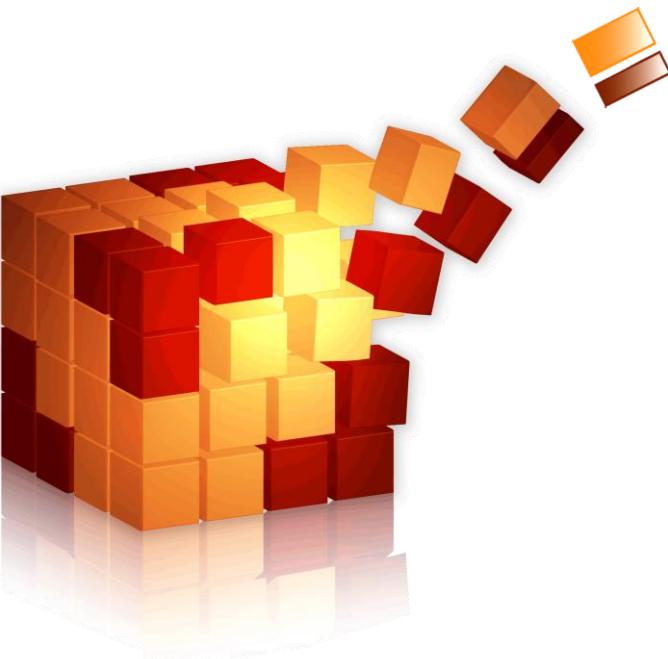
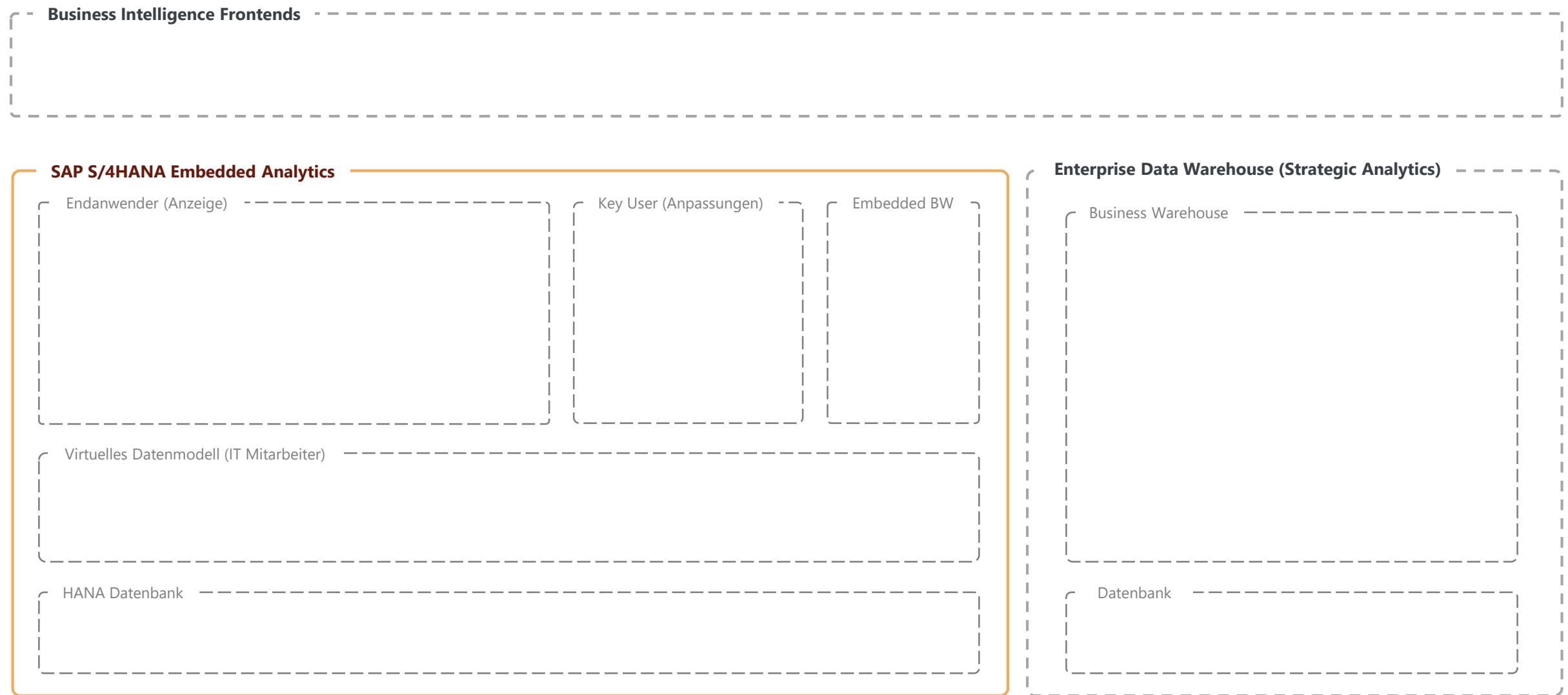


Reporting mit SAP S/4HANA



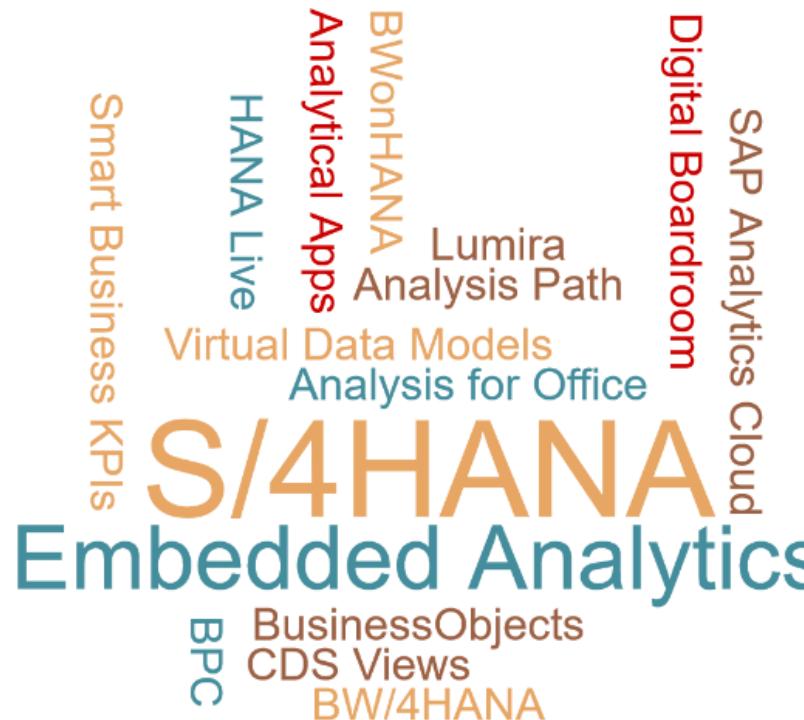
Nr.	Thema
1	Kurzvorstellung
2	Übersicht Analytics mit SAP S/4HANA
3	Begrifflichkeiten & Architektur
4	Out-of-the-Box-Analytics
5	Zusammenspiel S/4HANA Analytics mit BW und BI Frontends
6	Fragen & Antworten

Übersicht Analytics mit SAP S/4HANA



Übersicht Analytics mit SAP S/4HANA

Reportingmöglichkeiten



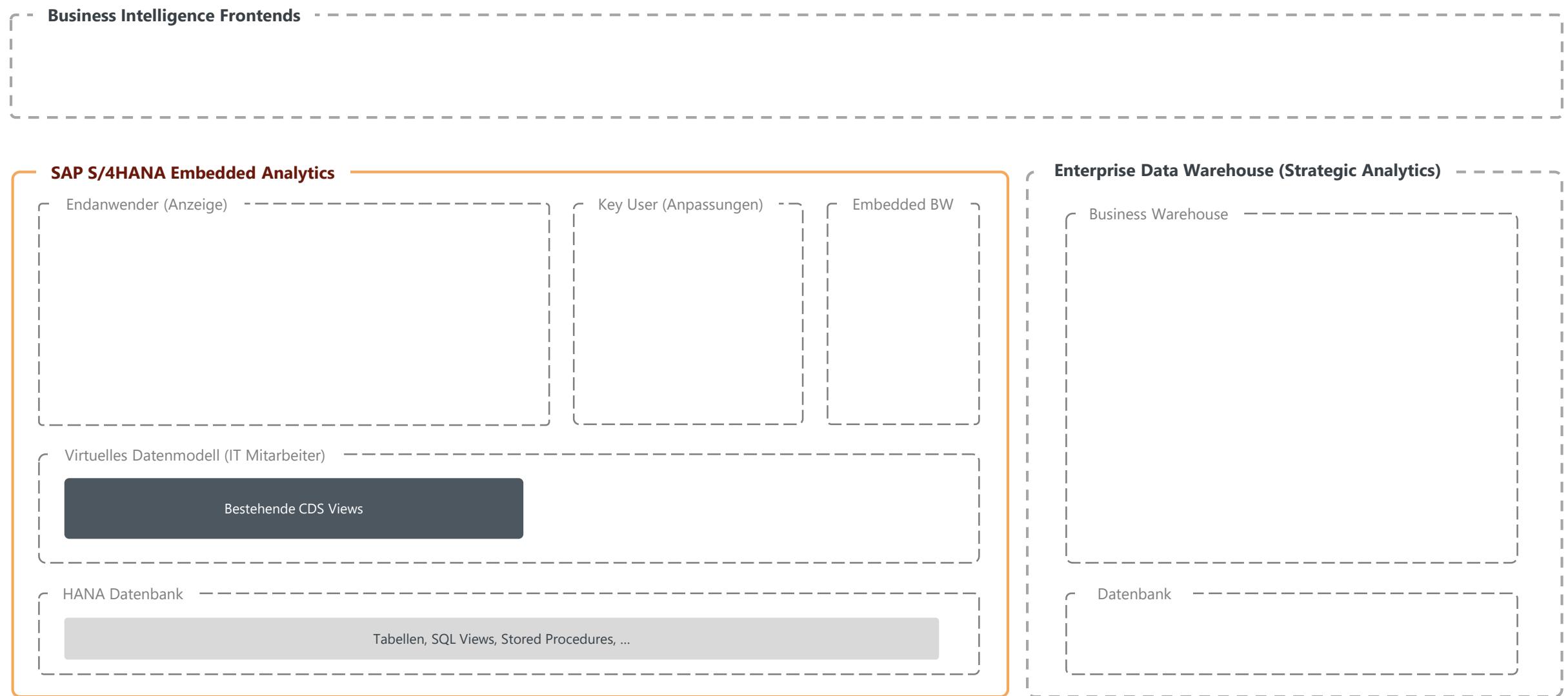
Reporting mit S/4HANA

- Im Rahmen des S/4HANA Reportings stößt man auf viele Begrifflichkeiten
- S/4HANA ermöglicht die Berichterstattung über
 - BusinessObjects Tools (Lumira, Analysis for Office etc.)
 - Die SAP Analytics Cloud inkl. Digital Boardroom
 - Integrierte, Fiori-typische Berichterstattung
- Darüber hinaus gibt es neben einem integrierten BW noch die Möglichkeit zur Anbindung eines BWs (BW on Any DB, BW on HANA oder BW/4HANA)
- Im Zusammenhang mit dem Reporting werden außerdem Begriffe wie „HANA Live“, „Virtual Data Models“ oder „CDS Views“ verwendet.
Details hierzu finden sich auf den folgenden Folien.

