

Integration Suite **Uplift**

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

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Senior Manager



Intro



Markus Mueller (North America)

Senior Manager

12+ years SAP expertise

*Head of Technology cbs North America
(Enterprise Integration, Cloud
Technology, Basis, Development)*



- › Introduction cbs & Special Expertise Enterprise Integration
- › cbs Integration Suite Uplift
- › cbs Best Practices & Tools
- › Project Example: Kemira
- › Summary
- › Q&A

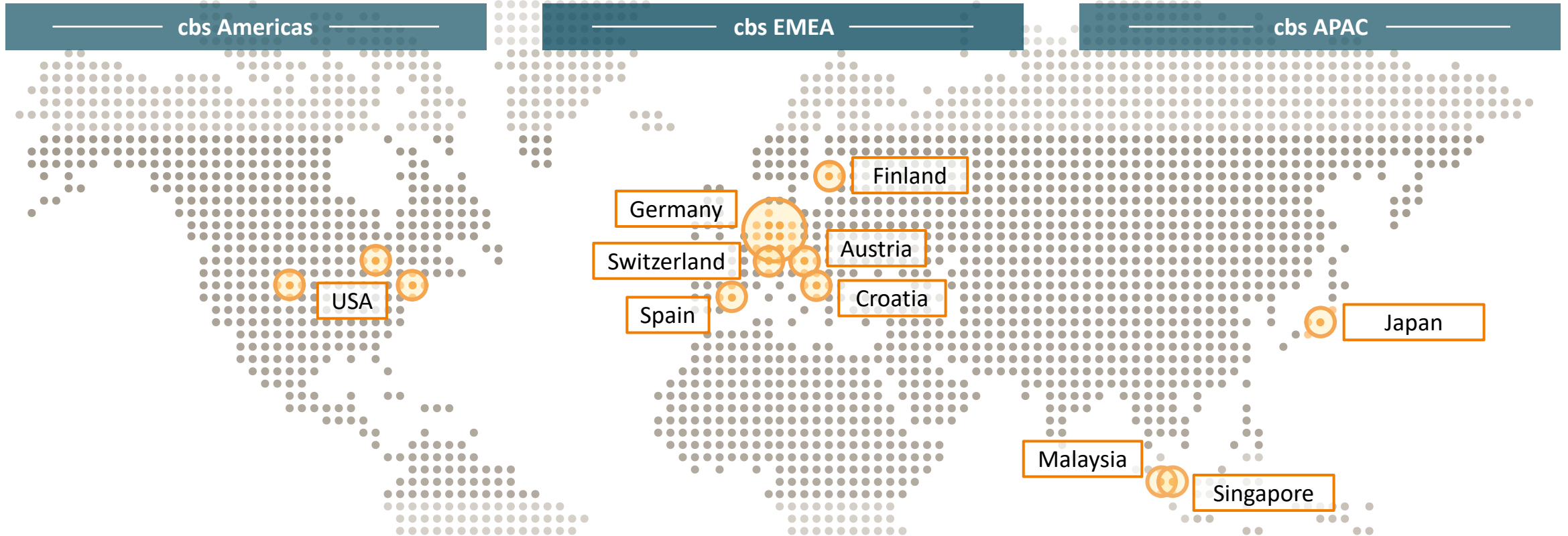




Introduction cbs & Special Expertise Enterprise Integration

