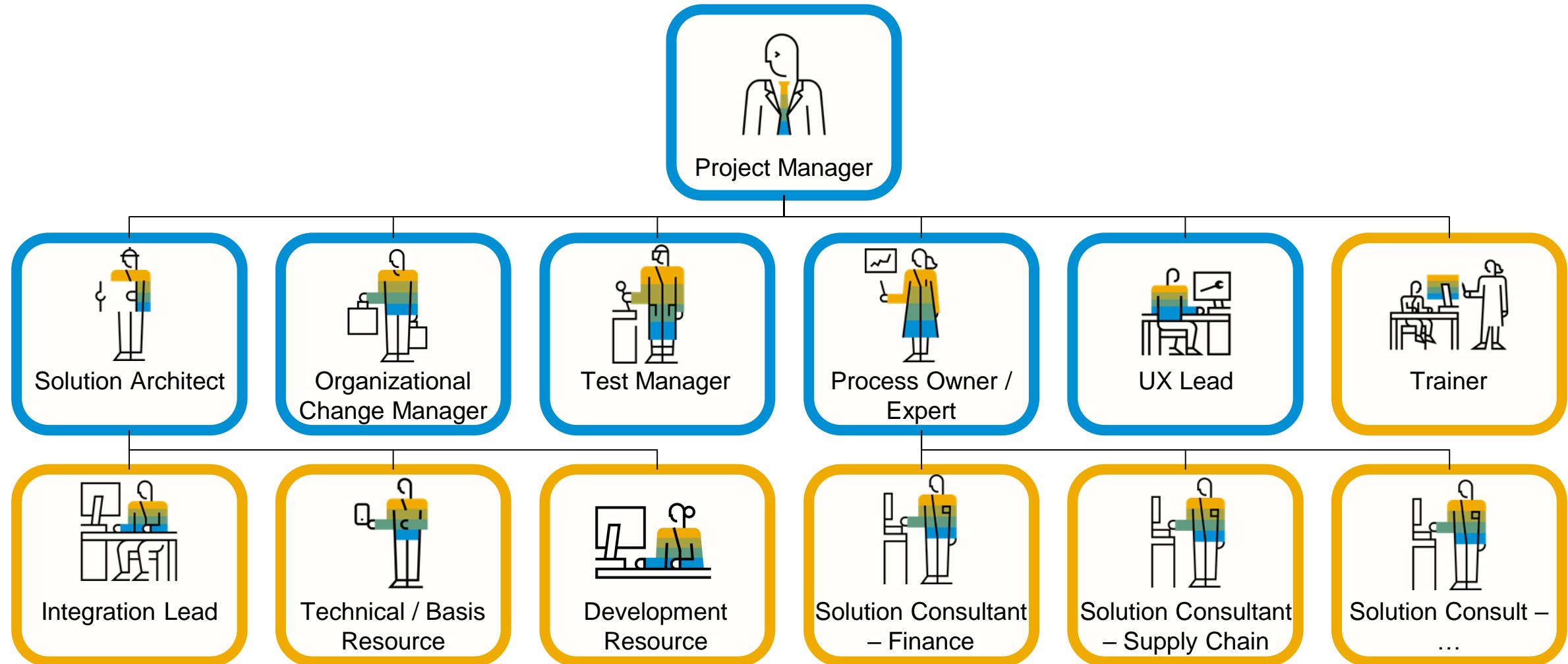


Week 1: Fundamentals and Technical Tooling

Unit 5: Project Roles and Skills for System Conversion – Part II

Project Roles and Skills for System Conversion – Part II

Project roles – Overview



Project Roles and Skills for System Conversion – Part II

Project role – Trainer

Mindset

- Break the mindset and existing habits of the project team members and help them to relearn

Challenges

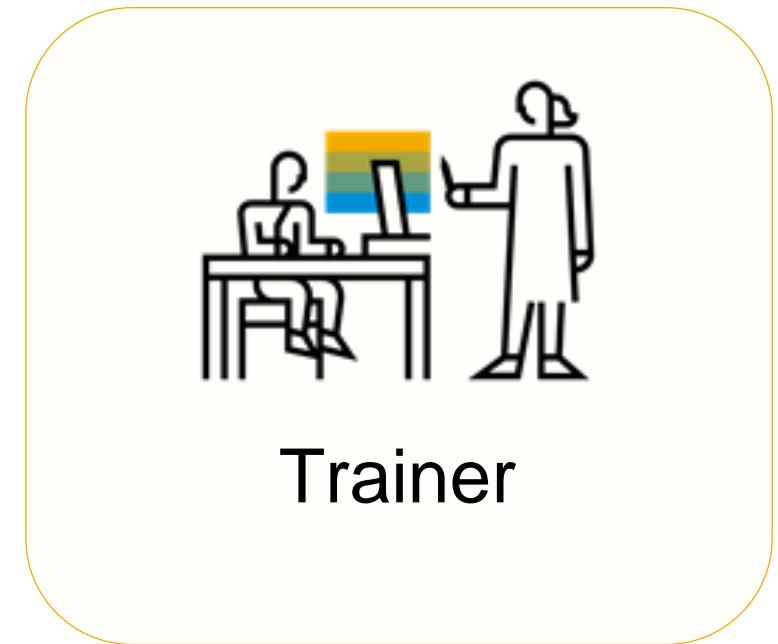
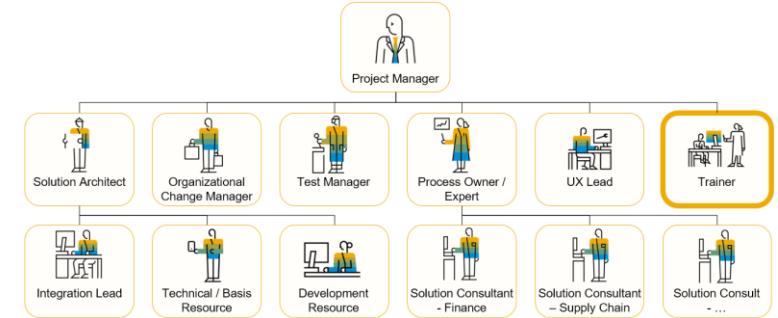
- Quickly build up knowledge around SAP S/4HANA

Responsibilities

- Define right training strategy for project objectives

Skills / Knowledge

- Understand standard training approach and how to address the need for soft skills around change management



Project Roles and Skills for System Conversion – Part II

Project role – Integration lead

Mindset

- Move to new industry integration technologies

Challenges

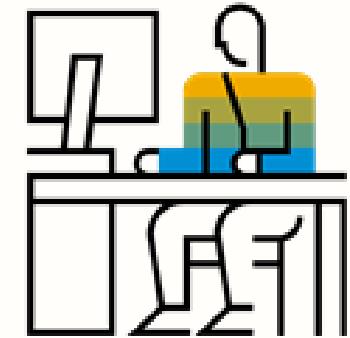
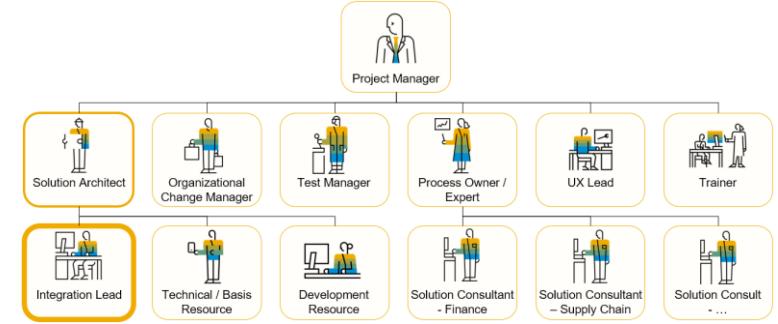
- Understand the transformation from the current as-is to the to-be landscape

Responsibilities

- Define change and test strategy

Skills / Knowledge

- Knowledge of new integration technologies and current landscape



Integration Lead

Project Roles and Skills for System Conversion – Part II

Project role – Technical / basis resource

Mindset

- This is not the same as an upgrade, and a new technical foundation needs to be defined

Challenges

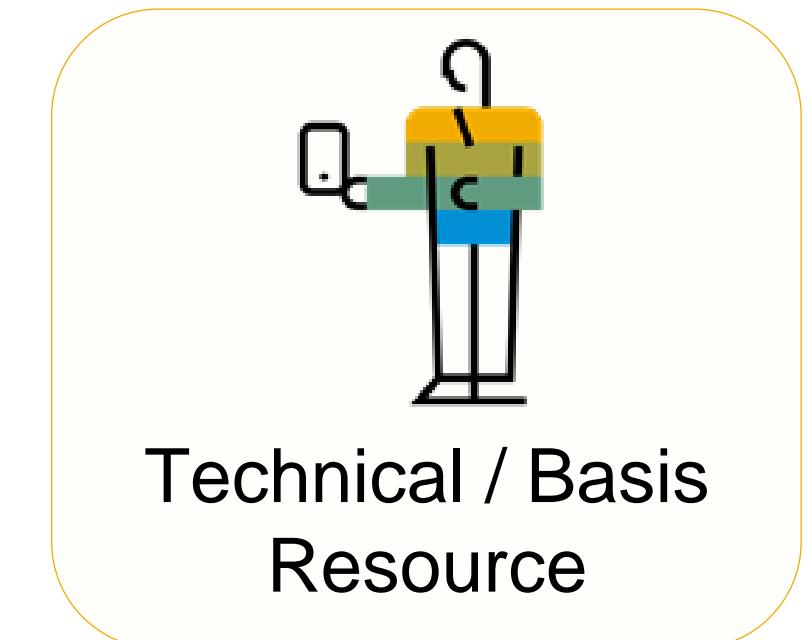
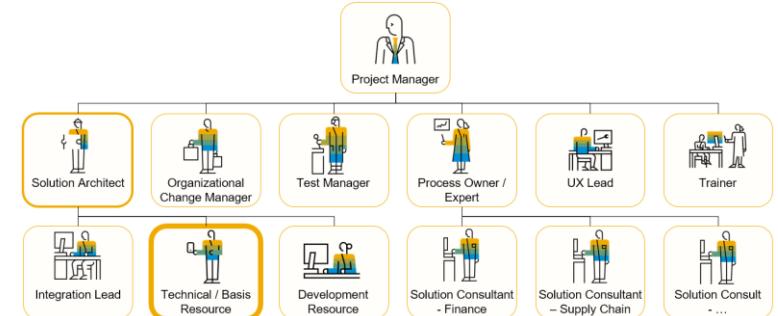
- Need to be familiar with all the technical components, including those for the new user interface (SAP Fiori)

