

# Rapid database migration of SAP BW to SAP HANA

V4.10

Customer



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# At-a-Glance: Rapid database migration of SAP BW to SAP HANA

Ready to run, a solution with fixed scope, predefined services at a predictable price with the flexibility for future extension.

Business Requirement	Solution
<p><b>What is my pain?</b></p> <ul style="list-style-type: none"><li>• The lack of reporting performance as well as high data latency</li><li>• Complex IT landscapes and high IT workload</li><li>• Changes in the BW environment that result in disruption of the BW application</li><li>• Insufficient planning and security regarding effort and timeline for a database migration</li><li>• Having no certified resources to conduct technical database migration</li><li>• Having no end-to-end solution based on individual customer needs</li></ul>	<p><b>Solution description</b></p> <ul style="list-style-type: none"><li>• The rapid database migration of SAP BW to SAP HANA enables customers to replace the underlying relational database of their SAP BW system with SAP HANA</li></ul>
<p><b>What are my needs?</b></p> <ul style="list-style-type: none"><li>• Deliver superior reporting performance &amp; have real-time data access</li><li>• Simulate more and plan faster</li><li>• Ensure superior loading performance</li><li>• Provide simplified maintenance</li><li>• Ensure flexibility with modeling</li><li>• Migrate without reimplementation and without disruption of existing scenario</li><li>• Work with simplified process due to streamlining of steps</li><li>• Ensure secured planning due to fixed price and timeline for migration</li><li>• Work with an end-to-end solution based on individual customer needs</li></ul>	<p><b>In scope</b></p> <ul style="list-style-type: none"><li>• Project setup and reporting</li><li>• Kick off workshop</li><li>• Prerequisites check</li><li>• Technical Upgrade to the latest version: SAP BW 7.40 (latest SP level)</li><li>• Migration to the SAP HANA database by heterogeneous system copy:<ul style="list-style-type: none"><li>• One test migration – on copy of the PRD BW system (Optional: second test migration)</li><li>• Migration of DEV and PRD system (Optional: migration of additional system(s))</li></ul></li><li>• Follow-up activities after migration</li><li>• Support for going live</li></ul>

[Learn more](#)

 Supercharge SAP BW with SAP HANA





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# Supercharge SAP BW with SAP HANA

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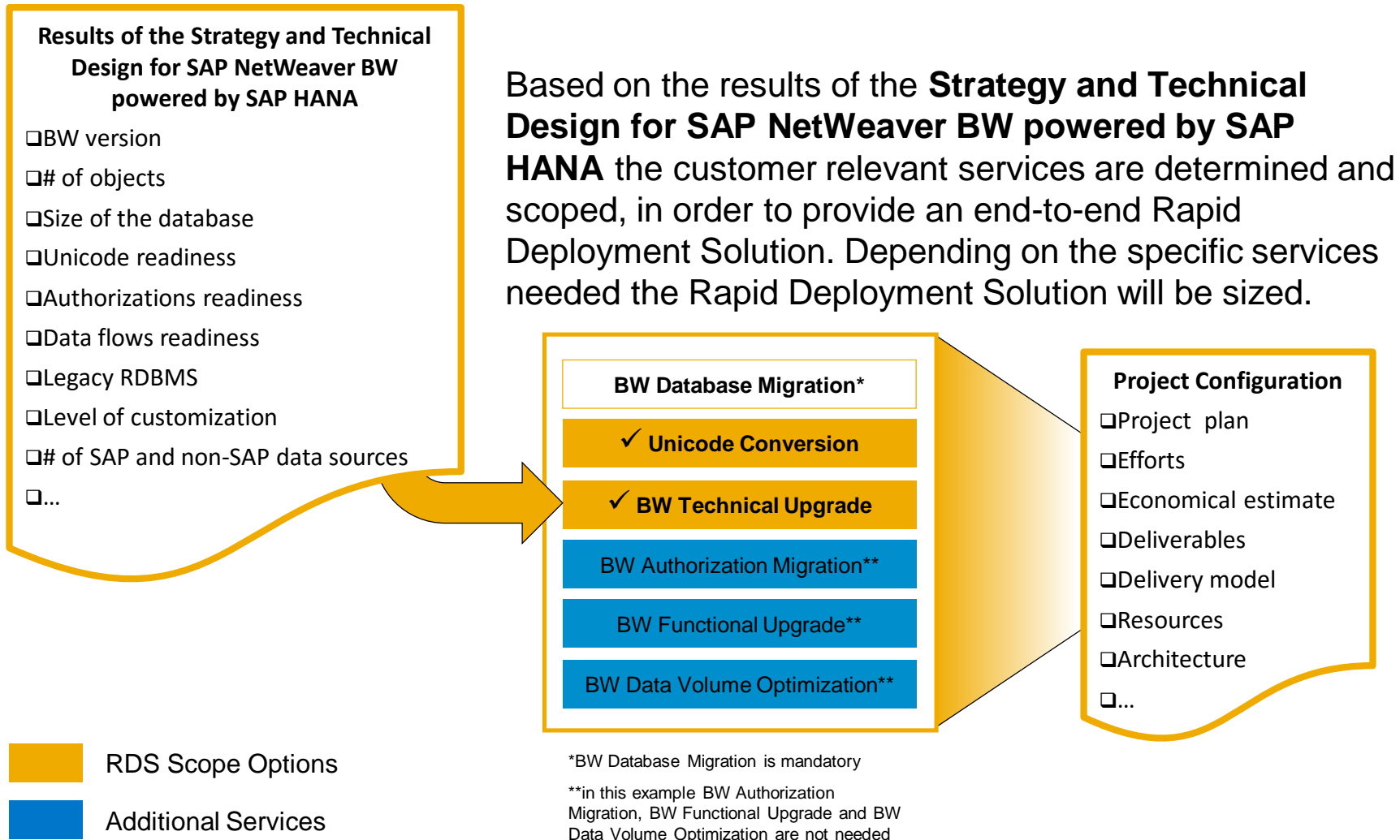
## Business challenges