Corporate Business Solutions – ONE Global Consulting Company

International consulting around the world



300

Active
International Customers

1,300

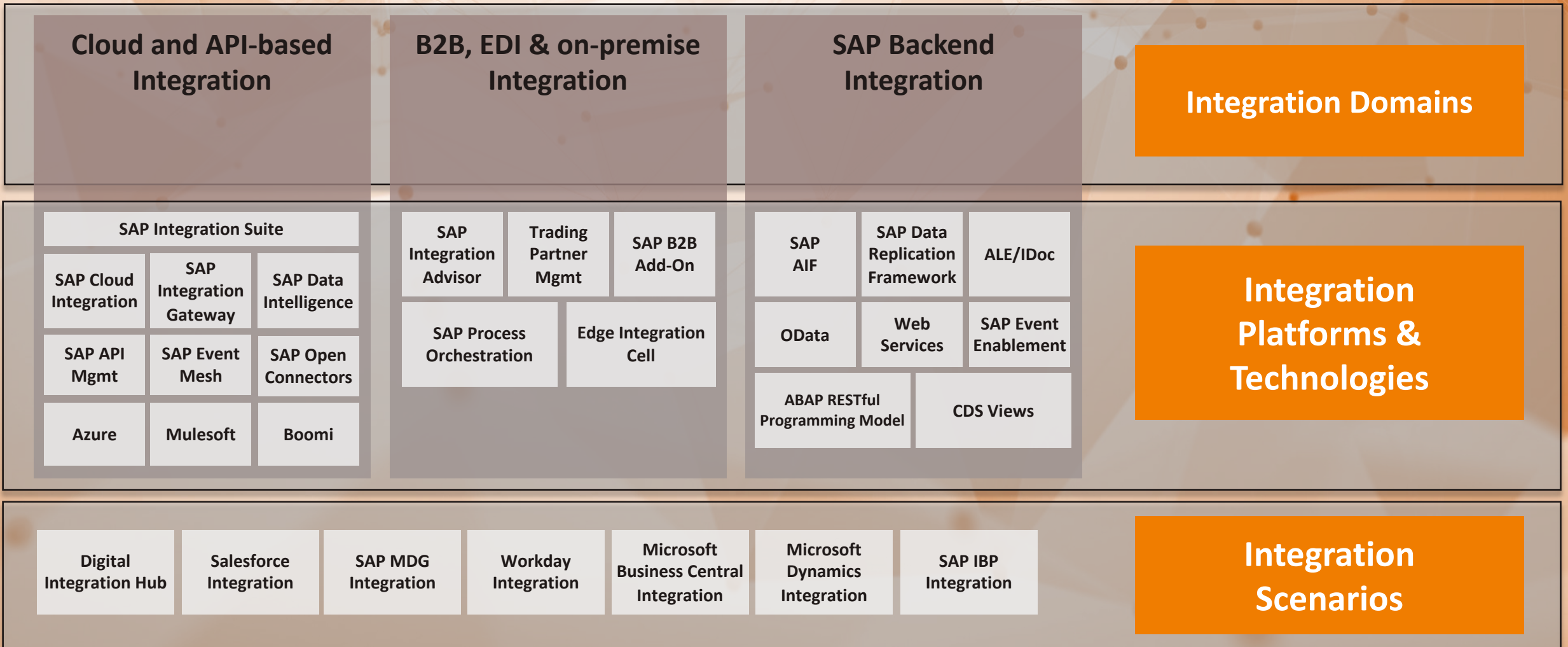
Employees
Q3 2023

25+

International
Offices

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



cbs APAC

Japan

Malaysia

Singapore

Large Scale Implementations

- > 1,500 interfaces
- > 500 EDI partners

115+

Customers in 2022

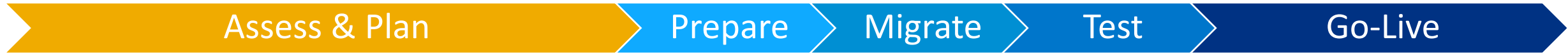
170+

Integration Projects in 2022



cbs Integration Suite Uplift

Integration Suite Uplift by cbs



PRE-STUDY



Strategy workshop



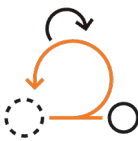
