Old World Industries Delivers Agile Information Platform with SAP BW/4HANA

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About this session…

With the phased adoption of SAP S4/HANA across the company, Old World Industries (OWI) faced the challenge of creating an agile information platform that facilitates real-time analytical needs of the users. OWI decided to create a platform for future needs and progress from operational reporting to insights with SAP BW/4HANA.

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Agenda

- Introductions
- S/4 Journey at OWI
- Challenges faced in Analytics with Legacy platform
- Business Case of BW/4 aligned with future of OWI
- OWI Approach to new age analytics with BW/4 HANA
- How TekLink helped OWI?
- POC results
- Learnings / Key Take away
- Conclusion and way forward
- Q & A

About the Speakers

Brian Kenny

VP SAP Customer Solutions, OWI

- 30 years experience delivering enterprise solutions
- Develop and guide core teams delivering sustainable technologies
- Current responsibilities SAP BW/4HANA, SAP C/4HANA, Enterprise Web Site Portals on SAPUI5 technologies
- Fun Facts
  - Coaches 10 year old daughter
  - 9 grandchildren with 2 on the way

Pravin Gupta

- EDW Practice Lead, Teklink International Inc
- Over 20 years rich experience in architecting and implementing SAP solutions including HANA, BW, BPC, SPM, APO and Analytics.
- Frequent and noted speaker at ASUG Annual and local conferences, SAP Insider events and SAP TechEd.
- Fun Facts
  - Has completed 4 Chicago Marathons
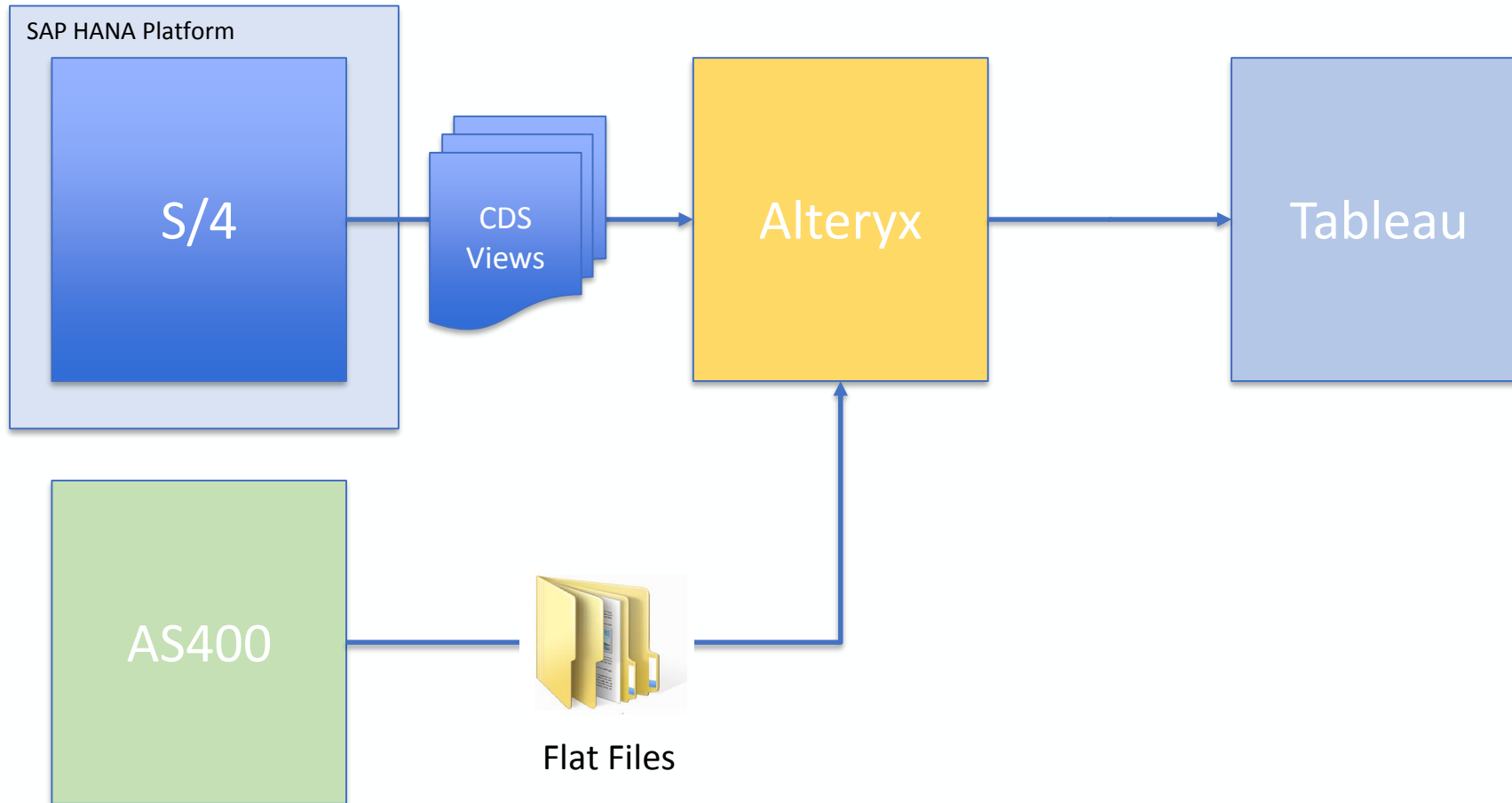 - Finished a 100K bike race

