



Pascal Kaldenbach

Sales Manager – Central Europe (D.A.CH.)

pascal.kaldenbach@labs.epiuse.com

Komplexität reduzieren - S/4 Sandbox Systeme on demand für effizientere S/4 Conversions

Pascal Kaldenbach, EPI-USE Labs | Timo Wild, EPI-USE Labs

08.05.2019



VALUE THROUGH INNOVATION

EPI-USE Labs

 **+850** CLIENTS
WORLDWIDE

GLOBAL
FOOTPRINT



>30% OF REVENUE SPENT
ON R&D ACTIVITIES

 **47**
OPERATING IN
COUNTRIES

98% CLIENT
RENEWAL RATE

+4,000 LICENCES SOLD

MULTI-LINGUAL GLOBAL SUPPORT TEAM

DEDICATED 
IN-HOUSE TEAM

 SATISFIED CLIENTS



98%
OF TICKETS RESPONDED TO
WITHIN 30 MINS

WIDE LANGUAGE
SUPPORT 

24-HR SUPPORT EVERY
WORKING DAY



80%
OF TICKETS RESOLVED IN
< 24 HOURS

CLIENT CENTRAL - OUR COLLABORATIVE COMMUNITY

UNIQUE
ONLINE
PORTAL



**ALL CLIENTS
HAVE ACCESS**



+10,000
PORTAL 
USERS

SAP HCM Reporting/Validation

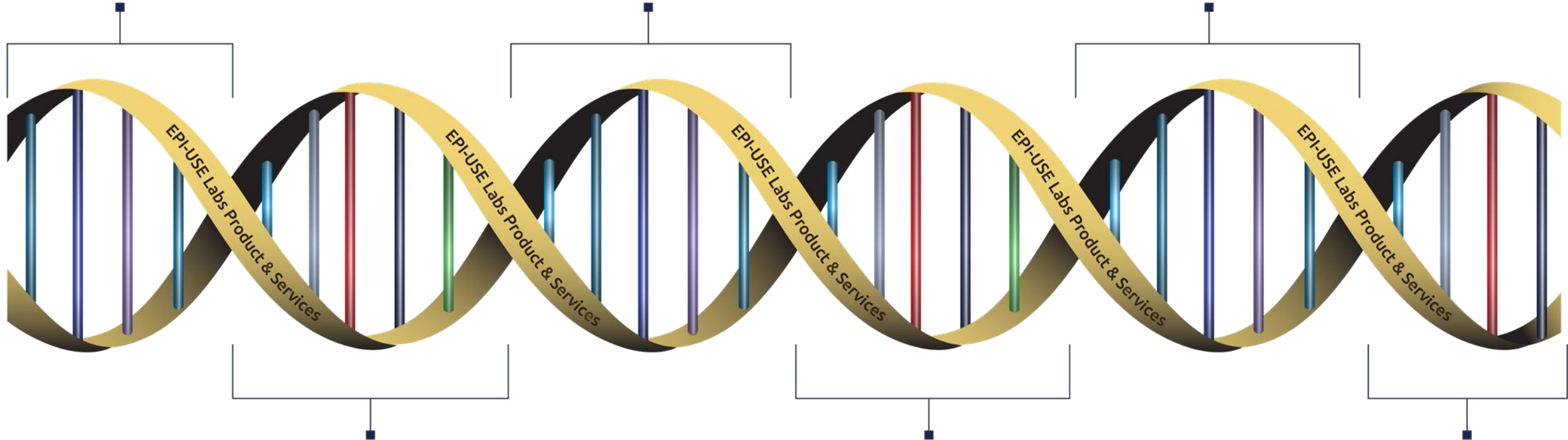
- Query Manager™:
 - Fiori App
 - Document Builder™
- HCM Reporting as a Service
- Variance Monitor for HCM

Test Data Optimization

- Data Sync Manager™ Suite:
 - Client Sync™
 - Object Sync™
 - Data Secure™
 - System Builder™
- Refresh as a Service

Data Security & DSGVO/GDPR

- DSGVO/GDPR Compliance Suite:
 - Data Disclose™
 - Data Redact™
 - Data Retain™
- Data Secure™



SAP HCM Transformation

- System Landscape Optimization (SLO)
 - SAP HCM Migration
 - SAP HCM Carve Out
 - SAP HCM CC Carve Out
 - SAP HCM Merger
- SAP System Analyse (OAP)

SAP System Hosting

- SAP Managed Services
 - Unified Platform (UP)
 - System Refresh
 - AMS Services
- Hosting Services

Custom Development

- Individualisierung & Automatisierung Produkte
- Fiori Erweiterung



“Give me six hours to cut
down a tree and I will use the
first four to sharpen the axe”

- Abraham Lincoln





Multiple Project



Testing



Production Support



Training



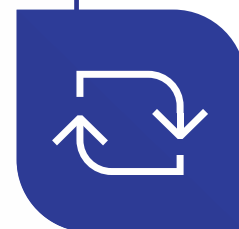
Legal Compliance

WAS?

