

Integration Suite **Uplift**

Kemira's Quantum "LEAP": Migration from Process Orchestration to Integration Suite

Markus Mueller

Senior Manager

Integration Suite Uplift

Kemira's Quantum "LEAP": Migration from Process
Orchestration to Integration Suite

- › cbs: who are we?
- › Introduction Kemira oyj
- › LEAP Program: Kemira's S/4HANA Journey
- › cbs Integration Suite Uplift
- › Integration Suite @ Kemira
- › cbs Best Practices & Tools
- › Q&A

Speakers



Victor Puente
Product Manager
10+ years industry experience

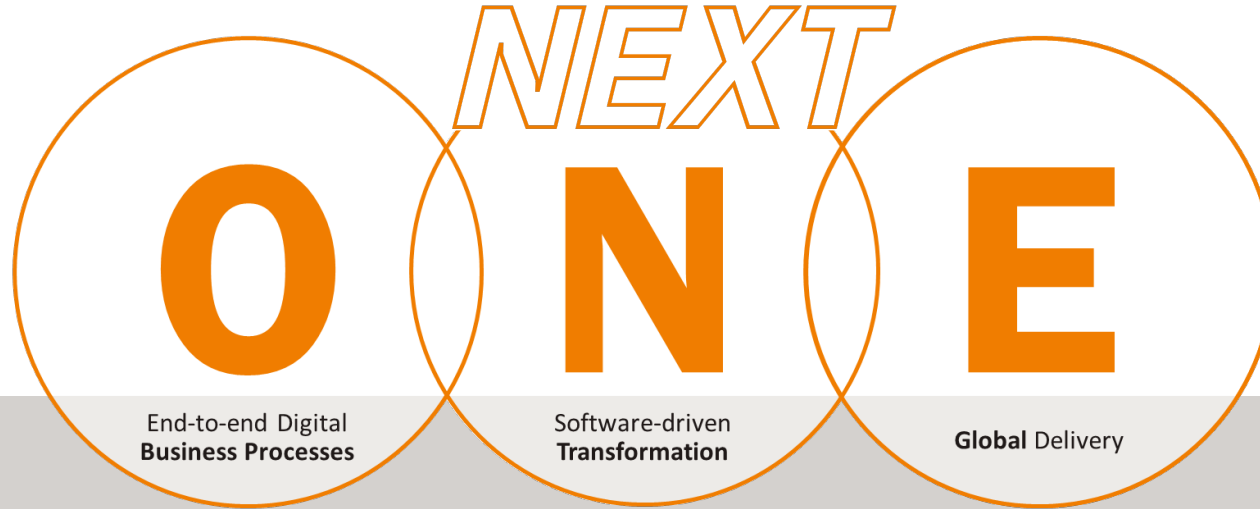


Markus Mueller
Senior Manager
12+ years SAP expertise



Introduction cbs & Kemira LEAP Program Overview

Corporate Business Solutions – Digital, Global, End-2-End



End-to-End Digital Business Transformation Services				
Management Consulting	Project Management	Business Process Consulting		
Application Consulting	Technology Consulting	Application Management		
End-to-End Digital Supply Chain Excellence				
Planning	Execution	GTS	CXM / CRM	MDM
Finance & Controlling		Business Intelligence		HXM
ONE Digital Architecture & Technology				
CLOUD Solutions	BTP	UX / Fiori	Basis & Security	Enterprise Integration

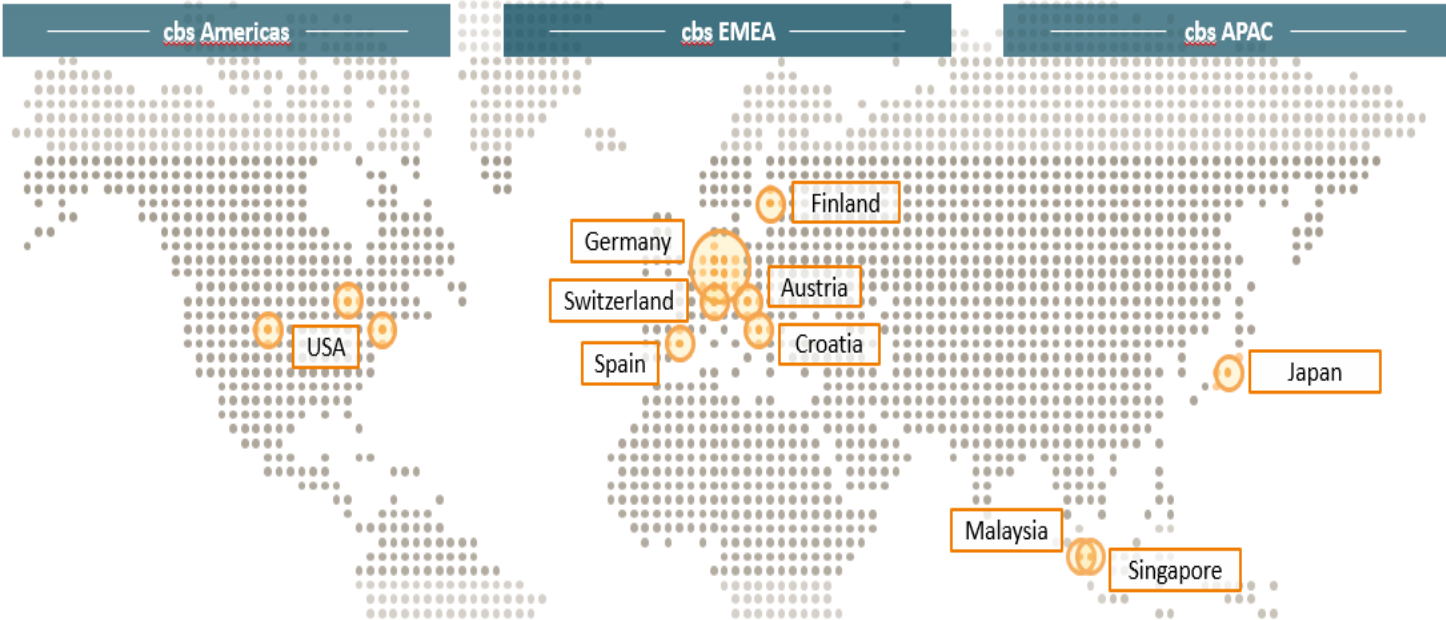
SAP Partner since 1995
Co-Delivery | Co-Innovate | Co-Develop