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S/4 FOUNDATION AT OWI
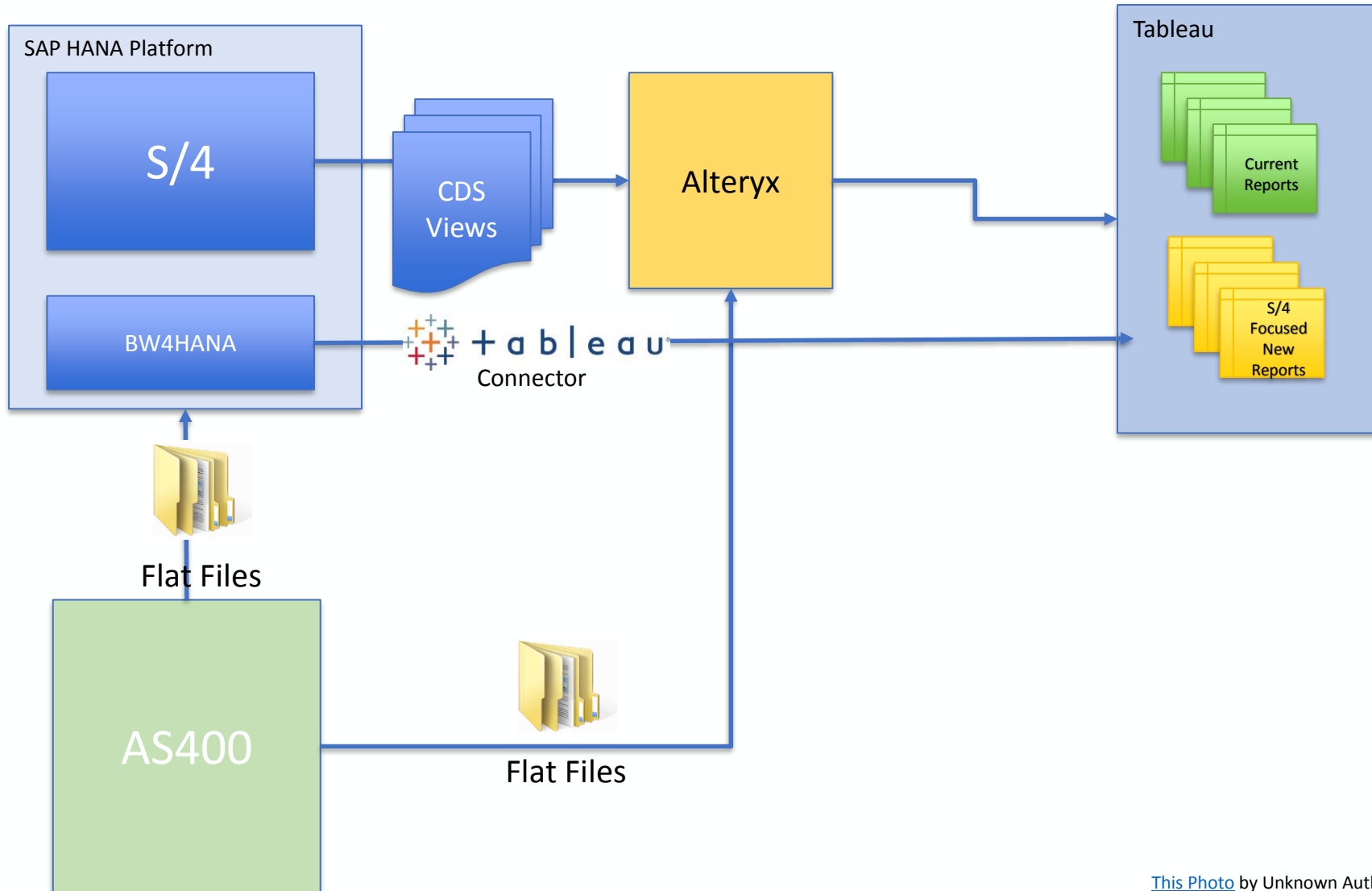
S/4HANA Journey at OWI