Responsibilities

- Prepare the system for the conversion and upgrade all required parts in the SAP S/4HANA landscape

Skills / Knowledge

- Understand the new tools for an SAP S/4HANA implementation



Project Roles and Skills for System Conversion – Part II

Project role – Development resource

Mindset

- SAP S/4HANA is a new technical platform with a new development model

Challenges

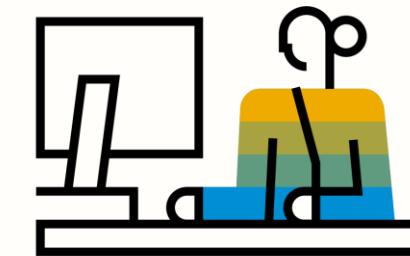
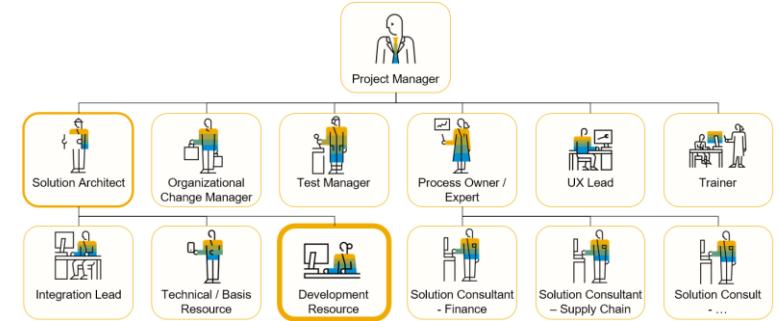
- Understand the importance of quick adoption and the new model (CDS views)

Responsibilities

- Adapt developments to the new technical platform

Skills / Knowledge

- Understand the new virtual data model (Core Data Services)



Development
Resource

Project Roles and Skills for System Conversion – Part II

Project role – Solution consultant – Finance

Mindset

- Finance has been redefined and some processes need to be adjusted

Challenges

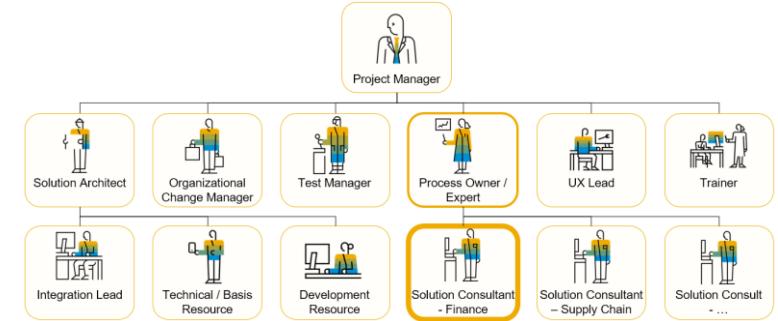
- Help people to understand the new world of finance and controlling

Responsibilities

- Align old practices with the new solution reality

Skills / Knowledge

- Good communication and ability to guide end users



Project Roles and Skills for System Conversion – Part II

Project role – Solution consultant – Supply chain

Mindset

- New processes have been defined and allowing existing processes to be simplified

Challenges

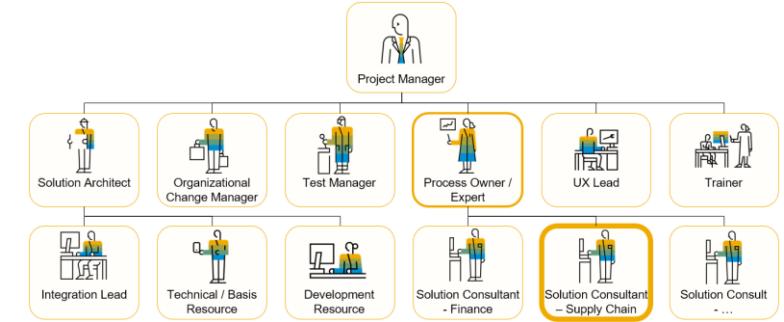
- Help people to get out of their comfort zone and start doing things differently

Responsibilities

- Align old practices with the new solution reality

Skills / Knowledge

- Good communication and ability to guide end users



Project Roles and Skills for System Conversion – Part II

Project roles – Solution consultant – ...

Mindset

- Business processes have been changed and existing processes may need to be changed

Challenges

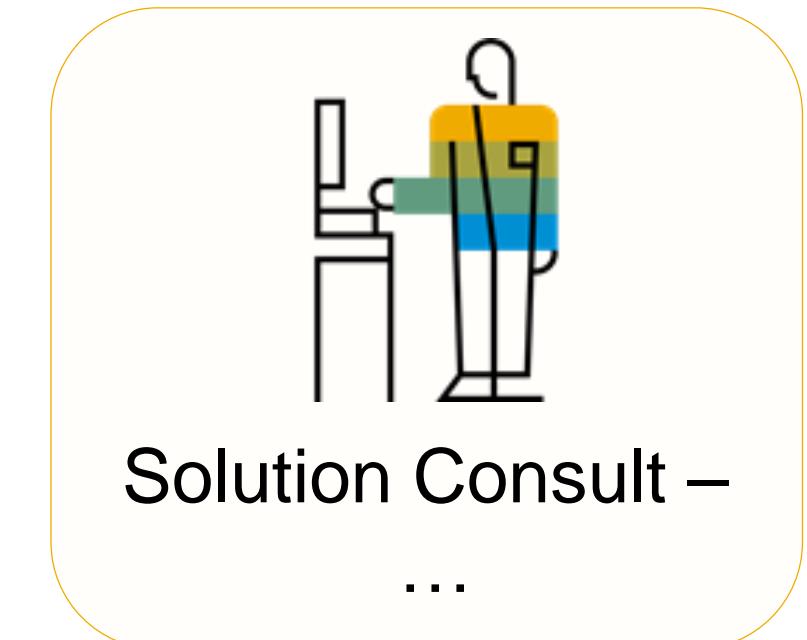
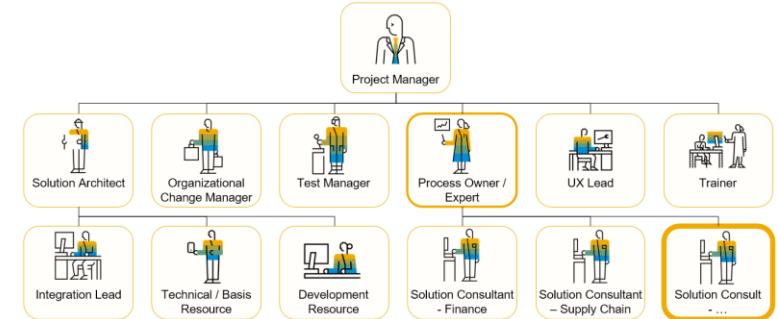
- Help people to get out of their comfort zone and start doing things differently

