

SAP Analytics when transitioning to S/4HANA

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Opening Remarks

- **Introduction & Background**
- **Objective of this session – SAP Analytics impact and considerations, when transitioning to S/4HANA**



Agenda

- 00** What is “Clean Core”?
- 01** “Clean Core” SAP Analytics
- 02** S/4HANA Analytics
- 03** Visualization & Planning
- 04** Summary / Final notes



Agenda

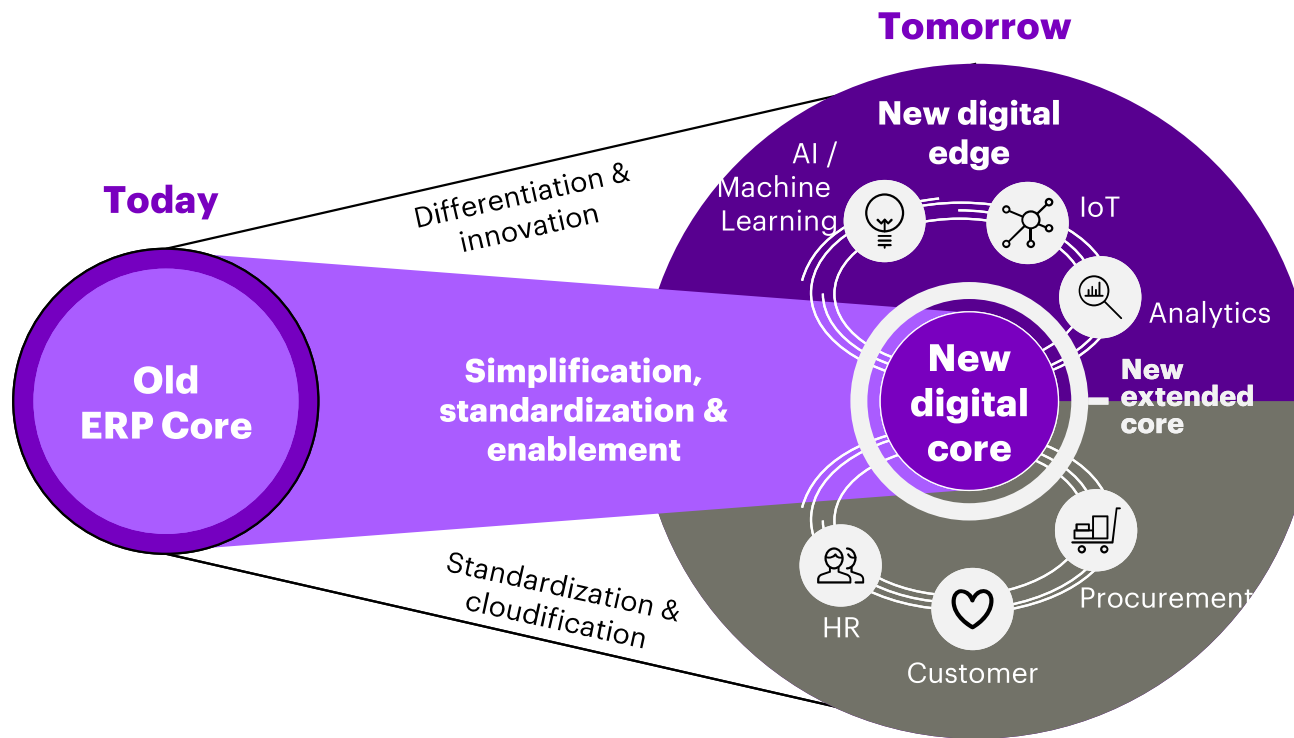
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00. What is “Clean Core”?

The New Architecture – New System Opportunities

A modern ERP architecture enables a simplified core as well as differentiated edge capabilities to drive value



New digital edge: **Differentiation & innovation**

Leverage new technologies in a pilot and scale approach to embrace emerging capabilities to reach consumers/customers and partners.

New S/4HANA digital core: **Simplification & standardization**

Refocus ERP on its core functionalities in order to enable agility and ease data exposure for consumption by core apps.

New extended core: **Data & integration**

Leverage data and APIs to connect data and applications, develop new digital solutions and edge capabilities

