

# SAP S/4HANA Technical Upgrade

Enable Innovations and Business growth

 ASUG



**Shawn Rajaputra**

Client Partner  
**Kellton**



**Leanne Washington**

IT Business Systems Manager  
**Momentive Technologies**



**Ruby Bahl**


Senior SAP - FICO Lead  
**Momentive Technologies**




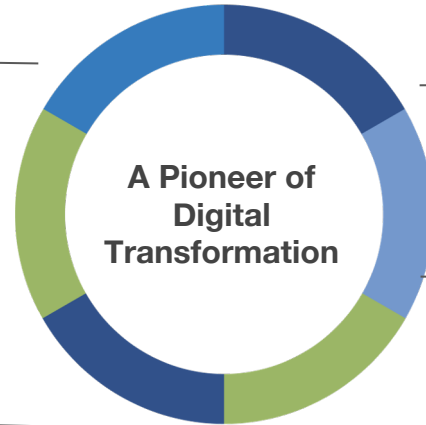
**Dr. Srinivas Bandi**

SVP & Global Head-SAP  
**Kellton**


 **Founded**  
2009

 **Team**  
1800+ employees


 **Clients**  
Startups to Fortune 500



**Agility with Stability**

 **Core Strength**  
People and Technology ISO 9001:2015 & CMMi Level 5

 **Ownership**  
Public Limited BSE, NSE: KELLTOTEC

 **Footprints**  
USA, UK, Ireland, Asia Pacific

- 13+ Years of SAP Experience
- Early Implementors of SAP S/4HANA



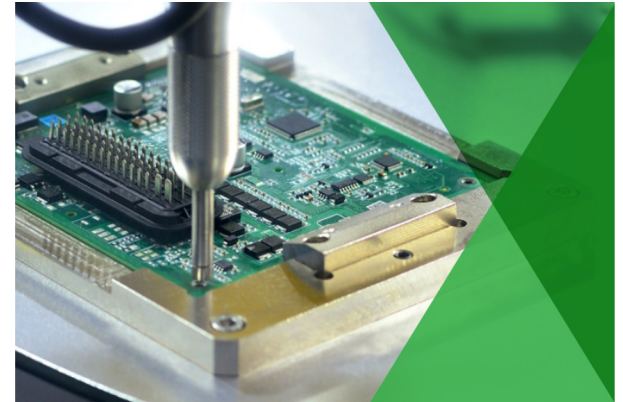
**SAP**® Certified  
Partner Center of Expertise

**RISE WITH SAP** | Driving Business Innovation Together

# MOMENTIVE TECHNOLOGIES

Purity That Inspires Progress

- Nearly 75-year legacy of innovation
- As a world leader in quartz and ceramic technologies, our unrivaled ability to supply custom material solutions at scale to the highest standards of quality allows our customers to push the leading edge of what's possible.
- Together, we (Momentive Technologies and Our Customers) are reshaping the world.
- 2020—Momentive Technologies separated from Momentive Performance Materials as a stand-alone company





Agenda

# Technical UPGRADE OF S/4HANA 1909-2022

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## Why Upgrade and Why Now?

- S/4HANA 1909 Mainstream support (ends in Dec 2024), prevent additional annual maintenance cost
- Prepare for Roll outs/acquisitions
- Upgrade before the planned Japan Roll out in late 2023 helps to reduce additional test cycles and change management efforts for the new entity which is moving from ECC to S/4HANA
- Innovations and enhancements can be leveraged for both existing and new entities going forward with lower efforts and testing

## Why Technical Upgrade?

- Minimal Business Disruption
- Quick upgrade cycle without major impact to business processes
- Adopt mandatory changes
- Support phased innovations along with roll outs

## Key Challenges

- Manage the standards and minimize the customization, development and integration
- Global operations, country dependencies
- Tight timelines due to planned projects
- Limited business stakeholder availability for testing