Responsibilities

- Align old practices with the new solution reality

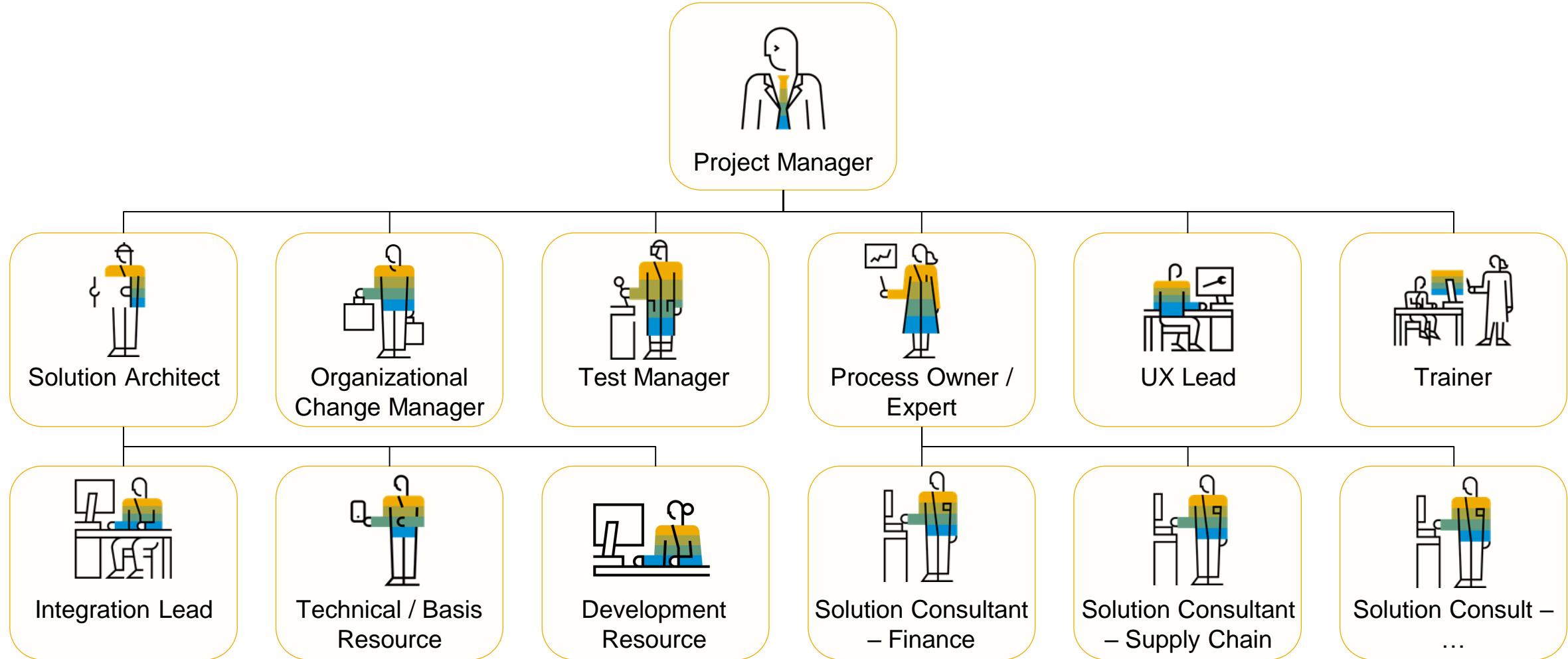
Skills / Knowledge

- Good communication and ability to guide end users



Project Roles and Skills for System Conversion – Part II

Project roles – Overview



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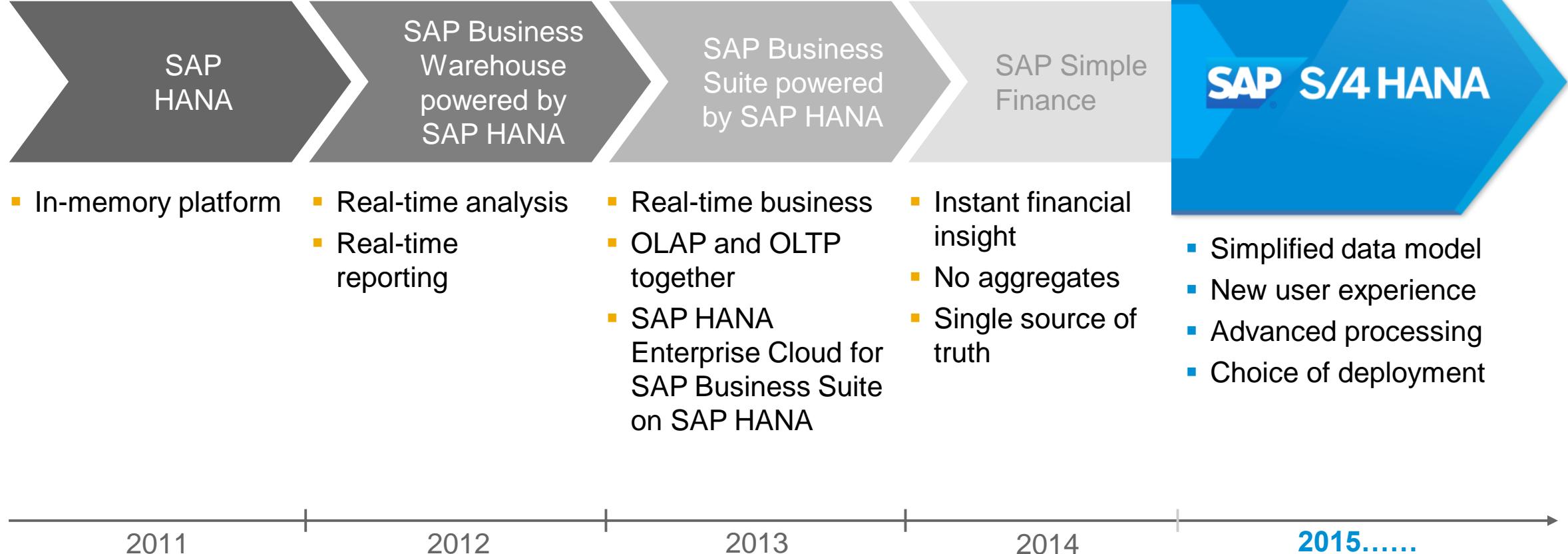