Agenda

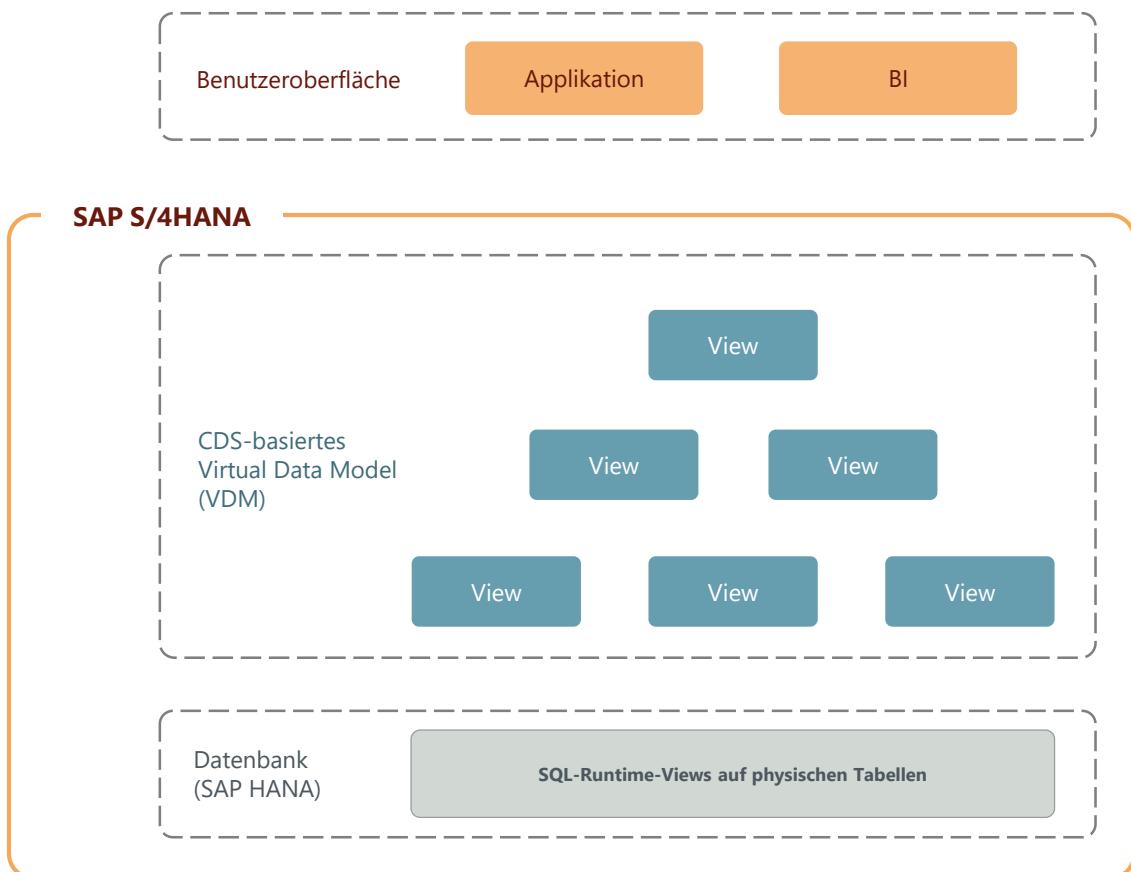
Nr.	Thema
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Übersicht Analytics mit SAP S/4HANA



Begrifflichkeiten & Architektur

Core Data Services (CDS) Views

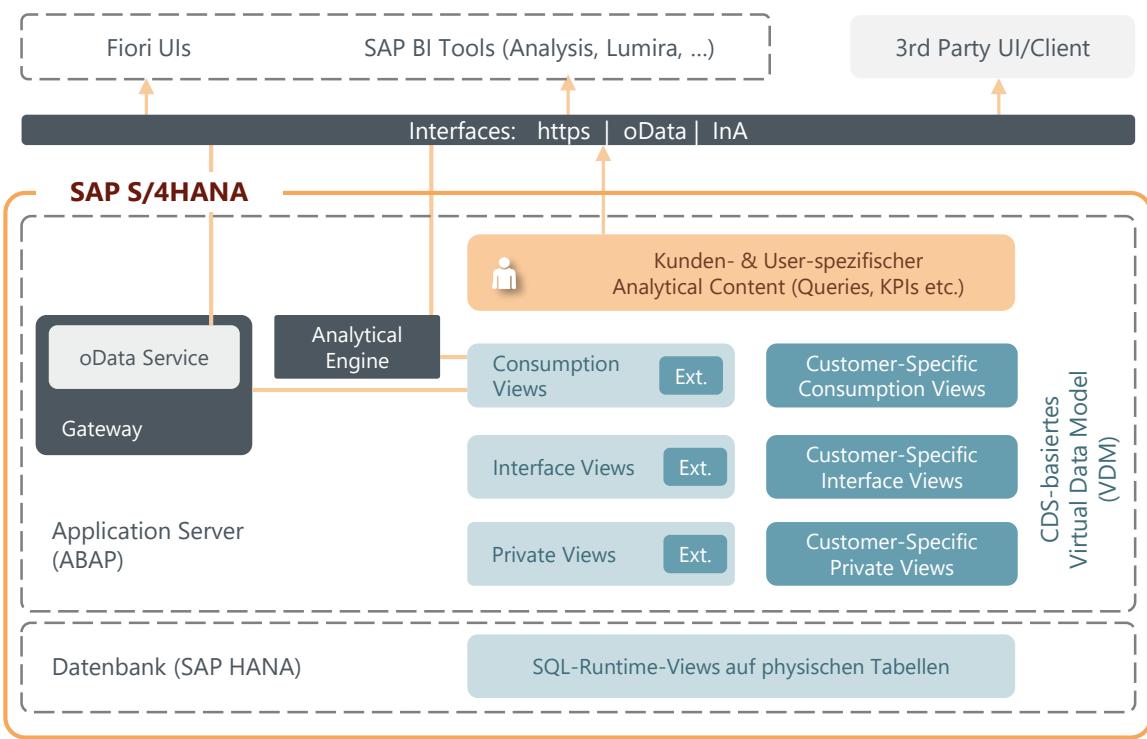


CDS Views

- CDS Views sind SAPs „strategischer Ansatz“ zur Abbildung von (betriebswirtschaftlichen) Zusammenhängen
- Es gibt eine große Anzahl (>9.000) vordefinierter CDS Views

Begrifflichkeiten & Architektur

Core Data Services (CDS) Views



CDS Views

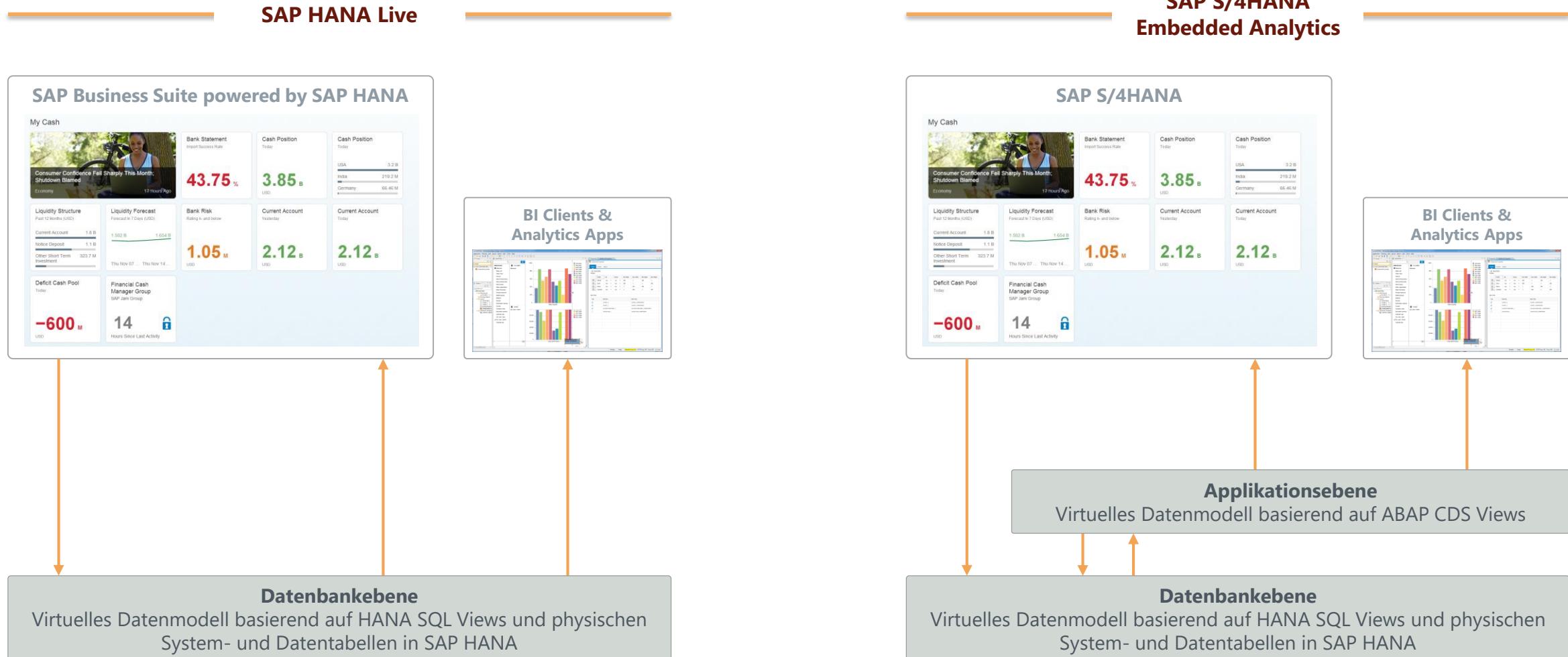
- CDS Views sind SAPs „strategischer Ansatz“ zur Abbildung von (betriebswirtschaftlichen) Zusammenhängen
- Es gibt eine große Anzahl (>9.000) vordefinierter CDS Views
- Die „Analytical Engine“ nutzt ebenfalls CDS Views
- Es gibt einen „Push-Down“ von Funktionalität zur SAP HANA-Datenbank, wo immer möglich
- SAP BI Frontends nutzen CDS Views über das SAP Gateway oder die Analytical Engine
- Endanwender-Tools generieren CDS Views für analytische Queries

Weitere Informationen zu CDS Views

- [SAP Help](#)
- [Core Data Services in SAP S/4HANA \[Blog\]](#)
- [SAP S/4HANA Extensibility – Custom CDS Views in SAP S/4HANA Cloud and differences with SAP S/4HANA \(OP\) \[Blog\]](#)