1,500 Global Staff (2022)

22+ International Offices

27 years of Proven Business Transformation

ZERO PRODUCTION ROLLEBACKS



300+
Customers
* active

3500+
Projects

70%
Projects with
international firms

1500+
Global
staff

2500
Allied Consultants
in Network

22
International
Offices

We are global chemistry company

Pulp & Paper
Industry & Water

2022
REVENUE

€3.6B

2022 OPERATIVE EBITDA

€572M

MARGIN 16%

SALES TO

100+

Countries

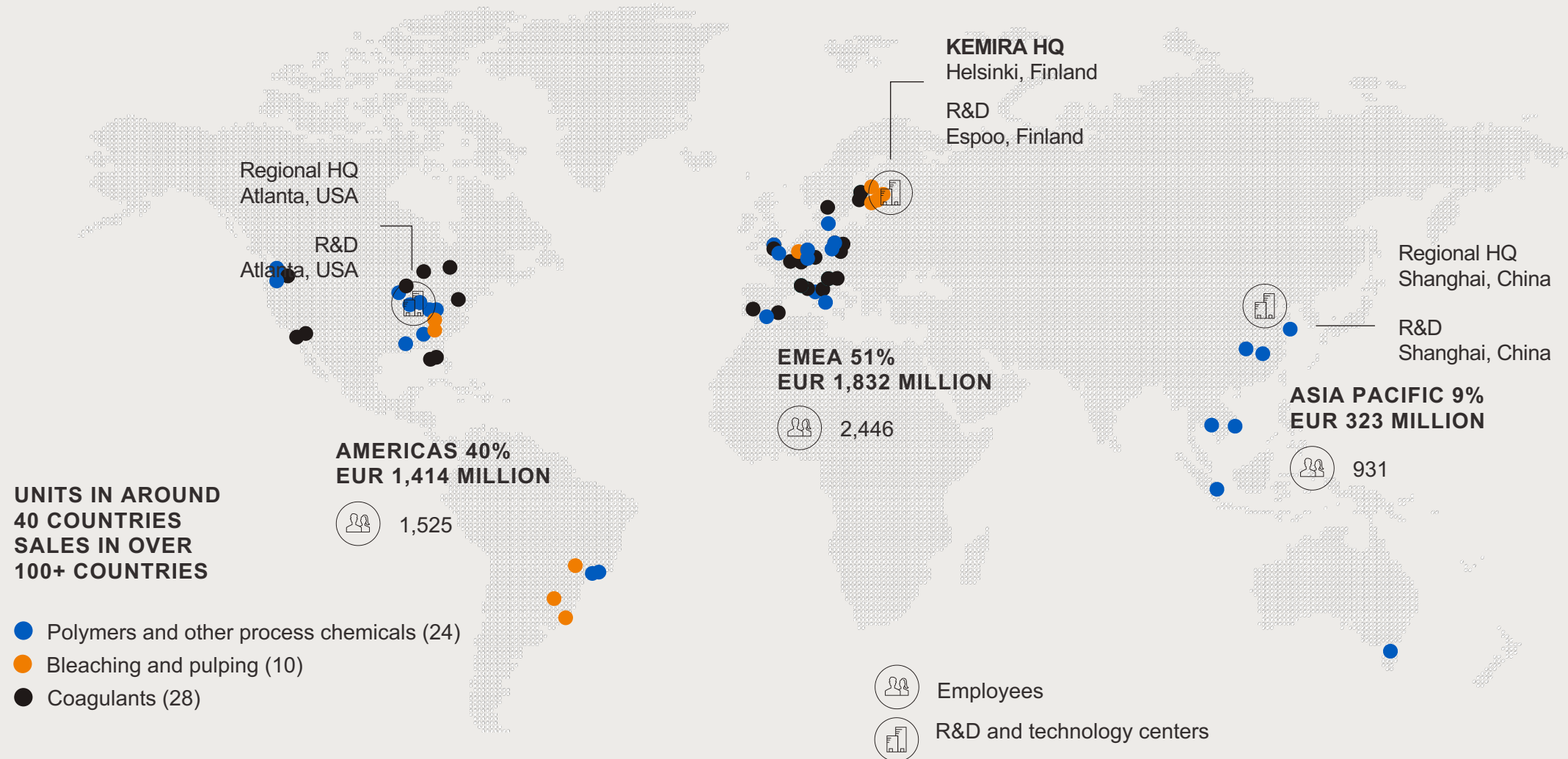
NUMBER OF EMPLOYEES

~5,000

Worldwide

62 Manufacturing Sites

Global reach – local excellence



LEAP S4/HANA Program

Set the foundation for more innovation and insights with record-time global Big-Bang migration into private cloud S/4HANA, Datasphere/SAC and SAP Integration Suite

TARAS PODBEREZNYJ – CIO

SAP is a strategic asset for Kemira

2007
SAP OneKem
deployed as
one ERP
Globally

99%
of Kemira
revenue
managed via
OneKem SAP*
2020

2022-2023
LEAP Program –
Business Release 1.0
Transition from SAP
ECC to SAP S/4HANA

LEAP
Business
Release 2.0 –
New
capabilities &
features
2024

LEAP
Business
Releases XX –
New capabilities
& features
2025-2035

*2018-2020: Last East European companies into OneKem

Why SAP S/4HANA Now?

Driving forces behind the decision to move

- **OneKem ERP technology platform** (servers, routers etc.) is coming to end-of-life in 2023
- **SAP ECC end-of-life** support in 2027
- It takes a significant amount of work to do the technology upgrade
- **Resource availability.** Kemira partnered with CBS Consulting which specialize in SAP migrations and knows Kemira from previous SAP collaboration

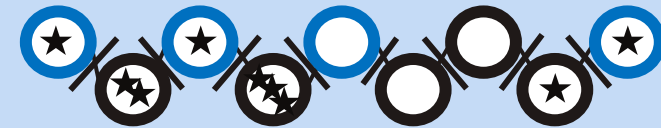
“The new company-wide solution combines innovation with transformation and provides a solid global foundation for enterprise and process control using data-driven business models in the cloud”



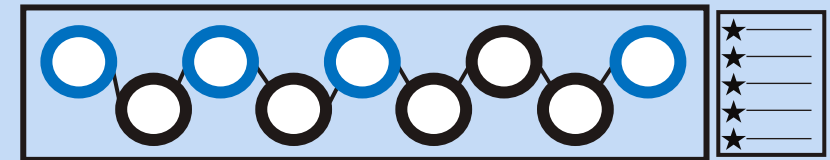
Taras Podbereznyj, CIO Kemira

SAP S/4HANA ADDS VALUE TO THE END-TO-END PROCESS DEVELOPMENT PERSPECTIVE

From a functional way of viewing and developing operations...