- The lack of reporting performance as well as high data latency
- Complex IT landscapes and high IT workload
- Changes in the BW environment that result in disruption of the BW application
- Insufficient planning and security regarding effort and timeline for a database migration
- Having no certified resources to conduct technical database migration
- Having no end-to-end solution based on individual customer needs

## There is a solution

- The rapid database migration of SAP BW to SAP HANA enables customers to replace the underlying relational database of their SAP BW system with SAP HANA

# Scope covered



# Benefits for you

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## Business benefits

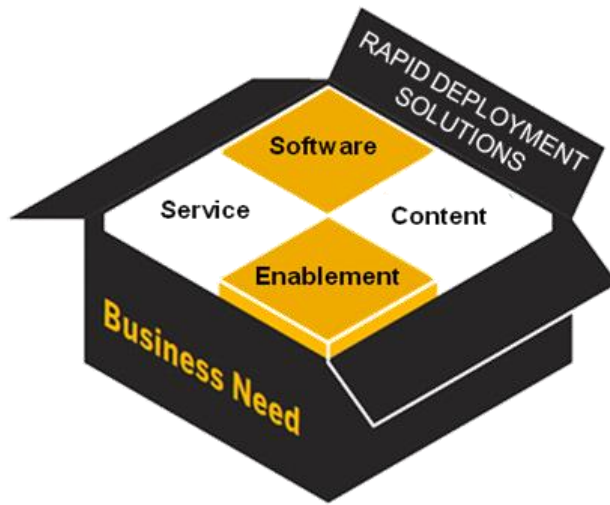
- Deliver superior Reporting Performance
- Have real-time data access
- Simulate more and Plan Faster!
- Ensure superior Loading Performance
- Provide simplified Maintenance
- Ensure flexibility with modeling
- Migrate without reimplementation and without disruption of existing scenario
- Work with simplified process due to streamlining of steps
- Ensure secured planning due to fixed price and timeline for migration
- Work with an end-to-end solution based on individual customer needs

## Measurable success

- Implementation costs
- Implementation time

# What is a Rapid-Deployment Solution?

## SAP Rapid Deployment solutions



**Solution deployed in weeks**

### *Fast*

- **Quickly address specific needs**
- **Fast time-to-value** with seamless rapid deployment tools, embedded best practices
- **Delivered by SAP or Partner**

