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SAP HCP – Webinar Series 4 SAP User Groups

Moderator: Jos Houben

SAP HCP Digital Future Enabled by SAP HANA Cloud Platform	Prakash Darji	Mar 17
SAP HCP and HEC: How they compare and combine	Uddhav Gupta / Maria Yu	Mar 29
Building new Analytical Solutions on HCP	**Jana Richter**	**Apr 4**
Building Cloud extensions with HCP	Filip Misovski	Apr 6
Building on-premise extensions on HCP	Bertram Ganz	Apr 12
SAP HCP – Using HCP for Mobile Apps	Holger Gauss/Dirk Olderdissen	Apr 14
SAP HCP – Addressing Security Concerns	Martin Raepple	Apr 19

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Public

SAP HANA Cloud Platform: Actionable Insights - Building new analytical solutions

Jana Richter, SAP
April 4th , 2016

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Agenda

Setting the stage – what is SAP HANA Cloud Platform?

Value proposition Analytics + Agile Data Marts in the cloud

Relevant capabilities in SAP HANA Cloud Platform

- Load data
- Create views
- Create visualizations + dashboards
- Embed in context

Roadmap

Summary

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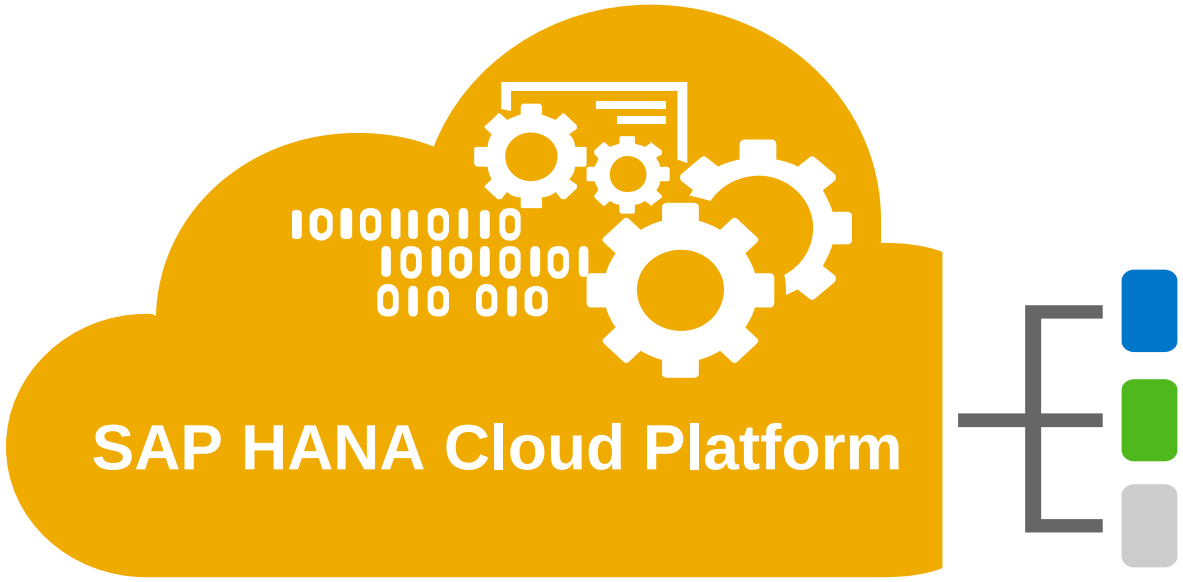
Setting the stage

SAP HANA Cloud Platform

Introduction

Build, **extend**, and **run** next-generation applications on SAP HANA in the cloud



The in-memory cloud platform-as-a-service (“PaaS”) offering from SAP

hcp.sap.com

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Typical Scenarios on SAP HANA Cloud Platform

Extend your business to the cloud

Mobile-ready, feature-rich

UIs

= productivity and customer satisfaction

Seamless

business process

extensions and integration

= greater agility

Real-time

analytics

= success in your window of opportunity

Rapid

application

build and deployment

= quicker time to value

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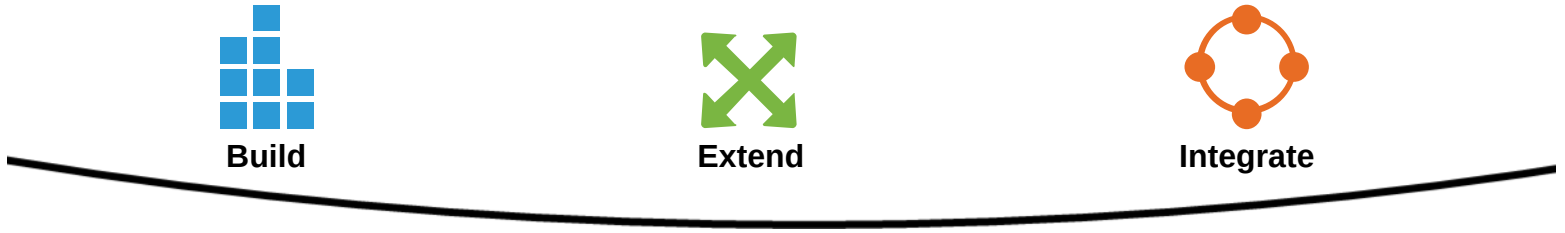
SAP HANA Cloud Platform – Overview Current State