## Project Highlights

- Robust planning & preparation, impact and dependency analysis
- Rapid execution (11 weeks)
- Four upgrade cycles to minimize impact (SBX, DEV, QAS, PRD)
- Retrofit process to reduce Production support impact
- Low code freeze duration
- Robust cutover planning and execution
- Leveraged Kellton Support team for faster adaptation & resolution

## Customer Benefits

- On-time, on-budget execution- BAU
- High customer satisfaction
- Ready for functional upgrade and innovations
- Transparent to the end user
- Enabled enhanced features
  - Output Management
  - New Fiori apps / analytical apps
  - Custom analytical queries for faster reporting with lower effort
  - New functionality in lieu of deprecated transactions and reports

## Tools & Process



## Key Highlights

### Accelerated Upgrade

- Technical Upgrade to S/4HANA 2022
- Leveraged SAP ACTIVATE Methodology
- 11 Weeks execution plan
- Thorough Planning & Analysis upfront
- Thorough preparation and pre-upgrade impact analysis
- Three test cycles – Unit Test, SIT and UAT
- Robust cutover planning and simulation to optimize downtime and global go-live

### Best Practice Assessment

- Thorough analysis of pre-requisites and dependencies
- Technical Compatibility – Identified mandatory Add-on upgrade of OpenText VIM
- Readiness Check – Simplification Items, Deprecated features, relevant Fiori Lighthouse Apps
- Proactive System Sizing and capacity planning including S/4HANA and PO
- Pre-evaluation in Sandbox

### AWS Rapid Deployment

- Rapid deployment of additional instances – Additional Sandbox and Dual Landscape (Support DEV & QA) within hours
- Above additional instances deployed on-demand for project duration to limit infra costs without upfront investments
- Quick ramp up and ramp down of temporary additional capacity required for the upgrade
- Additional non-Prod systems with scheduled start/stop for cost reduction



## Key Highlights

### Custom Code & Interfaces

- Analysis of incompatible Custom Code – Minimal impact
- Opportunity to optimize post stabilization
- Candidates to bring back to SAP standard

### Dual Maintenance

- Parallel maintenance to support critical Production fixes
- Streamlined Retrofit of Production (1909) fixes into upgrade until start of UAT
- Restricted support for nice to have and cosmetic changes in 1909 Support system

### VIM Upgrade

- OpenText VIM (addon) upgrade to 22.4 was mandatory as VIM 16.7 is not compatible with S/4HANA 2022
- Two step upgrade had to be performed.
- To avoid major changes in VIM configuration and architecture, external OCR process had to be retained
- New “Lifecycle Report” in VIM 22.4 provides the users with a holistic view of the Invoice processing lifecycle