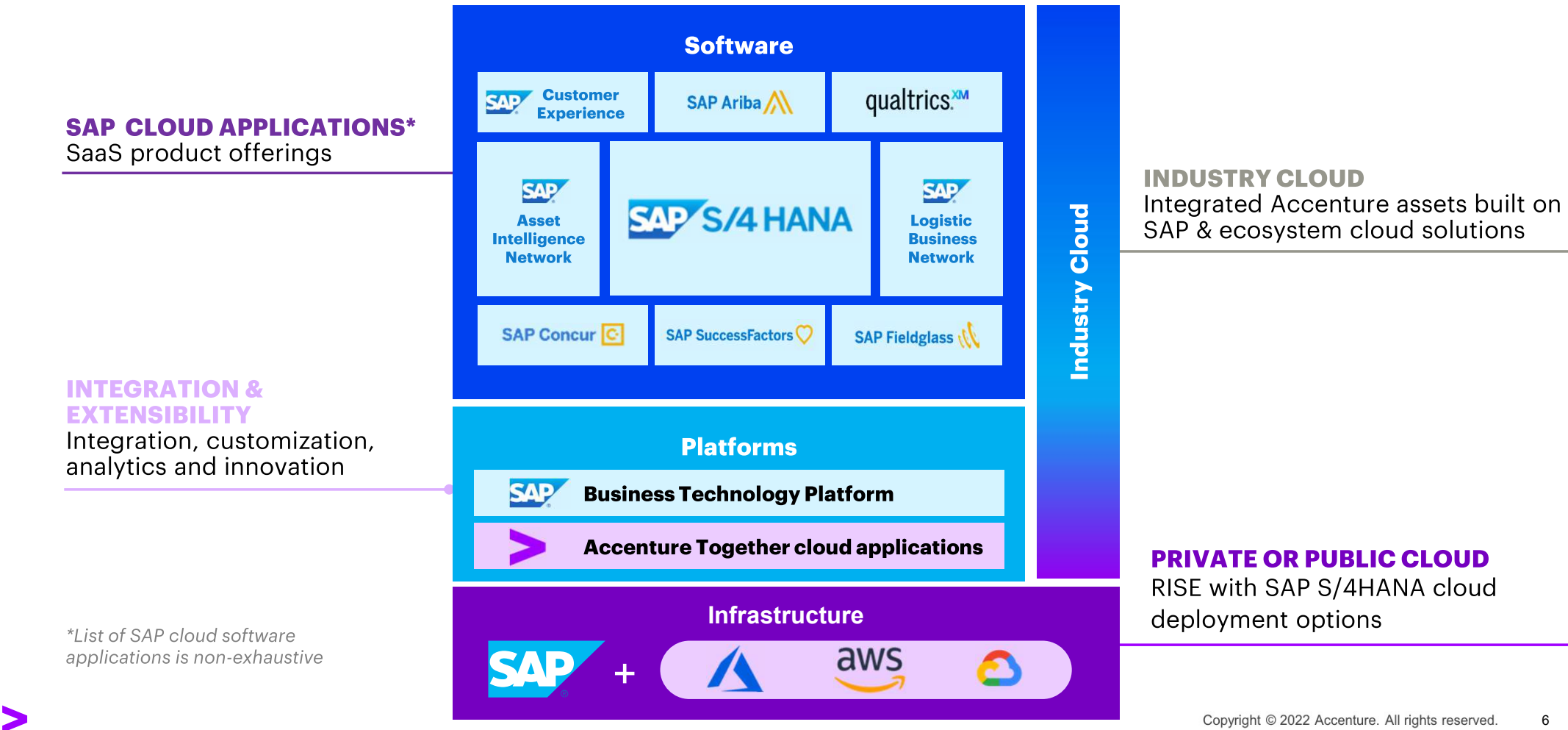
Supporting cloud solutions: **Standardization & cloudification**

Standardize commoditized applications to leverage most advanced cloud-based solutions, moving to the cloud in order to release resources to foster innovation.



00. What is “Clean Core”?

As clients’ ERP strategy shifts towards a **clean digital core** extended with **integrated cloud applications** and **platforms**, SAP offers an extensive portfolio of cloud solutions



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00 What is “Clean Core”?

01 “Clean Core” SAP Analytics

02 S/4HANA Analytics

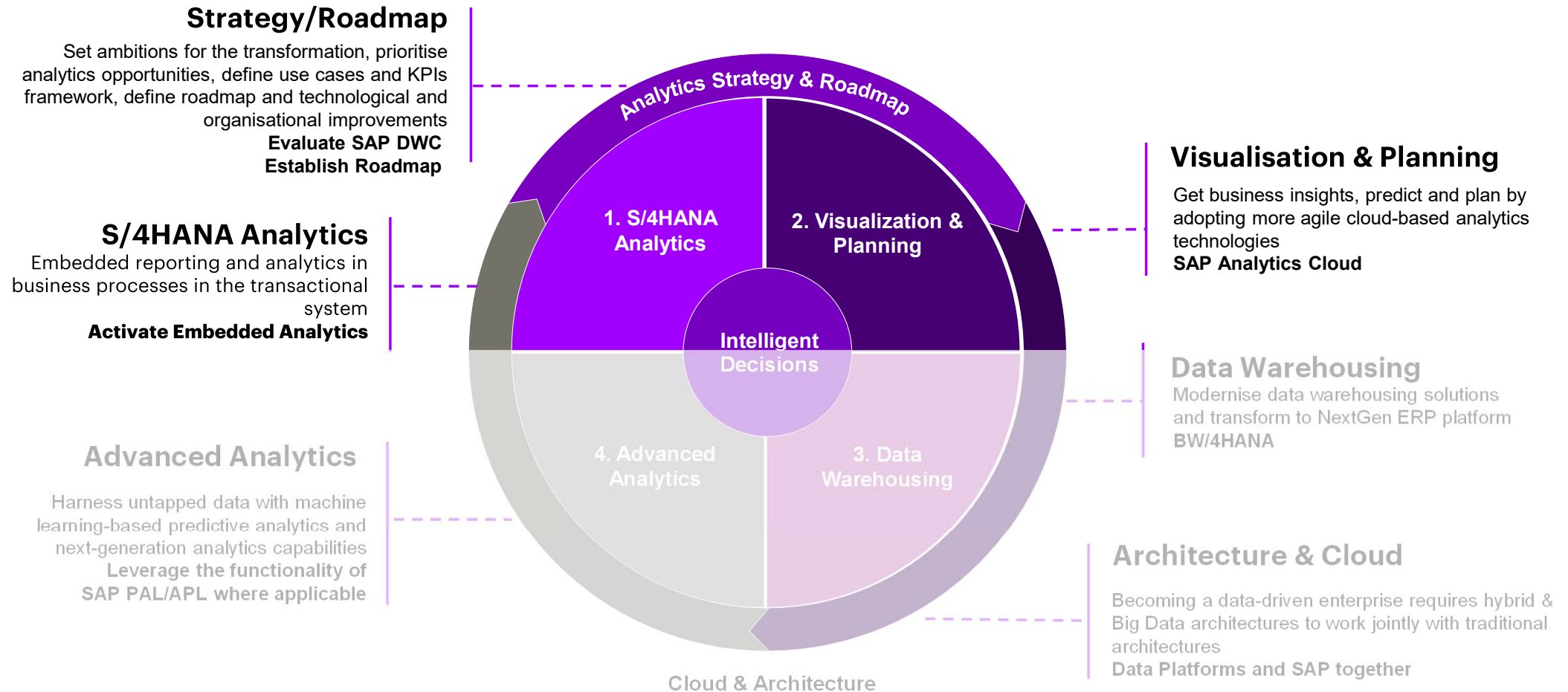
03 Visualization & Planning

Summary / Final notes



01. “Clean Core” SAP Analytics

Analytics in the context of “Clean Core”



