



Creating an Agile Accounts Payable Data Mart for Internal Auditing at AbbVie

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About the Speakers

Padmakar Khandekar

- Analytics Architect, Abbvie
- SAP ABAP and HANA Development background
- Worked on SAP R/2

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- Sr. Consultant, Abbvie
- SAP BW and HANA developer
- Worked on BPC

Key Outcomes/Objectives

1. How internal audits can be improved by harnessing technology
2. How objective internal audits can contribute to better risk profiling
3. How iterative development leads to higher customer satisfaction

Agenda

- About AbbVie and its SAP Analytics Journey
- Internal Audit Requirements
- Options, Project Approach and Execution
- Agile Data Mart Architecture, User Interface and Samples
- Benefits, Future Plans & Technical Information

About AbbVie

abbvie

Founded in 2013 with heritage of Abbott's 125 year as a foundation on which to grow.

We're a company that takes on the toughest health challenges.

But we do more than treat diseases—we aim to make a remarkable impact on people's lives. We are AbbVie, a highly focused research-driven biopharmaceutical company.

30,000+

employees worldwide in 70+ countries

28 million +

patients in 175+ Countries treated by AbbVie's medicines every year.

2018 Revenue

\$32.7 Billion

14 Manufacturing Facilities

8 Research and Development Centers

SAP and SAP Analytics Journey



- AbbVie formed as an independent company in Jan 2013
- AbbVie/Abbott SAP system split
- AbbVie started SAP operations on its own SAP system.

- Design & implement global template solution w/ standardized end-to-end back-office business processes
- 110+ countries & 14 manufacturing sites
- Minimize localization requirements

- Enhancements complying to defined global template
- Strategize data archiving using SAP ILM
- SAP GTS Data warehouse reporting & dashboards

- Upgrade SAP BW 7.01 to SAP BW 7.5 Powered by HANA and Subsequent Optimization
- SAP GRC Insights
- Lumira Dashboard for PPV
- **Internal Audit Dashboard for AP**

- **Internal Audit Dashboard for T&E**
- SAP Native HANA – Financial Data Hub
- Supply Chain and SAP EWM Dashboards
- **Internal Audit Dashboard for AR**

Internal Audit Requirements

- Access to finest grain of data in addition to visualizations for KPIs
- Composite Risk Scoring based on business tests and weights for each test
- Use of statistical method to select samples from stratified data – Neyman allocation
- Self-Service / Ad Hoc Reporting
- Small User base with no row level security requirements

Options

- Enforce only business tests in SAP BW and transfer data to dashboarding tools using OpenHub or Data Services
 - ✗ Several Technologies -> Higher Cost of Maintenance
 - ✗ Disparate teams -> Iterative dev. difficult, more coordination
 - ✗ Data Copy -> additional reconciliation requirements
- Use SAP AP data available in SAP BW on HANA to create data models consumed using BOBJ WebI
 - ✓ Homogeneity - All SAP products and tools
 - ✓ Aggregated as well as detailed view

Project Approach and Execution



Plan the work

- Elicit high level req. in discovery workshops to identify dimensions & measures
- Focus on models providing KPIs first & Implement tests later
- Minimize number of views consumed by reporting layer

Work the plan

- Agile UI Testing every week to incorporate feedback from previous week and share new elements

