



Smart Spend and Smart Audit

The Future of digital Spend and Audit

Challenges



Do More with Less

Data Discovery Alone...



Missing tools to turn Data into Information & Insight to Action



Fragmented data leading to low transparency & confidence with no single version of truth



Lack of full visibility of the Spend, trends, patterns and allocations



Inefficient and time-consuming reporting leading to delays in key decision making



Heavy Manual activity / efforts



Non-Standard rules/ Lack of proper consolidation

...Fails to provide Top down and Bottom up Spend Insights

Manual Risk Management Alone...



High volume of complex transactions makes the current manual process of compliance inefficient, unscalable and reactive



Revenue loss related to potential fraud, waste and abuses



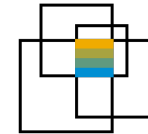
No data driven guidance and global view to focus on audit efforts



Reduced audit staff and higher cost of contracted audit services



Manual Data Sampling for risk assessment and risk quantification



Fragmented Data

...Fails to be holistic, efficient, effective and proactive

Smart Spend

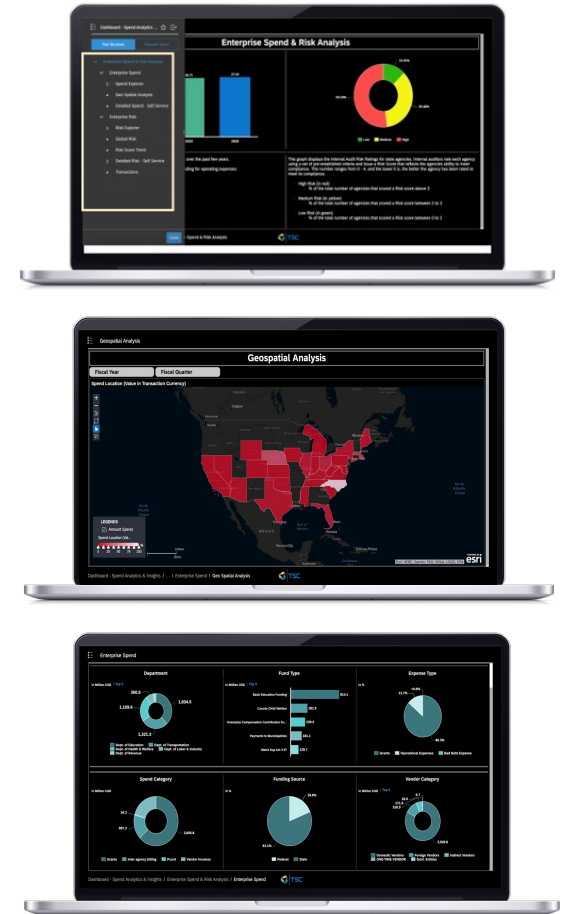


Digitize Spend – Data to Insights to Action in Real Time

Business Benefit – Spend Analytics

Data to Insights – Understand What Drives Your Enterprise Spend

- **Deliver Enterprise-wide Spend analytics** leveraging Public Sector Industry KPIs and visualize interesting patterns in your data. Explain anything with a few clicks
- **Forecasting** capabilities to predict upcoming spend for different KPI's e.g., future department spend, vendor spend, etc.
- **Detect influencing factors** and Discover the anomalies, patterns and trends for Expenses and Vendors and take corrective actions
- **Analyze geospatial** spending patterns to identify the grants and contract spend by zip codes
- **Real-time** Ad-hoc Self-service reporting capabilities allowing analysts to drive the root cause of the issues