Week 1: Fundamentals and Technical Tooling

Unit 6: SAP S/4HANA Architecture and Components

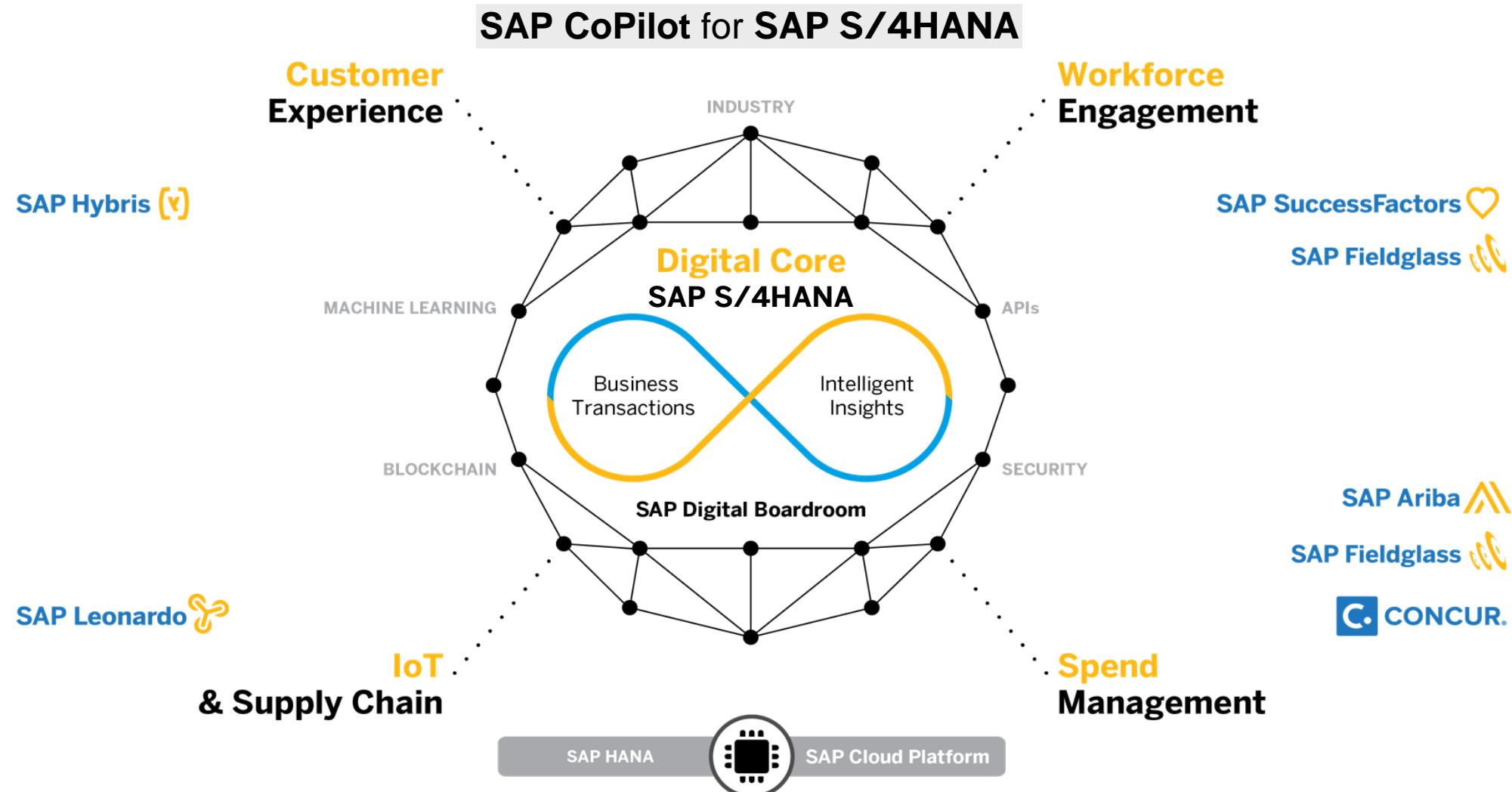
SAP S/4HANA Architecture and Components

SAP HANA, our great simplifier for enterprise applications



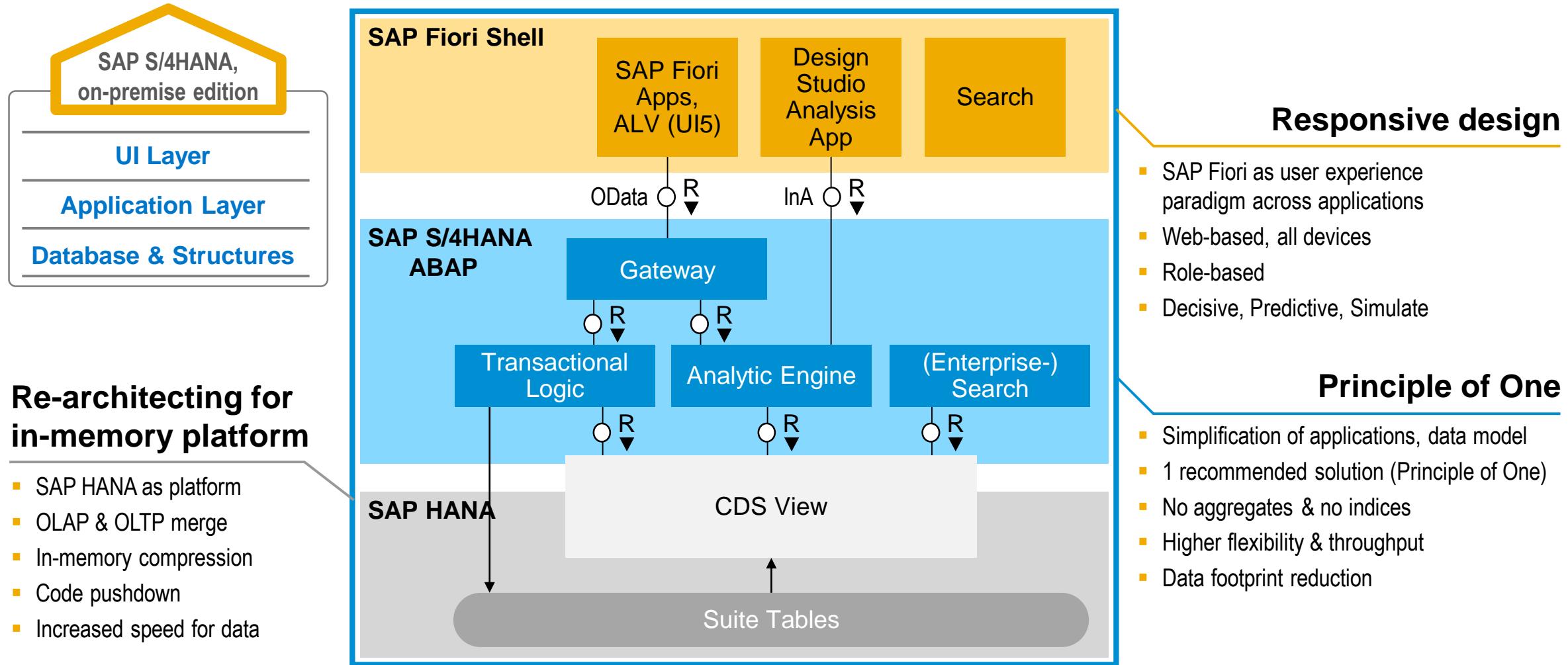
SAP S/4HANA Architecture and Components

SAP's digital business framework



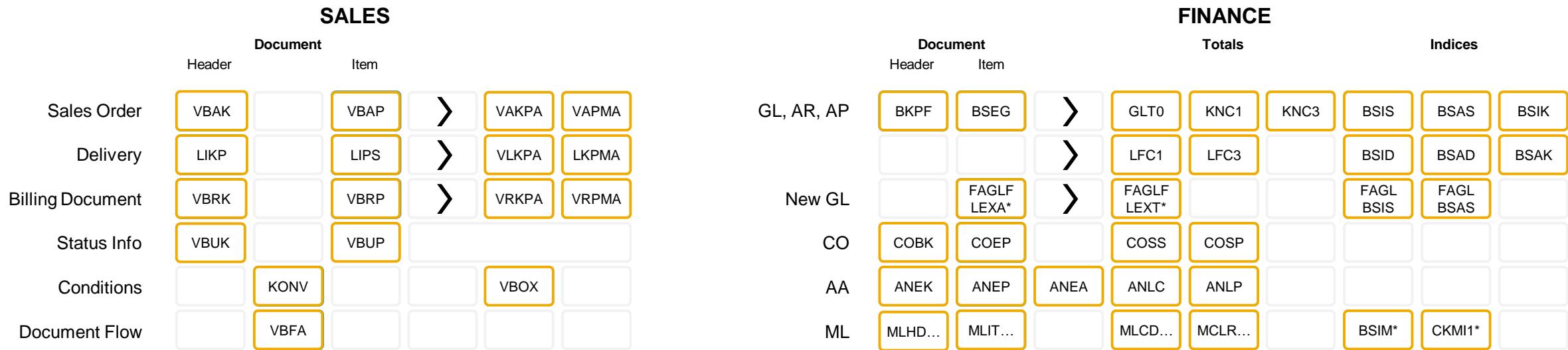
SAP S/4HANA Architecture and Components

High-level stack architecture



SAP S/4HANA Architecture and Components

Simplified data model



SAP Business Suite

MATERIAL VALUES

Valuation in MM or Valuation ML

Aggregates

Hybrid: Master Data with Valuated Stock

History

ML Valuation

MATERIAL QUANTITIES

Aggregates

Stock Aggregates

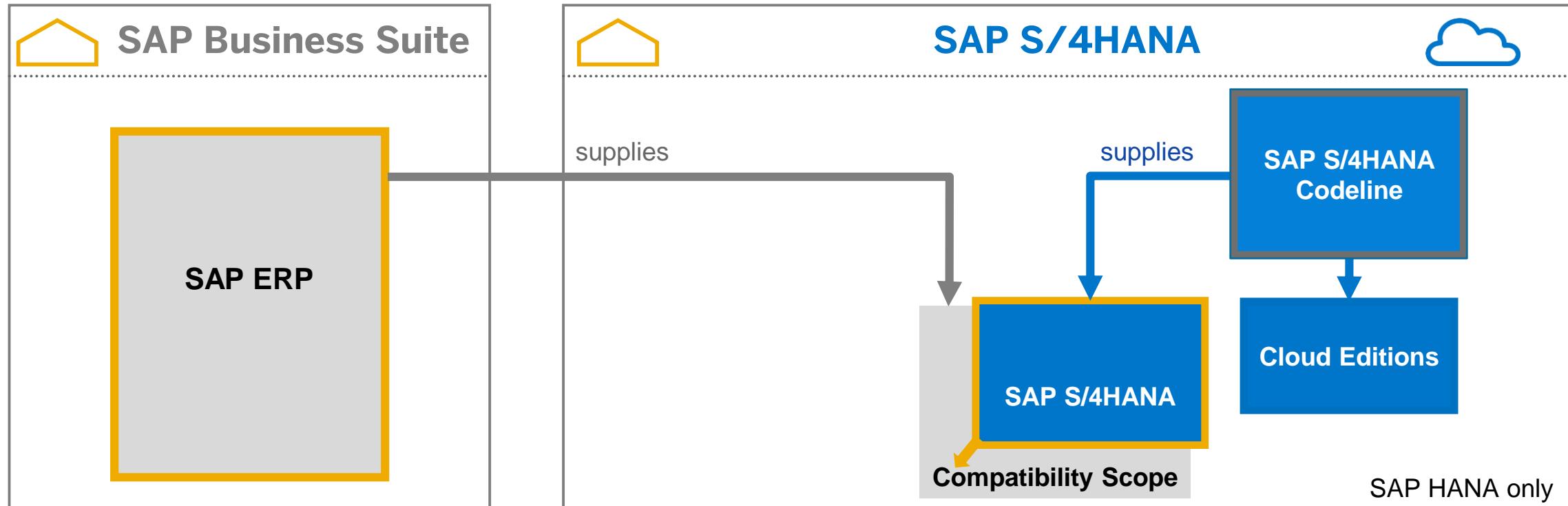
History

Hybrid: Master Data with Stock Aggregates

SAP S/4HANA Architecture and Components

Difference between SAP ERP and SAP S/4HANA

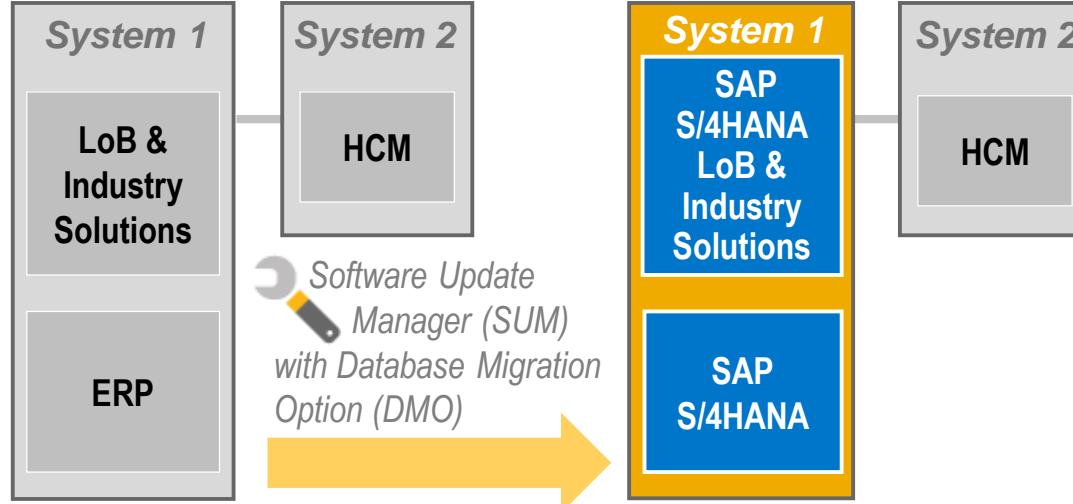
Learn New SAP System Architecture



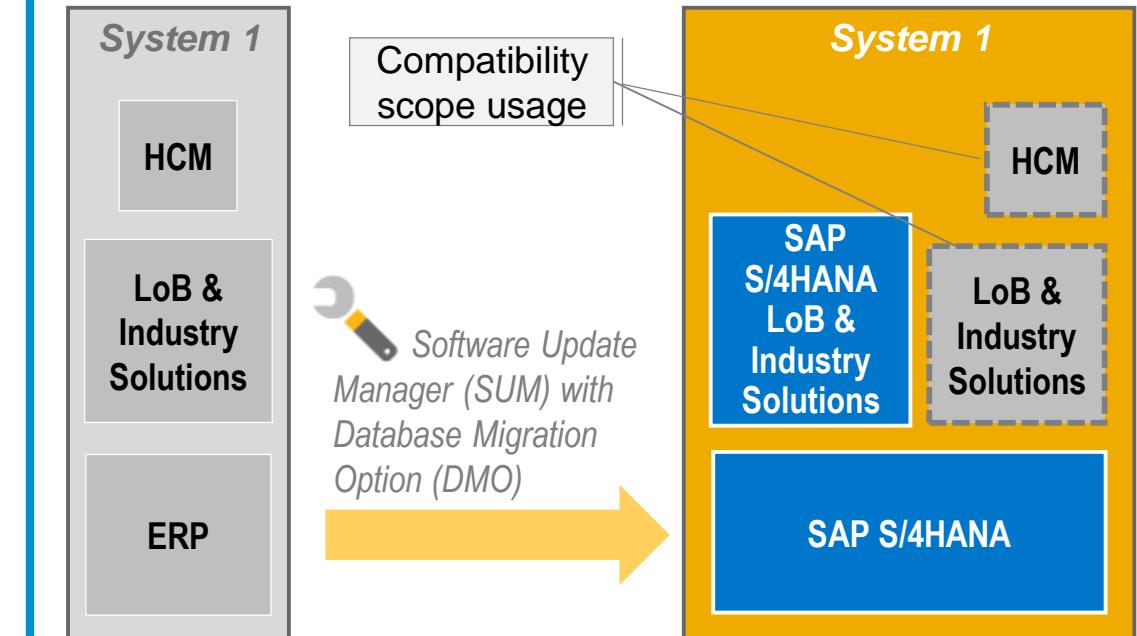