Transform & Simplify from complex technologies-

- Legacy AS400 -Multiple SFDC Contracts & Solutions- Data Stores- ETL and Reporting Tools
- Phased transformation, 25% of business runs on S/4 and 75% on AS400
- Business transformation will be completed by 2019
- SAP Technologies
  – SAP S/4HANA
  – SAP BW/4HANA & SAP Analytics Cloud
  – C/4HANA, (Sale & Service)
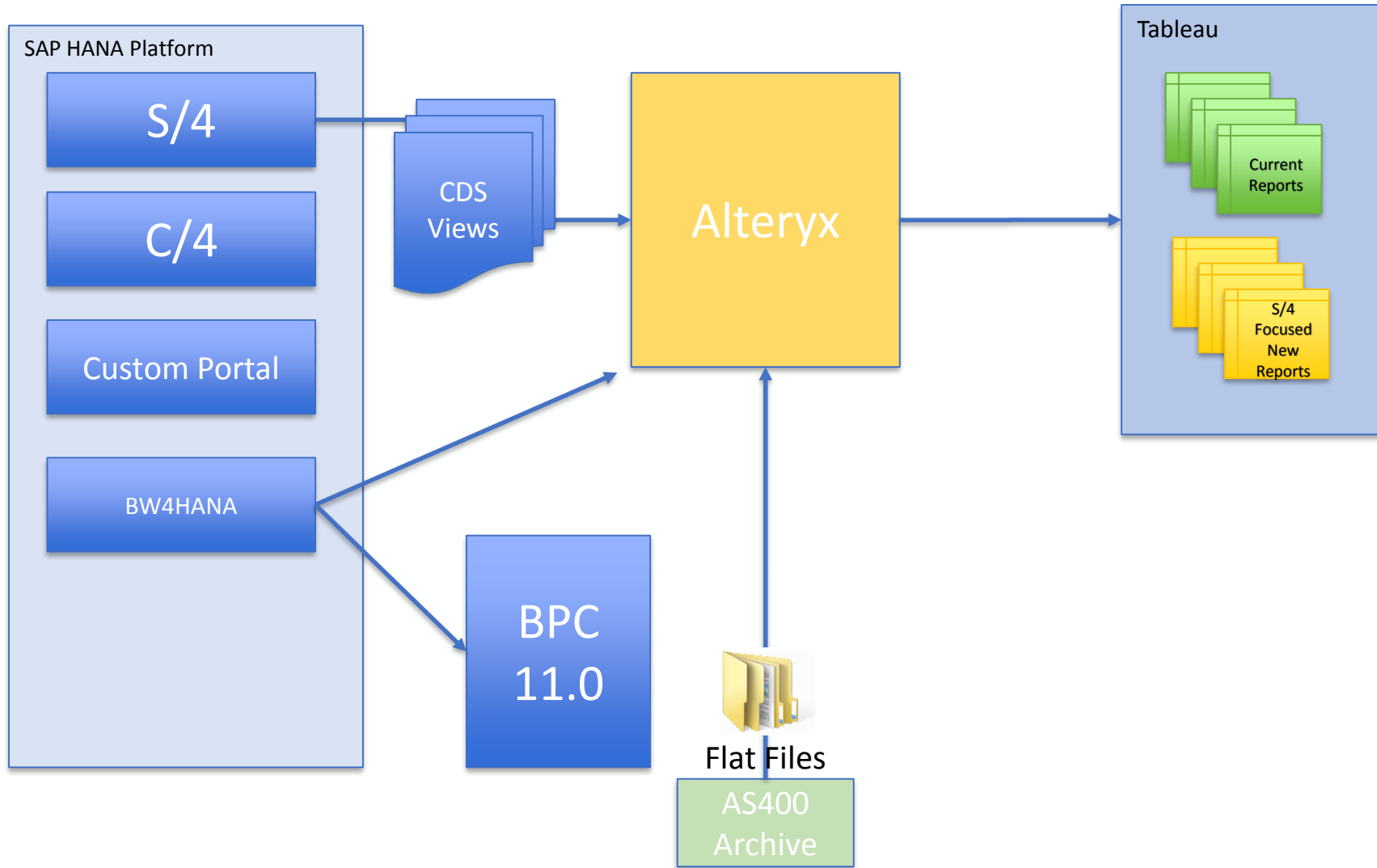 – SAP Ariba
  – SAP Concur
  – Open Text