### *Simple*

- **Clearly priced services** and project timeframes – ensures a predictable outcome
- **Modular, yet integrated** solutions – ensures long-term landscape integrity
- **Support across all environments** (on premise, mobile and cloud) - leveraging the cloud to accelerate projects and deployment





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# Rapid database migration of SAP NetWeaver BW to SAP HANA:

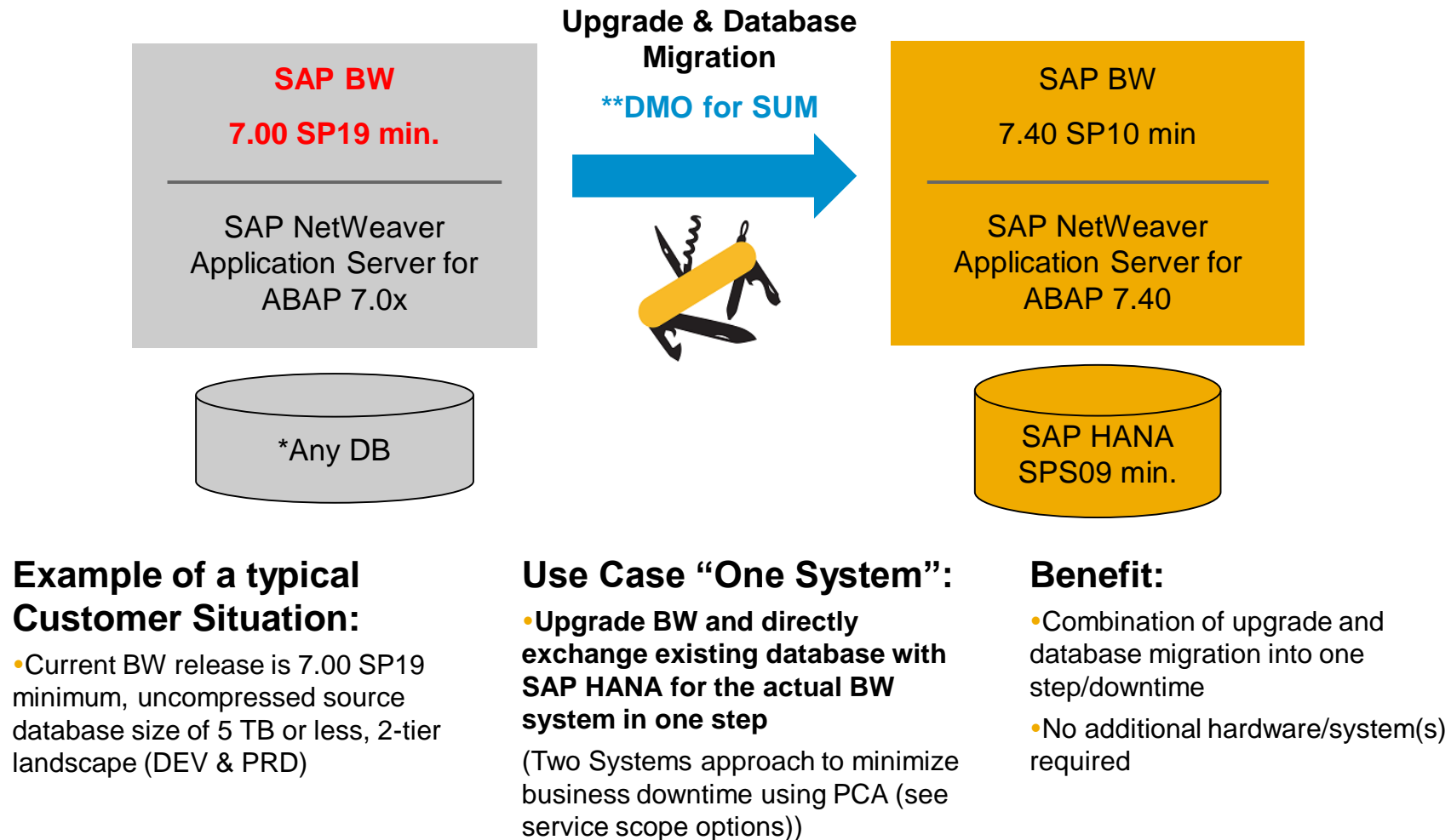
## Scope and benefits

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The rapid database migration of SAP BW to SAP HANA enables customers to replace the actual underlying relational database of their SAP BW system with SAP HANA as a database. This rapid deployment solution supports the migration of an existing SAP Business Warehouse installation to the SAP HANA database system without disruption of the existing Business Warehouse content and it provides an end-to-end solution to meet all necessary prerequisites. This new implementation approach provided with SAP's rapid deployment solutions which leverage out-of-the-box