SAP S/4HANA Architecture and Components

A bridge for system conversion via compatibility pack

Side-By-Side ***does not*** require compatibility pack



Embedded installation ***does*** require compatibility pack



FAQs on Compatibility Packs for SAP S/4HANA:

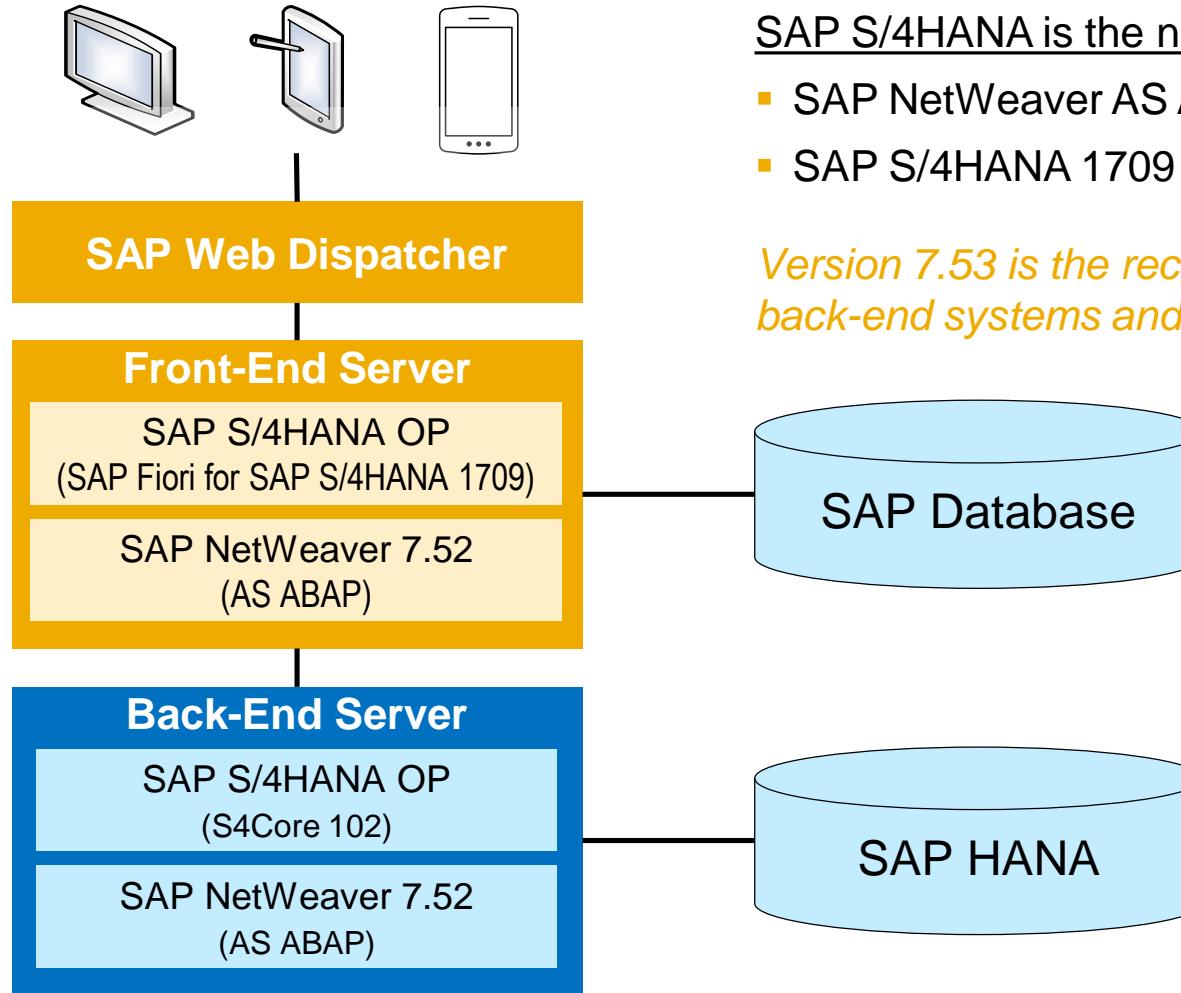
[Link](#)

SAP S/4HANA Compatibility Scope Matrix:

[Link](#)

SAP S/4HANA Architecture and Components

SAP S/4HANA 1709 components – Example of central hub deployment



SAP S/4HANA is the next generation Business Suite and a new product consisting of:

- SAP NetWeaver AS ABAP for SAP S/4HANA 7.52 (new SAP Fiori front-end server)
- SAP S/4HANA 1709 ABAP

Version 7.53 is the recommended SAP Web Dispatcher for SAP S/4HANA 1709 back-end systems and SAP NetWeaver 7.52-based back-end systems.

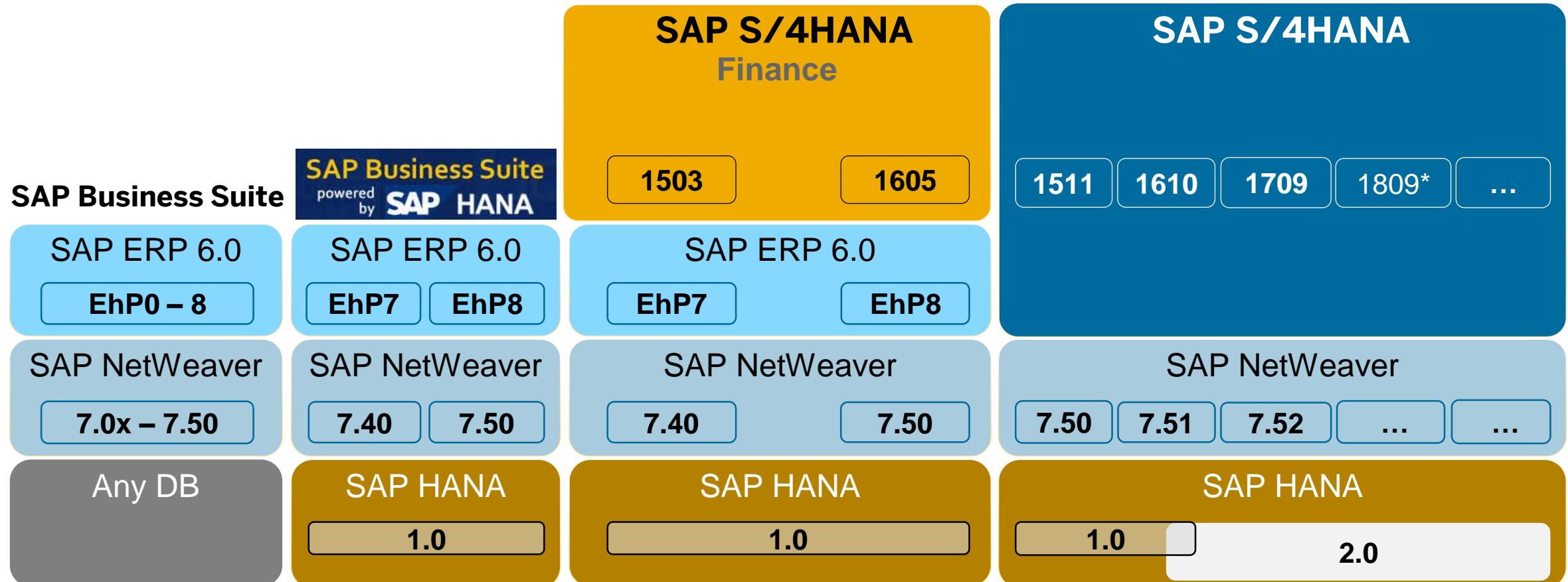
Supported database systems for front-end server

- SAP HANA
- SAP MaxDB
- SAP/Sybase ASE

The underlying database for the ABAP back-end server must be SAP HANA (product version SAP HANA 2.0)