Current Reporting Landscape

SAP HANA Platform

S/4 → CDS Views → Alteryx → Tableau

AS400 → Flat Files → Alteryx

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2019 Reporting Landscape

2020 & Future Landscape

CHALLENGES FACED IN ANALYTICS WITH LEGACY PLATFORM

OWI Pain Points & BW4HANA Benefits

- Driving Integration of information
  - C-Level Reporting (Sales-Finance & Operations)
  - Information captured "Single Source of Truth.
  - Integration of Information
- Enterprise cost reductions
  - IT
  - Departmental
- Measuring/Monitoring Business Performance
  - Real-time Profitability
  - Prediction Analysis
  - Managing Receivables
- Optimize Planning, Budgeting, and Forecasting
  - BPC
  - SAP Analytics Cloud
- Enterprise Strategy
  - Intelligent Enterprise
  - Real-Time Dashboards

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Legacy Platform Challenges

Lack of Customer Insight and Improved Decision-Making

- Departments created MS Access local reporting solutions sourcing data from AS400

- Data inconsistency & no real-time reporting for operations reports

- Lot of excel based reports, poor data quality

- No structured reporting platform

- High development effort with low yielding decision support

- Environment complexity causing business solutions delivery inefficiencies
    - AS400/BPC/SFDC/Integration and ETL tools all add to complexity of environment

- Multiple Data Stores

OWI Digital Transformation Objectives

- Creating value enhancing customer insight and experience by tailoring personalized offerings

- Extending the business - new markets digitally enabled by the newest technologies

- Enhancing current products digital services and information

- New product release using digitalization to increase efficiency and effectiveness

- Building Core Capabilities

How does BW4/HANA fit in?