...to an End-to-End perspective Supported by S/4HANA data and insight



Set the foundation for more innovation and insights

with record-time global Big-Bang migration into private cloud S/4HANA, Datasphere/SAC and SAP Integration Suite

**SDT Approach
for S/4HANA
Transformation**



Selective Innovation

Datasphere | SAC | Finance
COGS Split | Packaging



58

Company
Codes



400

Plants



37

Countries



**Platform
Transformation
into Azure Cloud**



60

Systems
Moved



363

Interfaces into
SAP Integration Suite

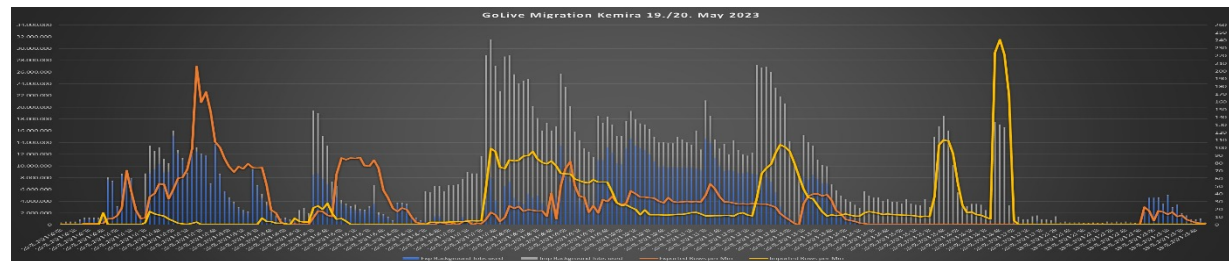


Archive
Migration

Cutover Weekend **Detail-Level** (May 19-21, 2023)

