



SAP  
Innovation  
Awards 2019



# SAP Innovation Awards 2019 Entry Pitch Deck

Project Chrysalis S/4HANA 1709 System Conversion on  
AWS Cloud



THE BEST RUN



# Ayala Land Customer Journey

## TATA Consultancy Services



### “Quote”

Ayala Land CIO  
Annie Alipao  
expressed her high  
degree of  
satisfaction with  
TCS on successful  
completion of  
S/4HANA  
Implementation  
that ensured high  
quality  
deliverables

### Challenge

1. Increase in Database Size
2. Inefficiency due to long running reports and Jobs
3. Single source of truth on Capturing Business Process and Documentation
4. Business Harmonization

### Solution

1. Suite on HANA Migration for Compression of Database Size and Performance Improvement.
2. S/4HANA 1709 for Business Harmonization on public cloud.
3. SOLMAN 7.2 to Capture Business Process Flow, Documentation and also CCLM.

### Outcome

1. Compressed Database Size by 82%, Performance Improvement on Reports and Jobs.
2. Optimize Synergy across Strategic Business Units
3. Analytics Usage
4. New User Experience through FIORI
5. Reduce cost.

#### Faster Business Transactions:

ABAP Optimization made business transaction faster by ~30-60%

#### Database Compression

Achieved 82% database compression from 1.4TB to 278GB

#### Reduced Maintenance Cost

AWS lowered cost of operations and provided faster performance



## Partner Information

### TATA Consultancy Services

#### SAP S/4HANA Consulting Partner



TCS contributed to the first successful S/4HANA 1709 system conversion and also marks our first go-live of S/4HANA 1709 on AWS Cloud. Effectively collaborated with on-site and off-shore teams to meet the Ayala Land customer expectations and their tight timelines. **TCS provided transformation services for successful implementation.**



## Business Challenge & Objectives

- ▶ Need for optimization of current Business Processes (Cash Flow Reporting , Financial Close, Cash Management, Contract Management)
- ▶ Requirement for simplified Information Technology (IT) landscape with reduced run expenditure. Possibility for flexible scalable model for IT
- ▶ Experiencing slow performance of database both on standard and custom programs
- ▶ Redundant pre-aggregated data
- ▶ Database Growth

**We are glade to mention that all our business challenges were addressed under S/4HANA 1709 system conversion with AWS Cloud and with Process Transformation.**



S/4HANA 1709 system  
conversion with AWS  
Cloud and Process  
Transformation

## Project / Use Case Details

### Current SAP Setup

- ❖ SAP ECC 6.0 EHP 5.0 Kernel Release 721
- ❖ Database: SQL Server 2012

### Modules Implemented

- ❖ Finance and Controlling
- ❖ Funds Management
- ❖ Treasury Management
- ❖ Flexible Real Estate
- ❖ Project System
- ❖ Materials Management
- ❖ Sales and Distribution
- ❖ Plant Maintenance

### Organization Details

- ❖ No of Companies: 240+
- ❖ No of Business Lines: 8 (Corporate, Residential Sales, Mall Leasing, Office Leasing,, Property Management)
- ❖ No of Users: 1,604
- ❖ Active Users Off Peak: 315 users (average)
- ❖ Active Users Peak: 860 users (average)

### To-be SAP Setup

- ❖ SAP ECC 6.0 EHP 7 Latest Kernel Release
- ❖ Database: HANA
- ❖ Duration: 6 Months

### Technical Details

- ❖ Estimated No of Custom Programs: 2,014
- ❖ No of Custom T-codes: 386
- ❖ No of Custom Tables: 856
- ❖ No of Custom Programs to be performance Improved: 9

### Challenges faced by customer before HANA Migration

- ❖ System performance degradation due to programs running in the application layer
- ❖ Pulling unnecessary information from the database
- ❖ Impact on other business units when there are unplanned downtime due to performance
- ❖ Data archiving beyond manageable limits.
- ❖ Inefficiencies due to long running ad-hoc and period end reports that sometimes end up in ABAP run-time errors





S/4HANA 1709 system  
conversion with AWS  
Cloud and Process  
Transformation

## Project / Use Case Details

### Scope

- ❖ Convert ECC to S/4HANA and Realize the S/4HANA simplification
- ❖ Business process transformation  
Current BP: 579 (FICO/FM/TR-351; LOGISTICS-92; REL/RES/SD-136)
- ❖ Custom Code Remediation & Reduction of custom program and move to S/4HANA standard functionalities and reports  
Current custom t-codes: 244
- ❖ Identify management reports that require manual handling and implement relevant Fiori Applications leveraging S/4HANA embedded analytics
- ❖ Address Business Pain Points in both Standard and Customized processes
- ❖ Re-training of super users



# Benefits and Outcomes

## Business / Social

- ❖ Harmonize business processes per functional modules
- ❖ Optimize synergy across SBUs
- ❖ Implement within the committed budget and timeline
- ❖ Single place of truth for all Financial Information
- ❖ Performed Business Analysis and identified value scenarios for HANA optimization