You need secure data
through masking

You need accurate data

You need it ASAP



Refreshed QA/Test
environment for Projects



Data to compare/
Test invasive changes



Simulate production
Scenario In QA



Secure training
environment



Production Support

Testing for S/4 HANA

Bestandsaufnahme

- Systemstatus, Nutzung, Ist-Analyse

Landschaftsharmonisierung

- SAP HCM Carve-Out
- SAP ERP Systeme
- Buchungskreise löschen
- Mandanten löschen

SAP Basis-Checks

- Unicode-Konvertierung
- EHP Upgrade für Umstieg auf HANA DB
- HANA DB-Migration

Testing for S/4 HANA

Pre-Conversion

- Spiel-Sandbox mit verfremdeten Daten
- Custom-Code-Adaption-Sandbox (Testing von Z_Tabellen)
- Verfremdung der Sandboxes für Drittanbieter
- Add-Ons / Partner (Ausschluss?)
- Konvertierungs-Back-Up Verfahren

Post-Conversion

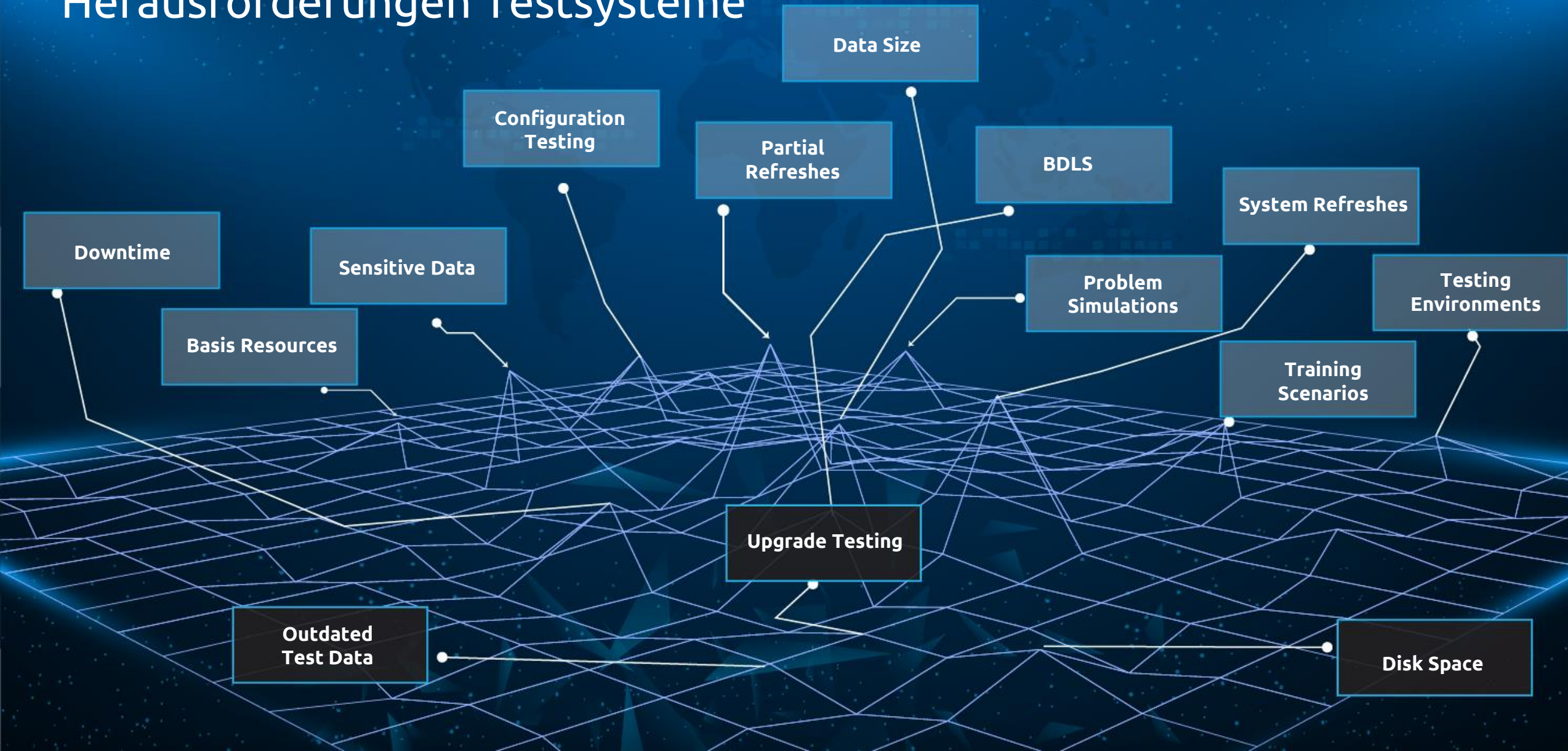
- Aufbau der SAP Testlandschaft
- Supportfälle testen

Testing for S/4 HANA

Daily Testing

- Vollständiger Datenrefresh inkl. Anonymisierung
- ggf. Reduktion der Daten durch Zeitschnitt
- Automatisierte Datenbereitstellung ohne Aufwände in der BASIS
- adhoc Erstellung von individuellen Testdatensets auf Objektbasis inkl. Verfremdung