A Multi-platform Reporting Architecture

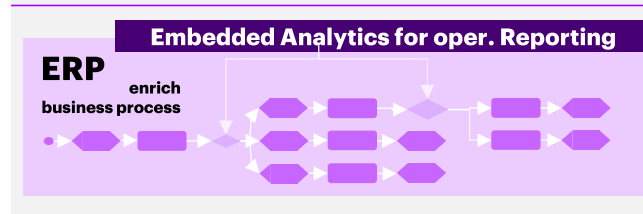


SAP S/4HANA for Operational Reporting

to embed Analytics into Transactions

- Operational data
- Real-time
- Lightweight modelling and consumption
- Extensible
- Uniform
- Basis for multiple embedded use cases
- Model reuse in analytical applications
- Lightweight planning solutions

S/4HANA



SAP Data Warehouse

data from multiple SAP sources

- Strategical and tactical
- Integration, harmonization, cross system consistency
- Historization
- Multi-sourced SAP data
- Data governance

BW/4HANA+DWC



Enterprise Data Platform

- Unstructured data
- Multi-sourced data
- Advanced Analytics with ML
- Data Mining
- App development
- Cross Application Meta Data governance
- Enablement of cross application RPA
- Data Mesh

Azure / AWS / GCP

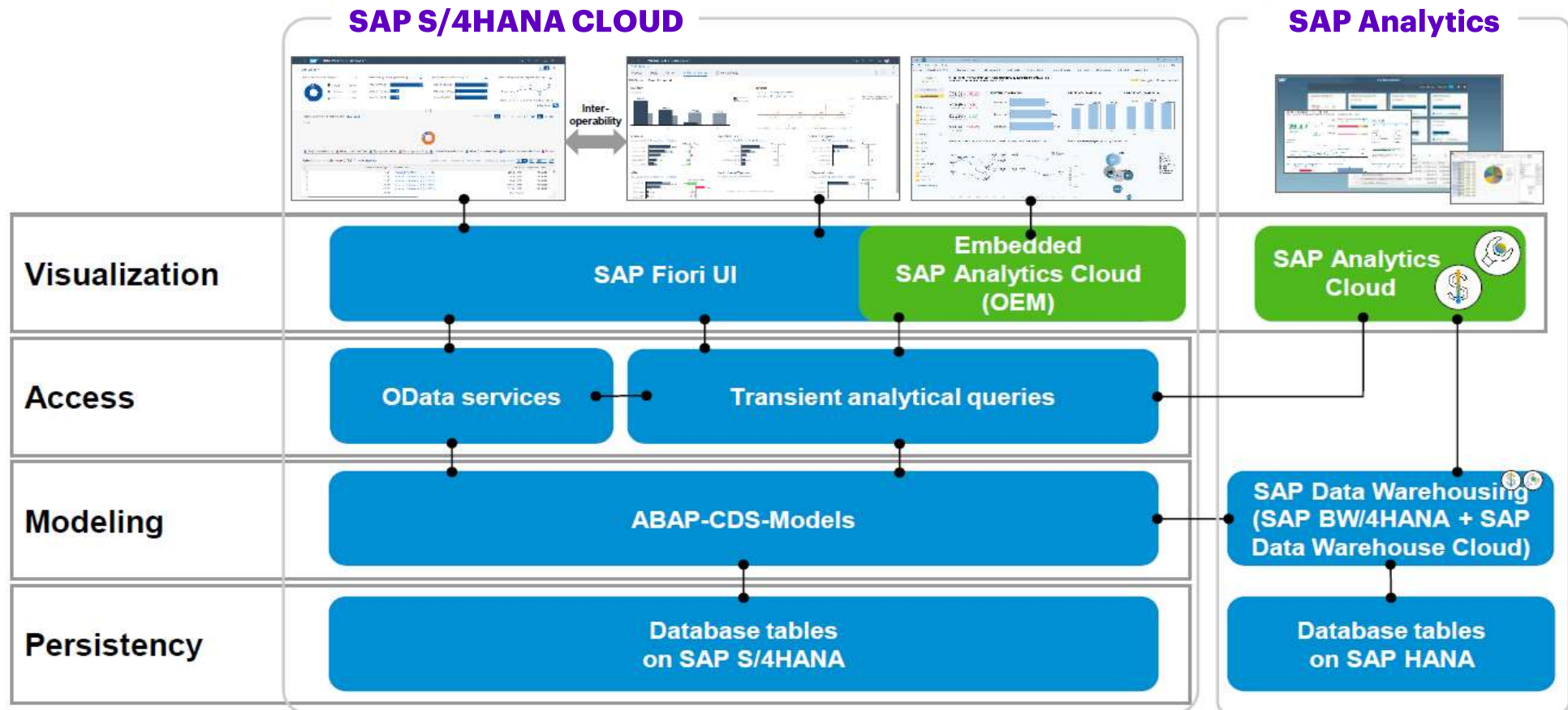


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S/4HANA - A High-Level Architecture



The Virtual Data Models – CDS views

Core Data Services, CDS, views are the basis of SAP S/4HANA's virtual data model (VDM)