**840
Technical
Cutover
steps in
Total**

F613										11 - Deploy Go-live (after Go-decision)													
J	C	D	E	F	G	H	I	J	K	L	M	J	C	D	E	F	G	H	I	J	K	L	M
25		S4P.100	2624	T-Code HRRP_REP must be carried out for CC and PC Hierarchy H001 and Y, and DR Hierarchy KSO for FIORI and SAC	CO	Michael Hagermann	obs	21.5.23 20.35	5 mins	21.5.23 20.40													
588	131	S4P.100	2629	Create new FI number range 36 (3600000000-3699999999)	FI	Tatjana Gaus	obs	21.5.23 20.40	15 mins	21.5.23 20.55	FBN1												
590	131	S4P.100	2627	Create new number range GLE_AVREF for ECS (1000000000-1099999999)	FI	Tatjana Gaus	obs	21.5.23 20.55	5 mins	21.5.23 21.00	SNJM												
591				2301 9 - Group costing run + other				21.5.23 21.00	120 mins?	21.5.23													
592		S4P.100	2675	Provide list of not invoiced transactions to analytics	CO	Dominio Eller	obs	21.5.23 21.00	60 mins	21.5.23 22.00	SE16N												
593				Release Group costing	CO	Yenkaresh Bandi	obs	21.5.23 21.00	60 mins	21.5.23 22.00													
594	2670	BV	2671	Execute Init wo Data IP's for S4 LO Data sources	Analytics & BV	Juha Kuokkanen	Kemira	21.5.23 21.00	15 mins?	21.5.23 21.15													
595		BV	2669	Execute Init wo Data S4 IP's for other than LO Data Sources	Analytics & BV	Juha Kuokkanen	Kemira	21.5.23 21.00	15 mins?	21.5.23 21.15													
596		OpenText	3238	Core Capture / FFC production subscription	FICO	Katarzyna Marszalek	Kemira	21.5.23 21.00	15 mins	21.5.23 21.15													
597		S4P.100	2797	Create new number range 79 (7900000000-7999999999)	FI	Tatjana Gaus	obs	21.5.23 21.00	10 mins	21.5.23 21.10	FBNVOBI												
598		S4P.100	3237	Payment paths / OBPM4 - ZAUTOMATIC_VARIANT_CHANGE / after data validation / before execution of	FICO	Michal Kowalewski	Kemira	21.5.23 21.05	15 mins	21.5.23 21.20	SE38												
599	71			Create and Schedule Y3 Collection Jobs in S4 (with same Scheduling as was in ERP)	Analytics & BV	Juha Kuokkanen	Kemira	21.5.23 21.15	15 mins?	21.5.23 21.30													
600		S4P.100	3236	Core Capture / FFC set up	FICO	Peter Fazeas	Tietoevry	21.5.23 21.15	10 mins	21.5.23 21.25	SM59												
601		SCWAV	3235	Ava Tan / Switch test to production environment on prod. Server / after data validation / before execution of US	FICO	Michal Kowalewski	Kemira	21.5.23 21.25	20 mins	21.5.23 21.45													
602		S4P.100	3234	Core Capture / Channel change - profile activation	FICO	Katarzyna Marszalek	Kemira	21.5.23 21.45	20 mins	21.5.23 21.45													
603		S4P.100	3233	Core Capture / Z-Tables maintenance / check	FICO	Katarzyna Marszalek	Kemira	21.5.23 21.45	15 mins	21.5.23 22.00													
604		S4P.100	3230	Core Capture / SOST maintenance	FICO	Peter Fazeas	Tietoevry	21.5.23 21.45	10 mins	21.5.23 21.55	SOST												
605		S4P.100	3231	Exchange Rate / Check if all exchange rates are uploaded (especially 19.05)	FICO	Katarzyna Marszalek	Kemira	21.5.23 21.50	15 mins	21.5.23 22.05	OB08 / table												
606				Program: ZPP_CYCLE_TIME Variant: CYCLE_TIME2_BV Update address to:	Analytics & BV	Juha Kuokkanen	Kemira	21.5.23 22.00	60 mins	21.5.23 23.00	TCURR												
607				Program: ZPP_ACP_READ Variant: PREY_M_AND_CUR Update address to:	Analytics & BV	Juha Kuokkanen	Kemira	21.5.23 22.00	60 mins	21.5.23 23.00													
608		S4P.100	3229	Avalara VAT / Paths check	FICO	Michal Kowalewski	Kemira	21.5.23 22.10	5 mins	21.5.23 22.15	m/AVALARAV/												
609		S4P.100	3228	Avalara HULR / Paths check	FICO	Michal Kowalewski	Kemira	21.5.23 22.20	5 mins	21.5.23 22.25	m/AVALARAZ/												
610				3174 10 - Golden transactions (23.00-23.50 EEST)				21.5.23	10 mins	21.5.23 23.10													
611				Start IS FPROD_Odyssey	Interface	Daniel Rude	obs	21.5.23 23.00	5 mins	21.5.23 23.05													
612				Start IS FPROD_VaSi	Interface	Daniel Rude	obs	21.5.23 23.00	10 mins	21.5.23 23.10													
613				### 11 - Deploy Go-live (after Go-decision)				22.5.23 0.30	17900	31.5.23 17.00													
614		BV	2688	Release BIF S4P EG Jobs for Process Chains according to old ERP scheduling	Analytics & BV	Juha Kuokkanen	Kemira	22.5.23 0.30	15 mins?	22.5.23 0.45													
615		S4P.100	2862	MIDM Forms: connect S4P to SLP (enable S4P Forms)	MID BP	Jukka Ketelaars	Kemira	22.5.23 0.30	30 mins	22.5.23 1.00													
616				Change number range (3T) for service request	Technical	Xuebo Yu	Kemira	22.5.23 0.30	30 mins	22.5.23 1.00													
617		SLP.100	3198	Switch from defect management to incident management with number range (1T)	Technical	Xuebo Yu	Kemira	22.5.23 0.30	30 mins	22.5.23 1.00													
618				Disable FFC connections on GRP ("ERPCLNT100" "ERP-100")	Authorization	Hitesh Gupta	Atos	22.5.23 0.30	15 mins	22.5.23 0.45													
619		3273	3274	Turn on SAP-synchronization	Outsystems	Karol Kruger	Kemira	22.5.23 0.30	10 mins	22.5.23 0.40													
620		3249	3285	Set up connections to S4P IP address	Outsystems	Karol Kruger	Kemira	22.5.23 0.30	10 mins	22.5.23 0.40													
621				Upload new private key for SSO	Outsystems	Karol Kruger	Kemira	22.5.23 0.30	30 mins	22.5.23 1.00													
622				Release of background jobs according to separate list provided by Kemira (Johanna)	Tietoevry	Martin-Jaana	Tietoevry	22.5.23 0.30	360 mins?	22.5.23 6.30													
623				Send S4P password and system details to external users based on the list in Teams	Authorization	Chris Jin	Kemira	22.5.23 0.30	30 mins	22.5.23 1.00													
624		ERP	2729	Unlock ERP users after go-live decision	Atos	Hitesh Gupta	Atos	22.5.23 0.30	30 mins	22.5.23 1.00													
625				Guy to open TMS gateways for sending freight invoices	Odyssey	Guy Fontaine	Odyssey	22.5.23 0.30	15 mins	22.5.23 0.45													
626		S4P.100	2695	Unlock dialog users	Tietoevry	Pasi Einemaki	Tietoevry	22.5.23 0.30	30 mins	22.5.23 1.00													
627	85	3270	3249	apps.kemira.com integration with Proflow S4-servers Execute connectivity test	Outsystems	Karol Kruger	Kemira	22.5.23 0.40	60 mins	22.5.23 1.40													
628	74		3273	Perform synchronization between S4P and apps.kemira.com	Outsystems	Karol Kruger	Kemira	22.5.23 0.40	315 mins?	22.5.23 5.55													
629			2443	Release test plan: LEAP_FPROD_IT DATA	Testing	Xuebo Yu	Kemira	22.5.23 1.00	15 mins	22.5.23 1.15													
630				3491 12 - Post Go-live				22.5.23 1.40	56600 mins?	30.6.23 9.00													
631	49	3268	3270	Activate Outsystems technical users	Outsystems	Karol Kruger	Kemira	22.5.23 1.40	30 mins	22.5.23 2.10													