Begrifflichkeiten & Architektur

HANA Live vs. S/4HANA Embedded Analytics

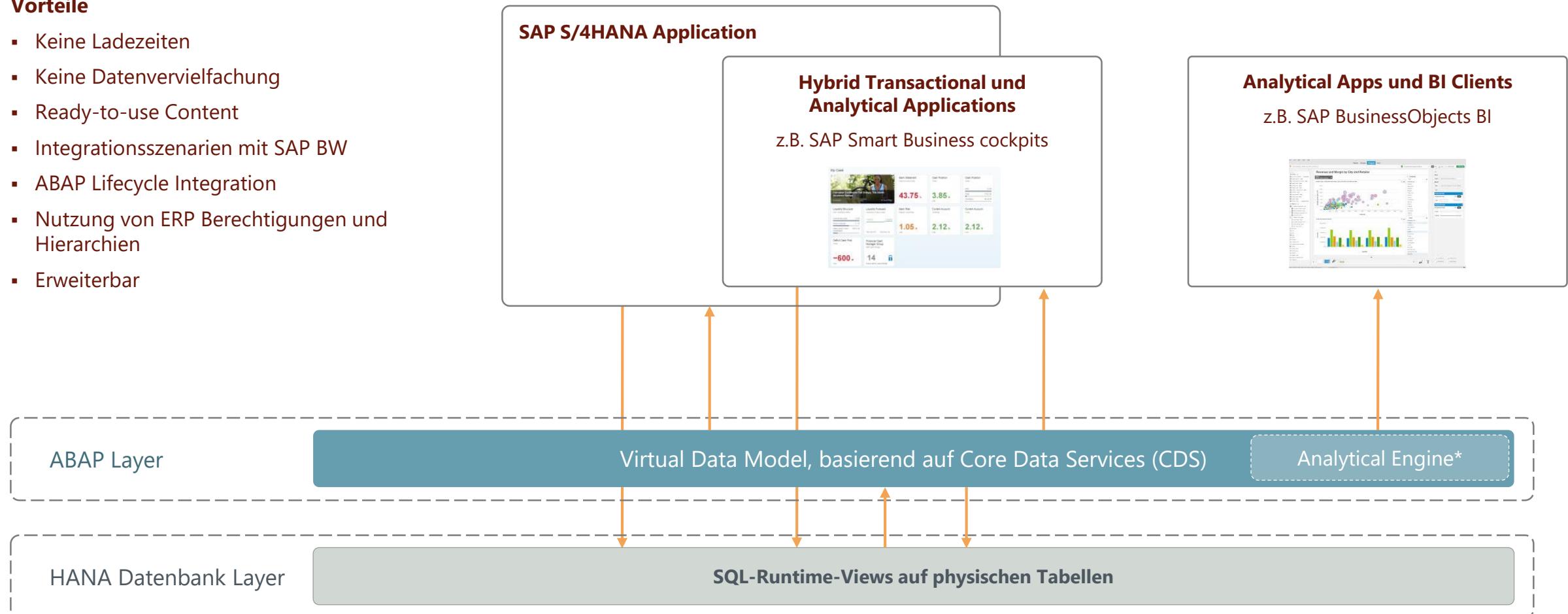


Begrifflichkeiten & Architektur

S/4HANA Embedded Analytics

Vorteile

- Keine Ladezeiten
- Keine Datenvervielfachung
- Ready-to-use Content
- Integrationsszenarien mit SAP BW
- ABAP Lifecycle Integration
- Nutzung von ERP Berechtigungen und Hierarchien
- Erweiterbar



*mit transienten BEx Queries

Nr.	Thema
1	Kurzvorstellung
2	Übersicht Analytics mit SAP S/4HANA
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Übersicht Analytics mit SAP S/4HANA

Business Intelligence Frontends

SAP S/4HANA Embedded Analytics

Endanwender (Anzeige)

Multi-dimensional
Berichte

Smart Business
KPIs /
Analyse Pfade

Query Browser

Overview
Page

Analytische
List Page

Analytische
Fiori App

Key User (Anpassungen)

Embedded BW

Enterprise Data Warehouse (Strategic Analytics)

Business Warehouse

Virtuelles Datenmodell (IT Mitarbeiter)

Bestehende CDS Views

HANA Datenbank

Tabellen, SQL Views, Stored Procedures, ...

Out-of-the-Box-Analytics Overview Page

SAP

Procurement Overview ▾

Standard * Filtered By (1): Supplier

Contract Monitoring 3 of 35
Ranked by consumption and validity date

Contract	Validity Date	Amount	Progress (%)
Contract A	22 months left	50K USD	91%
Contract B	19 months left	47K USD	84%
Contract C	34 months left	5K USD	45%

Off-Contract Spend 3 of 10
This week

Supplier	Date	Amount
Jologa	JUL 14, 2016	59K USD
PC Gym Tec	JUL 13, 2016	32K USD
DelBont Industries	JUL 12, 2016	77K USD

Recent Contacts

Donna Moore
Company A



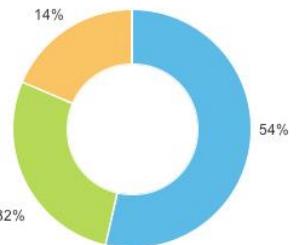
Open Activities 20 of 42
Supplier development

[View All](#)

Activity	Delivery Date	Value
Laser Basic	2 days	180 EA 9.8K USD
Photo Scan	3 days	68 EA 4.6K USD
Ergo Mousepad	2 days	75 EA 2.1K USD

Purchase Order Management
Year to date

Canceled Purchase Orders by Product Type



Product Type	Percentage
Accessories	54%
Smartphone	32%
Printer	14%

Non-Managed Spend by Supplier 5 of 40
Last 30 days

Supplier	Amount
Supplier A	29.4K USD
Supplier B	21.1K USD
Supplier C	17.8K USD
Supplier D	

Contract Monitoring EMEA 3 of 35
By consumption, compared to last year

Contract	Progress (%)	Change (%)
Contract A	91%	+4%
Contract B	52%	+2%
Contract C	23%	+1%

Quick Links

- Create Supplier
- Create Purchase Order
- Create Contract
- Manage Products
- Manage Purchase Orders
- Supplier Invoices List

Out-of-the-Box-Analytics

Multidimensional Reporting Client

The screenshot displays two SAP analytical reports side-by-side:

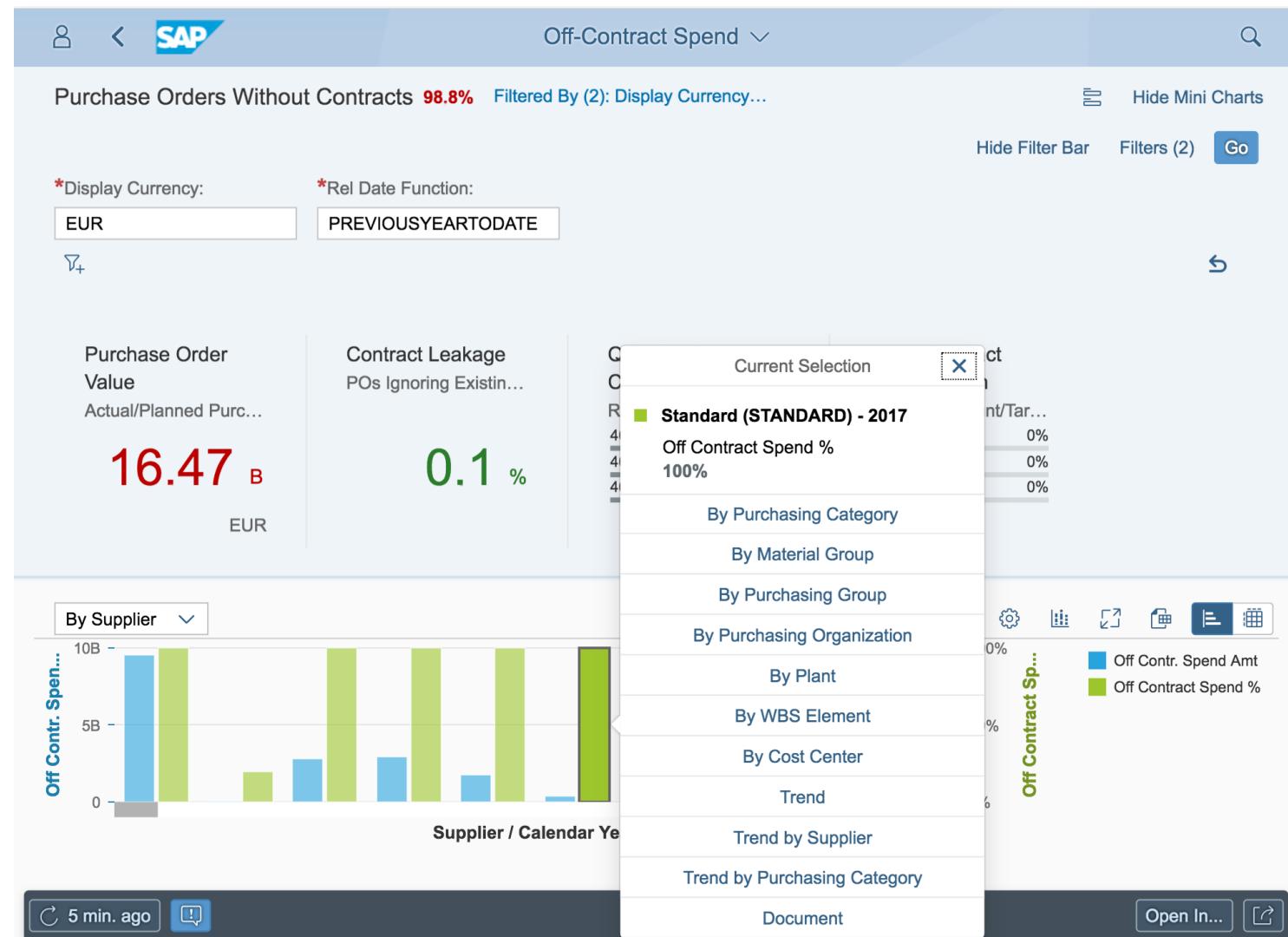
Incoming Sales Orders Report: This report shows a bar chart of sales orders. The Y-axis represents monetary values from 0.00 € to 25,000,000.00 €. The X-axis shows dates from 03/2015 to 06/2015. Two bars are visible: one blue bar for April 2015 reaching approximately 22,000,000 €, and one yellow bar for May 2015 reaching approximately 18,000,000 €.

Trial Balance Report: This report displays a detailed trial balance table. The table has columns for G/L Account, Starting Balance, Debit Balance, Credit Balance, and Ending Balance. The table includes sections for Assets, Current assets, Prepayments and accrued, Liabilities, Profit and loss statement, and Supplement.