# MOMENTIVE TECHNOLOGIES UPGRADE PROJECT LIFECYCLE



**December 2022**

**January 2023**

**13<sup>th</sup> February 2023**

**20<sup>th</sup> March 2023**

**17<sup>th</sup> April 2023**

**5<sup>th</sup> May 2023**

Technical Upgrade Planning

Upgrade Preparation

Technical Upgrade Kickoff

SIT/UAT

S/4HANA 2022 Upgrade Go Live

Hypercare Ended

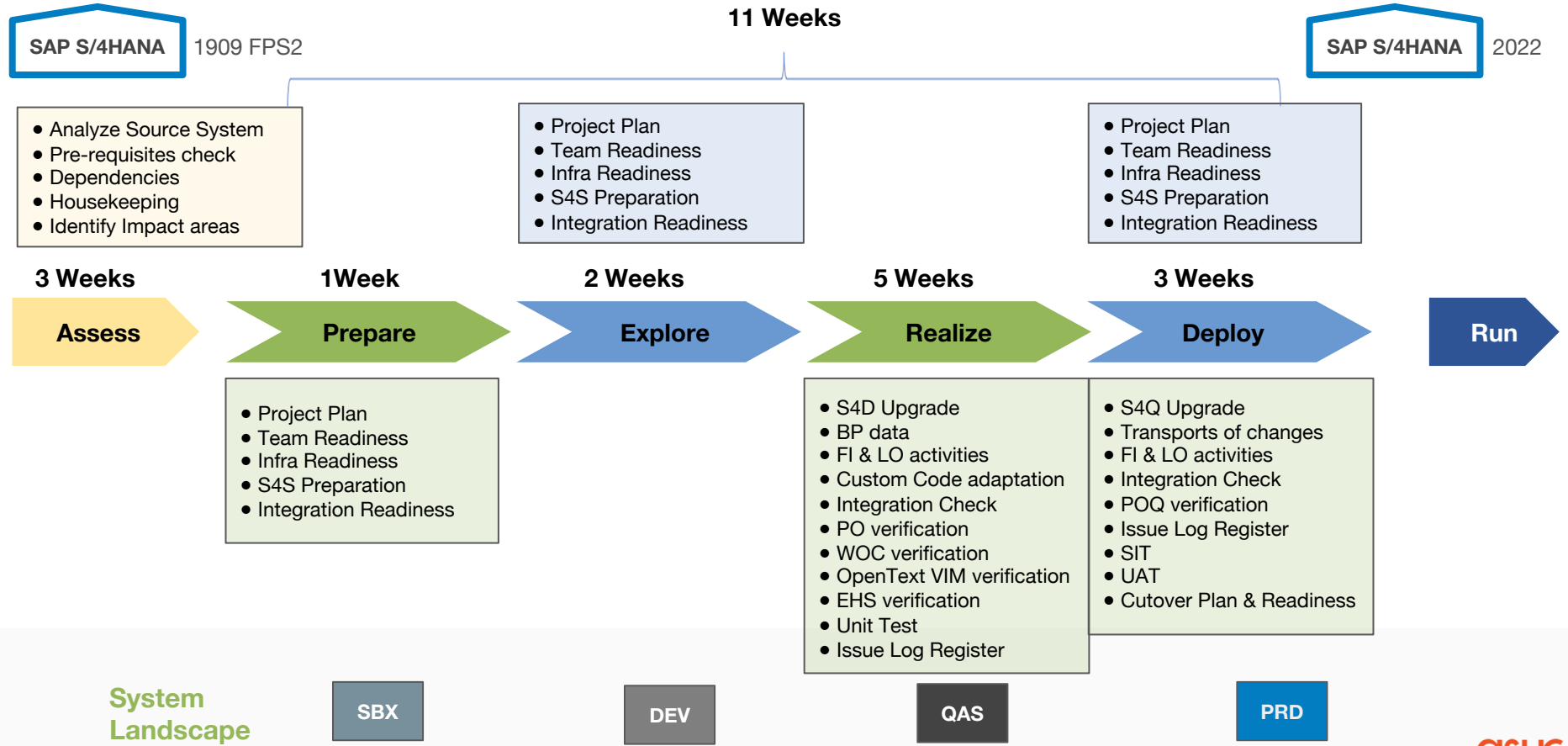
- Accelerated Upgrade to S/4HANA 2022
- AWS Rapid Deployment & Scaling

- Best Practice Assessment & Planning
- Dual Landscape maintenance/Retrofit

- Custom Code & Integration Adaptation
- Mandatory OpenText VIM Upgrade

**Entire Project was Delivered Remotely (Offshore Model)**

# S/4HANA TECHNICAL UPGRADE – APPROACH & TIMELINE



# UPGRADE - KEY PLANNING & PREPARATION AREAS

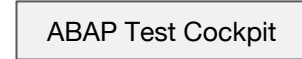
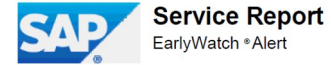
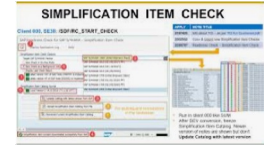
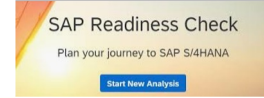
## Technical

- Hardware
- Compatibility
- Custom Code & Integration
- Application Components
- UI Adoption

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## Application

- Simplification Check
- Custom Code impact and adaptation
- Customizing & Business Process changes
- Obsolete Components / Compatibility Packs
- Testing requirements



## Fiori Apps Library



## Recommended Fiori Apps :

Lighthouse apps are pre-built, ready to run Fiori apps based on Best Practice UX scenarios. Readiness Check provides the apps which are relevant based on customer system configuration and functions used.