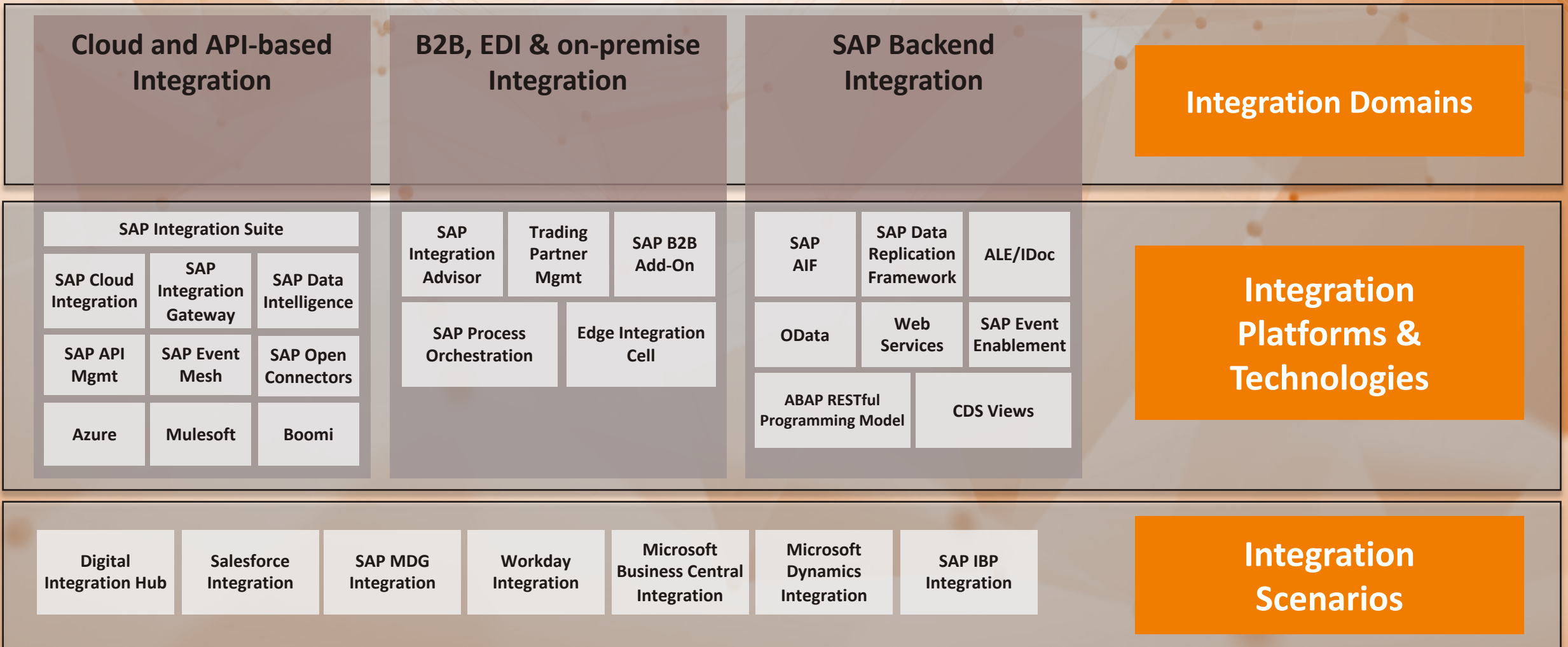




cbs Integration Suite Uplift

Enterprise Integration – Consulting & Implementation Expertise

Areas of Expertise



Enterprise Integration – Global Delivery

International consulting around the world

Global Projects & Rollouts



USA

cbs Americas

Germany

Switzerland

Spain

Finland

Austria

Croatia

cbs EMEA

Flexible Delivery Model



Japan

cbs APAC

Large Scale Implementations

- > 1,500 interfaces
- > 500 EDI partners

Malaysia

Singapore

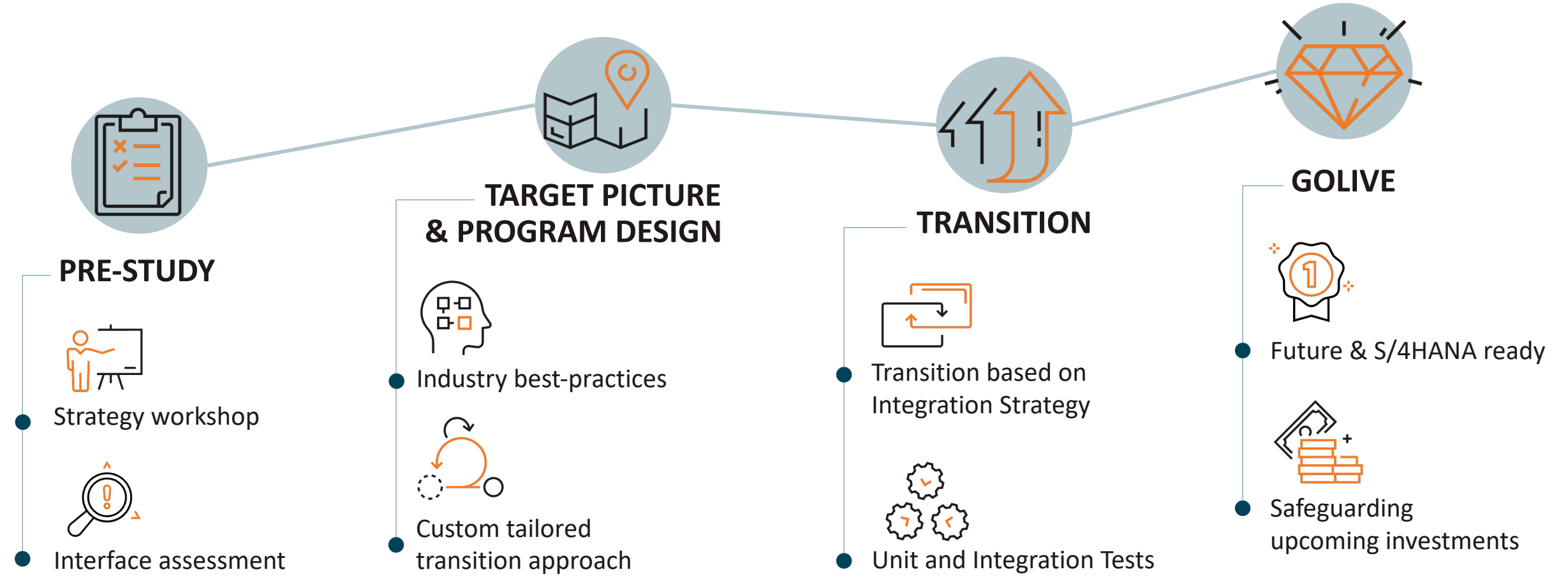
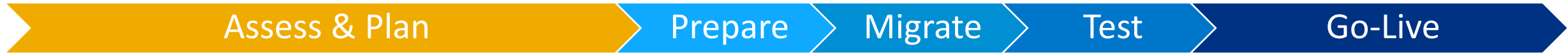
115+

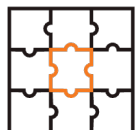
Customers in 2022

170+


Integration Projects in 2022

Integration Suite Uplift



 cbs ready-to-use transition modules

 Holistic view on end-to-end processes

 Ongoing enablement

Modules



In-Depth Analysis Criteria



Mapping Type

Graphical, XSLT, Java, (ABAP)

Graphical Mapping

UDFs (no / only local / FLs)
Lookups
Mapping Parameter
Value Mapping Groups
Dynamic Configuration

XSLT

Custom JAVA functions
Use of SAP XML Toolkit
Value Mapping Groups
Dynamic Configuration

Mapping Technologies



Unsupported Adapters

3rd party, RFC sender, Axis,
RNIF / Marketplace
B2B Add-On: OFTP2, X.400

File Adapter

Access local NFS shares
File content conversion

Usage of Adapter Modules

Archiving

B2B ArchiverModule, custom
module, AS2, etc.