accelerators and predefined scope to help accelerate your adoption of SAP HANA to supercharge your SAP BW. The simplified process eliminates any migration guesswork and uncertainties regarding realization timeline, due to automation of steps as well as planning security due to standardization of the approach.

- Deliver superior reporting performance
- Have real-time data access
- Simulate more and plan faster
- Ensure superior loading performance
- Provide simplified maintenance
- Ensure flexibility with modeling
- Migrate without reimplementation and without disruption of existing scenario
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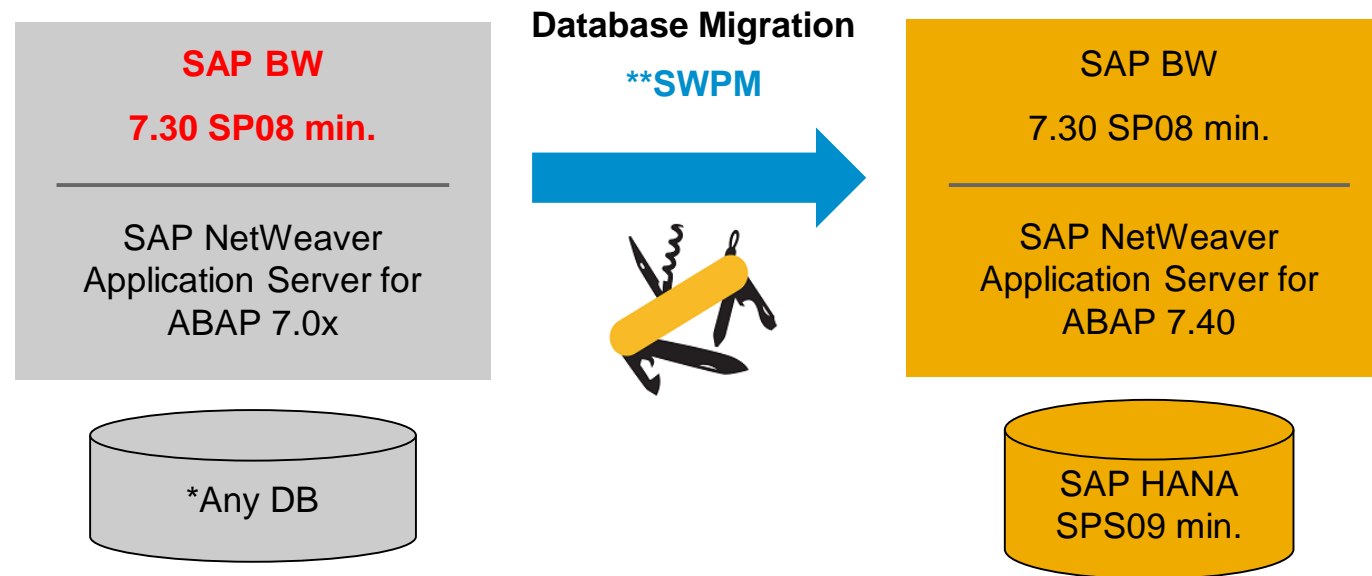
# Scenario 1: Upgrade and Database Migration



\* Release restrictions may apply

\*\*DMO for SUM: Database Migration Option for Software Update Manager

# Scenario 2: Database Migration



## Example of a typical Customer Situation:

- Current BW release is 7.30 SP08 minimum, uncompressed source database size of 5 TB or less, 2-tier landscape (DEV & PRD)
- **Same as Scenario 1 but without Upgrade**