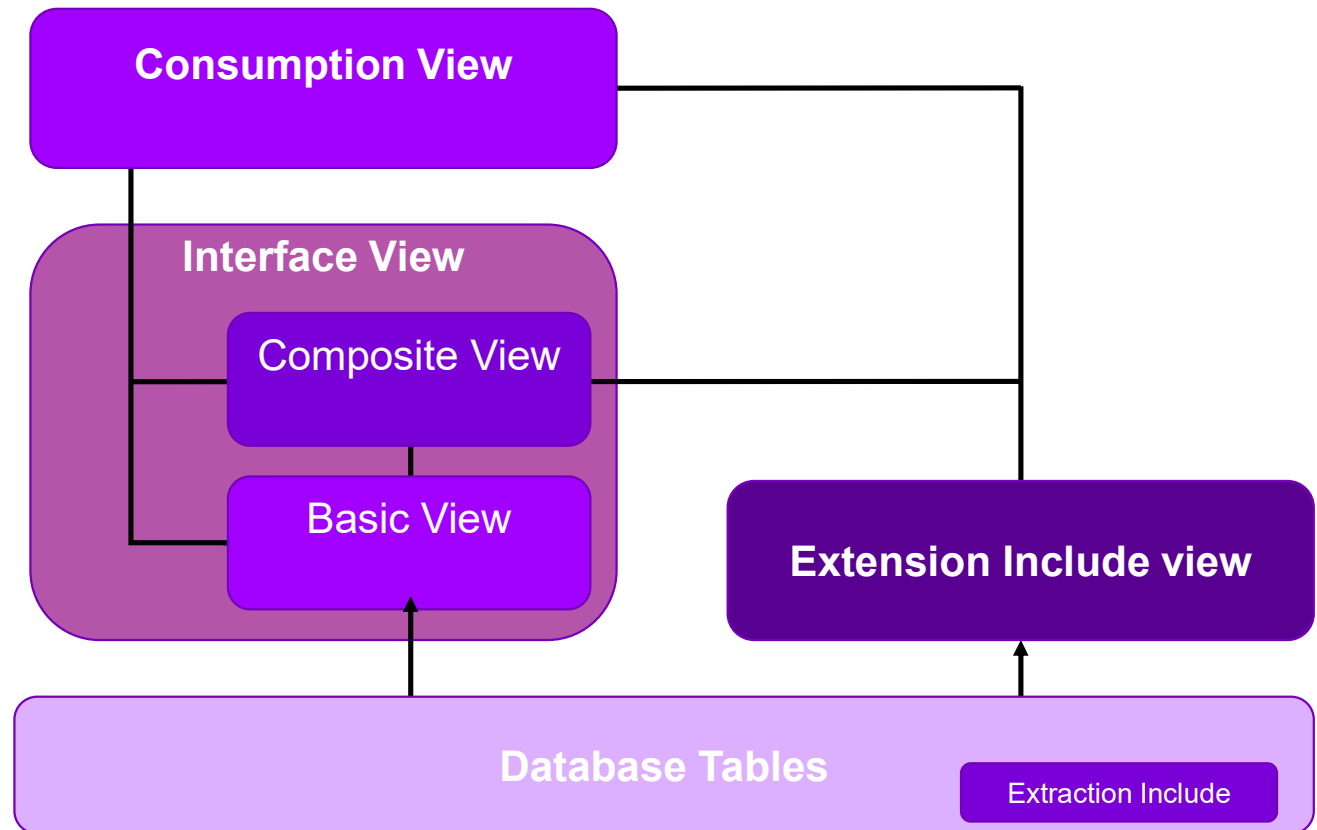
The virtual data model has four layers:

- Consumption views
- Composite interface views
- Basic interface views
- Database tables

SAP BW system needs to be connected via **operational data provisioning (ODP)** framework to consume CDS-based views

There are **two types of CDS**: Native HANA CDS and ABAP CDS, and S/4HANA uses ABAP CDS.

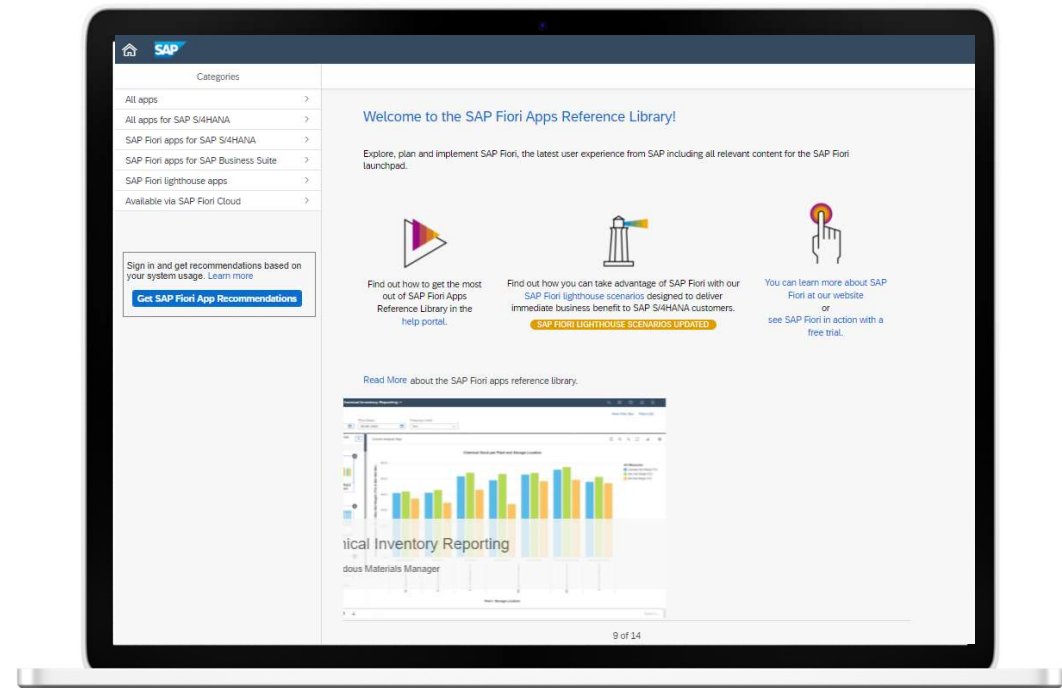
With **CDS you can define a model** that includes objects, such as views, tables, and structured types