On-Premise / Managed Cloud

- SAP S/4 HANA
- SAP Business Suite
- SAP Business Warehouse

SAP HANA Cloud Platform (PaaS)

Runtimes / Languages

- Java
- XSJS
- HTML5

Platform Services

- Integration
- IoT
- Security
- Analytics
- UX
- Mobile
- Collaboration

Data & Storage Services

- ASE

Big Data Services

- HANA

DevOps

SaaS

- SAP S/4 HANA
- SuccessFactors
- C4C
- Ariba
- Concur

IaaS Layer

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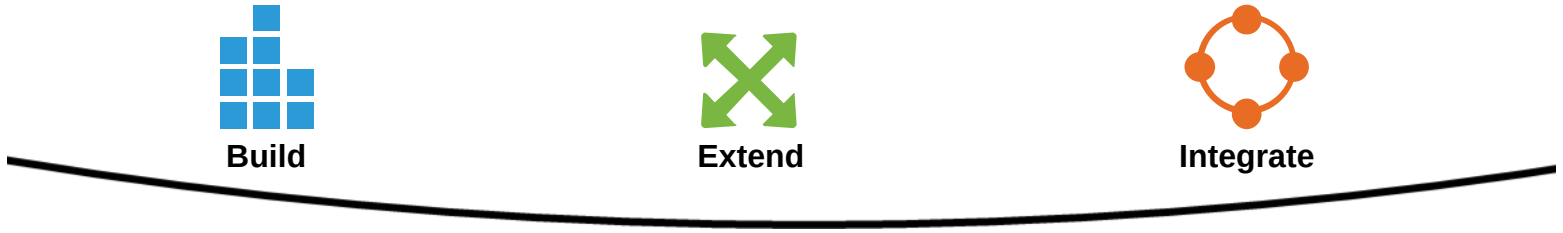
SAP HANA Cloud Platform – Overview Current State

Focus of this session



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IaaS Layer

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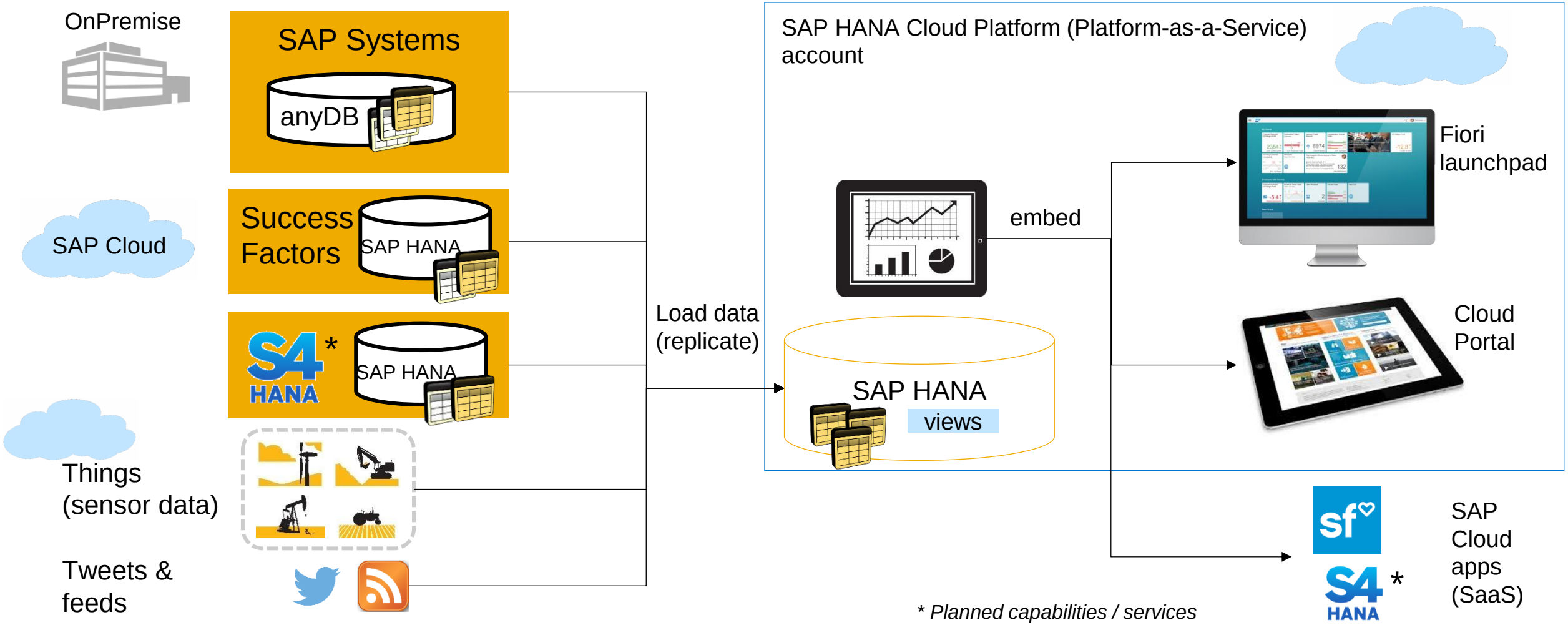
Value proposition Analytics + Agile Data Marts in the cloud