Herausforderungen Testsysteme





Bestandsaufnahme

DSMr Readiness System Check up

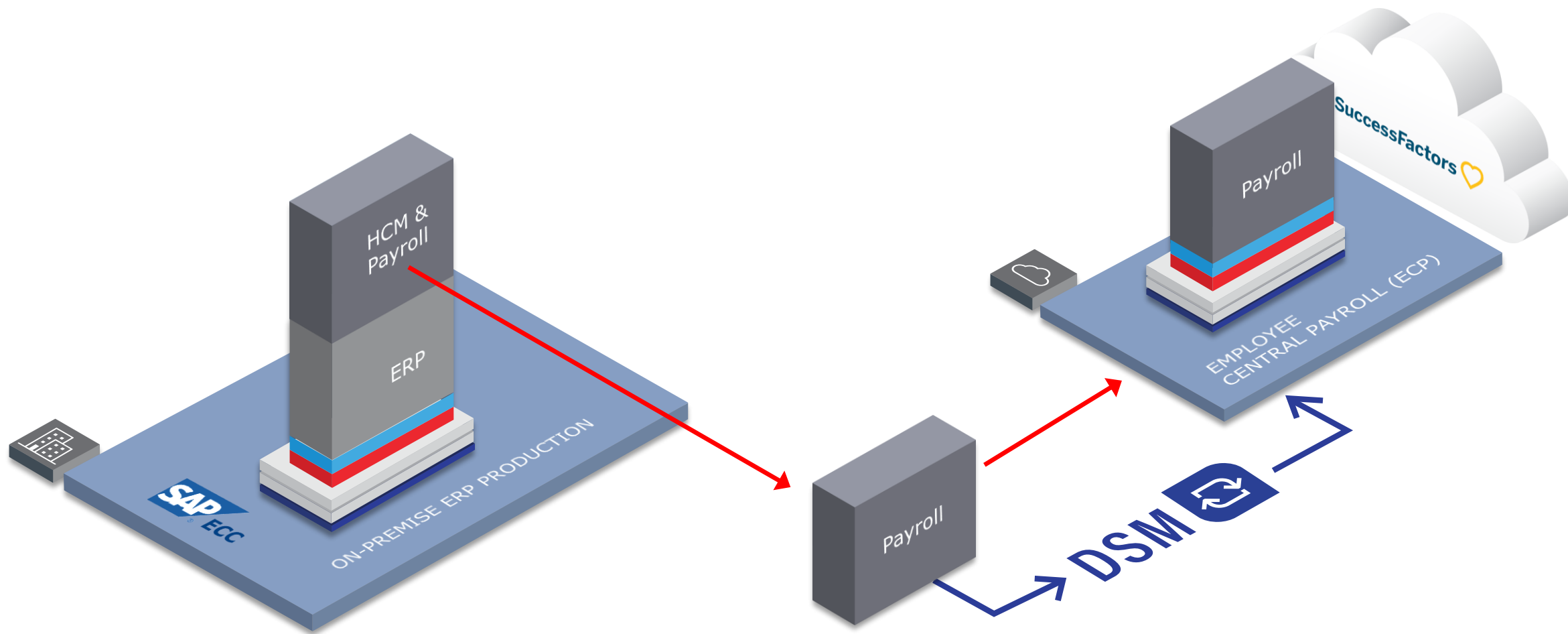


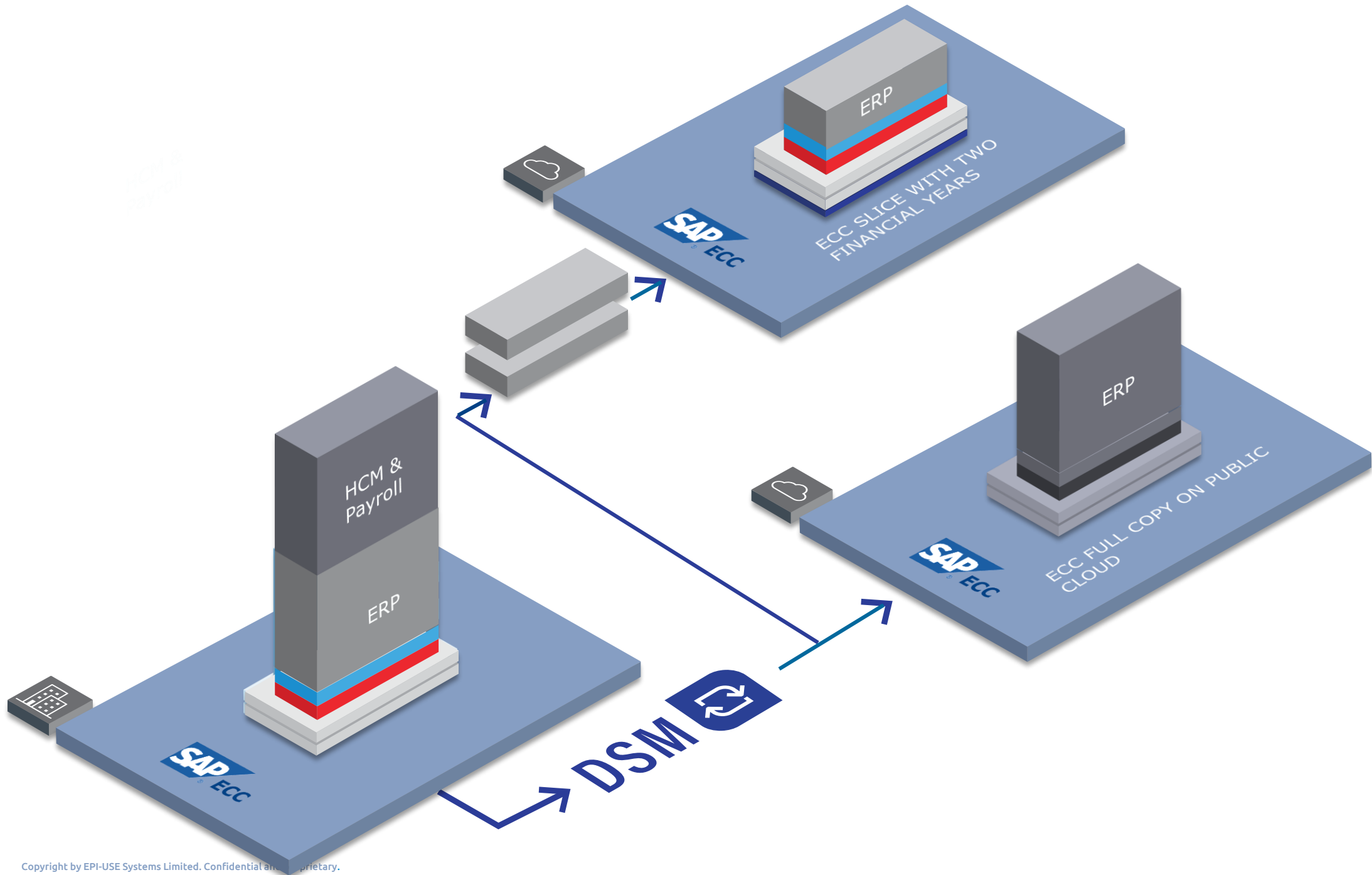
Platform information Good <table><tr><td>SAP version</td><td>750</td></tr><tr><td>SAP system types</td><td>N/A</td></tr><tr><td>Operating system</td><td>AIX</td></tr><tr><td>Database name</td><td>ORACLE</td></tr></table> Visible 1 Notes	SAP version	750	SAP system types	N/A	Operating system	AIX	Database name	ORACLE	System size Warning <table><tr><td>Database size</td><td>43.9 TB</td></tr><tr><td>Database usage</td><td>36.9 TB</td></tr><tr><td>Overall size category</td><td>Huge</td></tr><tr><td>DB specific size category</td><td>Huge</td></tr></table> Visible 1 Notes	Database size	43.9 TB	Database usage	36.9 TB	Overall size category	Huge	DB specific size category	Huge	Component versions Good <table><tr><td>ABAP version</td><td>750 [SP 0009]</td></tr><tr><td>APPL version</td><td>618 [SP 0008]</td></tr><tr><td>BW version</td><td>750 [SP 0009]</td></tr></table> Visible 0 Notes	ABAP version	750 [SP 0009]	APPL version	618 [SP 0008]	BW version	750 [SP 0009]	Custom tables Good <table><tr><td>Estimated size *</td><td>456 MB</td></tr><tr><td>Tables containing records</td><td>661</td></tr><tr><td>Empty tables</td><td>248</td></tr></table> Visible 1 Notes	Estimated size *	456 MB	Tables containing records	661	Empty tables	248	Tables with custom data classes Warning <table><tr><td>Estimated size *</td><td>192 MB</td></tr><tr><td>Tables with custom data classes</td><td>143</td></tr><tr><td>Tables with more than 10.000 records</td><td>8</td></tr></table> Visible 1 Notes	Estimated size *	192 MB	Tables with custom data classes	143	Tables with more than 10.000 records	8				
SAP version	750																																									
SAP system types	N/A																																									
Operating system	AIX																																									
Database name	ORACLE																																									
Database size	43.9 TB																																									
Database usage	36.9 TB																																									
Overall size category	Huge																																									
DB specific size category	Huge																																									
ABAP version	750 [SP 0009]																																									
APPL version	618 [SP 0008]																																									
BW version	750 [SP 0009]																																									
Estimated size *	456 MB																																									
Tables containing records	661																																									
Empty tables	248																																									
Estimated size *	192 MB																																									
Tables with custom data classes	143																																									
Tables with more than 10.000 records	8																																									
HR Functions Good <table><tr><td>Payroll countries</td><td>0</td></tr><tr><td>Concurrent Employment</td><td>Nein</td></tr><tr><td>Multiple Employment</td><td>Nein</td></tr><tr><td>Global Employment</td><td>Nein</td></tr></table> Visible 0 Notes	Payroll countries	0	Concurrent Employment	Nein	Multiple Employment	Nein	Global Employment	Nein	Business functions Good <table><tr><td></td><td>28</td></tr></table> Visible 0 Notes		28	Supported Objects Good <table><tr><td>Top master data areas</td><td>Size</td></tr><tr><td>ERP-AC (Accounting)</td><td>41 GB</td></tr><tr><td>ERP-LO (Logistics)</td><td>37.7 GB</td></tr><tr><td>Top transactional data areas</td><td>Size</td></tr><tr><td>ERP-LO (Logistics)</td><td>114 GB</td></tr><tr><td>ERP-AC (Accounting)</td><td>60.1 GB</td></tr></table> Visible 0 Notes	