\* Release restrictions may apply

\*\* SWPM: Software Provisioning Manager

## Use Case “One System”:

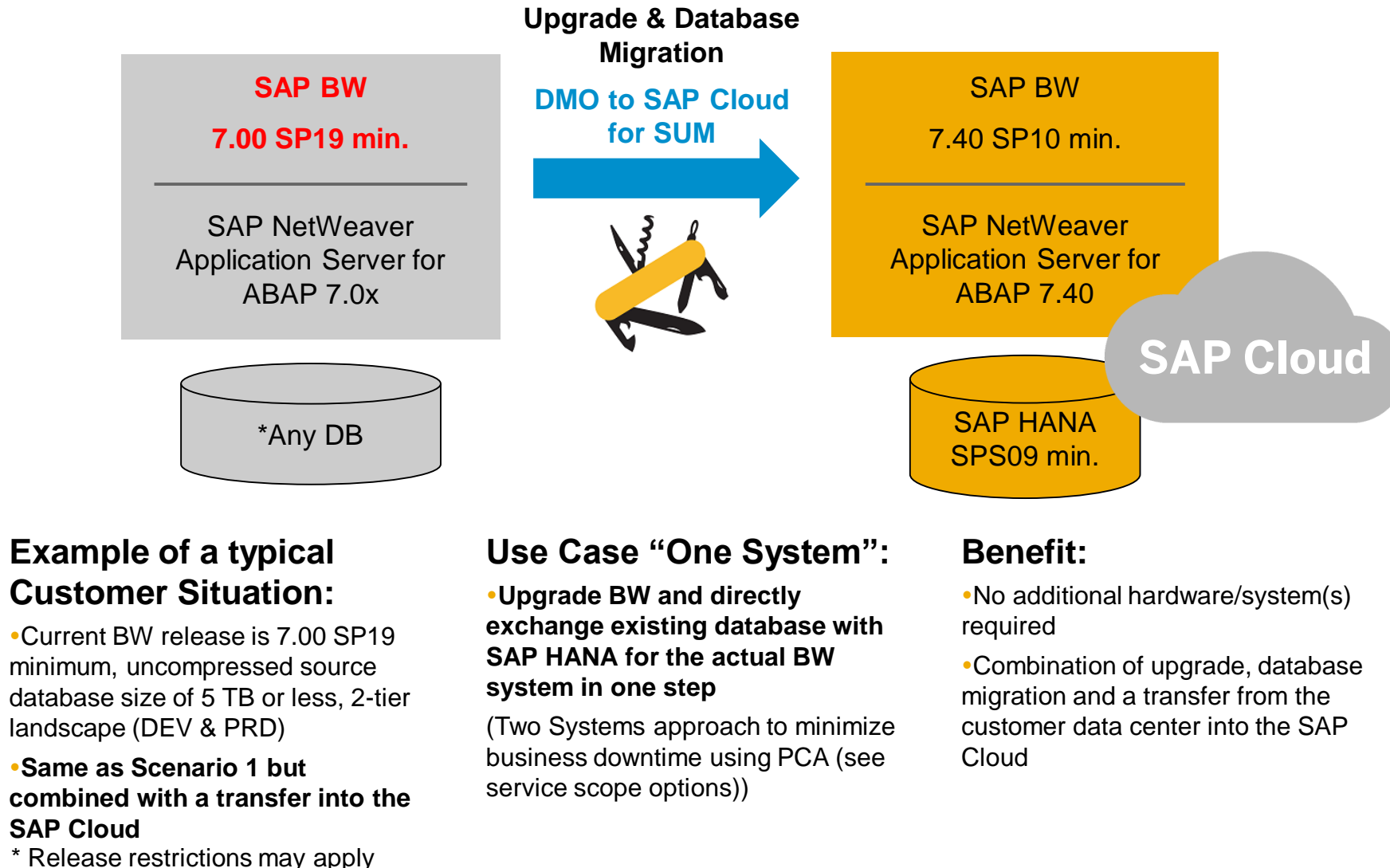
**Exchange existing database with SAP HANA for the actual**

(Two Systems approach to minimize business downtime using PCA (see service scope options))

## Benefit:

- Fastest/easiest scenario
- No additional hardware/system(s) required
- “Classical” approach used by consulting/customers since years

# Scenario 3: Upgrade and Database Migration to SAP Cloud





# Service scope options

A service scope option is a combination of scope that can be removed to reduce the service price of the rapid-deployment solution.