G/L Account	Starting Balance	Debit Balance	Credit Balance	Ending Balance
Acc Balance Sheet (#266) / P&L (...	0.00 EUR	1,120,569.84 EUR	-1,120,569.84 EUR	0.00 EUR
ASSETS	24,789,856.92 EUR	818,438.84 EUR	-531,023.16 EUR	25,077,272.60 EUR
A. Subscriptions to capital stock	0.00 EUR	246,880.29 EUR	0.00 EUR	246,880.29 EUR
B. Current assets	24,788,956.92 EUR	571,552.55 EUR	-530,917.16 EUR	24,829,592.31 EUR
C. Prepayments and accrued inc...	900.00 EUR	6.00 EUR	-106.00 EUR	800.00 EUR
LIABILITIES	-825,650.92 EUR	6,776.96 EUR	-287,767.69 EUR	-1,106,641.65 EUR
Profit and loss statement	-23,951,354.00 EUR	34,595.05 EUR	-37,145.00 EUR	-23,953,903.95 EUR
Supplement	-12,852.00 EUR	260,758.99 EUR	-264,633.99 EUR	-16,727.00 EUR

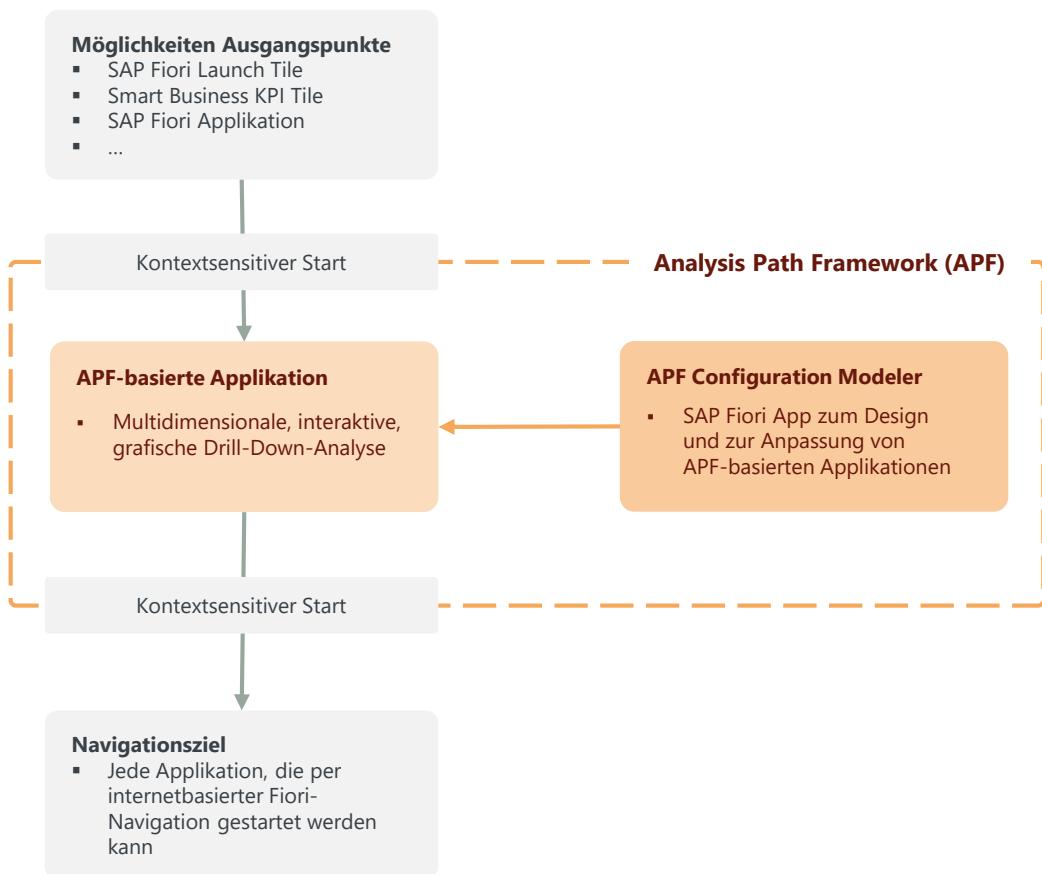
Out-of-the-Box-Analytics

SAP Smart Business KPI



Out-of-the-Box-Analytics

Analysis Path Framework 1/2

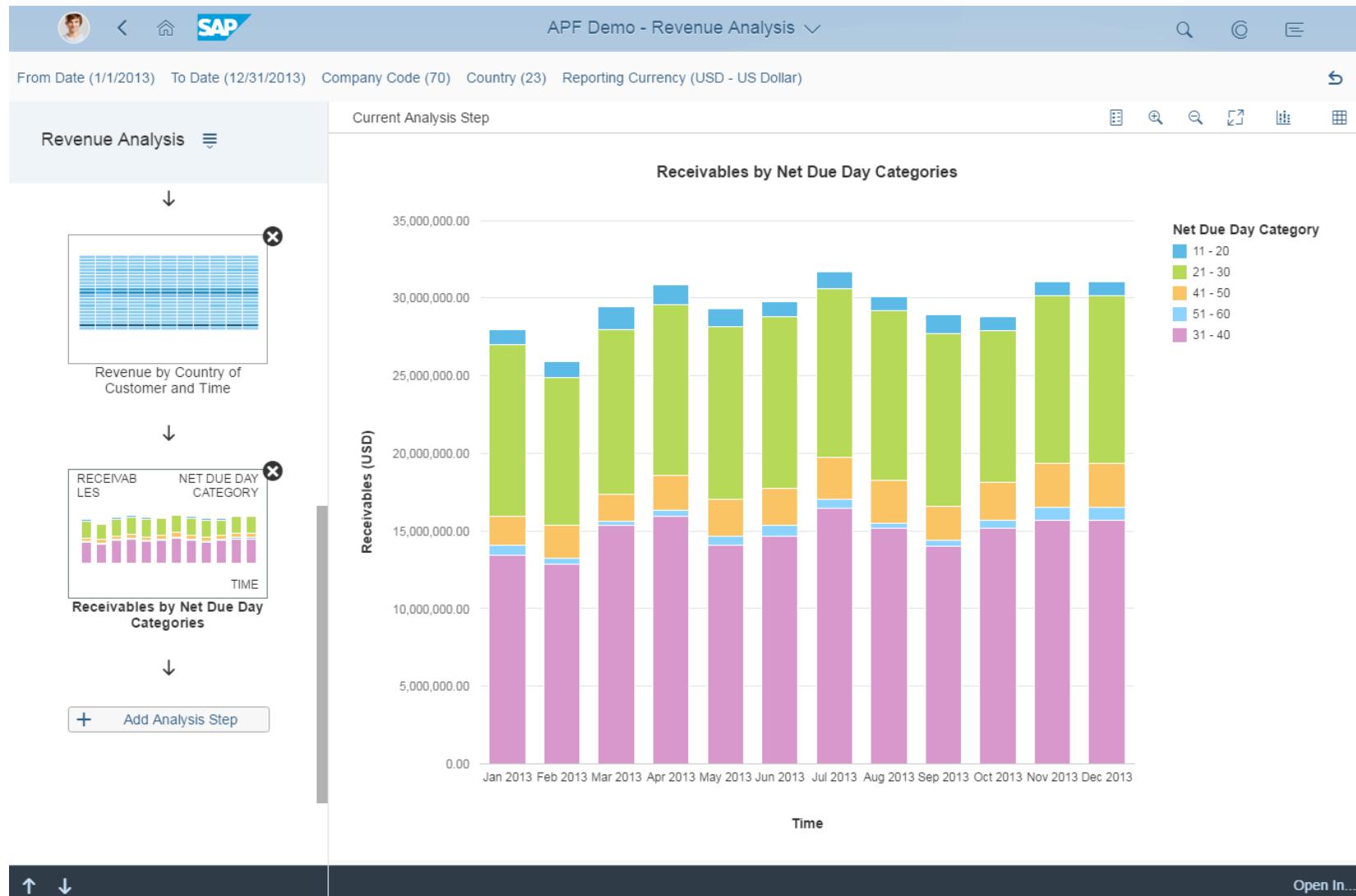


Analysis Path Framework (APF)

- Das APF ist ein Framework für Endanwender, um interaktive, analytische Drilldown-Apps mit grafischen Auswertungen zu konfigurieren.
- APF basierte Apps erlauben dem Anwender KPIs von verschiedenen Datenquellen Schritt für Schritt zu analysiere. Hierbei wird kontextsensitiv von einem Schritt zum nächsten gesprungen.
- Startpunkt können verschiedene Quellen, wie z. B. Smart Business KPIs oder eine explizites Fiori Kachel sein.
- Das APF basiert auf einer Reihe von SAP Fiori Apps

Out-of-the-Box-Analytics

Analysis Path Framework 2/2



Out-of-the-Box-Analytics

Query Browser

The screenshot displays the SAP Query Browser interface, which is part of the SAP Fiori Launchpad. The left side shows a navigation bar with the SAP logo and a search bar. Below the search bar, there are several tiles:

- Query Browser**: A tile with a magnifying glass icon and the text "Launch tile".
- Identity and Access Management**: Includes four sub-tiles: "Maintain Business Users" (user icon), "Display Technical Users" (key icon), "Maintain Communication Users" (globe icon), and "Maintain Catalog Roles" (user icon).
- Install Additional Software**: A tile with a server icon.

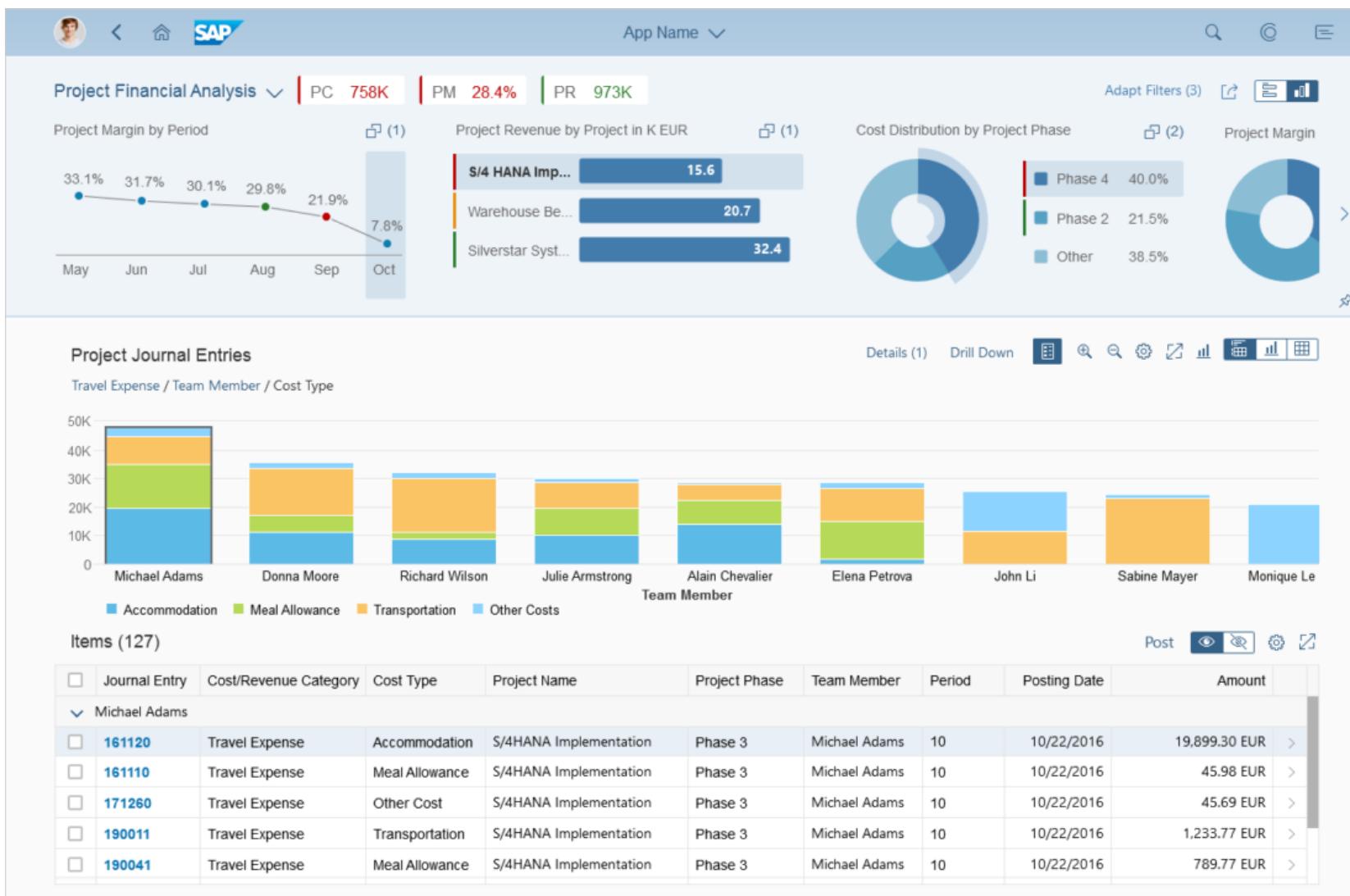
The right side of the screen shows a detailed view of the "Analytical Queries" list:

View Name	View Description	Application Component
CZ_ACDOMA_QUERY	CZ_ACDOMA_QUERY	SD-SLS
CZ_ACDOMA_QUERY_COPY	CZ_AcDocA_Query_Copy	SD-SLS
CZ_ACTIVEPROJECTS	Active Projects	FI-GL
CZ_CASHFLOW	CZ_CASHFLOW	FI-GL
CZ_EASILINEITEMS	CZ_EASILINEITEMS	FI-GL
CZ_EASILINEITEMS_WO_PARAMS	EASI Line Items without parameters	FI-GL
CZ_GLLINEITEMSQ0001	ss	SD-SLS
CZ_KPIS	CZ_KPIS	FI-GL
CZ_PAYMENTS	payment card	FI-GL
CZ_PROJECTKPI	CZ_ProjectKPIs	FI-GL
CZ_PROKPIAGGT	Cz_Prokpiagg	FI-GL
CZ_TIMEDEPCHECK	Time Dependency Check	FI-GL
C_ACTUALCASHFLOWANALYTICS	Actual Cash Flow in 90 days	FIN-FSCM-CLM
C_APcashdiscountforecast	Cash discount forecast	FI-GL-IS
C_APCHSDISCOUNTUTILIZATION	Account Payable Cash Discount Utilization	FI-GL-IS
C_APDAYSPAYOUTST	Accounts Payable. Days Payables Outstanding	FI-GL-IS
C_APFLEXIBLEAGING	Aging Analysis	FI-GL-IS
C_APFUTUREACCOUNTSPAYABLE	Accounts Payable. Future Accounts Payable	FI-GL-IS

At the bottom of the right panel, there are buttons for "Add Tags" and "Open in Design Studio".

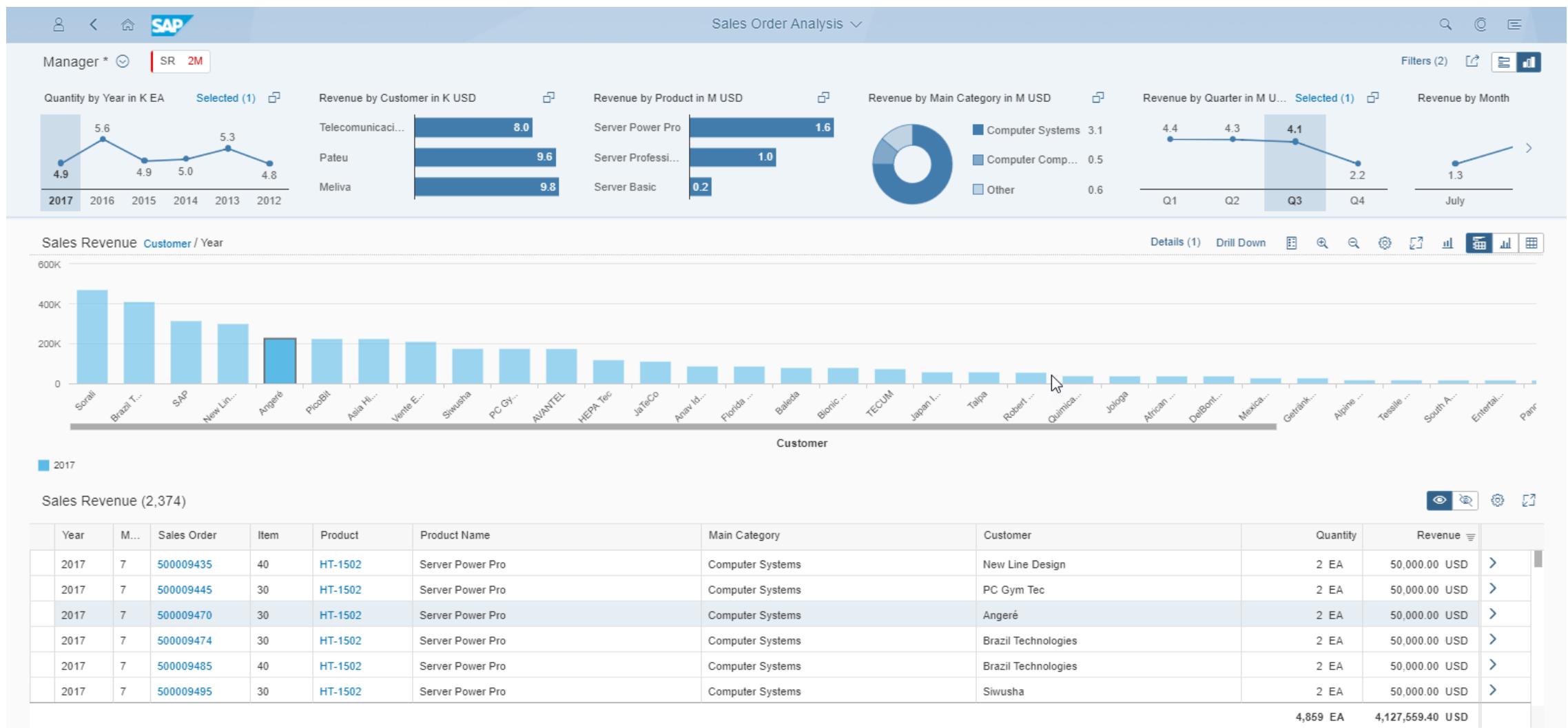
Out-of-the-Box-Analytics

Analytische List Page 1/3



Out-of-the-Box-Analytics

Analytische List Page 2/3



Out-of-the-Box-Analytics

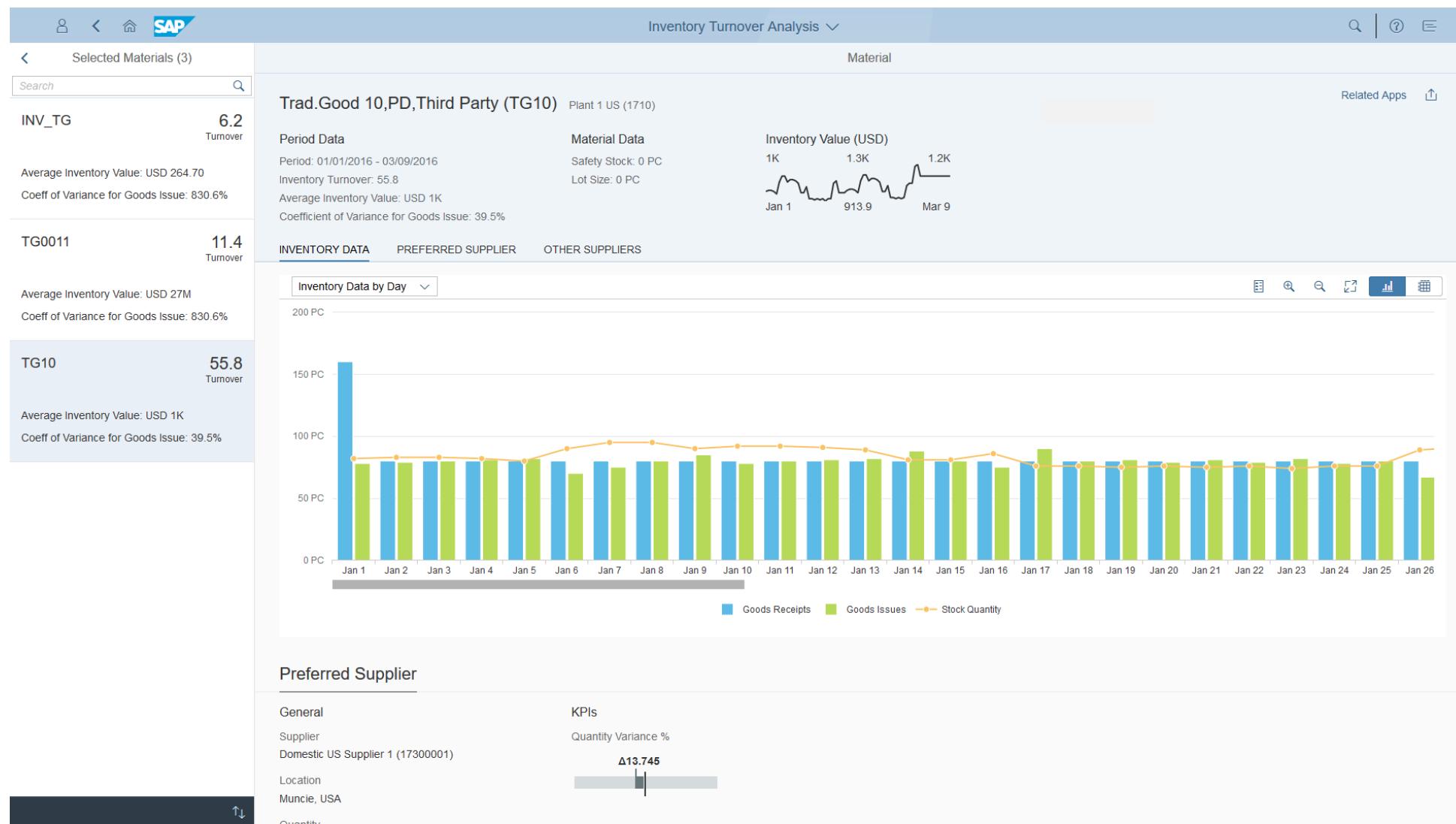
Analytische List Page 3/3: Vergleich zu einer einfachen Liste

The screenshot shows a SAP Fiori Analytic List Page titled "Work Items with Errors (23)". The page has a header with a user profile, SAP logo, application name dropdown, search, refresh, and exit icons. Below the header, there are summary counts for Errors (23), Warnings (50), and Completed (50) items. The main content area displays a table with columns: Document Number, Description, User Name, Posting Date, and Amount (Local Currency). The table lists 23 rows of data, each corresponding to an error item. The data includes various descriptions like "AK_012 Revoked", "Regular returns of material i...", and "A-B45 Revoked on delivery". The user names are Denise Smith and Richard Wilson, and the posting date is 01.01.2014 for all entries. The amount column shows values such as 12,897.00 EUR and 234,197.00 EUR.