Top master data areas	Size	ERP-AC (Accounting)	41 GB	ERP-LO (Logistics)	37.7 GB	Top transactional data areas	Size	ERP-LO (Logistics)	114 GB	ERP-AC (Accounting)	60.1 GB	Change logging Good <table><tr><td>Change logged tables</td><td>46.932</td></tr><tr><td>Largest change logged tables</td><td></td></tr><tr><td>DOKHL</td><td>241 MB</td></tr><tr><td>TADIR</td><td>224 MB</td></tr><tr><td>T512T</td><td>48.5 MB</td></tr></table> Visible 0 Notes	Change logged tables	46.932	Largest change logged tables		DOKHL	241 MB	TADIR	224 MB	T512T	48.5 MB	Transaction statistics Good <table><tr><td>Standard</td><td>83</td></tr><tr><td>Custom</td><td>8</td></tr></table> Visible 0 Notes	Standard	83	Custom	8		
Payroll countries	0																																									
Concurrent Employment	Nein																																									
Multiple Employment	Nein																																									
Global Employment	Nein																																									
	28																																									
Top master data areas	Size																																									
ERP-AC (Accounting)	41 GB																																									
ERP-LO (Logistics)	37.7 GB																																									
Top transactional data areas	Size																																									
ERP-LO (Logistics)	114 GB																																									
ERP-AC (Accounting)	60.1 GB																																									
Change logged tables	46.932																																									
Largest change logged tables																																										
DOKHL	241 MB																																									
TADIR	224 MB																																									
T512T	48.5 MB																																									
Standard	83																																									
Custom	8																																									
Operating concerns Warning <table><tr><td></td><td>3</td></tr></table> Visible 1 Notes		3	Workflows Caution <table><tr><td>Workflow</td><td>Active</td></tr><tr><td>Number of tables</td><td>14</td></tr><tr><td>Size (estimated))</td><td>876 GB</td></tr><tr><td>Change documents</td><td>Active</td></tr><tr><td>Number of tables</td><td>115</td></tr><tr><td>Size</td><td>60.4 MB</td></tr></table> Visible 2 Notes	Workflow	Active	Number of tables	14	Size (estimated))	876 GB	Change documents	Active	Number of tables	115	Size	60.4 MB	Inconsistent tables Warning <table><tr><td></td><td>2</td></tr></table> Visible 2 Notes		2	Number ranges Good <table><tr><td>Object number ranges</td><td>3.415</td></tr><tr><td>Non-object number ranges</td><td>0</td></tr><tr><td>External number ranges</td><td>584</td></tr></table> Visible 0 Notes	Object number ranges	3.415	Non-object number ranges	0	External number ranges	584	SICF services Warning <table><tr><td>Public</td><td></td></tr><tr><td>Active</td><td>50</td></tr><tr><td>Inactive</td><td>0</td></tr><tr><td>Internal</td><td></td></tr><tr><td>Active</td><td>2.221</td></tr><tr><td>Inactive</td><td>0</td></tr></table> Visible 0 Notes	Public		Active	50	Inactive	0	Internal		Active	2.221	Inactive	0				
	3																																									
Workflow	Active																																									
Number of tables	14																																									
Size (estimated))	876 GB																																									
Change documents	Active																																									
Number of tables	115																																									
Size	60.4 MB																																									
	2																																									
Object number ranges	3.415																																									
Non-object number ranges	0																																									