Scope options	Required	Scope items / Functionality delivered
<b>Technical Upgrade and Database Migration</b>	Mandatory for Scenario 1	<ul style="list-style-type: none"><li>• Technical upgrade and export of 2-tier landscape from any database and import to SAP HANA, including one test migration</li><li>• Uncompressed source DB size: up to 20 TB. For systems above 10 TB an additional test migration is required</li></ul>
<b>Database Migration (without Technical Upgrade)</b>	Mandatory for Scenario 2	<ul style="list-style-type: none"><li>• Export of 2-tier landscape from any database and import to SAP HANA, includes one test migration</li><li>• Uncompressed source DB size: up to 20 TB. For systems above 10 TB an additional test migration is required</li></ul>
<b>Upgrade and Database Migration to SAP Cloud</b>	Mandatory for Scenario 3	<ul style="list-style-type: none"><li>• Upgrade and database migration combined with a move into the SAP Cloud, including one test migration</li></ul>
<b>Delta Queue Cloning with PCA</b>	Optional	<ul style="list-style-type: none"><li>• PCA Configuration of Delta Queue Cloning to support the delta replication into 2 productively used systems in parallel</li><li>• Used to significantly reduce business downtime during cutover</li></ul>
<b>Additional System(s)</b>	Optional	<ul style="list-style-type: none"><li>• Migration of additional system(s) on top of 2-tier (DEV and PRD) landscape</li><li>• For systems above 10 TB an additional test migration is required</li></ul>
<b>Unicode Conversion</b>	Optional	<ul style="list-style-type: none"><li>• Conversion of non-Unicode SAP BW system to Unicode system (non-multiple code page systems)</li><li>• Unicode Enablement (custom code adjustments) are not included</li></ul>

*Partner's scope of service may vary.*



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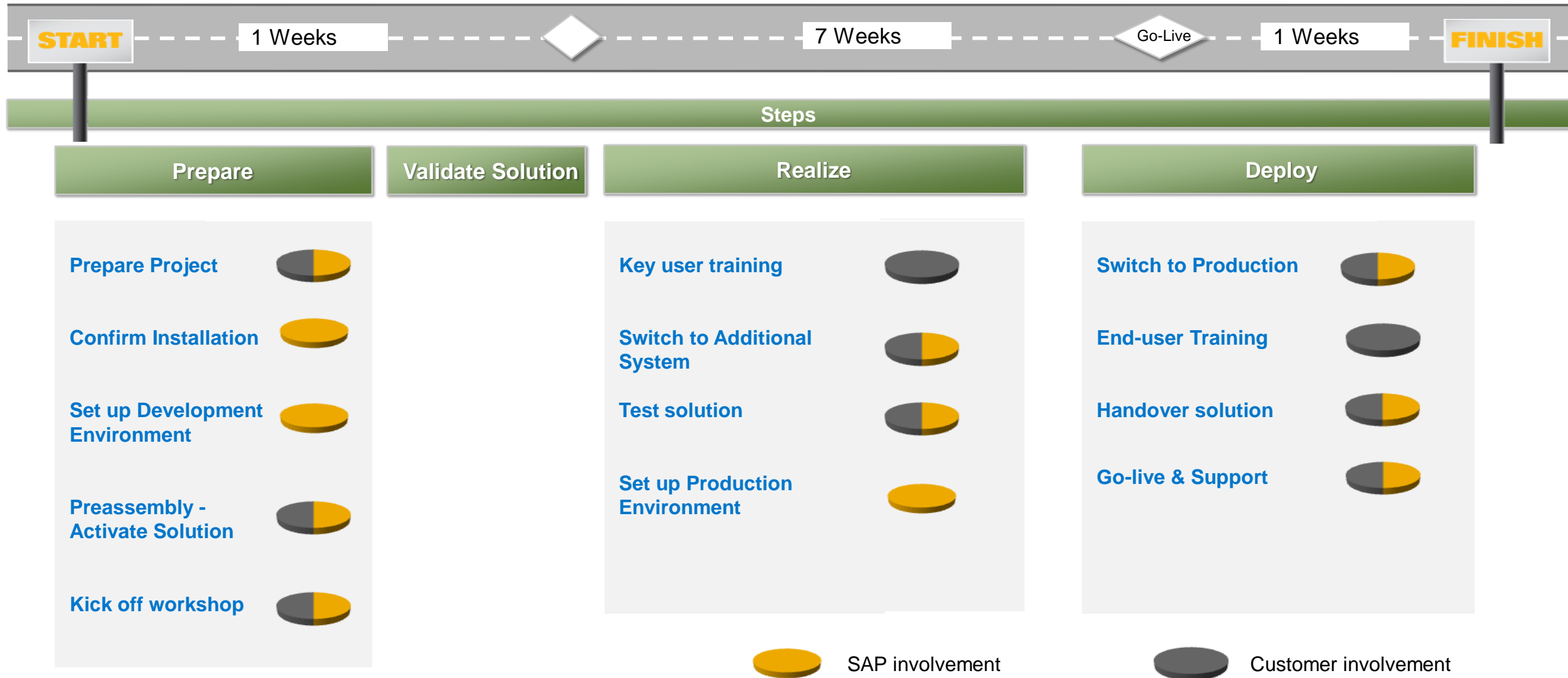
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# Project Approach