Adapters



B2B

EOIO

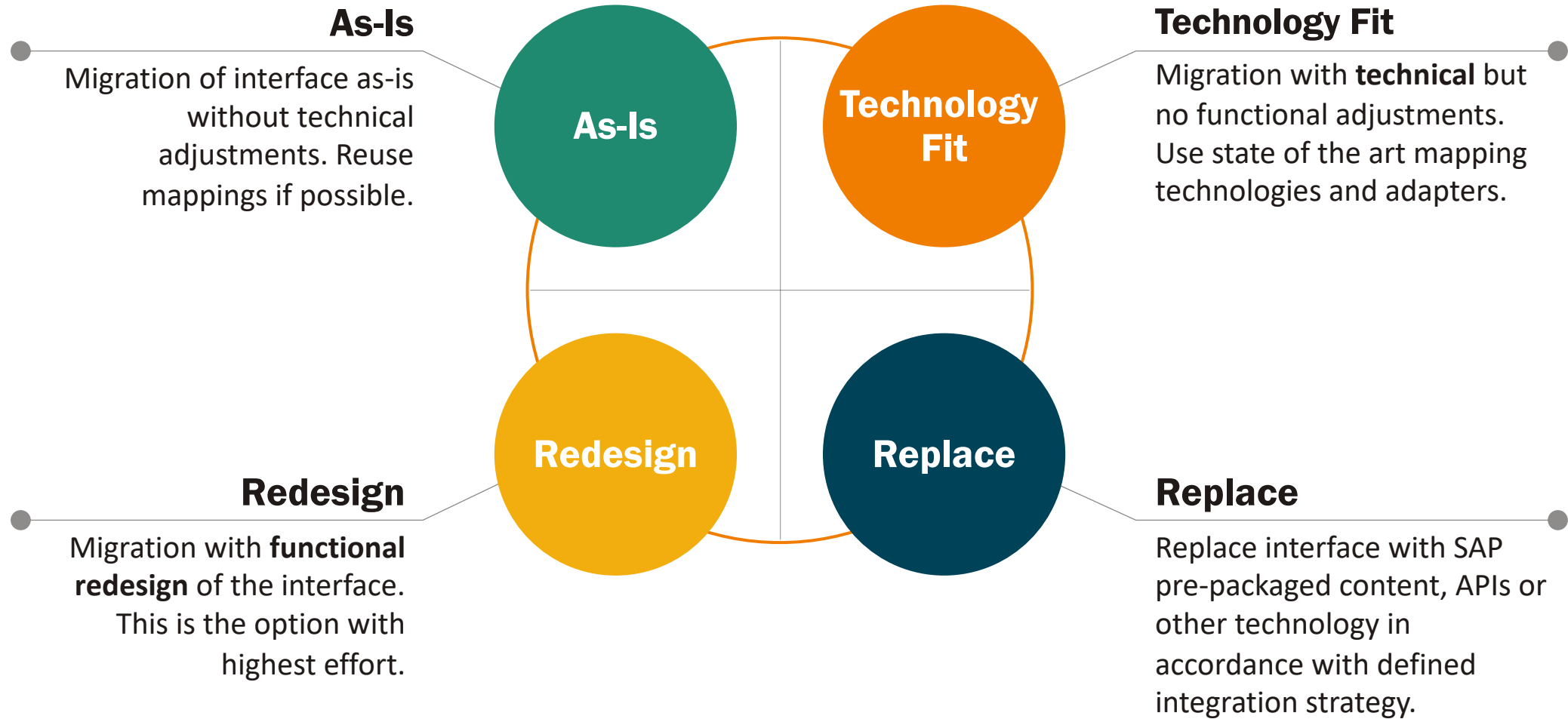
BPM

Custom Monitoring Solutions










Custom Add-Ons

Misc

Migration Approaches (1/2)



Example Assessment Result

					
Cluster	# of Interfaces	Complexity	Migration Approach	Recommendation	Effort (days)
Customs	20		As-Is / Technology Fit		5
SuccessFactors	20		Replace / Technology Fit	<ul style="list-style-type: none"> • Replace with standard content • Use SuccessFactors adapter for custom interfaces 	32
Salesforce	18		Redesign	<ul style="list-style-type: none"> • Use of CPI Salesforce adapter • Redesign interfaces – use event-based integration 	50
B2B Partners	45		Technology Fit / Redesign	<ul style="list-style-type: none"> • Postpone migration to Q3/2023 • Do not migrate interfaces (X.400 adapter) 	87

***Detailed estimation per interface in interface list*



Integration Suite @ Kemira

ASSESSMENT & STRATEGY

Pre-Study

- Integration Assessment
- Target Landscape Definition
- Project Plan for Transition to SAP Integration Suite
- Integration Guidelines & Best Practices
- S/4HANA Readiness Analysis

Customer Facts

Chemical

3,659 bn

5.062

Industry

Revenue

Employees

The Kemira logo is displayed in a blue, lowercase sans-serif font within a light gray rectangular box.

KEMIRA

cbs conducted a comprehensive assessment of Kemira's interface landscape in 2021, with the goal of defining a future target landscape and planning the transition steps.

The assessment included an analysis of interfaces based on SAP Process Orchestration (PO) and S/4HANA readiness.

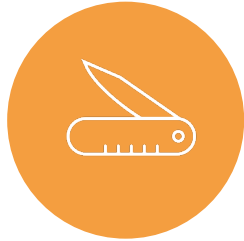
The outcomes of the assessment were a detailed integration and API strategy following the ISA-M approach, a migration project plan, and an API roadmap.