External number ranges	584																																									
Public																																										
Active	50																																									
Inactive	0																																									
Internal																																										
Active	2.221																																									
Inactive	0																																									
Unsupported tables Warning <table><tr><td>Number of tables</td><td>6.554</td></tr><tr><td>Total number of records</td><td>73.315.949.809</td></tr><tr><td>Size (estimate)</td><td>31.3 TB</td></tr><tr><td>Number of tables with more than 1 million records</td><td>537</td></tr></table> Visible 0 Notes	Number of tables	6.554	Total number of records	73.315.949.809	Size (estimate)	31.3 TB	Number of tables with more than 1 million records	537	Unsupported application components Good <table><tr><td>Number of tables</td><td>6.218</td></tr><tr><td>Record count</td><td>71.212.262.114</td></tr><tr><td>Estimated size *</td><td>29.5 TB</td></tr></table> Visible 2 Notes	Number of tables	6.218	Record count	71.212.262.114	Estimated size *	29.5 TB	Ignored tables Warning <table><tr><td>Due to delivery class (W, L)</td><td></td></tr><tr><td>Number of ignored tables</td><td>33</td></tr><tr><td>Total number of records</td><td>4.158.648</td></tr><tr><td>Due to \$TMP package</td><td></td></tr><tr><td>Number of ignored tables</td><td>0</td></tr><tr><td>Total number of records</td><td>0</td></tr></table> Visible 1 Notes	Due to delivery class (W, L)		Number of ignored tables	33	Total number of records	4.158.648	Due to \$TMP package		Number of ignored tables	0	Total number of records	0	Workload analysis Good <table><tr><td>Record access time</td><td>Programs</td></tr><tr><td>Less than 1s</td><td>40.294</td></tr><tr><td>Between 1s and 1min</td><td>255</td></tr><tr><td>Between 1min and 30min</td><td>10</td></tr></table> Visible 0 Notes	Record access time	Programs	Less than 1s	40.294	Between 1s and 1min	255	Between 1min and 30min	10	Data Secure Analysis Good <table><tr><td>Possible object links to custom tables ⓘ</td><td>0</td></tr><tr><td>Possible object links to custom tables with associated IMAP(s) ⓘ</td><td>0</td></tr></table> Hidden 2 Notes	Possible object links to custom tables ⓘ	0	Possible object links to custom tables with associated IMAP(s) ⓘ	0
Number of tables	6.554																																									
Total number of records	73.315.949.809																																									
Size (estimate)	31.3 TB																																									
Number of tables with more than 1 million records	537																																									
Number of tables	6.218																																									
Record count	71.212.262.114																																									
Estimated size *	29.5 TB																																									
Due to delivery class (W, L)																																										
Number of ignored tables	33																																									
Total number of records	4.158.648																																									
Due to \$TMP package																																										
Number of ignored tables	0																																									
Total number of records	0																																									
Record access time	Programs																																									
Less than 1s	40.294																																									
Between 1s and 1min	255																																									
Between 1min and 30min	10																																									
Possible object links to custom tables ⓘ	0																																									
Possible object links to custom tables with associated IMAP(s) ⓘ	0																																									