Smart Audit

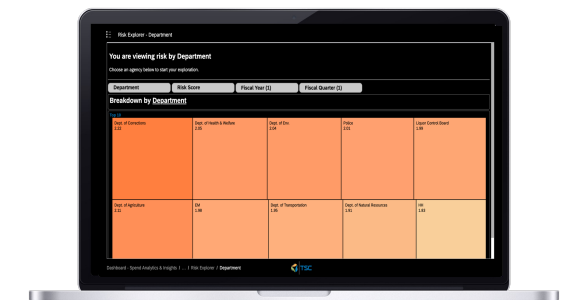
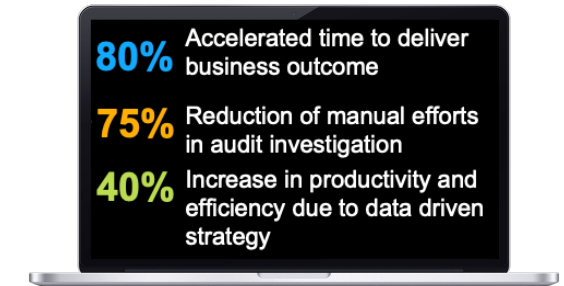


Revolutionize Internal Audit – Qualify and Quantify Enterprise Risk

Business Benefit – Audit Risk Management

Application to guard enterprise integrity, mitigate risk of fraud and noncompliance

- **Trend Analysis** – Identifying unusual transaction amounts using trends and patterns in which they typically appear for a particular account or vendor.
- **Outlier anomaly detection in transactions and enhanced protection** -Detection capabilities to help identify anomalous transactions early and take necessary action to prevent financial losses and suspicious activities
- **Efficient Screening** – Predictive methods to optimize risk analysis and prevent future recurrences with less effort & cost and improved productivity
- **Accuracy** – Use of machine learning models to help auditors with detailed investigation by minimizing false positive scenarios which enables increased accuracy of detection leading to proactive audits.
- **Seamless Integration** – Harness in-memory computing using SAP HANA and seamlessly integrate with SAP applications



PCard Analytics



Business Benefit – PCard Analytics

Application to analyze Fraud transactions, Split Payments, Blocked MCC Codes, and Non-compliant transactions

- **Transactions Overview** – Overview of PCard transactions over time, department, and account holders
- **Features Overview** - Identifying transactions made on E-commerce, Airlines, Lodging, International, overview and trend over time with amount and number of transactions
- **Usage Patterns** – Detection of transactions that are compliant or non-compliant to enterprise policies e.g., exceeding credit limit, >10k transactions, etc.
- **Unusual Transactions and Spend patterns** – transactions made by Inactive, Terminated, Voluntarily closed, or Lost/Stolen cards over the years
- **Fraud Detection** – predictive methods to identify fraudulent cards and future usage, analysis on trends and patterns for these cards
- API integration capabilities for combining Non-SAP data with SAP data using **SAP BTP**



Vendor Analytics



Business Benefit – Vendor Analytics

Application to analyze payments to One Time Vendors, payments to Vendors with frequent changes of payment method and address, and Vendor spend patterns

- **Vendor Spend Overview** – Overview of vendor transactions over time, spend categories, and expenses. Key KPI's for most used vendors or one-time vendors by each department
- **Outlier Analysis** over a time period for all vendors across expense types and departments
- **Non – Compliant OTV** – Identify all OTV's where the business defined purchase limit is exceeded for an individual transaction
- **Detection of changes to the details of vendors e.g.,** payment details/ address changes, etc. and identifying vendor change trends/patterns and outlier vendors over the years
- **Promptly identify High-risk vendors using** international vendor data



Integration with SAP Applications



One. Simple. Standardized. Out of Box. Cloud & On-Prem.