# Project Team

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## Project Manager

Serves as a central contact person, from project initiation to go-live and support  
On the SAP side, responsible for functional project management, coordination, support, and coaching of the customer's project manager, and so on

## Technology Consultant

Responsible for the technical OS/DB migration, BW upgrade, technical configuration and operation of SAP HANA, know how transfer and technical testing

## Application Consultant

Responsible for specific BW upgrade and migration tasks, InfoProvider conversion, know how transfer and BW specific testing

# Responsibilities

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## What does SAP deliver?

- Project setup and reporting
- Kick off workshop
- Prerequisites check
- Technical Upgrade to the latest version: SAP BW 7.40 (latest SP level)
- Migration to the SAP HANA database by heterogeneous system copy:
  - One test migration (on copy of the PRD BW system) (Optional: additional test migration)
  - Migration of DEV and PRD system (Optional: additional system(s) migration)
- In-memory conversion of 30 InfoCubes
- Follow-up activities after migration
- Support for going live

## What do you have to do?

- Provide the IT infrastructure
- Provide fixed contact people in the business and IT departments
- Provide user and sufficient authorizations for technical consultants
- Perform all tasks listed in the prerequisite check list
- Provide technical support of the SAP Consulting team
- Provide prepared systems for the test migrations
- Perform specific administration tasks
- Acceptance testing by business key users
- Post Go-live support

*Partner's scope of service may vary.*



# Assemble to Order: Combine Services into One Project

Assemble to Order (A2O) combines multiple rapid-deployment solutions and engineered services into a single implementation project. It provides a faster lower cost alternative to the traditional design-based approach.



Provides a new way to deliver projects faster based on engineered services and implementation content



An engineered delivery model uses local, near-shore and offshore resources



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# Which software is used?

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## SOFTWARE

- SAP NetWeaver BW 7.00 SP19 minimum, Unicode or Non-Unicode, ABAP only
- SAP Solution Manager 7.0 EHP1 SP23 or SAP Solution Manager 7.1 SP01 minimum
- Software Logistics Toolset 1.0 SP12 minimum
- SAP NetWeaver Landscape Virtualization Management 2.0 SP08 minimum
- SAP HANA Platform Edition 1.0 SPS09 minimum

## HARDWARE

- Your operating system platform must be 64-bit.