02. S/4HANA Analytics

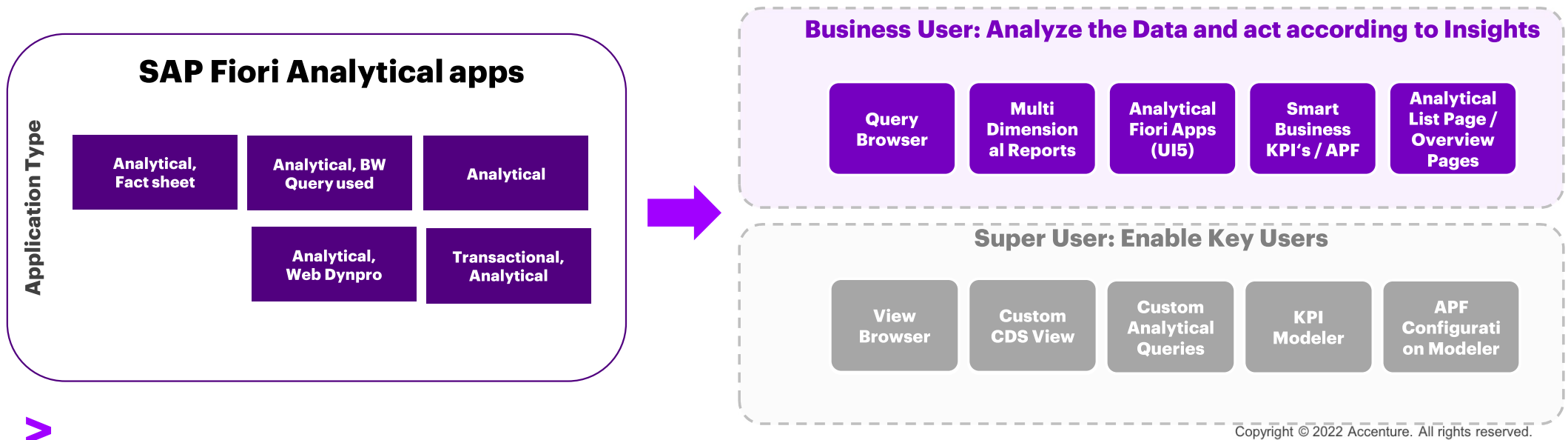
SAP Fiori Apps Reference Library

- The SAP Fiori apps reference library provides a **repository of available apps** with information in the areas of **installation, configuration, extensibility** and **support**
- **More than 10.900 FIORI Apps** are available in SAP FIORI Library
- Several filters can be used to identify and grouping Fiori Apps: **LoB, Industry, Roles, Application Component, Back-End Product, Product Version**
- One of the key SAP Fiori Library filter to identify and select apps for the scope definition is the **Application Type** that defines the Business application of the app itself (Transactional, Analytical, Factsheet,...)
- Find **key functional information** for each app, including all the **technical data** required for installation and configuration
- Navigate directly to **app documentation** and the Product Availability Matrix
- **[Link to the SAP Fiori apps reference library](#)**



SAP Fiori Library – Analytical Apps

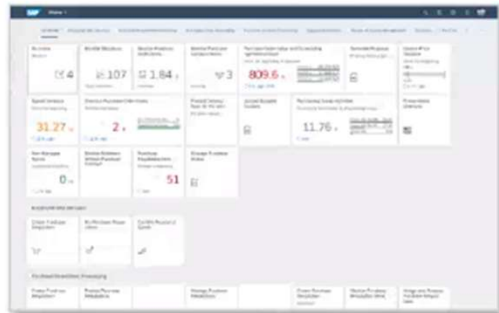
- **FIORI Analytical apps** are known as Embedded Analytics or S/4 Analytics and can be identified by “**Application Type**” containing “**Analytical**”
- **UI Technology** provides info on the User Interface (Design Studio, Analytical List Page, Overview Page, KPI Tile, Analysis Path Framework, FIORI UI5)
- Selecting “Analytical” in Application type field shows **more than 400 Fiori Analytical apps** are available in SAP Fiori Library with different content type
- FIORI is providing also additional apps for Key Users (Super Users) to create their own analytics



02. S/4HANA Analytics

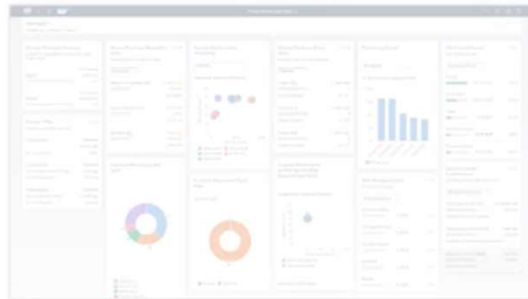
SAP Fiori Library – Business User Apps

SMART Business KPIs



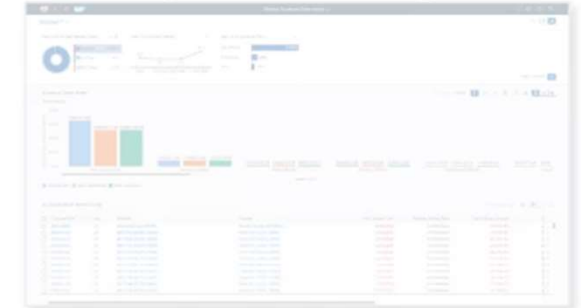
- KPI monitoring on the **FIORI Launchpad**
- **Drill-Down** into further analytical or transactional apps
- **Save personal variants**