Use Cases X **Deployment Options**

	operational analytics	cross-system analytics
embedded	🙂	😐
stand-alone	🙁	🙂

OWI needs a standalone data warehouse that will blend S/4 data with data from other systems
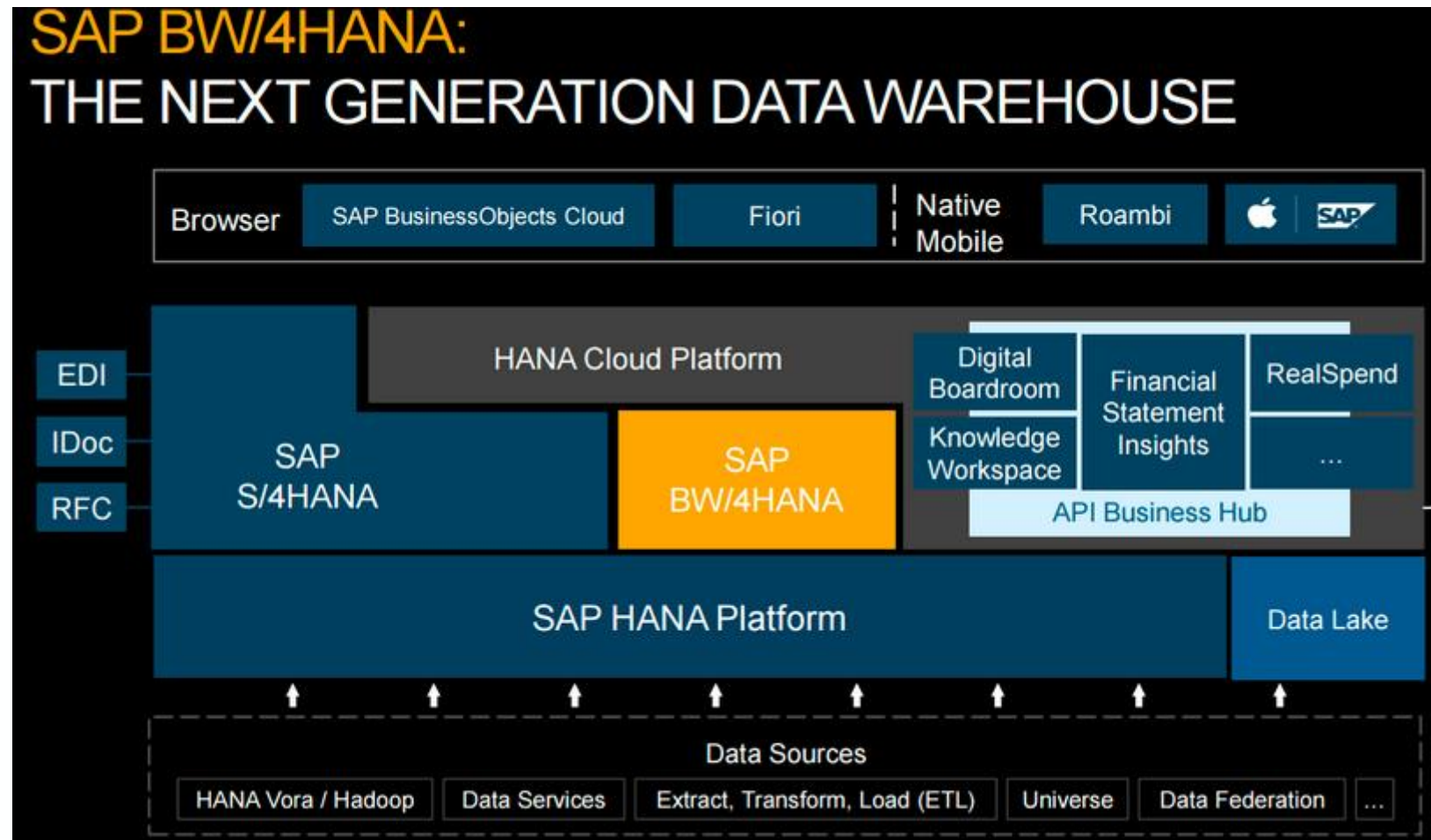
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BUSINESS CASE FOR BW/4HANA

What is BW4/HANA

- SAP BW/4HANA was released in September 2016 to provide a simplified integrated platform for Enterprise Data Warehouse with focus on:
  - Simplification
    - Removing complex object selection, standardizing on a few types and removing code lines not needed
  - Openness
    - Exposing BW models such as SAP HANA views to allow for SQL-based consumption from almost any analytics tool and integration with Hadoop
  - Modernization
    - The modeling and query UI has moved to Eclipse
  - High performance
    - The HANA platform provides speed with OLAP logic executed in HANA

BW/4HANA: Bridges the insights gap

- Simplifies the provision of timely business insights.

- Capitalizes on the full value of the data available.

- Innovates with one trusted source for all insights.