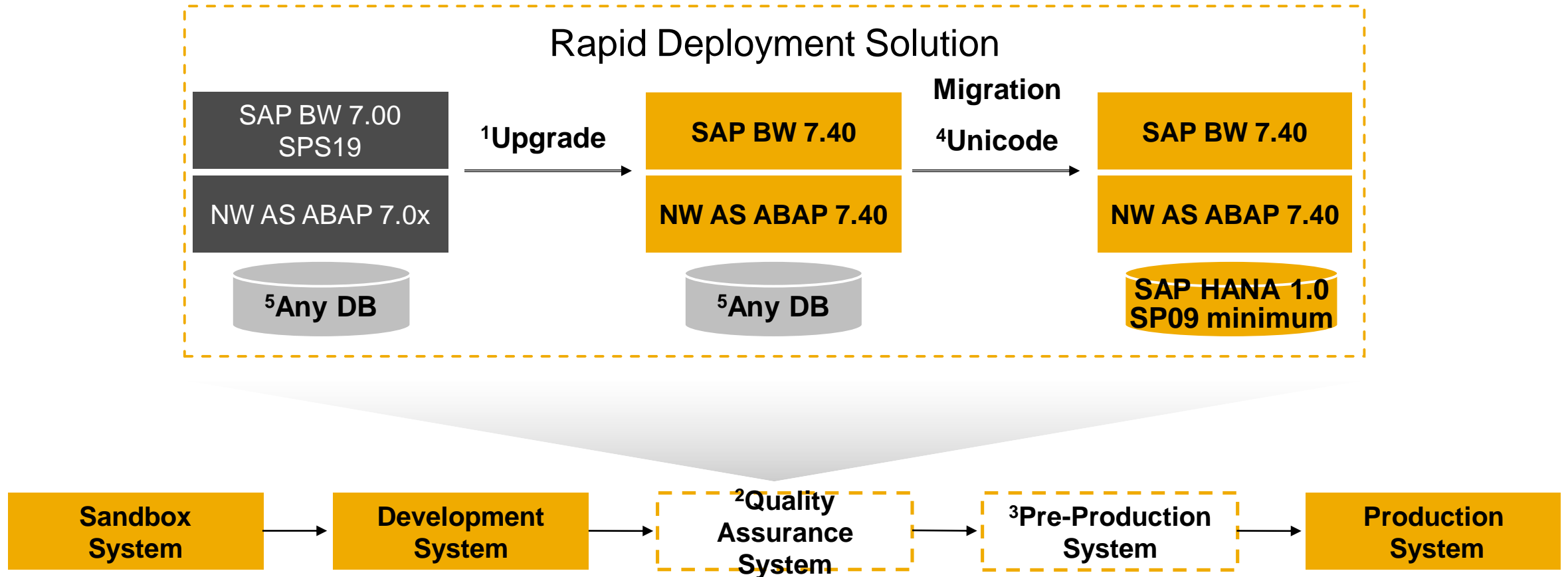
## OPERATING SYSTEM

- For a comprehensive list of supported operating system releases, see the Product Availability Matrix (PAM) at: <http://service.sap.com/pam>

## DATABASE

- Oracle 11.2 (10.2 with DMO)
- IBM DB2 LUW 10.1 (9.1 with DMO)
- MaxDB 7.9
- MS SQL server 2008
- DB2 for i61, 7.1 (not yet supported for DMO, see SAP Note 1875197)
- DB2 for z/OS V9, V10
- SAP ASE 15.7

# System landscape



<sup>1</sup>Upgrade is optional

<sup>2</sup>QAS system is optional

<sup>3</sup>PRE-PROD system is optional

<sup>4</sup>Unicode Conversion is optional

<sup>5</sup>Release restrictions may apply



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# ONE GLOBAL TEAM

Our consultants all over the world deliver SAP services to you, onsite as well as remote.





# ALIGNMENT

We are closely aligned – ONE SAP to meet your needs best.

A person stands on the edge of a dark, rocky cliff, silhouetted against a bright, glowing sunset. The sun is a large, intense yellow orb on the right side of the frame. Below the cliff, a vast expanse of white and orange-tinted clouds stretches across the middle ground. In the far distance, a range of dark, jagged mountains is visible against the lighter sky. The overall mood is one of vastness and contemplation.

# **VAST EXPERIENCE**

Nowhere else can you find that much experience on SAP solutions.





# RISK MITIGATION

Following a proven delivery model ensures project success.



# Thank you

Contact information:

F name MI. L name

Title

Address

Phone number



# **SAP Rapid-Deployment solutions**

The fastest way to run your business better