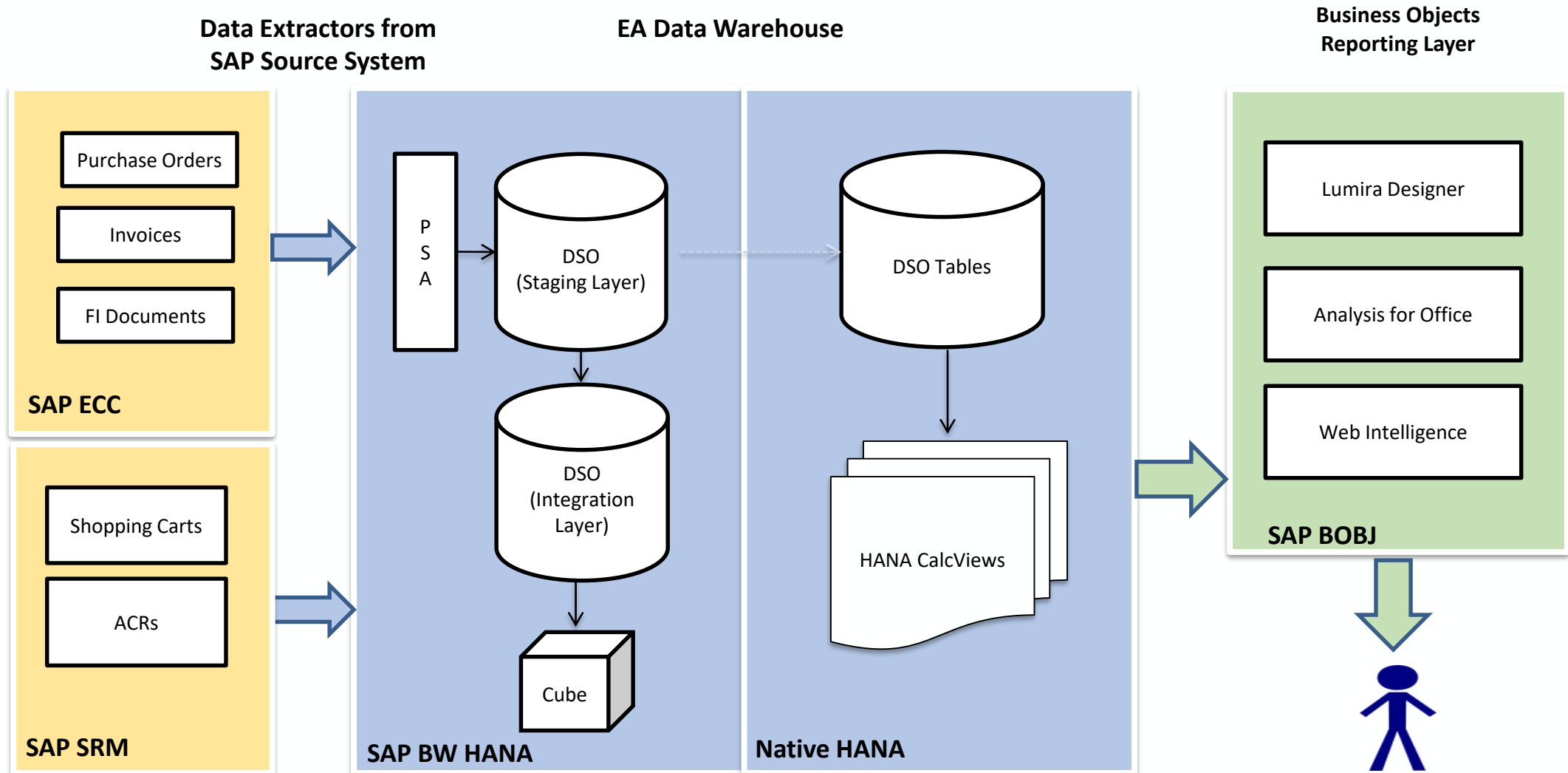
Results

- Final HANA Views consumed: 14
- Number of KPIs: 36
- Number of business tests: 14
- Typical Volume of transactions: 300,000 for 12 to 18 months period for entity group being audited

Lessons Learned

- Agile, Iterative development > delivering close to user expectations and shortens UAT Phase
- Work in environment refreshed from production > helped address perf. considerations and set user expectations

Agile Datamart Architecture



User Interface

- Log in via BI launchpad using LDAP and access to IA folder
- Prompts, Document & Report Input Controls
- Multiple tabs
 - Landing Page
 - Spend Analytics
 - Report Exceptions
 - Other KPIs
 - Composite Scorecard
- Links to guidelines and tool documentation for reference
- Details can be exported as Excel sheet
- Power users can consume HANA views to create additional reports/visualizations.