SAP BW/4HANA:
THE NEXT GENERATION DATA WAREHOUSE

Browser | SAP BusinessObjects Cloud | Fiori | Native Mobile | Roambi | SAP

EDI
IDoc
RFC

HANA Cloud Platform

SAP S/4HANA | SAP BW/4HANA | Digital Boardroom | Financial Statement Insights | RealSpend
Knowledge Workspace
API Business Hub

SAP HANA Platform | Data Lake

Data Sources

HANA Vora / Hadoop | Data Services | Extract, Transform, Load (ETL) | Universe | Data Federation

Major changes with BW/4HANA

- More than 5 million lines of code have been deleted from BW/4HANA compared to SAP NetWeaver

- Some official BAPI interfaces have changed (RSNDI, RSDRI)

- Old customer exit CMOD and BADI methods (e.g., for variable user exits) have been removed and replaced by enhancement spots

- 0REQUID is no longer used for request management

- SAP generated views are exclusively calculation views (recommended already in BW 7.5)

- BW workspaces are accessed via Business Client (no Web Dynpro)

The Case for BW/4HANA: Greenfield

- New installation
- New development (no reuse of existing development if any)
- New deployment to end users
- SAP BW/4HANA content will be used as a starting point for development of content
- Setting the foundation for an EDW!

Motivation for this PoC

- Showcase the capability of BW/4 HANA with S/4 HANA platform
- Assess the flexibility of reporting tool with analytics on BW/4HANA in finance and sales
- Showcase administrative capabilities on BW/4HANA
- Assess the overall engagement and build business case for BW/4HANA at OWI

OUR APPROACH FOR THE POC

Why go for a PoC?

- Allows testing of the solution before full deployment

- Requires minimal initial investment before making a larger commitment to the solution

- Develops early learnings and experience of resources to ensure less issues during the full deployment

- Helps in developing the final business case(s)

TekLink Cloud for PoC

- TekLink provided a hosted BW/4HANA environment configured with 3-5 reports/dashboards for OWI
  - Configuration - 4 cores / 128 GB memory / 250 GB HDD
  - One time setup and per month cost
- Following components were included in the cost:
  - Hardware
  - Backup (weekly full & daily incremental)
  - Software license
  - Initial setup
  - BASIS support as needed
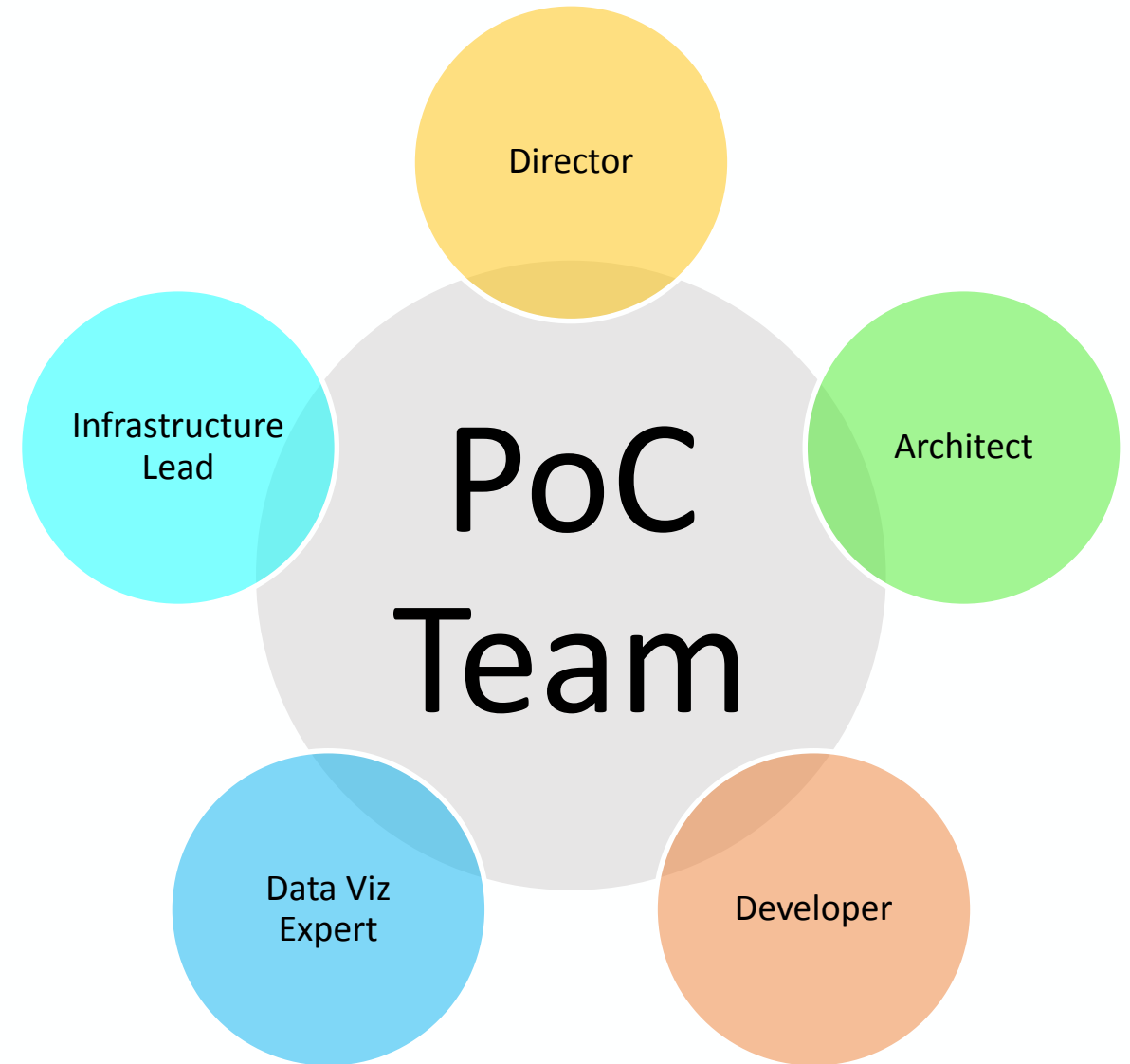 - Cisco VPN & Citrix access for upto 10 named users