Interface assessment



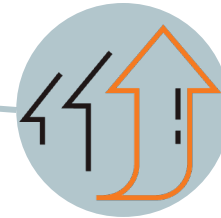
TARGET PICTURE & PROGRAM DESIGN



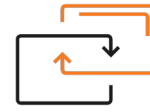
Industry best-practices



Custom tailored transition approach



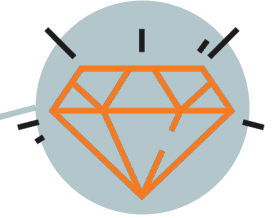
TRANSITION



Transition based on Integration Strategy



Unit and Integration Tests



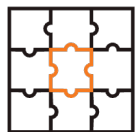
GOLIVE



Future & S/4HANA ready



Safeguarding upcoming investments



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

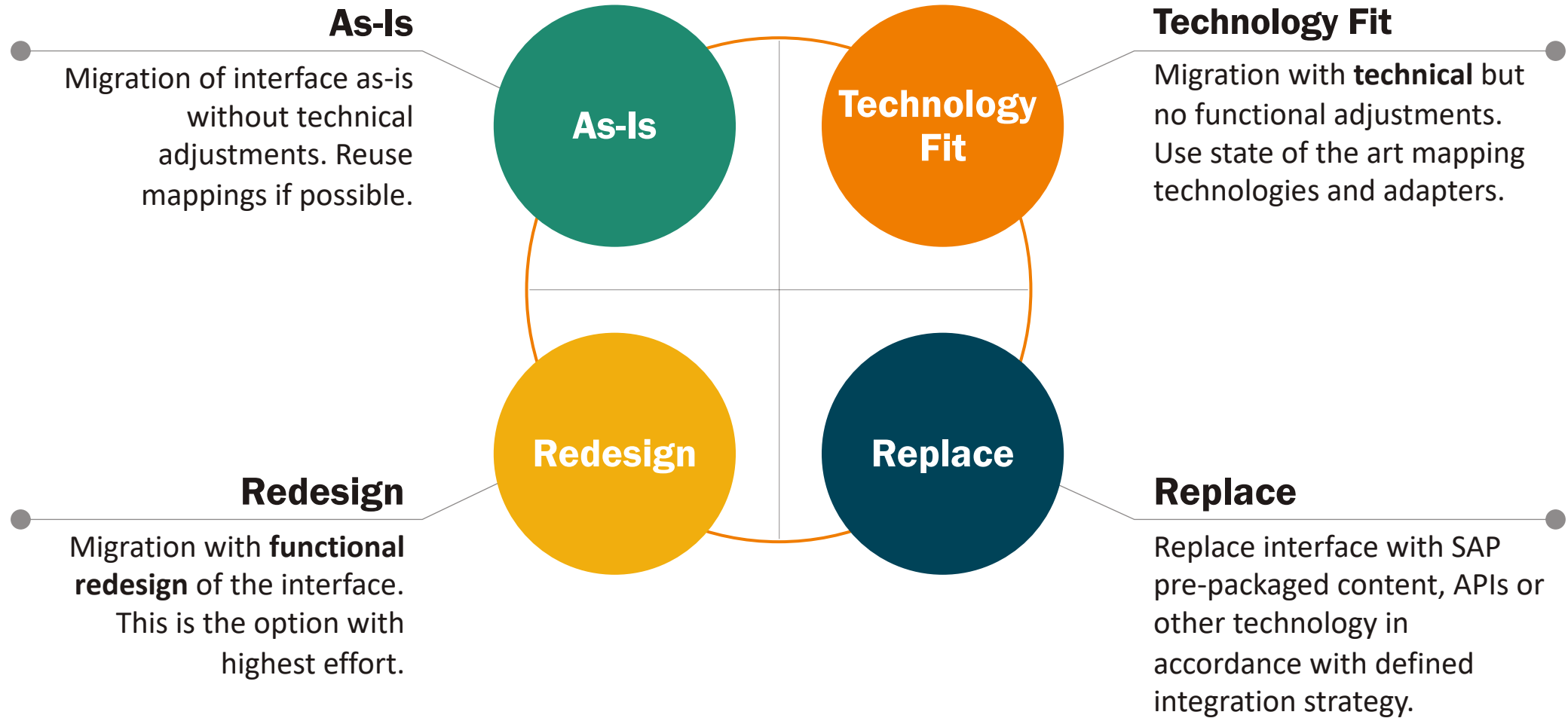
BPM

Custom Monitoring Solutions





Custom Add-Ons

Misc

Migration Approaches (1/2)