SAP S/4HANA Architecture and Components

SAP S/4HANA components



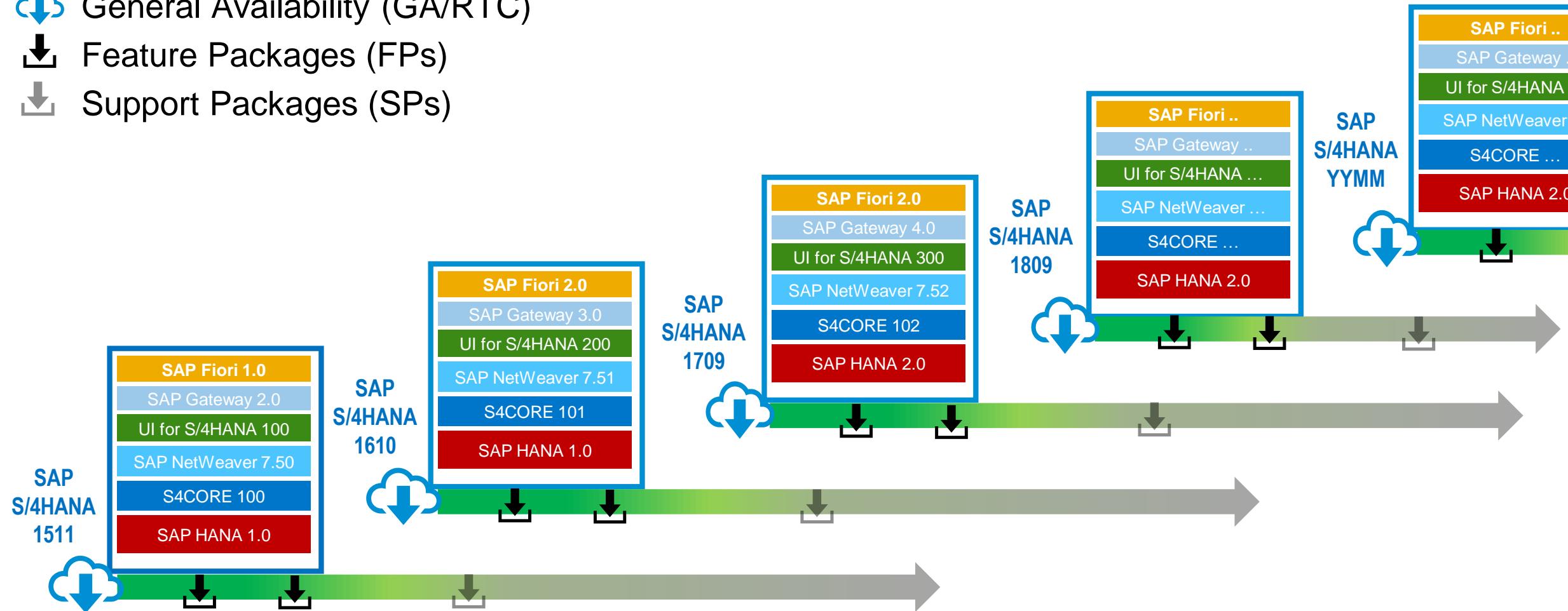
<--- [2420699 – Release of SAP HANA Database 2.0 for older SAP Versions](#) ---

*planned

SAP S/4HANA Architecture and Components

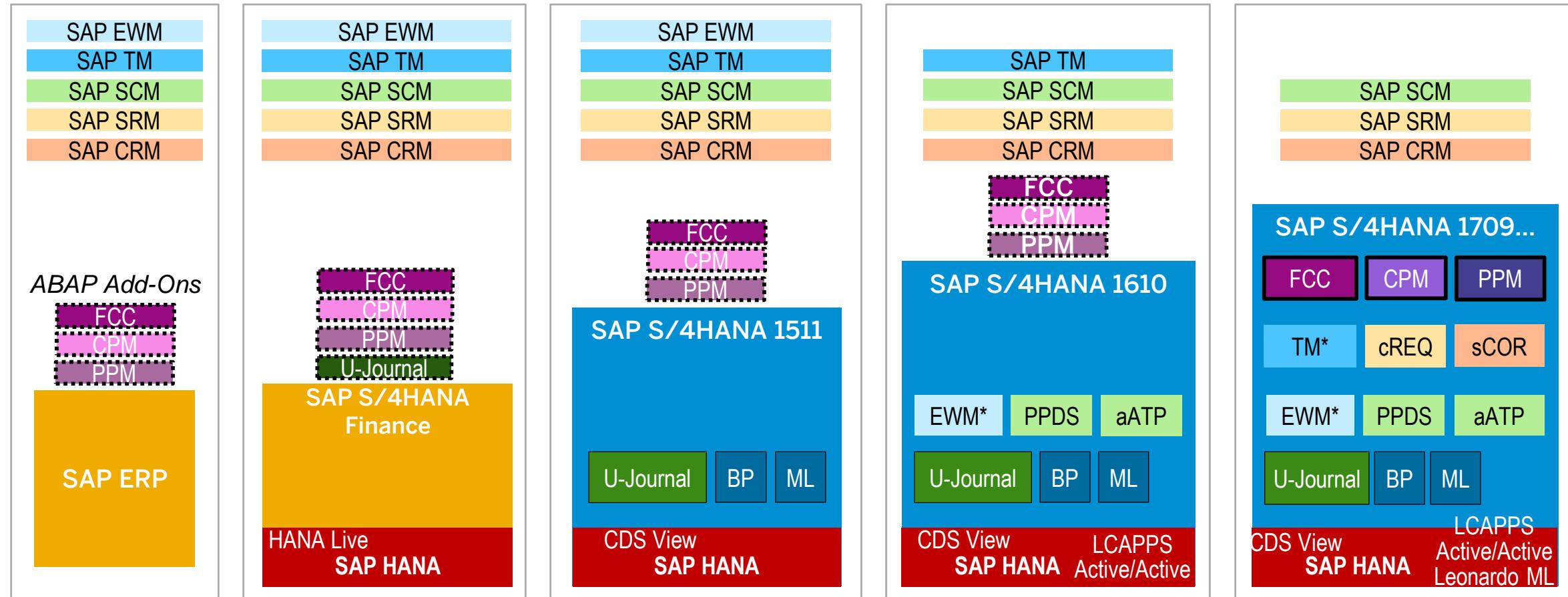
Release strategy and components

- ⬇ General Availability (GA/RTC)
- ⬇ Feature Packages (FPs)
- ⬇ Support Packages (SPs)



SAP S/4HANA Architecture and Components

Evolution of SAP S/4HANA – Example only



FCC – Financial Closing Cockpit

CPM – Commercial Project Management

PPM – Portfolio and Project Management

U-Journal – Universal Journal

BP – Business Partner

ML – Material Ledger

cREQ – Central Requisitioning

sCOR – Service Core

* - options to use embedded or standalone

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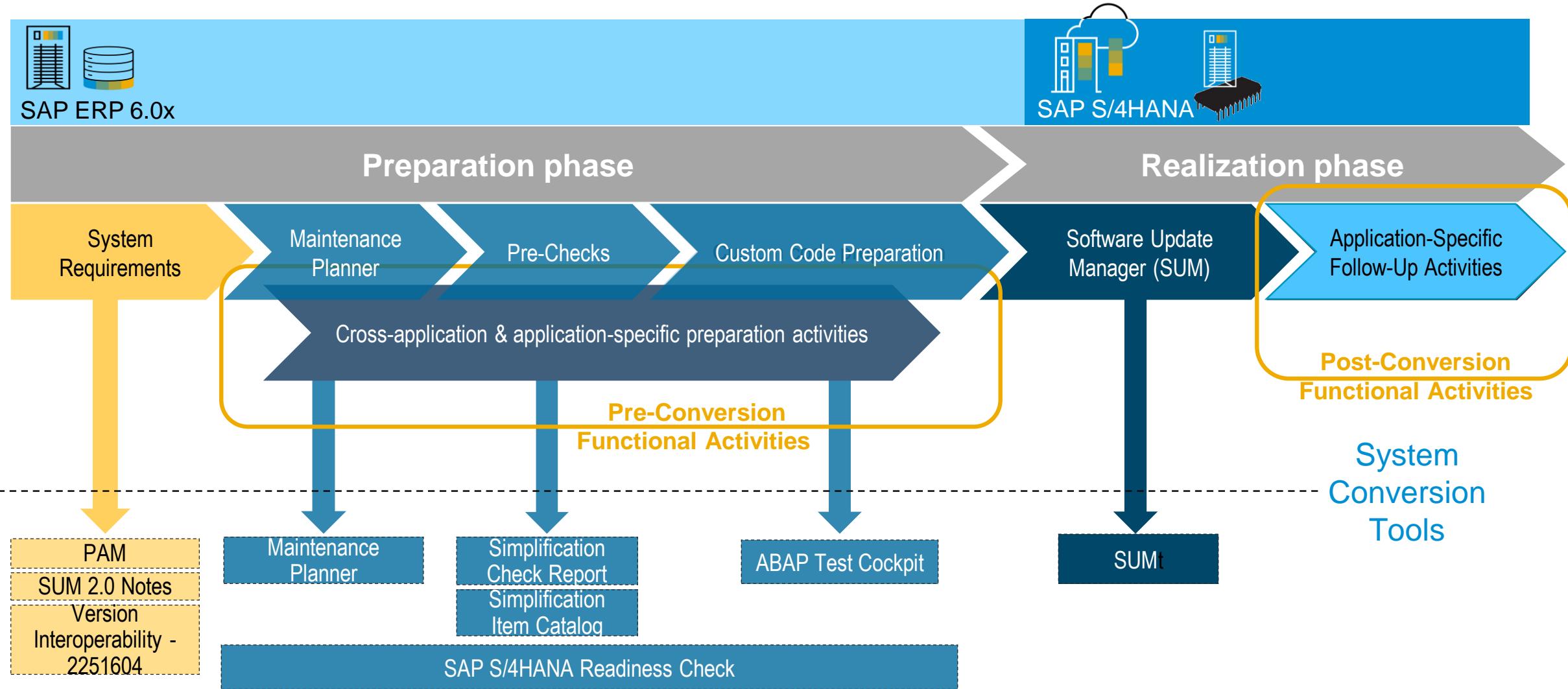