Integrates with
SAP Analytics Cloud
SAP Datasphere
SAP Integration Suite



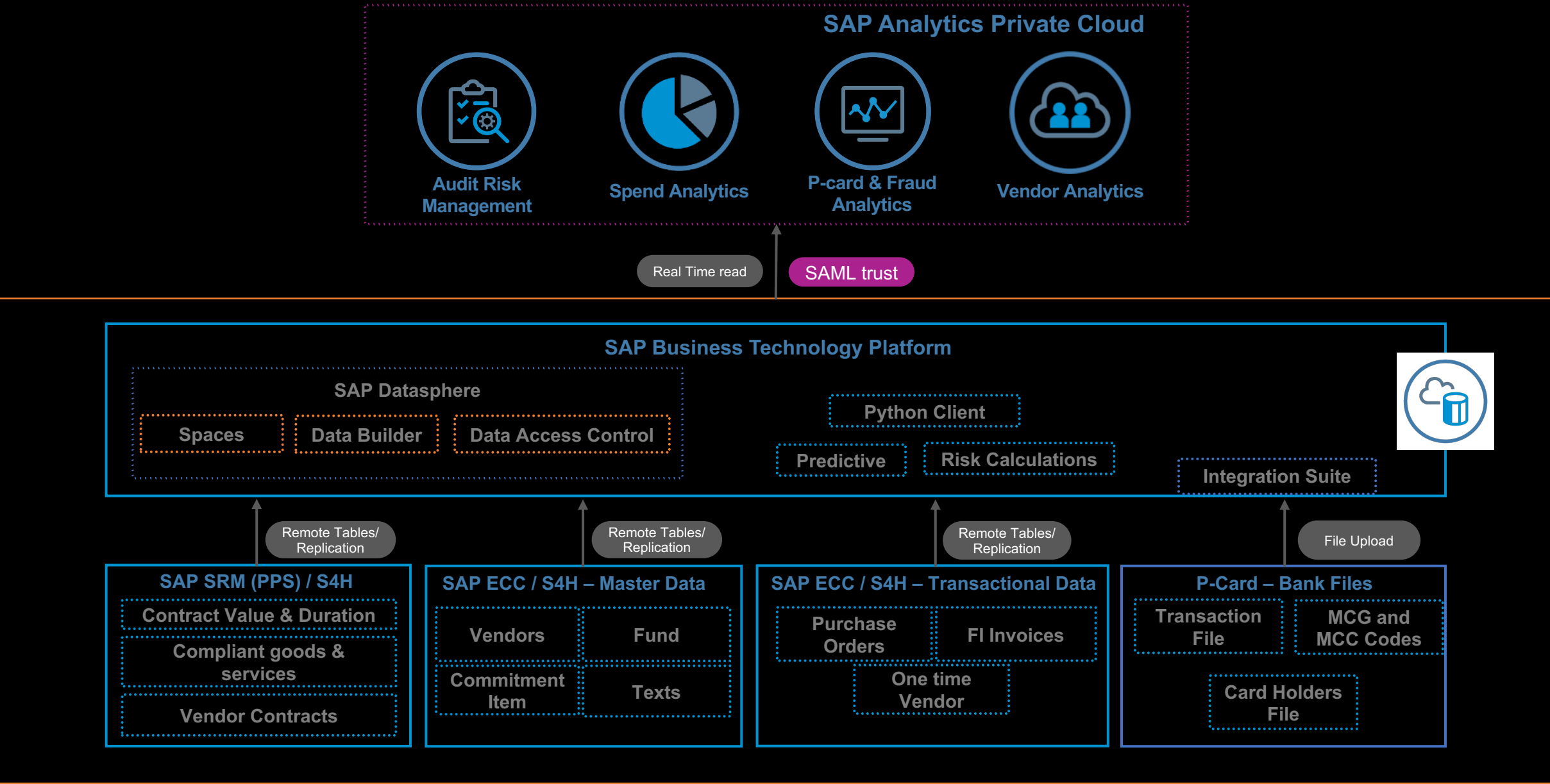
Built on SAP
Business Technology
Platform