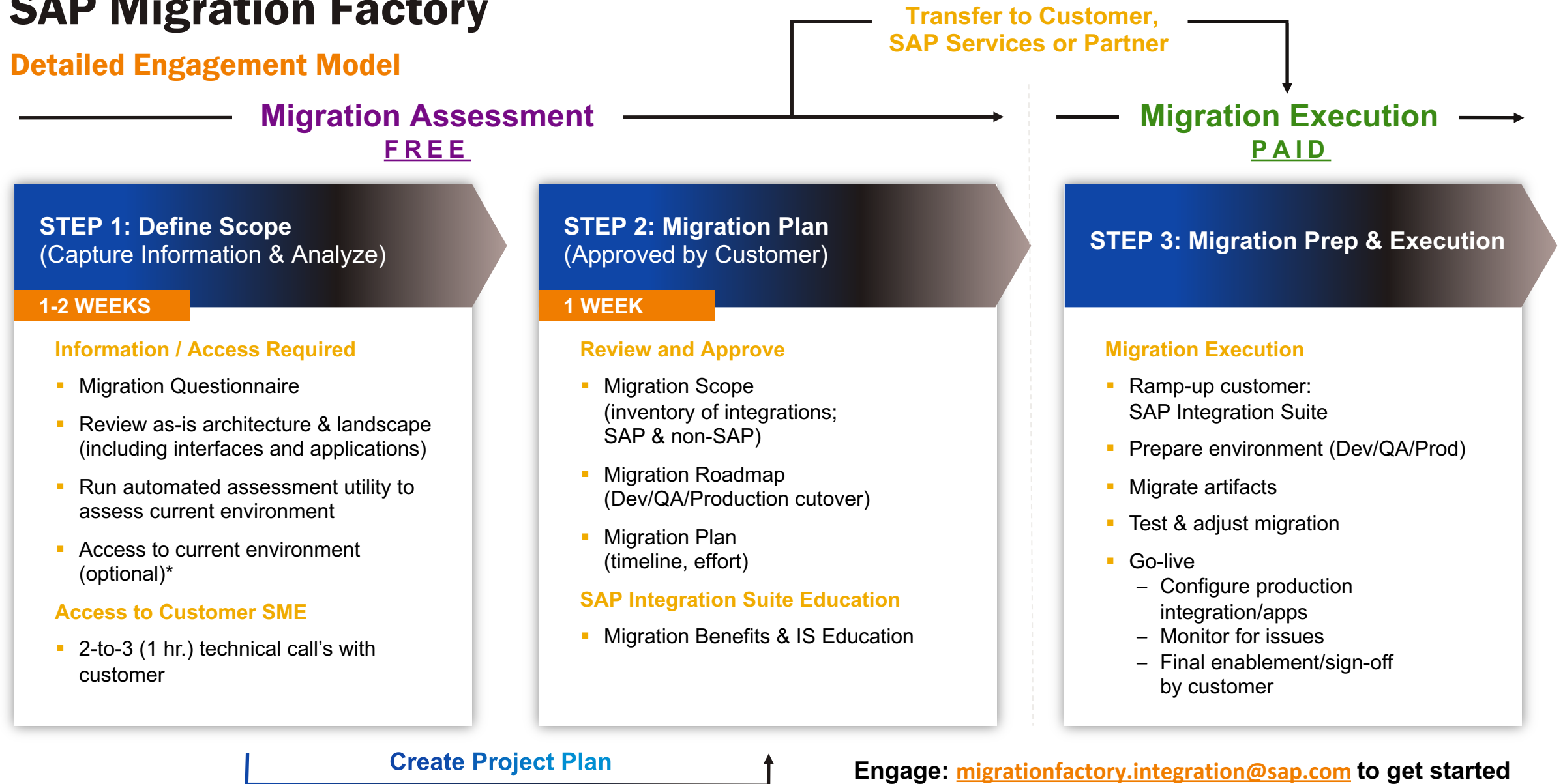
Example Assessment Result

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*

SAP Migration Factory

Detailed Engagement Model





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



Project Example: Kemira Oyj

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

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 logo for Kemira, featuring the word "kemira" in a lowercase, blue, sans-serif font.

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.

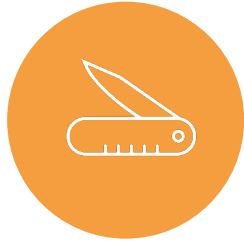
The outcomes of the assessment were a detailed integration and API strategy following the ISA-M approach, a migration project plan, and an API roadmap.