Overview Pages



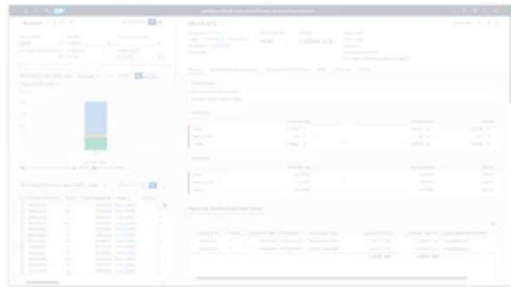
- Consolidated view on a certain domain, e.g. **Purchasing**
- Information presented in analytical tables and charts
- Take action in the same place or navigate to other apps
- Save personal variants

Analytical List Page



- Generic approach to mix analytical and transactional activities
- Display table or chart or a combination
- Take action directly in the same app or navigate to other apps
- Save personal variants

In-app Analytics and ML



- Combine Analytics with transactional content in one screen
- Insight to action to prioritize based on facts
- Use drill-down to determine transactional input parameters

Multidimensional Reports



- Analyze and visualize data from multiple dimensions
- Display pivot-table or chart or a combination
- Save personal variants

Dashboards



- Optional, additional content for **SAP S/4HANA**
- Stories/dashboards are shipped via **SAC Content Repository**
- Queries supplying the data are shipped with **SAP S/4HANA**
- Used as template, customers will copy and adapt



02. S/4HANA Analytics

SAP Fiori Library – Super User Apps

KPI Modeler



SMART Business KPI & Report Modeler enables your company to define, manage and leverage consistent KPIs and Reports across all your business functions

View Browser



Search, browse and tag analytical and non-analytical queries. This application displays all the views that are created and released by SAP as well as the customer-created SAP views

Custom CDS Views



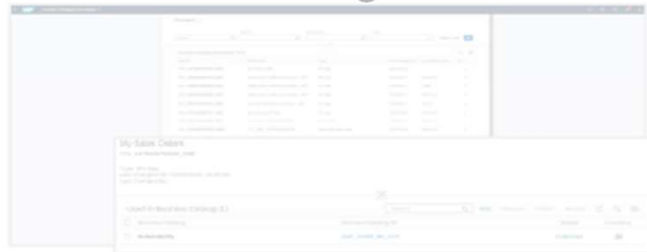
If you need access to data in your system in a way the system does not offer so far, you can create your own data access by making use of Custom Core Data Services view

Custom Analytical Queries



Custom Analytical Queries transforms and organizes raw data delivered from business documents into a meaningful multidimensional report

Custom Catalog Extensions



With this app you assign your apps, such as new multidimensional reports or KPIs to the required business catalogs and thus to the user roles

Embedded SAP Analytics Cloud Stories



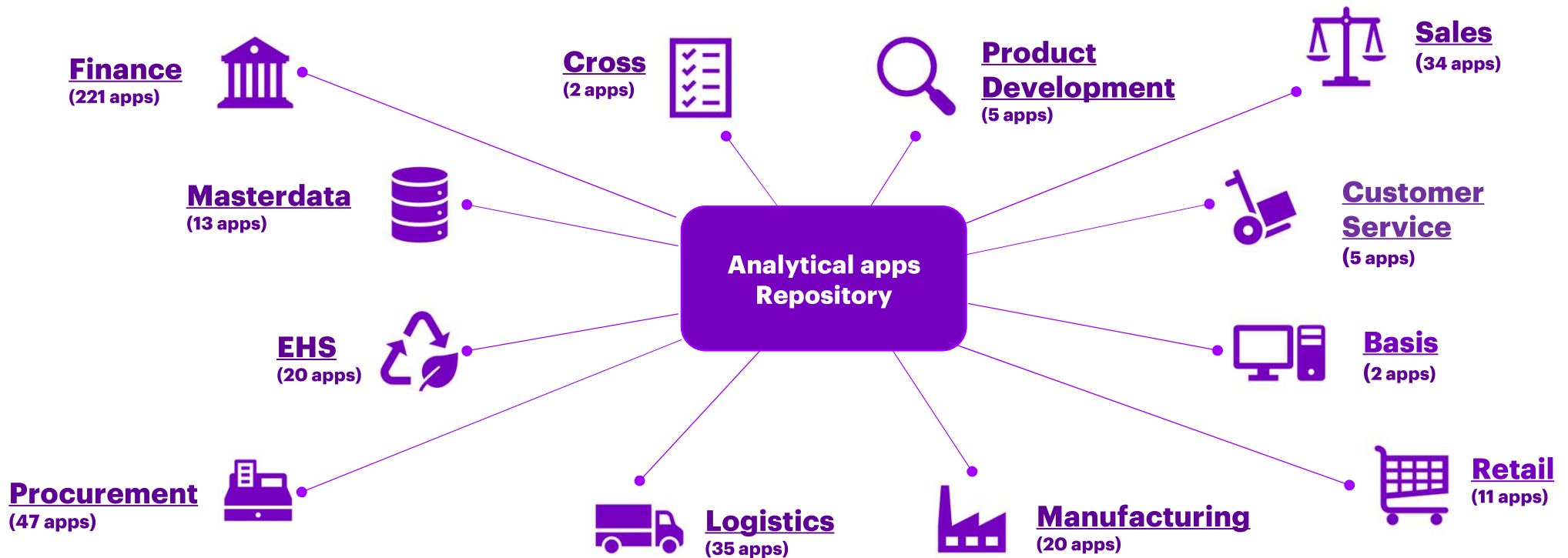
Enable seamless integration between SAP S/4HANA Cloud and SAP Analytical Cloud Stories, Data Analyzer reports, and tiles in the SAP Fiori Launchpad