Week 1: Fundamentals and Technical Tooling

Unit 7: SAP S/4HANA Technical Tooling for System Conversion

SAP S/4HANA Technical Tooling for System Conversion

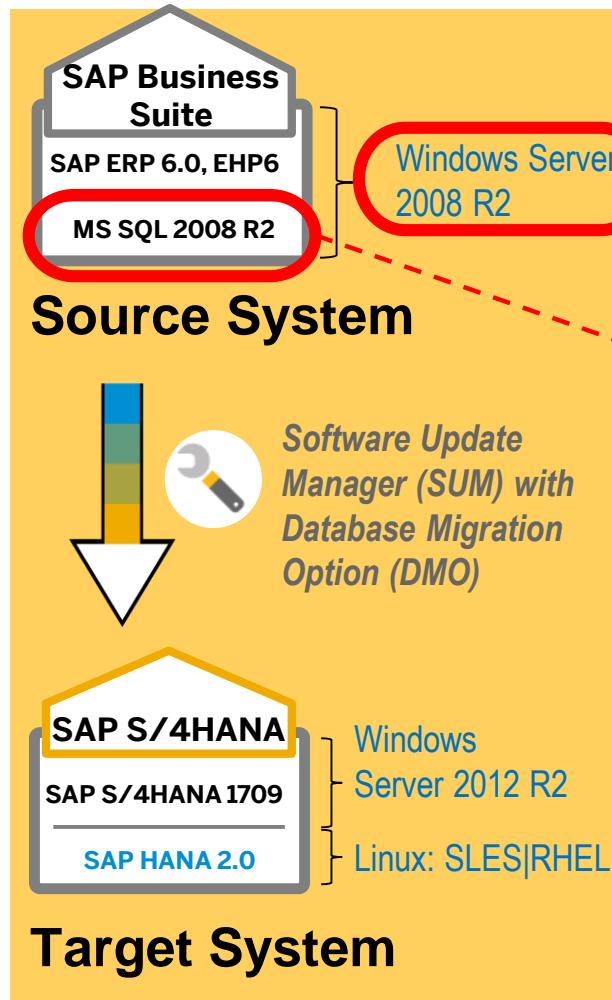
Overview of conversion steps



SAP S/4HANA Technical Tooling for System Conversion

Example on using DMO of SUM and PAM

System Requirements



[2532577 – Database Migration Option \(DMO\) of SUM 2.0 SP01](#)

I) Target Database SAP HANA

- Required SAP HANA revision is 90 or higher.

Requirements depending on the source database:

Source database	Requirements/Restriction
1. Oracle	<ul style="list-style-type: none">Oracle version 11.2 or higher if target SAP_BASIS is 750Oracle version 12 or higher if target SAP_BASIS is 751 or higher
2. MaxDB	<ul style="list-style-type: none">MaxDB 7.9.08.32 or higher
3. MS SQL	<ul style="list-style-type: none">MS SQL 2005 (available on request), or a higher version, if target SAP_BASIS is 750MS SQL 2012 or higher if target SAP_BASIS is 751 or higherSource SAP release must base on SAP_BASIS 700 or higher



Separate pre-requisite project is required for Windows OS and SQL Server DB upgrades before system conversion project

The screenshot shows the SAP S/4HANA 1709 software interface. In the center, there is a list of supported operating systems for the SAP S/4HANA Server. The "WINDOWS SERVER 2016 LTSB 64BIT" entry is highlighted with a red box. To the right, there is a table listing supported operating systems with their respective valid from dates and additional information links.

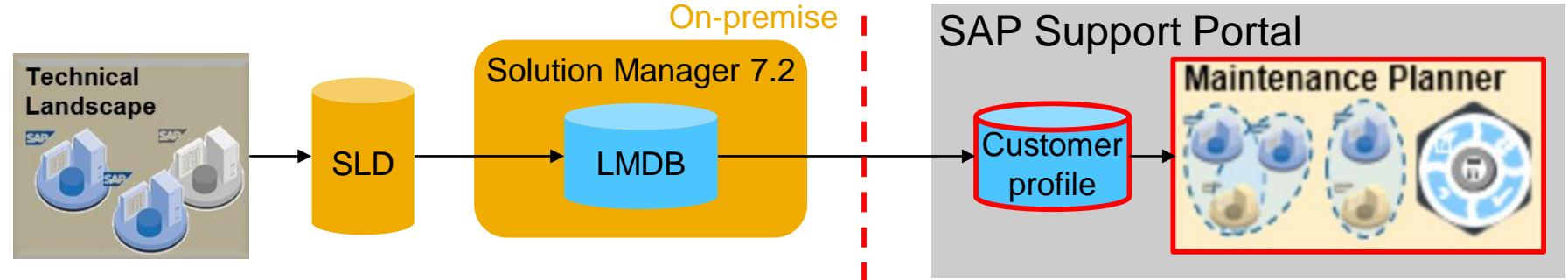
Operating System	Valid from	Additonal Information
WINDOWS SERVER 2016 LTSB 64BIT	15.09.2017	Display (3)
WINDOWS SERVER 2012/X64 64BIT	15.09.2017	Display (3)
WINDOWS SRV 2012 R2/X64 64BIT	15.09.2017	Display (3)

SAP S/4HANA Technical Tooling for System Conversion

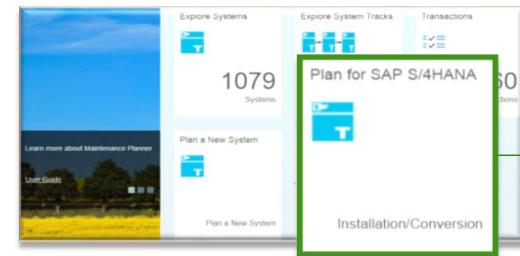
Set up and run maintenance planner

Maintenance Planner

1. Set Up

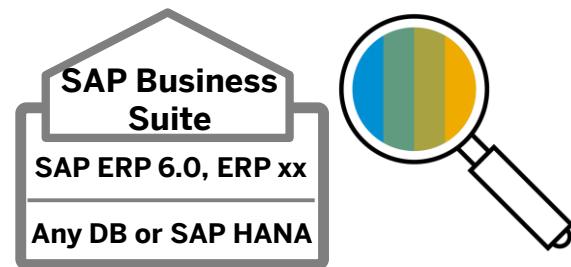


2. Run



- A. Conversion Planning for ERP Only
- B. Conversion Planning for ERP + Co-deploy Fiori
- C. Conversion Planning for ERP + existing Fiori
- D. Conversion Planning for ERP + new Fiori

3. Analyze



Check technical feasibility of your system for conversion project:

- Add-ons analysis
- Business function analysis
- Industry solution analysis
- Dependent Java system analysis

SAP S/4HANA Technical Tooling for System Conversion

Run program /SDF/RC_START_CHECK

Pre-Checks

Call transaction SE38/SA38 for program /SDF/RC_START_CHECK

SAP Readiness Check for SAP S/4HANA - Simplification Item Check

Help

Simplification Item Check Options

Target SAP S/4HANA Version 73554900103300003158 SAP S/4HANA 1709 [01 (01/2018) FP]

New Check in On-line Mode
 New Check as a Background Job
 Display Last Check Result
 Display Application Log

■ Latest version 88 of note 2399707 is implemented.
■ Latest version 35 of note 2502552 is implemented.

Simplification Item Catalog Source

■ Latest Version Through Auto-update [03.04.2018 23:29:11 UTC]
 Local Version Uploaded Manually [07.03.2018 22:22:27 UTC]

■ Switch Source

■ Upload Simplification Item Catalog
■ Download Local Simplification Item Catalog
■ Download Latest Simplification Item Catalog

The minimum versions are:

- SAP S/4HANA 1709 Initial Shipment
 - 2399707: version 30
 - 2502552: version 1
- SAP S/4HANA 1709 Feature Package 1
 - 2399707: version 82
 - 2502552: version 29
- SAP S/4HANA 1709 Feature Package 2
 - 2399707: version 89
 - 2502552: version 38

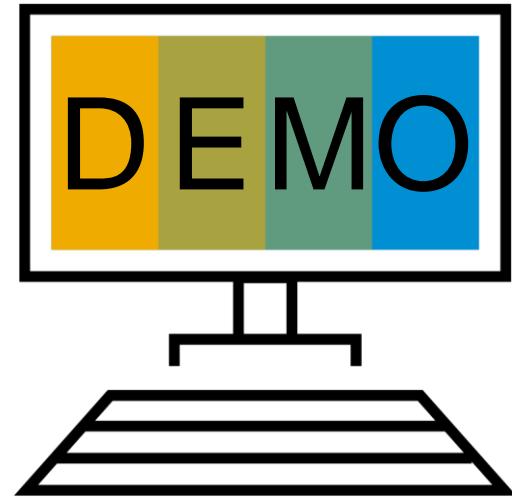
Tips:

- Ensure you are selecting the correct target SAP S/4HANA version
- SUM executes the report in client 000. If possible, run in client 000 in the background to ensure you simulate SUM
- SAP Notes 2399707 and 2502552 are updated periodically. Once you are past the DEV system conversion, freeze the version
- You should also freeze the check content of the Simplification Item Catalog once you are past the DEV system conversion