Interface Assessment & Strategy



1

Identify integration domains & use-cases



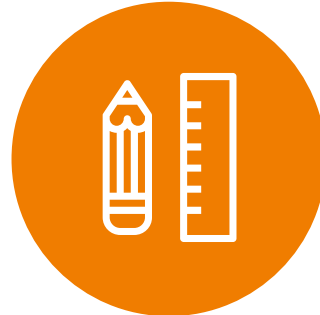
2

Define technologies to be used



3

Define integration guidelines



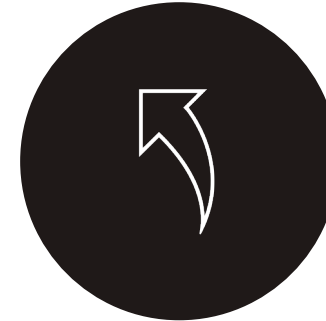
4

Define API guidelines & roadmap



5

Blueprint key integrations



6

Define migration approaches & roadmap

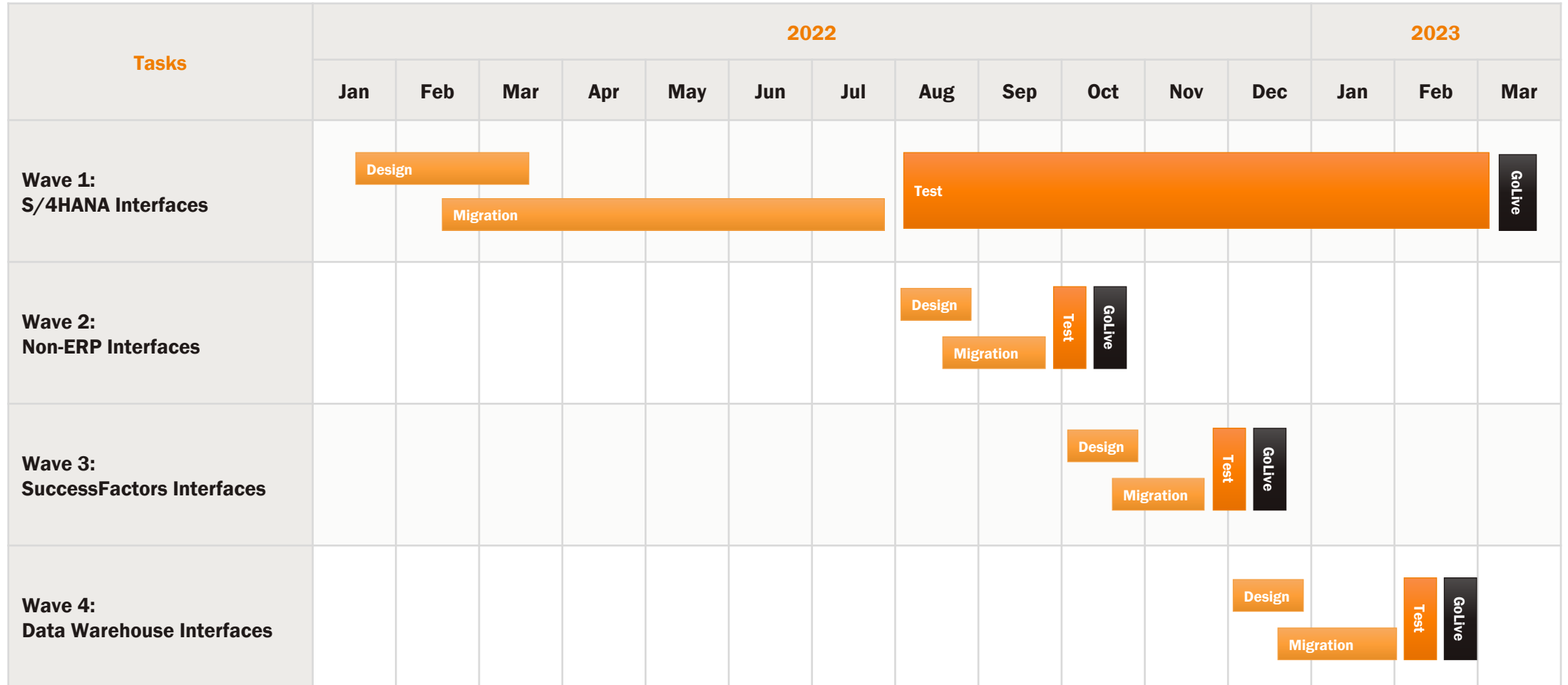


7

Define project plan for migration

S/4HANA Transition

Project Example: Assessment – Migration Project Plan



INTERFACE MIGRATION

Transition to SAP Integration Suite

- Migration of >350 interfaces from SAP PO 7.5 to SAP Integration Suite
- Scope included complex interfaces in the areas of logistics, SWIFT and HR data
- Usage of SAP API Management for all inbound scenarios
- Multiple integration test phases ensured reliability

Customer Facts

Chemical

3,659 bn

5.062

Industry

Revenue

Employees



KEMIRA

In January 2022, Kemira and cbs embarked on a substantial S/4 transformation program, simultaneously migrating over 350 interfaces from SAP PO 7.5 to SAP Integration Suite.

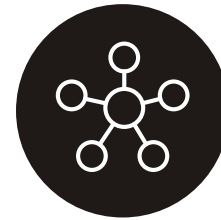
The project encompassed complex interfaces for logistics, SWIFT, and HR data, while employing SAP API Management for all inbound scenarios. The use of interface and policy templates significantly minimized development and maintenance efforts.

“Successful big bang go-live as part of S/4HANA go-live. Amazing smooth and invisible switch to Integration Suite.”

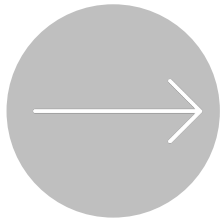
Project Example: Migration – Project-Specific Guidelines



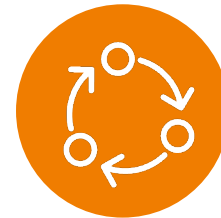
Separate Routing and Mapping Flows



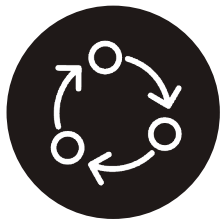
Reuse XSLT mappings where possible, adjust where necessary



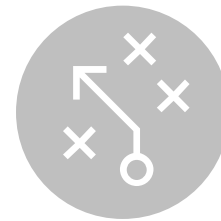
Transfer Java mappings to groovy scripts



Replace NFS shares with SFTP servers or Azure FileREST API-based access



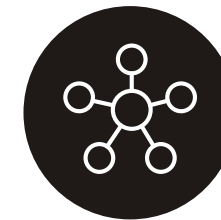
Replace RFC lookups with CDS View calls or OData services



Use API-Management for all inbound communication



Simplification & merge of Interfaces



Implementation of custom SWIFT solution

363

Interfaces Migrated

400

CI Interfaces in Production

1,400,000

Messages a week

10

Consultants for Integration involved

15

Months timeline

650,000

API Calls a month

70

Inbound APIs

65

Applications connected

~1,234,678

Sandwiches consumed during Go/Live



cbs Best Practices & Tools

cbs Best Practice

Category	Case	Problem	Solution 1	Solution 2
Adapter	RFC sender channel in use	no RFC sender channel available in CPI. On the roadmap for Edge Integration Cell.	Set up a ABAP Proxy service in the backend to replace the RFC call	Set up a ODATA/SOA service in the backend to replace the RFC call
Lookups	RFC Lookups in mappings are used	no rfc lookup available in the message mapping on Cloud Integration	Lookup is not possible in a mapping and has to be done before Replace the rfc lookup with additional CPI call to a backend CDS views/OData service	Lookup is not possible in a mapping and has to be done before Reuse the rfc lookup with a Request-Reply step
Adanpter	Adanpter modules are used	PO adanpter modules are not	Migrate the functionality with CPI standard	Build a custom adanpter in CPI

We have collected best practice solutions for common migration challenges from different projects.