Work Items with Errors (23)				
Document Number	Description	User Name	Posting Date	Amount (Local Currency)
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
10223882001820		Richard Wilson	01.01.2014	234,197.00 EUR
10223882001820	Regular returns of material i...	Denise Smith	01.01.2014	11,865.99 EUR
10223882001820	A-B45 Revoked on delivery	Richard Wilson	01.01.2014	12,897.00 EUR
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
10223882001820	Random Check	Richard Wilson	01.01.2014	12,897.00 EUR
10223882001820		Richard Wilson	01.01.2014	234,197.00 EUR
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
10223882001820	A-B45 Revoked on delivery	Richard Wilson	01.01.2014	12,897.00 EUR
10223882001820	Regular returns of material i...	Richard Wilson	01.01.2014	234,197.00 EUR
10223882001820		Richard Wilson	01.01.2014	12,897.00 EUR
10223882001820	Random Check	Richard Wilson	01.01.2014	12,897.00 EUR
10223882001820	Regular returns of material i...	Denise Smith	01.01.2014	11,865.99 EUR
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
10223882001820		Richard Wilson	01.01.2014	234,197.00 EUR
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
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10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR
10223882001820	AK_012 Revoked	Denise Smith	01.01.2014	12,897.00 EUR

Out-of-the-Box-Analytics

Analytical SAP Fiori Applications 1/3



Out-of-the-Box-Analytics

Analytical SAP Fiori Applications 2/3

SAP

Inventory Turnover Analysis

Selected Materials (3)

Material	Turnover
INV_TG	6.2
TG0011	11.4
TG10	55.8

Average Inventory Value: USD 264.70
Coeff of Variance for Goods Issue: 830.6%

Average Inventory Value: USD 27M
Coeff of Variance for Goods Issue: 830.6%

Average Inventory Value: USD 1K
Coeff of Variance for Goods Issue: 39.5%

Preferred Supplier

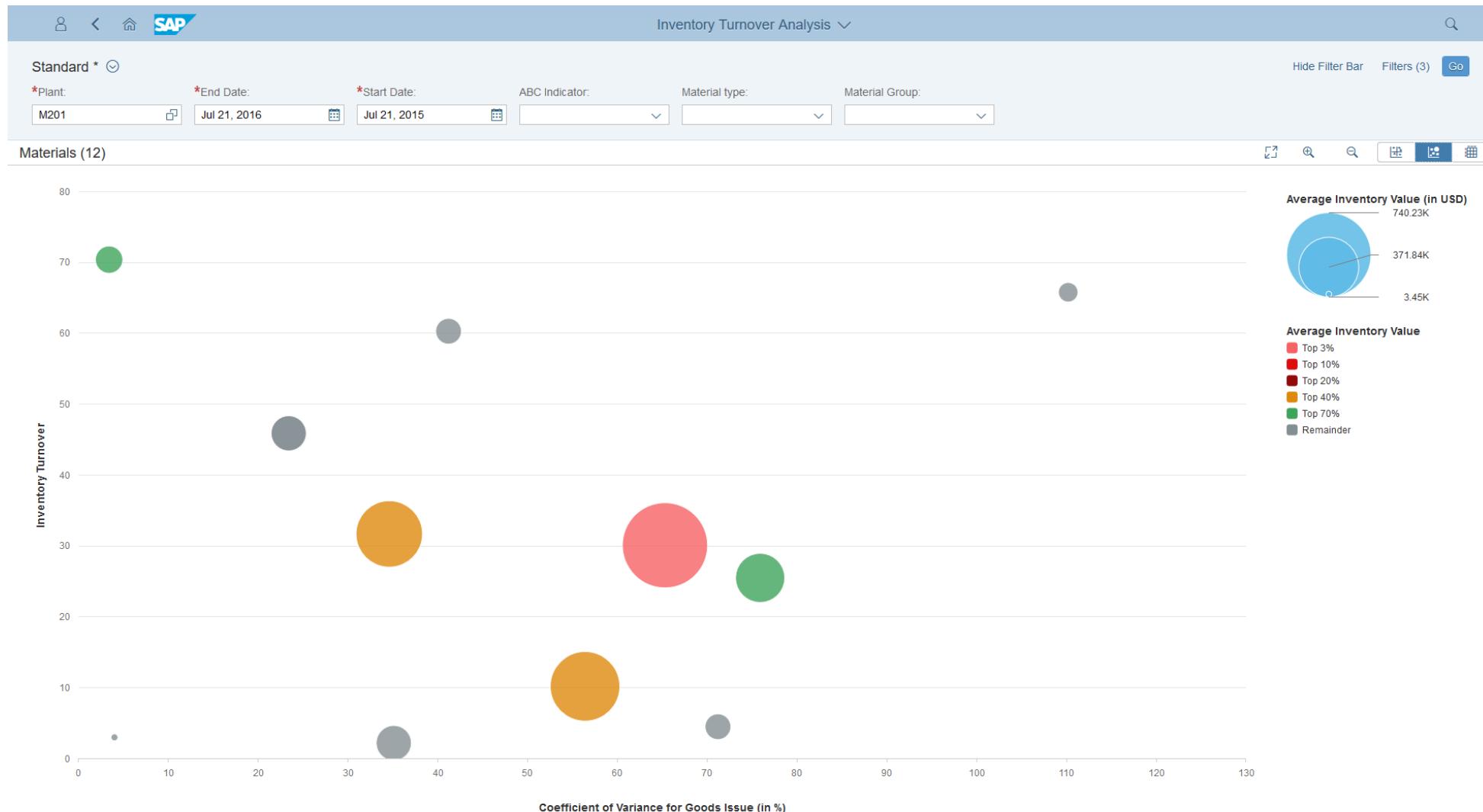
General	KPIs
Supplier: Domestic US Supplier 1 (17300001)	Quantity Variance %: Δ13.745
Location: Muncie, USA	Time Variance %: Δ22.225
Quantity: 15,414 PC	

Other Suppliers

Suppliers (1)					
Supplier	City	Country	Quantity	Time Variance	Quantity Variance
Domestic US Supplier 2 (17300002)	Bismarck	USA		0%	0%

Out-of-the-Box-Analytics

Analytical SAP Fiori Applications 3/3



Übersicht Analytics mit SAP S/4HANA

Business Intelligence Frontends

SAP S/4HANA Embedded Analytics

Endanwender (Anzeige)

Multi-dimensionale Berichte

Smart Business KPIs / Analyse Pfade

Query Browser

Overview Page

Analytische List Page

Analytische Fiori App

Key User (Anpassungen)

CDS Key User Tools

KPI Modellierungs App

Embedded BW

Enterprise Data Warehouse (Strategic Analytics)

Business Warehouse

Datenbank

Virtuelles Datenmodell (IT Mitarbeiter)

Bestehende CDS Views

HANA Datenbank

Tabellen, SQL Views, Stored Procedures, ...

Out-of-the-Box-Analytics

CDS Key User Tools 1/3

The screenshot shows the SAP View Browser interface. At the top, there are statistics: 22825 Views, 7544 Basic, 3234 Composite, 4439 Consumption, 200 Extension, and 7408 Undefined. Below this is a search bar and navigation buttons for 'Create Application' and 'Edit Application'. A sidebar on the left lists 'Views (41)' and 'Released Views'. The main area displays a table of views with columns: Favorite, Tags, Release Status, Name, Description, Application Component, Category, Type, and two buttons: 'Open in Analytical Query' and 'Copy Analytical Query'. The table contains several rows of view details.

Favorite	Tags	Release Status	Name	Description	Application Component	Category	Type	Open in Analytical Query	Copy Analytical Query
<input checked="" type="checkbox"/>		Yes	C_CASHFLOWINDIRECTIFRS	Cash Flow Statement Indirect IFRS	FI-GL-IS	Query	Consumption		
<input type="checkbox"/>		Yes	C_CFD_TSM_SO_ITEM_QUERY	TSM Sales Order Item Query	BC-SRV-APS-EXT-FLD	Query	Consumption		
<input type="checkbox"/>		Yes	C_COSTCENTERQ2001	Cost Centers - Actuals	FI	Query	Consumption		
<input type="checkbox"/>		Yes	C_FUNCTIONALAREASQ2801	Functional Areas - Actuals	FI	Query	Consumption		
<input type="checkbox"/>		Yes	C_GLLINEITEMSQ0001	Journal Entry Analyzer	FI	Query	Consumption		

View Browser

- Der View Browser erlaubt das Anzeigen von tausenden CDS Views und den darüber erreichbaren Daten
- Views lassen mittels Keyword-Suche über folgenden Feldern finden
 - ID
 - Beschreibung
 - Applikationskomponente
 - Kommentare
 - Feldnamen
 - Namen von Datenbanktabellen
 - Tags
- Views können als Favoriten markiert und mit einem Tag versehen werden

Out-of-the-Box-Analytics

CDS Key User Tools 2/3

The image displays three vertically stacked screenshots of the SAP Fiori Custom CDS View app. The top screenshot shows the 'Association Relationship' configuration screen, where users can define primary and associated data sources and map fields. The middle screenshot shows the 'General' configuration screen for a view named 'TSM Country', including fields for name, label, status, and reporting. The bottom screenshot shows the 'Field Selection' screen, where available fields from various data sources are listed and selected for inclusion in the view.

Custom CDS View

- Mit der Custom CDS View App können Key User eigene CDS Views modellieren, die auf folgenden Quellen basieren können
 - Öffentliche Views, des durch SAP ausgelieferten Virtuellen Datenmodells (VDM)
 - Kundeneigene CDS Views
- Für Details siehe "[Create and expose a custom CDS view](#)"

Out-of-the-Box-Analytics

CDS Key User Tools 3/3

Type	Label	Name	Selection
Communication Medium	CommunicationMedium	InteractionMedium	<input type="checkbox"/>
Interaction	Interaction	Interaction	<input checked="" type="checkbox"/>
Interaction Channel	InteractionChannel	InteractionChannel	<input checked="" type="checkbox"/>
Direction	InteractionDirection	InteractionDirection	<input checked="" type="checkbox"/>
Interaction Type	InteractionType	InteractionType	<input checked="" type="checkbox"/>
Date	InteractionUTCDate	InteractionUTCDate	<input checked="" type="checkbox"/>
Item of Interest	ItemOfInterest	ItemOfInterest	<input type="checkbox"/>
Interaction Interests	NumberOfInteractionInterests	NumberOfInteractionInterests	<input checked="" type="checkbox"/>
BAdI Import IA 4 IC	YY1_BAdIImportIAIC1_MIA	YY1_BAdIImportIAIC1_MIA	<input type="checkbox"/>
CAR BRANDS	YY1_CARBRANDS_MIA	YY1_CARBRANDS_MIA	<input type="checkbox"/>
CUSTOM_FIELD_IA	YY1_CUSTOM_FIELD_IA_MIA	YY1_CUSTOM_FIELD_IA_MIA	<input checked="" type="checkbox"/>
CUSTOM_VALUE_FIELD_I	YY1_CUSTOM_VALUE_FIELD_MIA	YY1_CUSTOM_VALUE_FIELD_MIA	<input checked="" type="checkbox"/>
Year Week	YearWeek	YearWeek	<input type="checkbox"/>

Type	Label	Name	Display	Filter	Remove
Interaction	Interaction	Interaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interaction Channel	InteractionChannel	InteractionChannel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interaction Type	InteractionType	InteractionType	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Direction	InteractionDirection	InteractionDirection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Date	InteractionUTCDate	InteractionUTCDate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Extended Dimension ABC	YY1_CUSTOM_FIELD_IA_MIA	YY1_CUSTOM_FIELD_IA_MIA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interaction Interests	NumberOfInteractionInterests	NumberOfInteractionInterests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Extended Keyfigure DEF	YY1_CUSTOM_VALUE_FIELD_MIA	YY1_CUSTOM_VALUE_FIELD_MIA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Custom Analytical Queries

- Die Custom Analytical Query App wird auch Query Designer genannt, weil sie ähnlich wie der BEx Query Designer funktioniert
- Mit der Query Designer Fiori App können eigene analytische Queries erstellt und angepasst werden.
- Für Details siehe z. B. "[How to create a custom analytical query and display in a grid based application](#)" oder "[How to Create Custom Analytical Queries for SAP Hybris Marketing Cloud](#)"