*** Only available for SAP S/4HANA Cloud from release 1911**

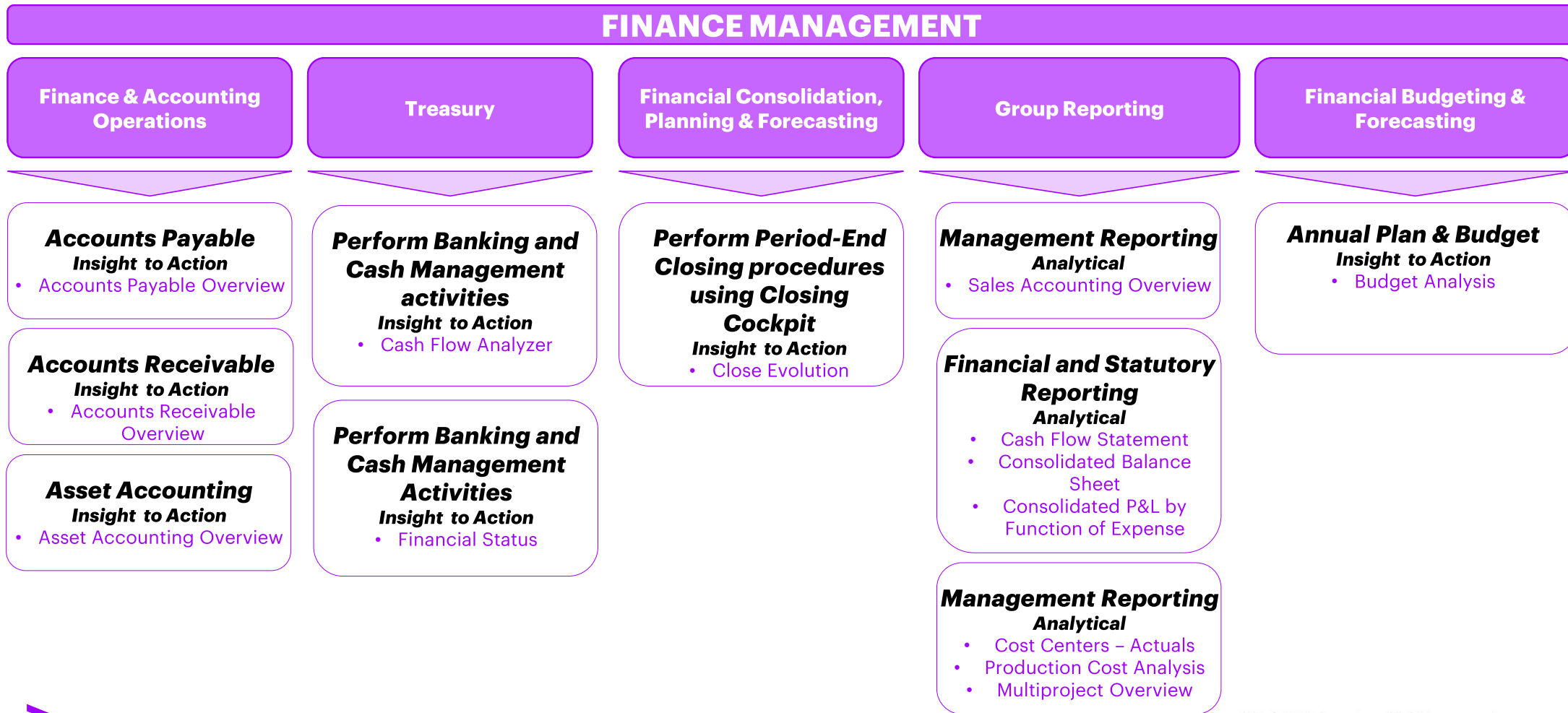


Navigating the abundance of Apps

- **Assessment of the 400+ Analytical Apps** to identify the relevant
- New apps Classification: **12 Functional Macro-areas**
- One single **Analytical apps documentation repository**



Top Analytical Apps to leverage for SAP Finance



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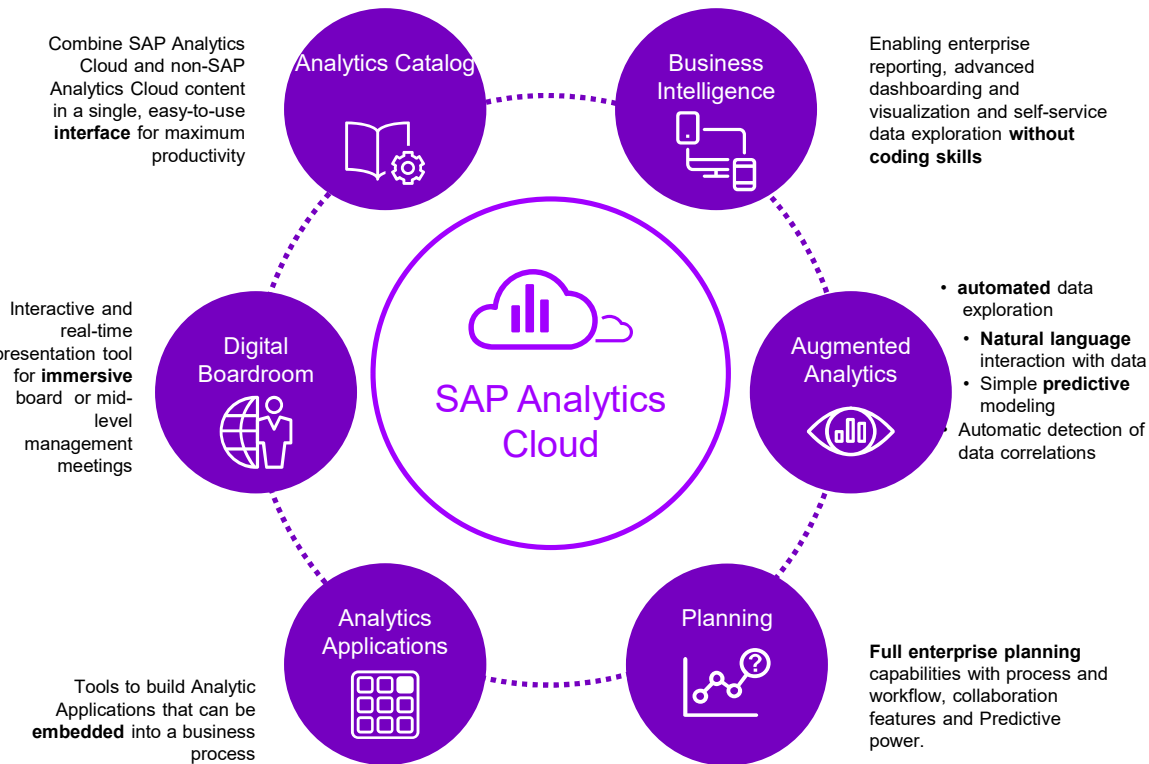
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03. Visualization & Planning