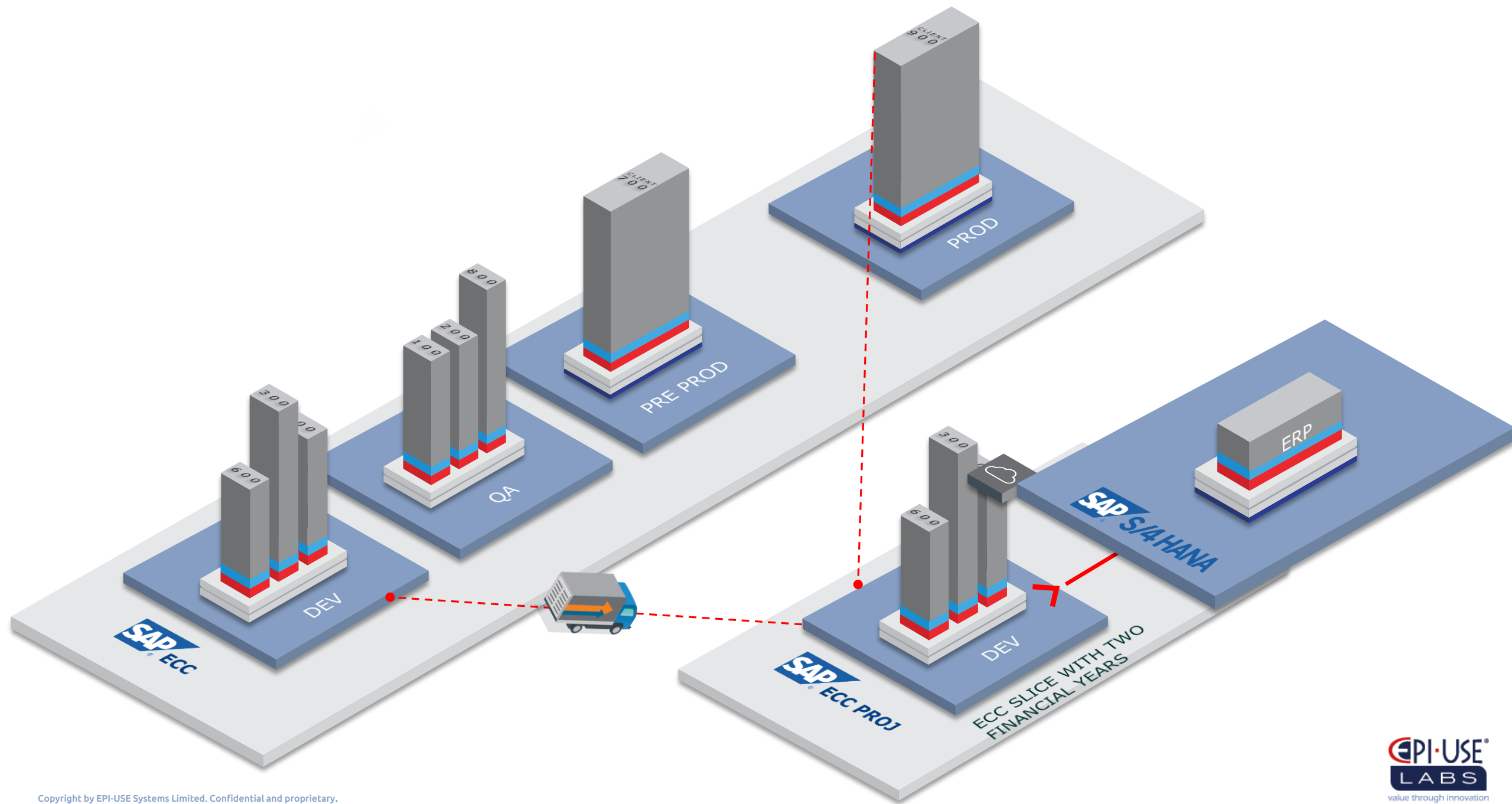


Reduzierte Komplexität Test Cycle mit Data Sync Manager (DSM)