Type	Label	Name	Display	Filter	Remove
Interaction	Interaction	Interaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interaction Channel	InteractionChannel	InteractionChannel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interaction Type	InteractionType	InteractionType	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Direction	InteractionDirection	InteractionDirection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Date	InteractionUTCDate	InteractionUTCDate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Extended Dimension ABC	YY1_CUSTOM_FIELD_IA_MIA	YY1_CUSTOM_FIELD_IA_MIA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interaction Interests	NumberOfInteractionInterests	NumberOfInteractionInterests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Extended Keyfigure DEF	YY1_CUSTOM_VALUE_FIELD_MIA	YY1_CUSTOM_VALUE_FIELD_MIA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Label:	Interaction
Override Label:	Interaction
Name:	Interaction
Dimension:	
Display:	<input checked="" type="checkbox"/>
Display Result:	Hide

Out-of-the-Box-Analytics KPI Modellierungs Apps

The screenshot shows the SAP Fiori Launchpad interface for configuring KPI tiles. On the left, a sidebar lists various evaluations, including:

- Aging Analysis - Payable Amount (ID: usd.SFIN.AP.FLEXAGING.PAYABLE...)
- Overdue Payables - Today (USD) (ID: usd.SFIN.AP.OVERDUEPAYABLES.T...)
- Cash Discount Utilization - Last 60 Days (ID: lucky.SFIN.AP.DISCOUNTUTIL.60DA...)
- Cash Discount Utilization - Last 60 Days (ID: luckyusd.SFIN.AP.DISCOUNTUTIL.6...)
- Sales Order Fulfillment Issues - jba sofm pbs (ID: zjbasofmpbs)
- Sales Order Fulfillment Issues - zz jba sofm pbs (ID: zzjbasofmpbs)

The main area displays "Configured Tiles" for "Today (USD)" with the ID "usd.SFIN.AP.OVERDUEPAYABLES.TODAY". The tile is currently set to "Overdue Payables Today (USD)" with three values: 1550M, 219.2M, and 66.46M. A modal window titled "Add Tile" shows other tile options, such as a chart comparing Jan 1 and Jan 31 values (3M, 23M) and a bar chart with measures 1, 2, and 3.

Tile Configuration:

- Title Format: Comparison Tile
- Title (KPI): Overdue Payables
- Subtitle (Evaluation): Today (USD)
- Select Catalog: Accounts Payables - Analytics
- Dimension: OverdueCategoryName
- Sorting Order: Measure Ascending
- Semantic Color: Neutral

Navigation:

- Save
- Save and Create New
- Cancel

Übersicht Analytics mit SAP S/4HANA

Business Intelligence Frontends

SAP S/4HANA Embedded Analytics

Endanwender (Anzeige)

Multi-dimensionale Berichte

Smart Business KPIs / Analyse Pfade

Query Browser

Overview Page

Analytische List Page

Analytische Fiori App

Key User (Anpassungen)

CDS Key User Tools

KPI Modellierungs App

Embedded BW

Enterprise Data Warehouse (Strategic Analytics)

Business Warehouse

Virtuelles Datenmodell (IT Mitarbeiter)

Bestehende CDS Views

CDS View Anpassungen mittels ABAP for Eclipse

CDS View Erstellung mittels ABAP for Eclipse

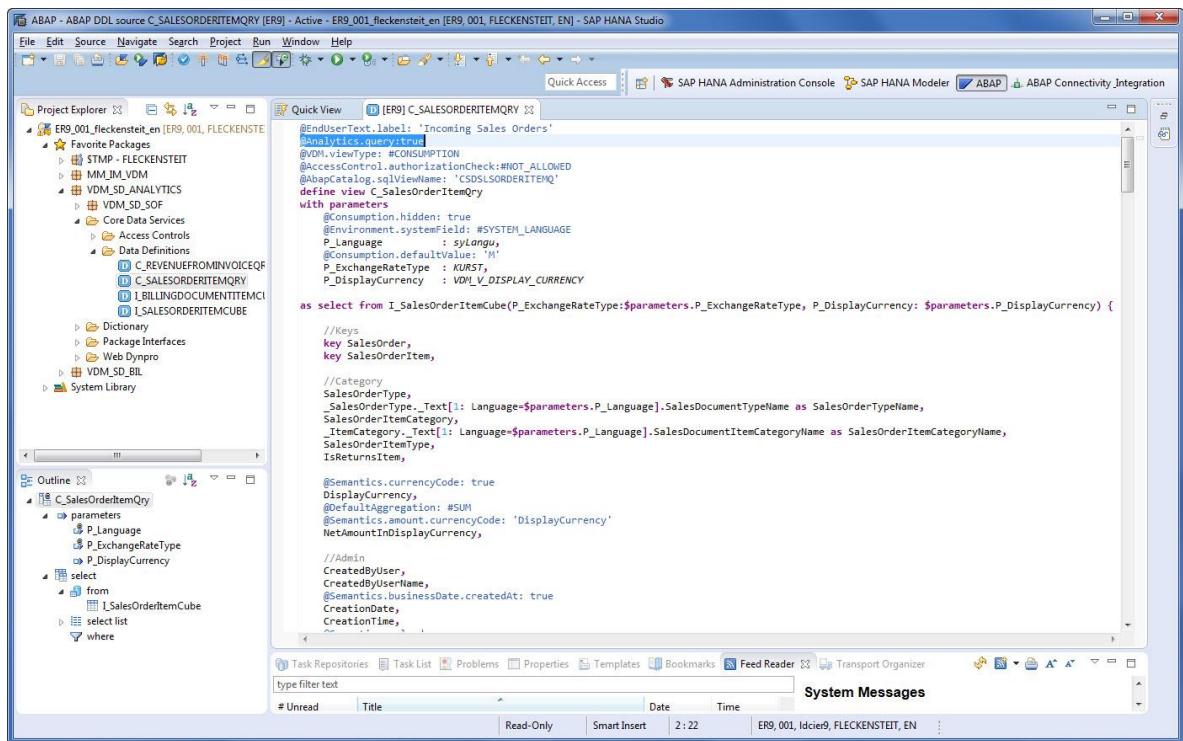
HANA Datenbank

Tabellen, SQL Views, Stored Procedures, ...

Datenbank

Out-of-the-Box-Analytics

CDS Views mit ABAP for Eclipse



The screenshot shows the SAP HANA Studio interface with the following details:

- Title Bar:** ABAP - ABAP DDL source C_SALESORDERITEMQRY [ER9] - Active - ER9_001.fleckenstei_en [ER9_001, FLECKENSTEI, EN] - SAP HANA Studio
- Project Explorer:** Shows the project structure for ER9_001.fleckenstei_en, including Favorite Packages, Core Data Services, Data Definitions, Dictionary, Package Interfaces, Web Dynpro, and System Library.
- Editor:** Displays the ABAP code for the C_SALESORDERITEMQRY view. The code defines parameters for language, exchange rate type, and display currency, and selects from the I_SalesOrderItemCube table.
- Outline View:** Shows the structure of the C_SalesOrderItemQry class, including its parameters, select statements, and from clause.
- Task Repositories:** Shows a list of tasks and their status.
- System Messages:** Shows a list of system messages with columns for Title, Date, and Time.

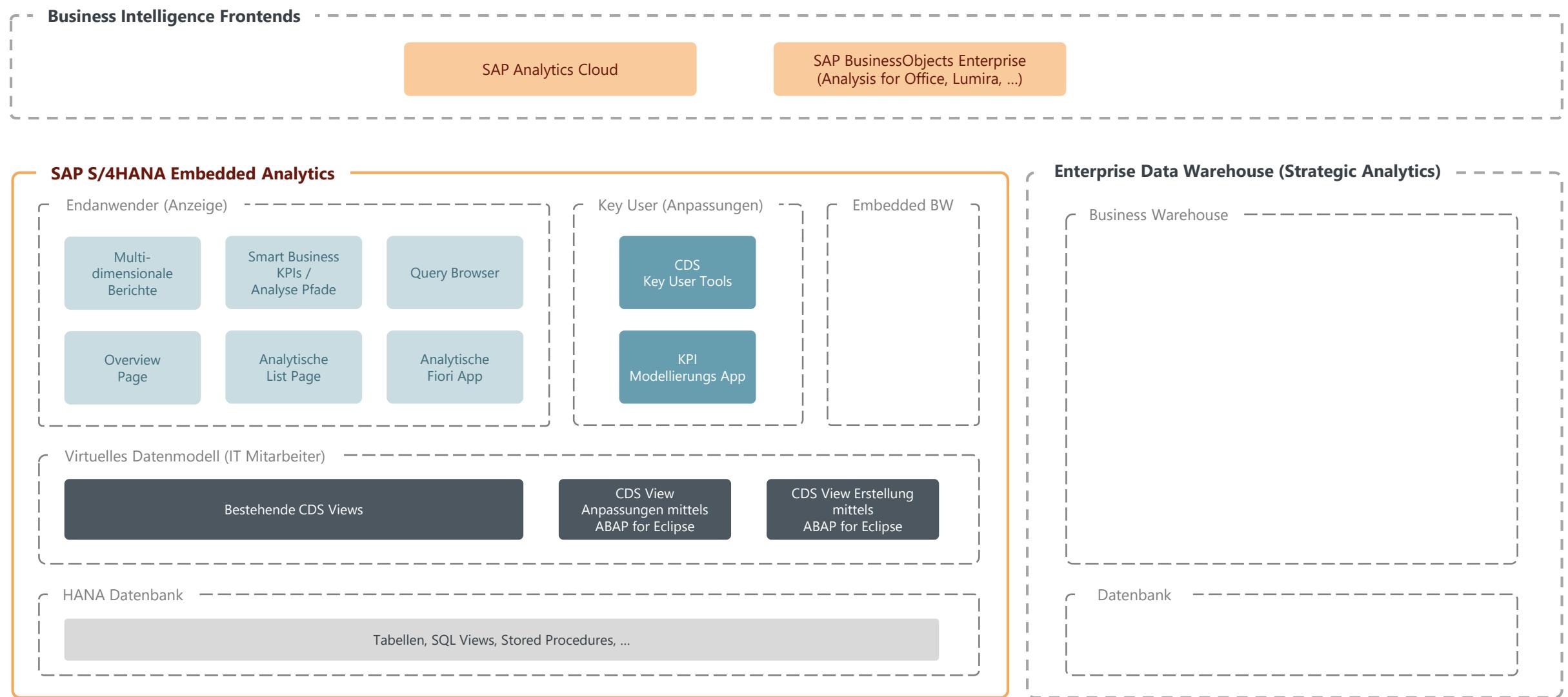
ABAP for Eclipse

- CDS Views können durch die IT mittels ABAP for Eclipse angelegt und geändert werden.
- Für Details siehe
 - [ABAP Core Data Services – Introduction \(ABAP CDS view\)](#)
 - [Create a CDS View \(ABAP\)](#)
 - [Create an analytical model based on ABAP CDS views](#)