Interface Assessment & Strategy



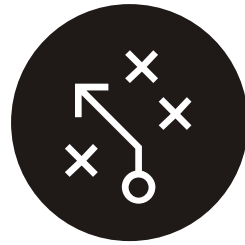
1

Identify integration domains & use-cases



2

Define technologies to be used



3

Define integration guidelines



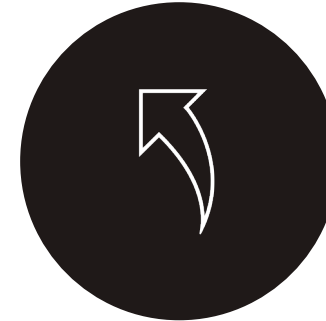
4

Define API guidelines & roadmap



5

Blueprint key integrations



6

Define migration approaches & roadmap

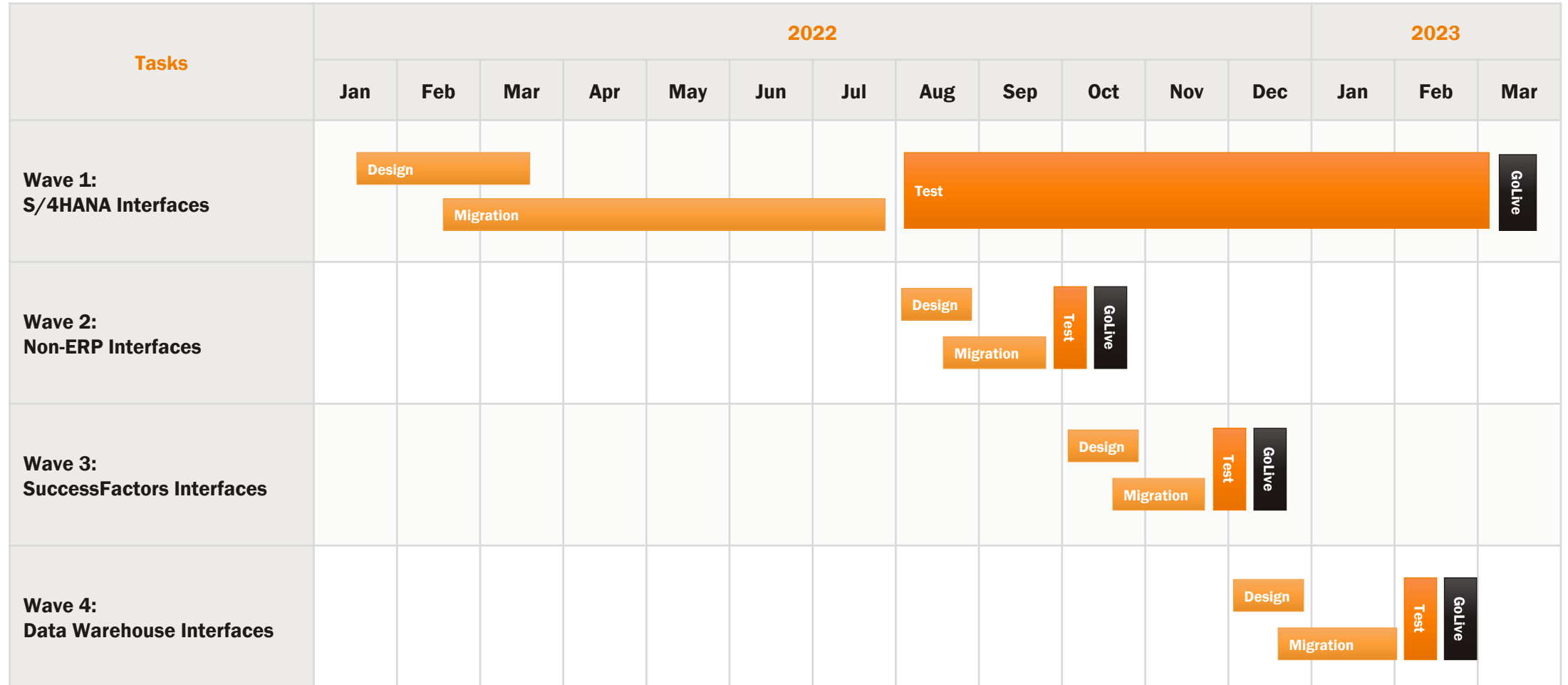


7

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

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3,659 bn
Revenue

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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.

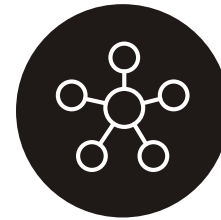
The project encompassed complex interfaces for logistics, SWIFT, and HR data, while employing SAP API Management for all inbound scenarios. The use of interface and policy templates significantly minimized development and maintenance efforts.

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

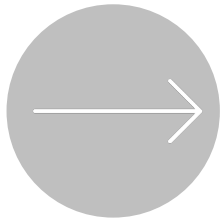
Project Example: Migration – Project-Specific Guidelines



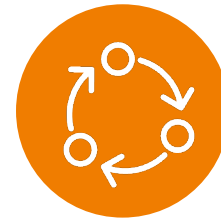
Separate Routing and Mapping Flows



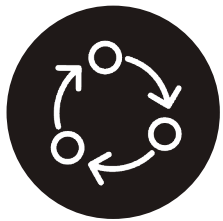
Reuse XSLT mappings where possible, adjust where necessary



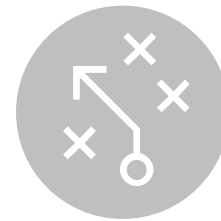
Transfer Java mappings to groovy scripts



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



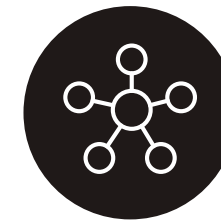
Replace RFC lookups with CDS View calls or OData services



Use API-Management for all inbound communication



Simplification & merge of Interfaces



Implementation of custom SWIFT solution



Summary

Key Takeaways

By making the upgrade now, Kemira chooses to be a pioneer compared to competitors and by doing so creates a springboard for further improvements.

Migration and Implementation Experience

- Any size migrations – from small to large scale
- Large scale implementations
- A2A, B2B, EDI, Salesforce, C/4HANA, ServiceNow, Microsoft Dynamics, etc.
- Coverage of all Integration Suite capabilities: Cloud Integration, Integration Advisor, API Management, Open Connectors, Event Mesh

cbs Best Practices

- Proven methodology & tools
- Extensive set of templates and accelerators
- Constant extension and feedback from implementation projects

Partnerships

- Close partnership with SAP (product management SAP Integration Suite, SAP user groups)
- Existing and long-term collaboration: INT4, Figaf, Arianim

Delivery

- Global delivery capability
- Focus on quality, enabler approach and long-term partnership with customers