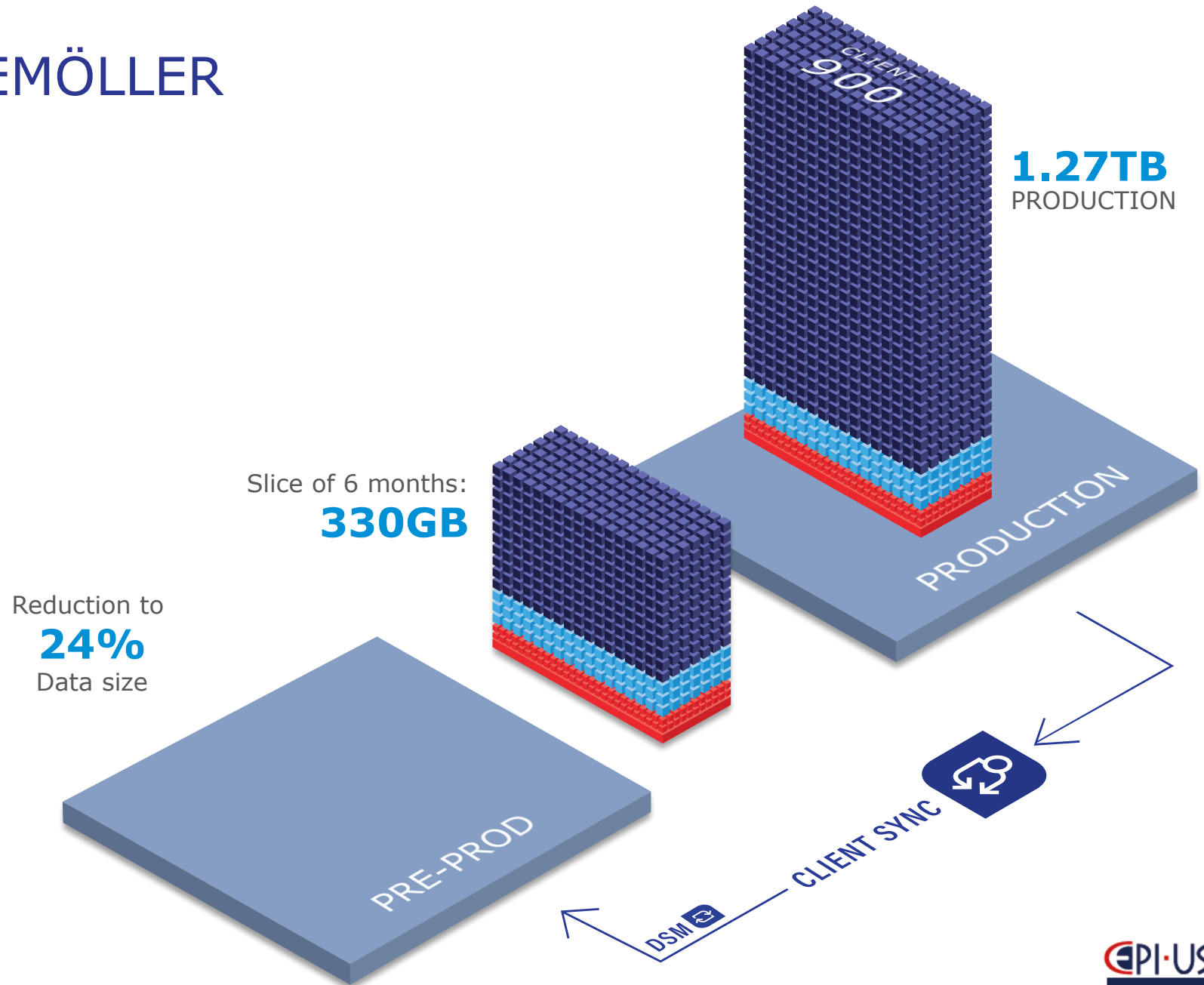








Kundenbeispiel HUNKEMÖLLER



Zusammenfassung

- 1. Vollständige Systemanalyse mit dem Readiness Check**
- 2. Restrukturierung der bestehenden Systemlandschaft (SLO)**
- 3. Aufbau leerer Systemhüllen (Repos. + Cost.) unter HANA DB, on Premise / Cloud**
- 4. Outsourcing Hosting in Public / private cloud (on Azure / Frankfurt)**
- 5. Aufbau reduzierter Testmandanten mit Zeitschnitt**
- 6. (DSGVO-konforme) Anonymisierung von produktiven und Testdaten vor Conversion**

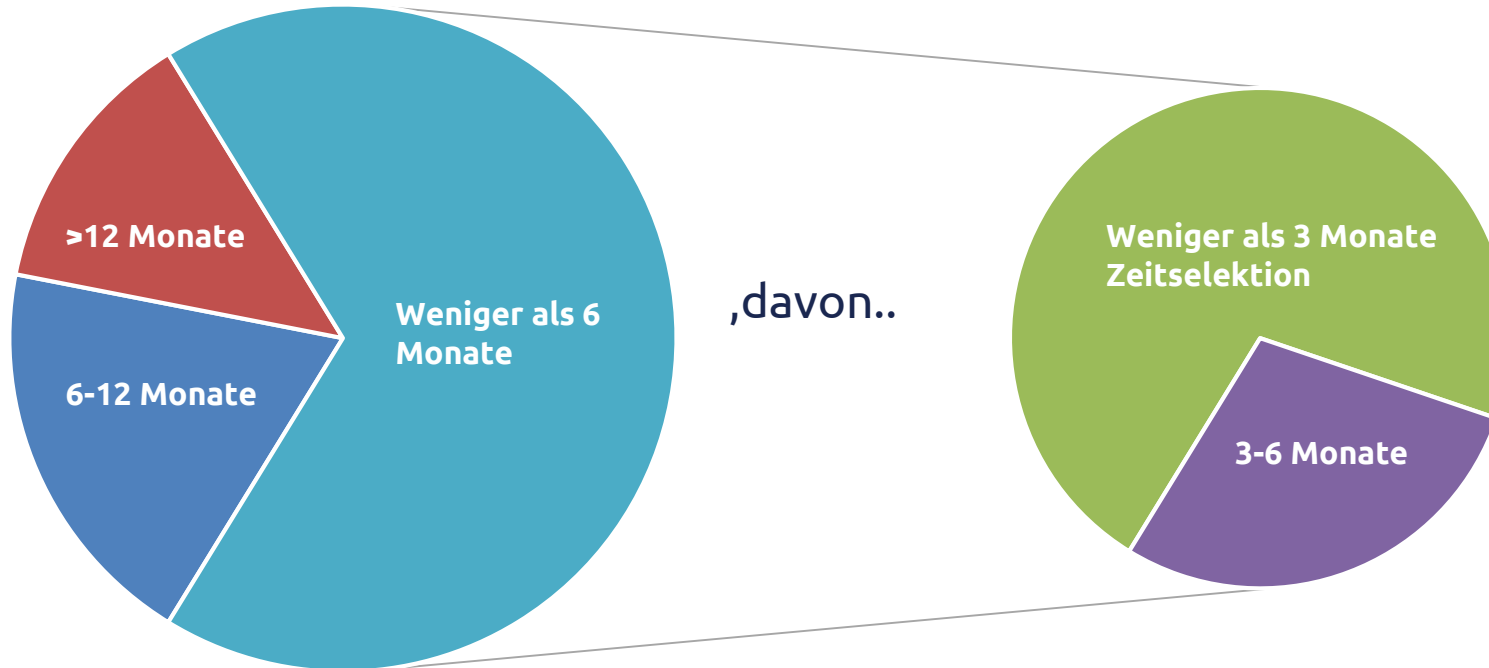
Best Practise Sandbox mit Data Sync Manager (DSM)