SAP Analytics Cloud

All Analytics Capabilities Built for the Cloud



SAP Analytics Cloud: A single unified user experience unpinned by integrated capabilities all on one platform with out of the box delivered business content

What is it?

SAP Analytics Cloud (SAC) is a **Software as a Service (SaaS)** cloud solution bringing together **BI, Planning, Predictive, Analytic Applications and Augmented Analytics** in one place

ONE, SIMPLE to use **CLOUD**, anywhere, anytime and on **any device**

ONE platform for ALL analytics:

- **Business Intelligence** Empower business users and analysts with the agility of self-service BI
- **Augmented Analytics** Accelerate business decisions with automation and augmentation
- **Analyze, predict & plan** in one application to save time, reduce errors & increase organizational agility

SIMPLE to get started & to share with other users. It's about connecting to data no matter where it resides, and in a secure way. SAC offers a wide range of SAP / non-SAP and on-premise / cloud connectivity options

CLOUD means "instant on", speed of innovation, speed to deliver and scale, and no client or infrastructure to manage. Saving Time and Money for your enterprise.

03. Visualization & Planning

Accenture project references (selection)



Completed

Major Oil Company

Creation of SAC Stories for Global contract management system used in the client environment. Utilizing SAP BW system.



Completed

Major Oil Company

Team is developed 30+ visualization dashboards for HCM and EAM modules. SAC dashboards are been built on SAP BW and S/4HANA systems



Completed

World Event

Developing SAC analytics dashboards and digital boardroom to be used during the Expo for future ready tech in HR, Retail, Finance etc. Utilizing SAP HANA system



Completed

Manufacturing Company

Development of **Planning models and planning stories** to be used for client planners. Utilizing SAP HANA and Salesforce systems.



Completed

Major Airline Company

Creation of SAC Stories and Digital Boardrooms to help CEO, COO, CIO and Finance team to review KPI performance



Completed

Major Chemical Company

Accenture team developed the SAC Analytics dashboard assisting client in moving to Cloud Analytics from its legacy system



Completed

Healthcare Company

Team created CxO dashboard for providing insights into spends from different departments in company.



Completed

Chemical Company

Multiple SAC dashboard and reports were developed under the distribution arm along with the SME support for finance use-case.



Completed

Major Agriculture Company

R2R POC implementation in SAC for analysis financial KPIs across Regions & Segments



Completed

Investment Company

Developed SAC analytics dashboards to perform the planning forecasting for future. Data from planning system utilized via flat files.



Completed

Virtual Software Company

Developed a application utilizing data science and SAC analytics to predict the booking and shipments for a given sales target. Utilizing SAP HANA and R language.



Completed

Global Retail Company

Implementation of an end to end Source to Pay performance management dashboard with SAC real time data



03. Visualization & Planning

Accenture project references (selection)

SAC Accenture Prebuilt Solutions (20+)

Selected Examples

20+ Pre-build SAC and
SAC FP&A solutions cross industry

SAP Analytics Cloud **Prototypes** leverageable
during design and build phases

Available via **myConcerto** for
accelerated co-innovation and co-
development

Finance

Cash Flow
Forecaster

Payables
Optimizer

Talent and
Planning

Intelligent
Collections

Sales and
Profitability
Optimizer

Touchless
Closing

Supply Chain Management

Compliance
Analytics

Connected
Grain Insights

HIRA Global
Safety Analytics

3D Printing
Vertical
Solution

Railway
Diagnostic
Solution

Intelligent
Segmentation

Others

SMART Asset
Maintenance

Talent
Planning

Store
Performance
Optimizer

Attrition
Predictor

Integrated
Scenario
Planning

Collaborative
Enterprise
Planning



Global SAC Skills

1,500+
SAP BTP
resources

400+
SAC
Practitioners

31
Liquid Studios
Worldwide



Field Experience

20+
SAC Client
Implementations

2021
SAP Innovation
Awards Entry



Knowledge Assets (100+)

- **Demo solutions** and Recordings
- SAC Point of Views on many topics
- **Delivery Approach** and Development Guidelines
- Reference **Architectures**, **Security** & **Lifecycle** Management
- **Leading Practices** and **Lessons Learned**



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Summary / Final notes

- "Clean core" SAP Analytics
 - Purpose of S/4HANA Analytics, BW/DWH, Enterprise Data Platform/Data Lakes etc.
- S/4HANA Embedded Analytics
 - CDS views as driver
 - Extend, don't copy
 - More "natural" end-to-work workflow, rather than t-codes & separate reports
- SAP Analytics Cloud
 - Empower Business users
 - Prepare for Planning
 - Allow for Rapid adoption



QA

Any Questions?