Overview [Artifacts \(14\)](#) [Documents \(2\)](#) [Tags](#) [Comments](#)

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	TBX-AddAttachment Add Attachment with Content Modifier Created	Integration Flow
<input type="checkbox"/>	TBX-Correlate Messages Correlate 2 Messages based on ID Created	Integration Flow
<input type="checkbox"/>	TBX-General Alert Handler Global Mail AlertHandler Created	Integration Flow
<input type="checkbox"/>	TBX-General IDoc Handler Created	Integration Flow
<input type="checkbox"/>	TBX-Get Attachment with Groovy Script Get first attachment w/ Groovy Script. Pass message if no attachment Created	Integration Flow
<input type="checkbox"/>	TBX-IDoc Router Generic Idoc Routing Flow Created	Integration Flow

Tools & Templates

Partnerships for Test Automation & Analysis

INT4: INT4 Suite (IFTT), INT4 SHIELD

- Interface Testing
- Reference: Puma



Figaf: Figaf Testing Tool

- Interface Testing
- Reference: Kemira



Arianim: UDO for SAP PI/PO

- Analysis of existing PI/PO artifacts
- Reference: Amcor Flexibles



cbs Toolbox

Templates

- T-Shirt Size Estimation Model, Status Tracking
- Interface Documentation

Testing

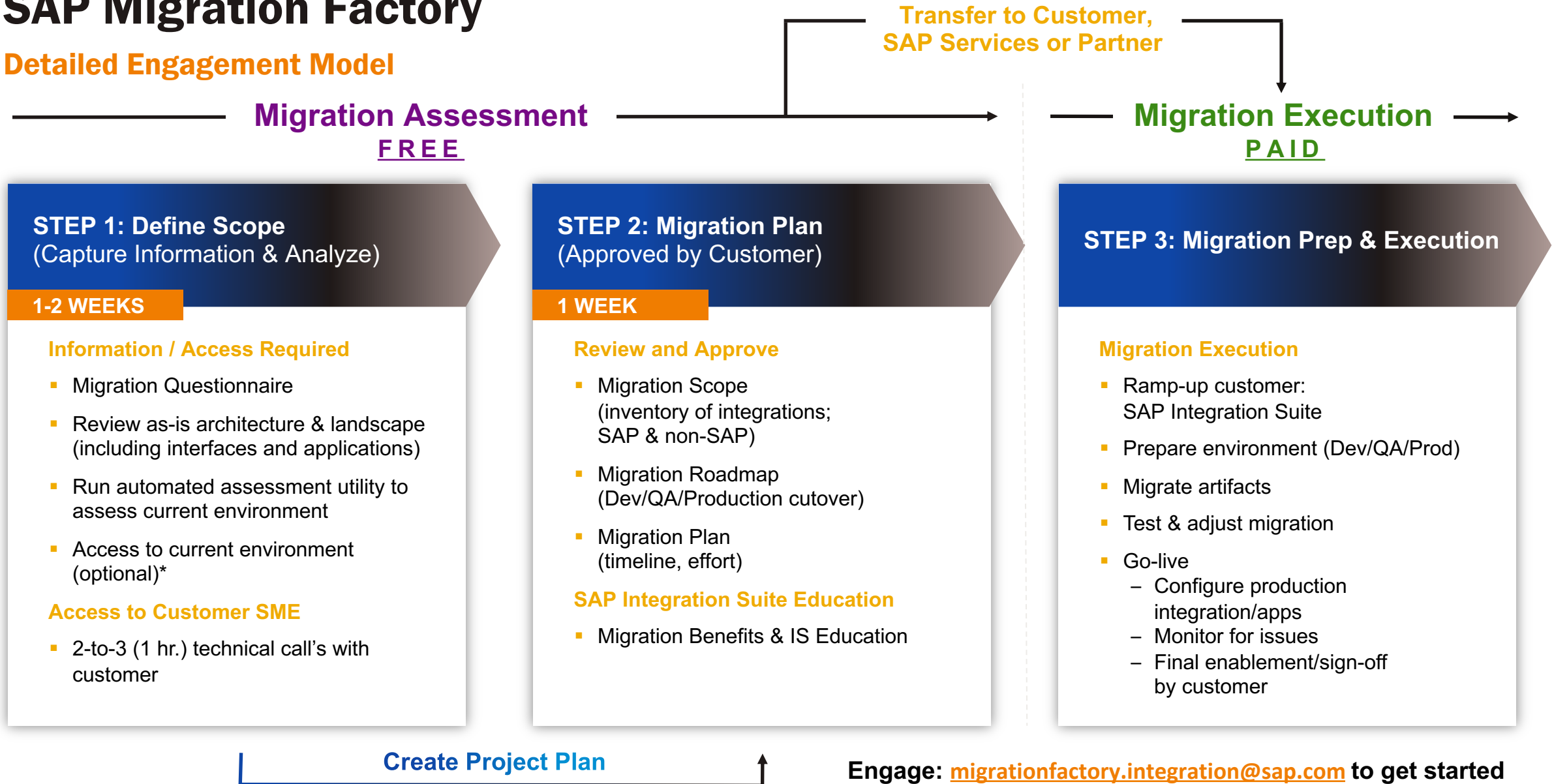
- cbs Message Downloader (for PI/PO)
- cbs Message Compare

Accelerators

- IDoc Router
- Function Libraries
- Templates Alerting & Exception Handling

SAP Migration Factory

Detailed Engagement Model



LEAP S4/HANA Program

We delivered a world-class project in record time with numerous innovations that were well-targeted and implemented. The professionalism and insider knowledge of cbs in S/4, finance, data, and integration played a vital role. The consultants' expertise perfectly complemented Kemira's knowledge.

TARAS PODBEREZYJ – CIO