General Indicators	Values
Total Number of SAP Fiori Lighthouse Apps	73
Total number of SAP Fiori Apps	1208
Total Number of SAP Fiori Theme Classic UI Apps	154

SAP Module / LoB	Number of SAP Fiori Apps
Finance	12
Funds Management	3
Inventory Management	9
Logistics Execution	1
Manufacturing	6
Quality Management	13
Environment Health & Safety	3
Sales	14
Sourcing & Procurement	9
Treasury Management	3

- New apps and improvements in existing apps e.g. Balance Sheet / Income Statement – Multidimensional Fiori App, Cost Analysis and Query designing , as all the Design studio apps got deprecated from SAP S/4HANA 2021 release.
- Custom Analytical queries functionality was used exhaustively for their day-to-day reporting needs with minimal effort.
- Output Management: E-Mail Services are used for designing the email template functionality for Credit Workflow
- Flexible Workflow functionality for Purchase Requests was implemented that allows to define one-step or multi-step condition-based workflow approval processes.
- Alternate Transaction Codes wherein the functionality was deprecated or enhanced with additional details for analysis, change in queries to call up the new reports for better analysis. E.g.: FI Report Painter reports calling new transaction codes
- New “Lifecycle Report” with OpenText VIM 22.4 helped the users to get a better visibility of the invoices in various stages of the processing/approval/rejection etc.

# BALANCE SHEET / INCOME STATEMENT – MULTIDIMENSIONAL FIORI APP

Balance Sheet / Income Statement – Multidimensional Fiori App is used to display balance sheets as well as profit and loss statements for your companies using operational, local, and global charts of accounts. These reports are generated on the fly by analyzing all relevant line items. From these reports, you can also access the line items of a specific G/L account as well as customer and supplier line items.

## Key Features

Depending on your authorizations, you can perform the following tasks:

### Display

- Full balance sheet for multiple company codes
- Full profit and loss statement for multiple company codes
- Specific node of a balance sheet or profit and loss statement
- G/L accounts, profit centers, and segments
- Different currencies
- Zero-balance accounts
- Alternative account numbers
- Time-dependent hierarchies: You can select a key date to display the financial statement version for that date.

### Compare

- Key period with comparison period
- Actual and plan data

# BALANCE SHEET / INCOME STATEMENT – MULTIDIMENSIONAL FIORI APP

## Financial Statement

Variant:  \*Company Code:  \*Ledger:  \*Financial Statement Version:  \*Key Period:   Key Comparison Period:   \*Currency:



Reset

Search

[ALL ACCOUNTS](#) | 
 [BALANCE SHEET](#) | 
 [PROFIT & LOSS](#) | 
 8 [UNASSIGNED ACCOUNTS](#) | 
 [NOTES](#)