Scope of the Proof of Concept

Deliverables:

- Infrastructure with pre-installed software for BW/4HANA 1.0 SP9

- Infrastructure and basis support for the duration of SOW

- Build and provide Analytics POC in Sales & FI area with OWI test data

- 3-5 reports using tools such as Tableau, BO (Webi) and/or Analysis for office

- Performance evaluation for the reports in BW/4HANA

- Integration capabilities (SAP and non-SAP data) using LSA++ best practices

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PoC Team and Roles

OWI business and functional analysts partnered with the TekLink PoC team on this project.

This translated into a good synergy for the project with OWI providing the business acumen and the technical expertise handled by TekLink.

Key Learnings and Outcomes

#	Challenge	Category	Outcome/Resolve
1	Special characters, blank fields and data quality issues from AS/400 data elements	Data quality	We leveraged available data cleansing tools (RSKC, ABAP routines) in BW/4 HANA
2	We had challenges with data terminology differences between legacy and SAP systems	Change Management	Discussions with SME's; built data dictionary / cross references mappings (S/4 field to AS/400)
3	Reporting tool selection	Tool selection	Report samples were built using Tableau, Analysis for office and Webi so that users can weigh in on the options
4	Future integration requirements such as ACDOCA table with AS/400 etc. were identified	Standard vs Custom Requirements	Road map preparation for OWI analytics

Conclusion and Way Forward

OWI has chosen BW/4HANA as enterprise data warehouse platform.

- As proven during the PoC, BW/4HANA BI environment can integrate data elements from AS/400 and S/4 HANA to provide unified view in reporting
- Business Content backend objects and reports from BW/4HANA will be used for Sales & Distribution and Finance
- Standard extractor programs will be used to load data from S/4HANA to BW4HANA
- AS400 data will be integrated in BW/4HANA using FLAT files (SDI option is ruled out due to licensing constraints)
- BW/4HANA will handle cross reference tables in order to map old legacy data (AS400) with S/4 HANA
- Reports will be delivered in Analysis for office for business content reports, Tableau and WebI for custom built reports

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Presentation Materials

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Q&A

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