SAP S/4HANA Technical Tooling for System Conversion

Demo SI-CHECK

Pre-
Checks



1. Run SI-CHECK report

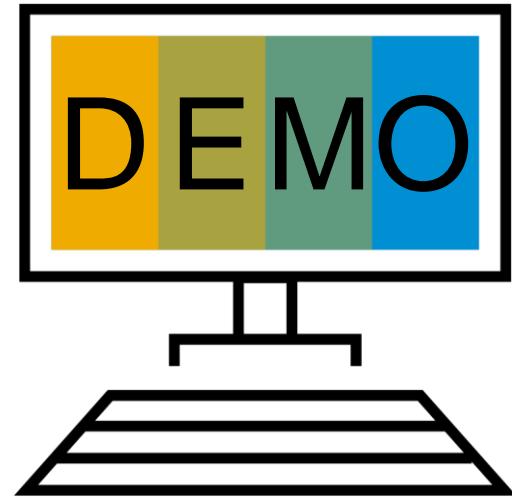


Run SI-Check.mp4

SAP S/4HANA Technical Tooling for System Conversion

Demo SI-CHECK

Pre-
Checks



1. View SI-CHECK results

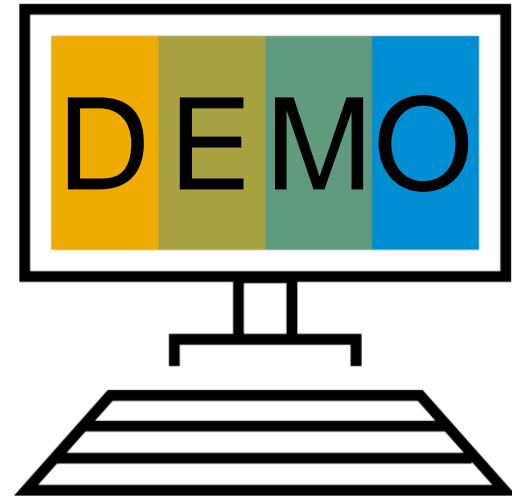


SI-Check Results.mp4

SAP S/4HANA Technical Tooling for System Conversion

Demo SI-CHECK

Pre-
Checks



1. View detail log
2. Rerun single item
3. Set exemption



[View Detail SI-Check Results.mp4](#)

SAP S/4HANA Technical Tooling for System Conversion

SAP S/4HANA readiness check

Maintenance
Planner

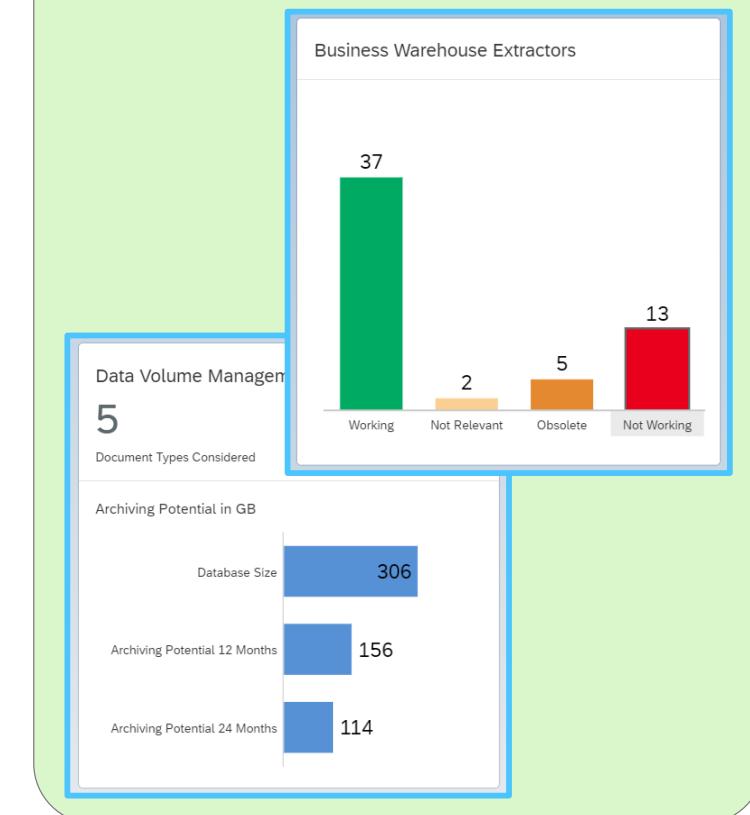
Pre-
Checks

Custom Code
Preparation

Available since Q2 2017



Additions to SAP S/4HANA Readiness Check



SAP S/4HANA Technical Tooling for System Conversion

SUM prerequisite check – Provided with SUM 2.0

Software Update Manager (SUM)

Allows quick and non-invasive check for requirements, e.g.:

- Source OS version
- Source database version
- SPAM patch level

Uses different URL
(*chktool* instead of *sumabap*)

The image shows two side-by-side screenshots of the SAP Software Update Manager 2.0 SP1 (PL1) interface. Both screenshots are titled "Prerequisite Checks".

Left Screenshot (Process in progress): Shows a progress bar at 73% completion. The status message says "Process is in running state" and "Current Phase: CHKTOOL/NTACT_CHK_CHKTL". Below the progress bar is a blue square icon with a grid pattern labeled "Process execution in progress".

Right Screenshot (Procedure finished): Shows a progress bar at 100% completion. The status message says "Process is in finished state" and "SUM ABAP process started". Below the progress bar is a blue square icon with a grid pattern labeled "Procedure finished". A message at the bottom states "***** * YOUR PROCEDURE IS COMPLETE * *****".

Bottom Content (Yellow Box):

```
== Type: info == Source: CHKTOOL/CONFCHK_IMP_CHKTL == Title: Operating System and Database Version Check ==

INFO: A higher version of the operating system is not required. If you plan to upgrade the operating system, do not upgrade it while the S/4HANA conversion of the SAP system is running. If there are any exceptions, you can find them in the operating-system-specific SAP Notes for this S/4HANA conversion.

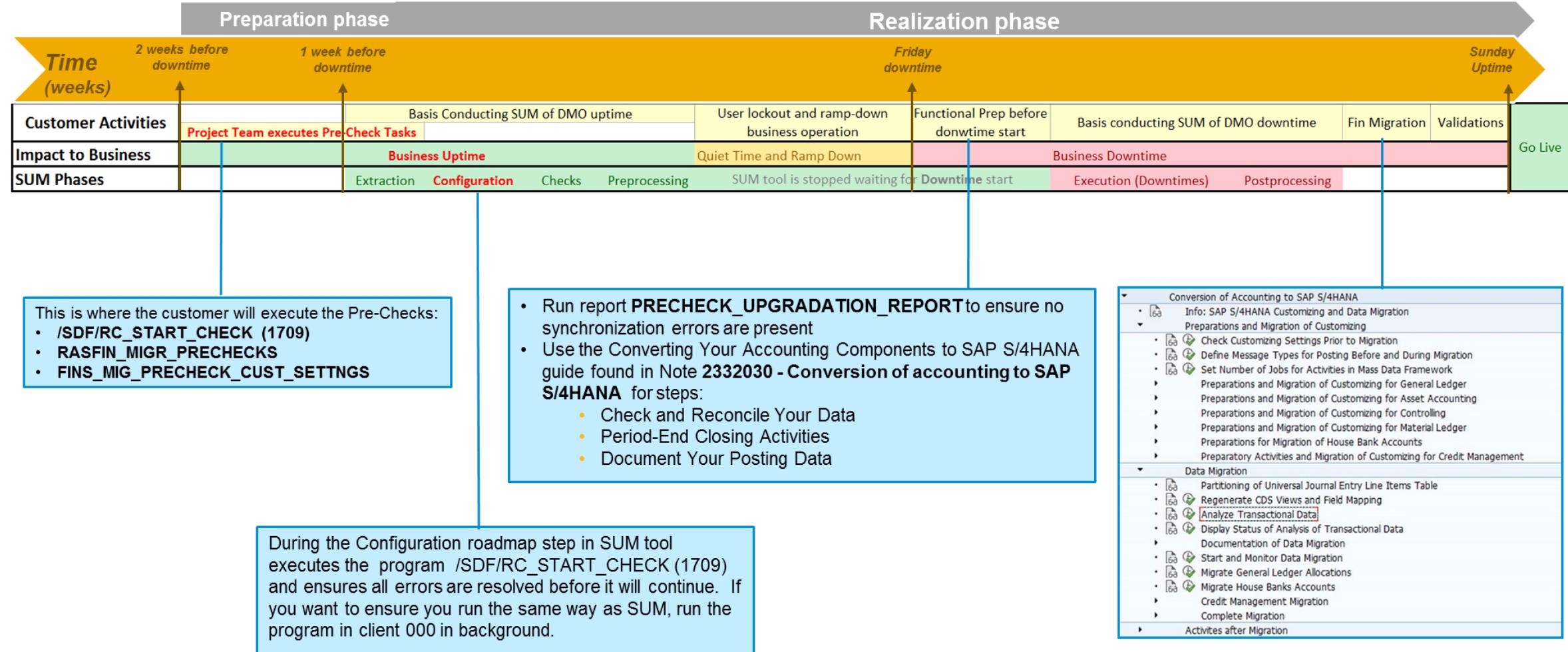
INFO: A higher version of the database system is not required. If you plan to upgrade the database system, do not upgrade it while the S/4HANA conversion of the SAP system is running. If there are any exceptions, you can find them in the database-specific SAP Notes for this S/4HANA conversion.

*INFO:* Please note that this check may be preliminary since the tool has not yet collected enough information about the target. So the requested version might eventually be higher.

Determined system information:
Type of operating system: Windows NT X86_64
Version of operating system: 6.3
Type of database: MSSQL
Version of database: 11.00.2100.60
```

SAP S/4HANA Technical Tooling for System Conversion

Example of conversion cutover sequencing



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