Select Node <input type="text"/>		Search <input type="text"/>		Layout Variant: <input type="text"/>	
Description	G/L Account	Period Balance	Comp. Period Balance	Absolute Difference	Relative Difference
ASSETS		877.051.776,01	37.398.206,54	839.653.569,47	2.245,2
Outstanding capital contributions		1.234,00	0,00	1.234,00	0,0
Called		1.234,00	0,00	1.234,00	0,0
Called-up equity contributions	50000	1.234,00	0,00	1.234,00	0,0
Start-up and business expansion expenses		-1.000,00	0,00	-1.000,00	0,0
Acquisition value		-1.000,00	0,00	-1.000,00	0,0
Capitalized start-up costs	55000	-1.000,00	0,00	-1.000,00	0,0
Fixed assets		-8.508,80	0,00	-8.508,80	0,0
Investments		-8.508,80	0,00	-8.508,80	0,0
Investments		32.752,00	0,00	32.752,00	0,0
Investments	43000	32.752,00	0,00	32.752,00	0,0
Other long term investments		-46.400,00	0,00	-46.400,00	0,0
Fixed asset securities (other)	45000	-48.000,00	0,00	-48.000,00	0,0
Bonds	45010	200,00	0,00	200,00	0,0
Stocks	45020	900,00	0,00	900,00	0,0
Shares, foreign companies	45030	500,00	0,00	500,00	0,0
Down payments made on financial assets		5.139,20	0,00	5.139,20	0,0
Down payments made on financial assets	45100	3.139,20	0,00	3.139,20	0,0
Clearing of input tax on down pyts for fin.assets	45110	2.000,00	0,00	2.000,00	0,0
Current assets		838.541.749,80	37.398.206,54	801.143.543,26	2.142,2
Inventories		1.676.192,98	2.207.700,00	-531.507,02	-24,1



# ANALYZE COSTS BY WORK CENTER/OPERATION FIORI APP

- The Fiori app Analyze Costs by Work Center/Operation (F3331) ONLY displays cost information of released production order and process order (Order Category – 10 and 40). The prices of the cost collector orders aren't included. It isn't any error the Fiori App (F3331) and it is designed like that.
- To meet the requirement of the customer created a new Custom Fiori tile by using the below CDS Views.

CMFGORDAPT - Manufacturing Order Actual Plan Target  
Ledger Specific Cost

PFIORDAPTUNV2 - Manufacturing Order Act/Plan/Tgt Ledger  
Specific Cost V2

# SAP S/4HANA TECHNICAL UPGRADE

## Lessons Learnt (Contd.)

Establish Expectation	Functionality Changes	Plan User Testing	Restrict Maintenance	Change Management
<ul style="list-style-type: none"><li>▪ Ensure stakeholders understand the upgrade process</li><li>▪ Obtain necessary time commitments</li><li>▪ Plan Global team dependency and availability</li><li>▪ Utilize necessary management tools</li></ul>	<ul style="list-style-type: none"><li>▪ Educate on Technical vs Functional Upgrade</li><li>▪ Document current processes issues</li><li>▪ Evaluate and plan mandatory application changes</li><li>▪ Avoid parallel releases during upgrade</li></ul>	<ul style="list-style-type: none"><li>▪ Ensure schedule and availability of key IT and global user teams</li><li>▪ Test interfaces early in the Development cycle</li><li>▪ Ensure availability of consistent Test data</li><li>▪ Ensure country specific testing is validated</li></ul>	<ul style="list-style-type: none"><li>▪ Restrict parallel maintenance to only essential and critical changes</li><li>▪ Highlight retrofit and testing procedures</li><li>▪ Avoid fixing known issues needing development</li></ul>	<ul style="list-style-type: none"><li>▪ Deprecated features / New feature replacement</li><li>▪ Screen changes</li><li>▪ Adoption of Fiori apps</li></ul>

- Technical Upgrade of S/4HANA 1909 to 2022 executed in 11 weeks
- Completed on time and within budget
- Minimal disruption to the business
- Unlocked opportunity to leverage new and improved features for roll outs including MT Japan in 2023 and other future business expansions
- Leverage phased roll out of innovations and new Fiori apps for the existing business user community for improved user experience and higher ROI
- SAP on AWS helped rapid deployment of additional project instances and temporary capacity ramp up and ramp down without high upfront investments.



# QUESTIONS?

For questions after this session, contact us at

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# THANK YOU



[www.kellton.com](http://www.kellton.com)



[ask@kellton.com](mailto:ask@kellton.com)