Agenda

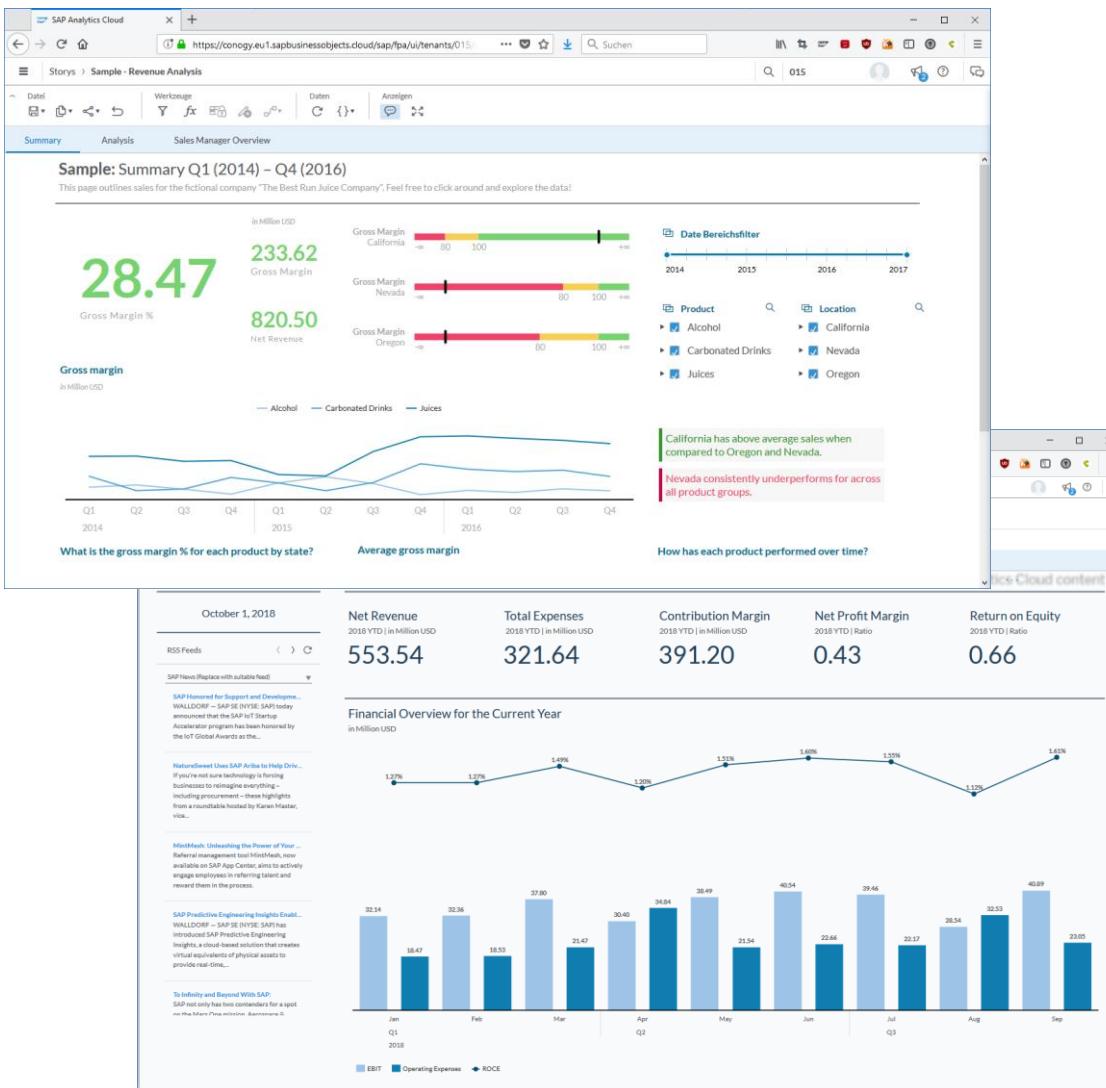
Nr.	Thema
1	Kurzvorstellung
2	Übersicht Analytics mit SAP S/4HANA
3	Begrifflichkeiten & Architektur
4	Out-of-the-Box-Analytics
5	Zusammenspiel S/4HANA Analytics mit BW und BI Frontends
6	Fragen & Antworten

Übersicht Analytics mit SAP S/4HANA



Zusammenspiel S/4HANA Analytics mit BW und BI Frontends

SAP Analytics Cloud (SAC)



SAP Analytics Cloud (SAC)

- Die SAC gibt es aktuell nur als SaaS Lösung
- Die Fokussierung auf die SAP Analytics Cloud ist strategisches Ziel der SAP. Trotzdem wird parallel in die on-premise Analytics-Lösungen investiert.
- Die SAC kombiniert Reporting, Planung, Predictive und GRC
- Eine Verbindung zwischen der SAC und einem lokalen On-Premise SAP System ist möglich, ohne dass die eigenen Daten das kundeneigene Netz verlassen.
- Die SAP Analytics Cloud kann sich u. a. mit BW BEx queries, Universen und SAP S/4HANA verbinden
- Business Content zur Anzeige von S/4HANA Daten steht bereit
- Hinweis: Die SAC ist getrennt zu lizenziieren!

Zusammenspiel S/4HANA Analytics mit BW und BI Frontends

Business Objects Enterprise

The screenshot shows two main windows of SAP BusinessObjects Design Studio.

Top Window: Displays a "Sales Dashboard US - Region North East - State Maine". It includes three cards: "Bag & Outdoor" (16.36 USD), "Office" (8.30 USD), and "Accessories" (14.82 USD). Below the cards is a map of the USA with several blue dots representing data points. A tooltip for a dot in New England says "Customer: St. Kenney Galley/21MKT". To the right is a detailed table titled "CUSTOMER INFORMATION" with columns for Customer, Region, State, City, Sales Value, and Sales Quantity. The table lists various customers like "CircusMachine Shop" and "Machine Products Inc" across different states and cities.

Bottom Window: Shows a Crystal Report titled "SAP_DEMO_SALES_DASHBOARD_CUV_V16.CSV". The report has a table with columns: Region, Berlin, California, London, Paris, and EUR. It displays monthly sales data from January 2014 to December 2014. The "Overall Result" row shows totals for each city. Below the table is a line chart showing Product Costs over time for four cities: Berlin EUR, California EUR, London EUR, and Paris EUR. The chart shows a general upward trend with some fluctuations.

Business Objects Enterprise

- Die „typischen“ BO Enterprise Frontend Tools können für den Zugriff auf S/4HANA genutzt werden. Dies sind insbesondere
 - Lumira Designer / Design Studio
 - Analysis for Office
- Für die Planung kann neben einer Fiori-basierten Planung auch BPC als Tool zum Einsatz kommen.
- Darüber hinaus können auch Crystal Reports und Web Intelligence genutzt werden.
- Hinweis: Alle hier genannten Tools sind separat zu lizenziieren!

Übersicht Analytics mit SAP S/4HANA

Business Intelligence Frontends

SAP Analytics Cloud

SAP BusinessObjects Enterprise
(Analysis for Office, Lumira, ...)

SAP S/4HANA Embedded Analytics

Endanwender (Anzeige)

Multi-dimensional
Berichte

Smart Business
KPIs /
Analyse Pfade

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Overview
Page

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Key User (Anpassungen)

CDS
Key User Tools

KPI
Modellierungs App

Embedded BW

Embedded SAP
Business Warehouse 7.5

Virtuelles Datenmodell (IT Mitarbeiter)

Bestehende CDS Views

CDS View
Anpassungen mittels
ABAP for Eclipse

CDS View Erstellung
mittels
ABAP for Eclipse

HANA Datenbank

Tabellen, SQL Views, Stored Procedures, ...

Enterprise Data Warehouse (Strategic Analytics)

Business Warehouse

SAP Business Warehouse 7.X on any DB

SAP Business Warehouse 7.X on HANA

SAP BW/4HANA

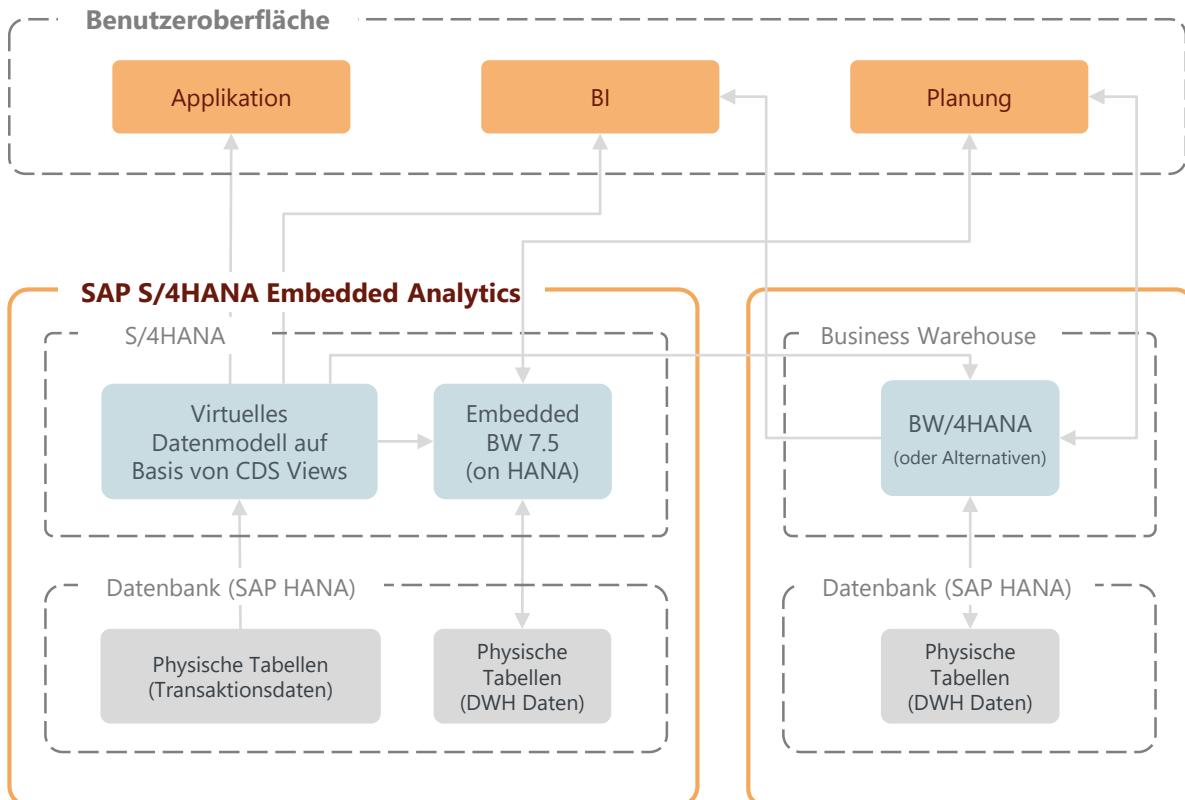
Datenbank

Any DB

SAP HANA

Zusammenspiel S/4HANA Analytics mit BW und BI Frontends

Embedded BW vs. Stand-alone BW



S/4HANA Embedded BW

- Das in S/4HANA integrierte BW ist von Seiten SAP gedacht, um in S/4HANA integrierte Geschäftsprozesse zu unterstützen, wie z. B. die integrierte Finanzplanung (aka BPC Optimized)
- Es ist nicht empfohlen, das integrierte BW als Enterprise Data Warehouse einzusetzen.
- Der Umfang der Daten im integrierten BW sollten nicht mehr als 20% der Gesamtdatenmenge ausmachen.
- Das integrierte BW basiert auf BW 7.5 on HANA. Ein zukünftiges Upgrade auf ein integriertes BW/4HANA ist aktuell *nicht* vorgesehen.
- Alle zukünftigen Entwicklungen im Bereich Business Warehouse erfolgen im BW/4HANA.

Stand-alone BW

- Empfohlen für
 - größere Datenmengen
 - Integration unterschiedlicher Datenquellen
- BW/4HANA als das Business Warehouse der Zukunft