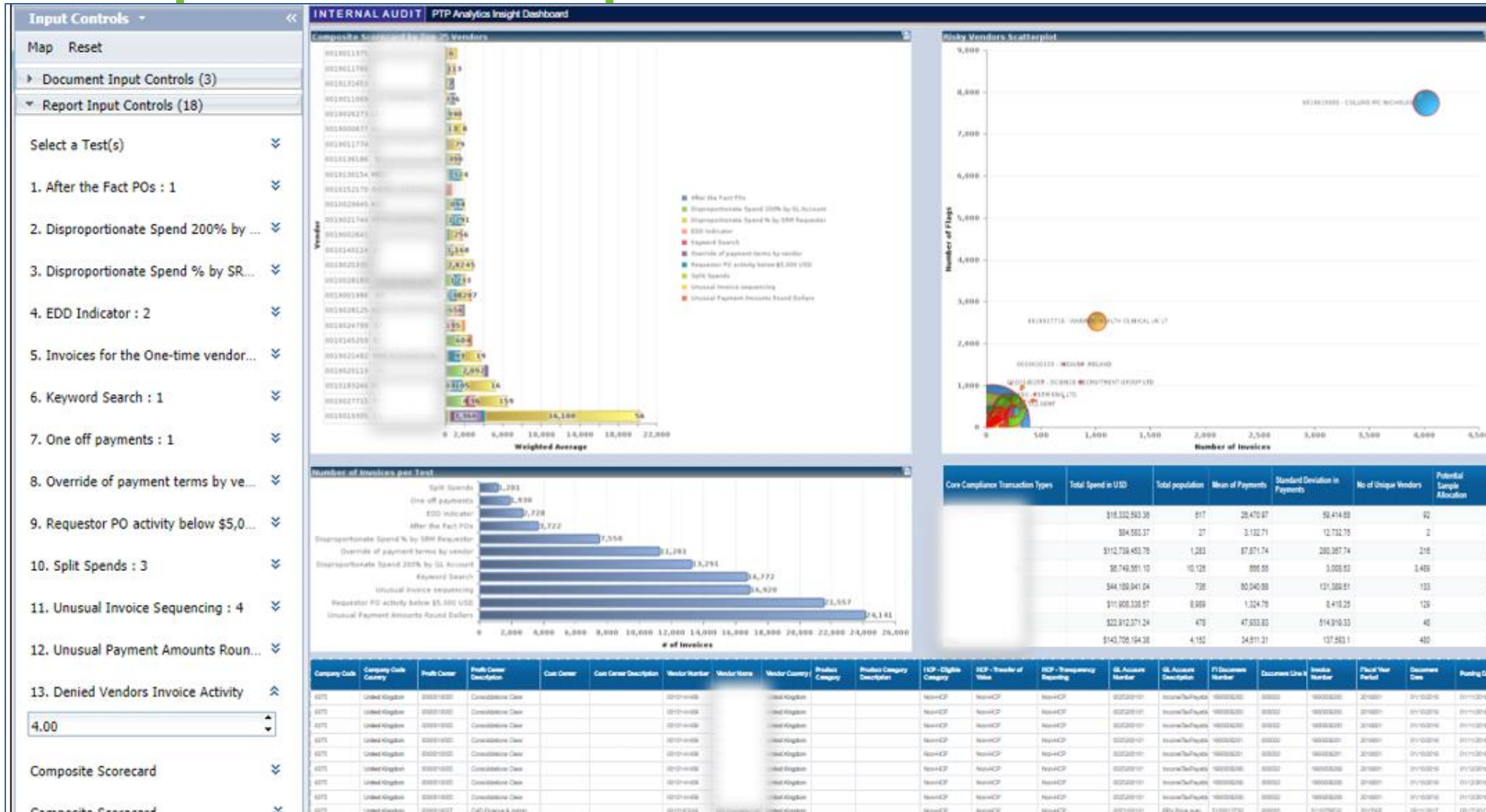
Samples – Landing Page



Samples – Spend Analytics



Samples – Composite Score



Benefits

- Risk Score based objective insights into business transactions
- Extensible, rule/test based solution
- Focused audits on key risks to enterprise
- Improved Audit Efficiency/Productivity Gains
- Frees up more time to address emerging risks

Future Plan

- Similar Dashboard for Employee Business Expenses and Order to Cash transactions
- Use of Predictive Analytics Library (PAL) in HANA for identifying potentially risky business transactions

Technical Information

- SAP ECC 6.0 SPS12
- SAP SRM 7.0 SPS09
- SAP BW 7.5 on HANA 2.0 SP2
- BusinessObjects 4.2 SP5
- WebI Charts used: Tiles, Line, Bar, Tree, Heat, Scatter Plot, Tag Cloud, Table

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>

Q&A

For questions after this session, contact us at
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