Best Practise

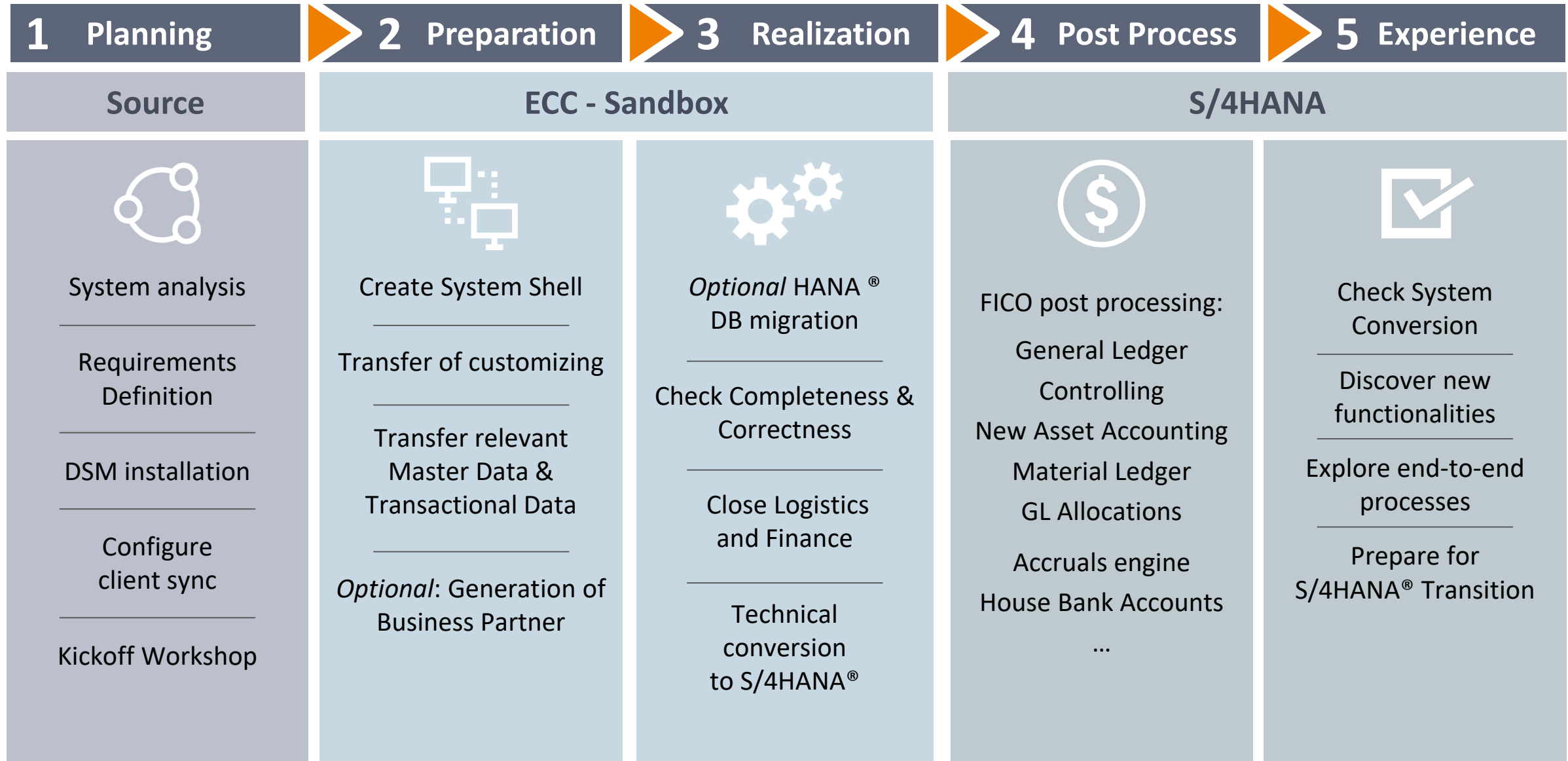
- 1. Bereitstellung einer Spiel Sandbox auf S/4 von 3 Monaten**
- 2. Anonymisierter Datenbestand von Produktivdaten**
- 3. Reduktion der Mandanten / Buchungskreise auf „produktive“**
- 4. Größenreduktion auf Stammdaten oder wenige Bewegungsdaten**
- 5. CBS (Partner) Coaching-Ansatz für spätere Conversion**

Auswertung 99 DSM Kunden mit Zeitselektion



- Auf 78 von 99 Systemen werden weniger als 6 Monate Zeitscheibe kopiert
- Auf 55 von 78 Systemen ist die Zeitscheibe kleiner als 3 Monate
- Auf 21 von 99 Systemen werden mehr als 6 Monate Zeitscheibe kopiert
- Von diesen 21 Systemen sind alle kleiner als 1 TB und 18 kleiner als 500 GB

Five steps to your S/4HANA® experience





www.epiuselabs.com



sales@labs.epiuse.com

clientcentral.io



[@EPIUSELabs](https://twitter.com/EPIUSELabs)

[EPI-USE Labs](#)



[EPI-USE_Labs](#)