## IT

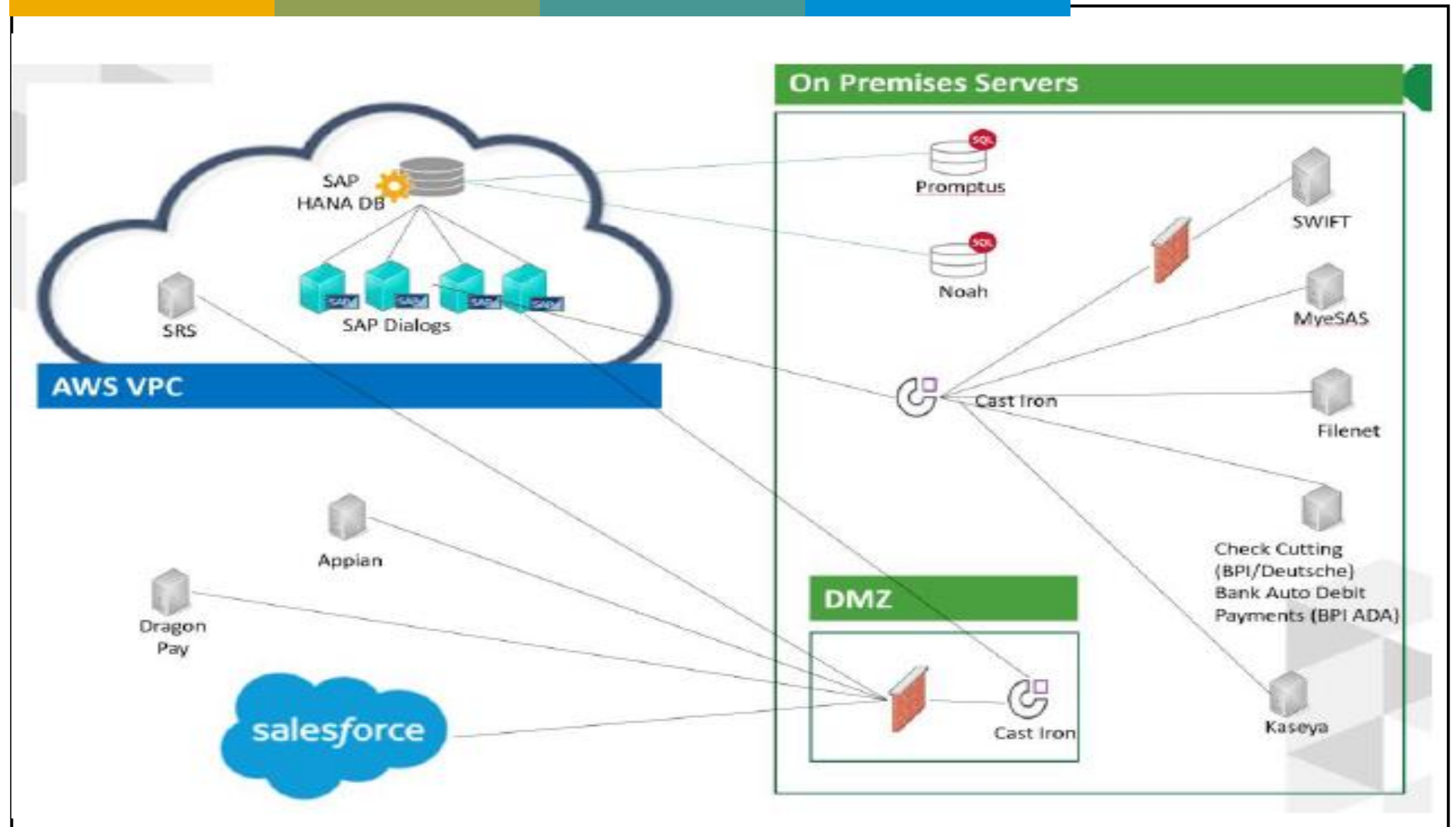
- ❖ Upgrade SAP ECC6.0 to SAP S/4HANA and ensure all interfacing applications work seamlessly
- ❖ Eliminate or reduce manual report generation and drive analytics usage
- ❖ Remove unused custom objects by leveraging SAP Certified TCS Tool ACE+
- ❖ Database Size compression from 1.4 TB to 247 GB which is a compression of 82%

## Human Empowerment

- ❖ Enable new User Experience through SAP FIORI
- ❖ Drive Analytics through SAP Embedded Analytics



# Architecture







## Deployment

Date of Deployment or POC: June 2018

Number of live users: 1608

### SAP Technologies Used:

SAP S/4HANA	Production(Live)
SOLMAN 7.2	Production(Live)
SAP Embedded Analytics	Production(Live)
SAP FIORI	Production(Live)

Server Processor: HANA supported Hardware and Intel Xeon

Linux Distribution: SLES 12 SP 3



## Emerging Technologies and Use Cases

The following Emerging Technologies and use-cases are part of the project and describe the contribution

	Technology or Use Case	Yes/No	Contribution to Project
<b>1.</b>	Machine Learning / Artificial Intelligence	No	
<b>2.</b>	IoT	No	
<b>3.</b>	3D printing	No	
<b>4.</b>	Blockchain	No	
<b>5.</b>	API Economy / Integrate the Intelligent Enterprise	No	
<b>6.</b>	Cloud Native / Event Based Architectures	No	
<b>7.</b>	Extending the digital core with SAP CP / ABAP in SAP CP	Yes	S/4HANA 1709 system conversion with AWS Cloud and Process Transformation
<b>8.</b>	SAP Leonardo Application ( extending SAP application, using Industry Innovation Kits or result of Design Thinking workshop)	No	