Runs on SAP
HANA

ERP / S/4

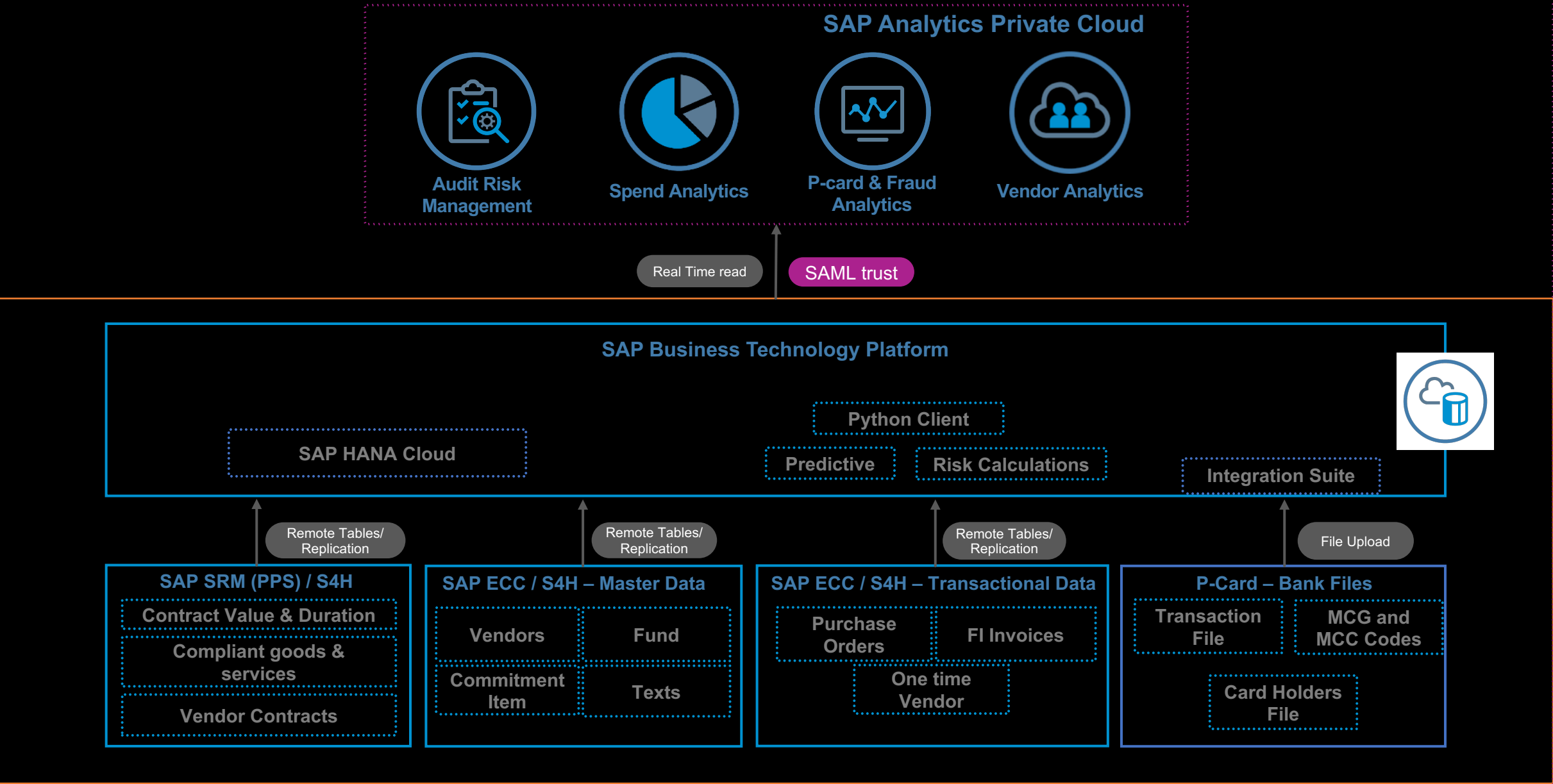
Solution Architecture & Data Flow with Datasphere

Approved by the NS2 Architecture Review Board



Solution Architecture & Data Flow with HANA Cloud

Approved by the NS2 Architecture Review Board



Product Demo Links



Links: TSC Spend & Audit Risk Management

- Solution Overview: <https://vimeo.com/604813493>
- SAP BTP: <https://vimeo.com/720675323>
- Spend Management: <https://vimeo.com/657043096>
- Risk Management: <https://vimeo.com/657045704>
- Customer Testimonial: <https://vimeo.com/689415773>