Use Case (Illustration)

Variety of data sources (some examples) ➡ **Model views + create dashboards** ➡ **Embed in context**



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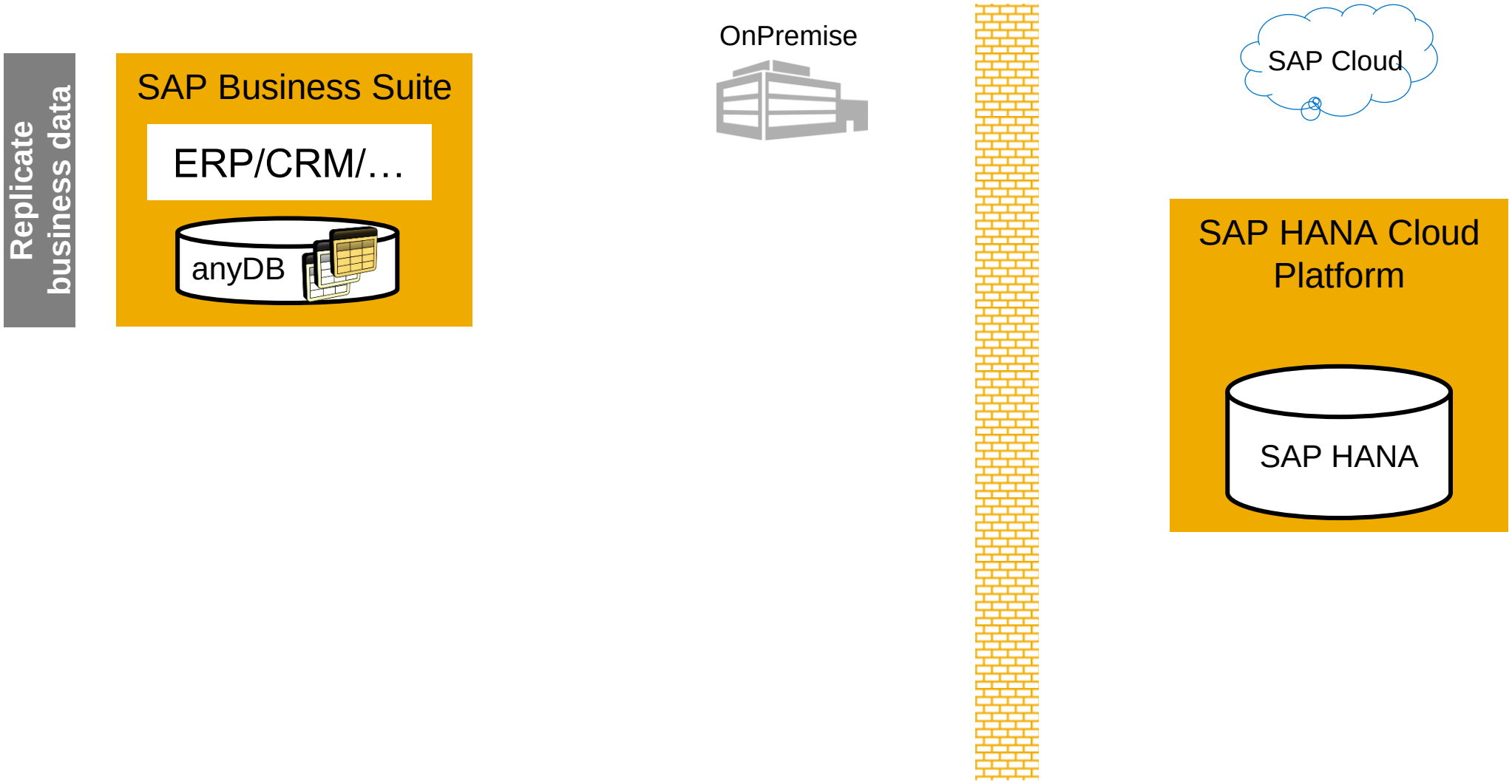
Scenario

Setup and required components



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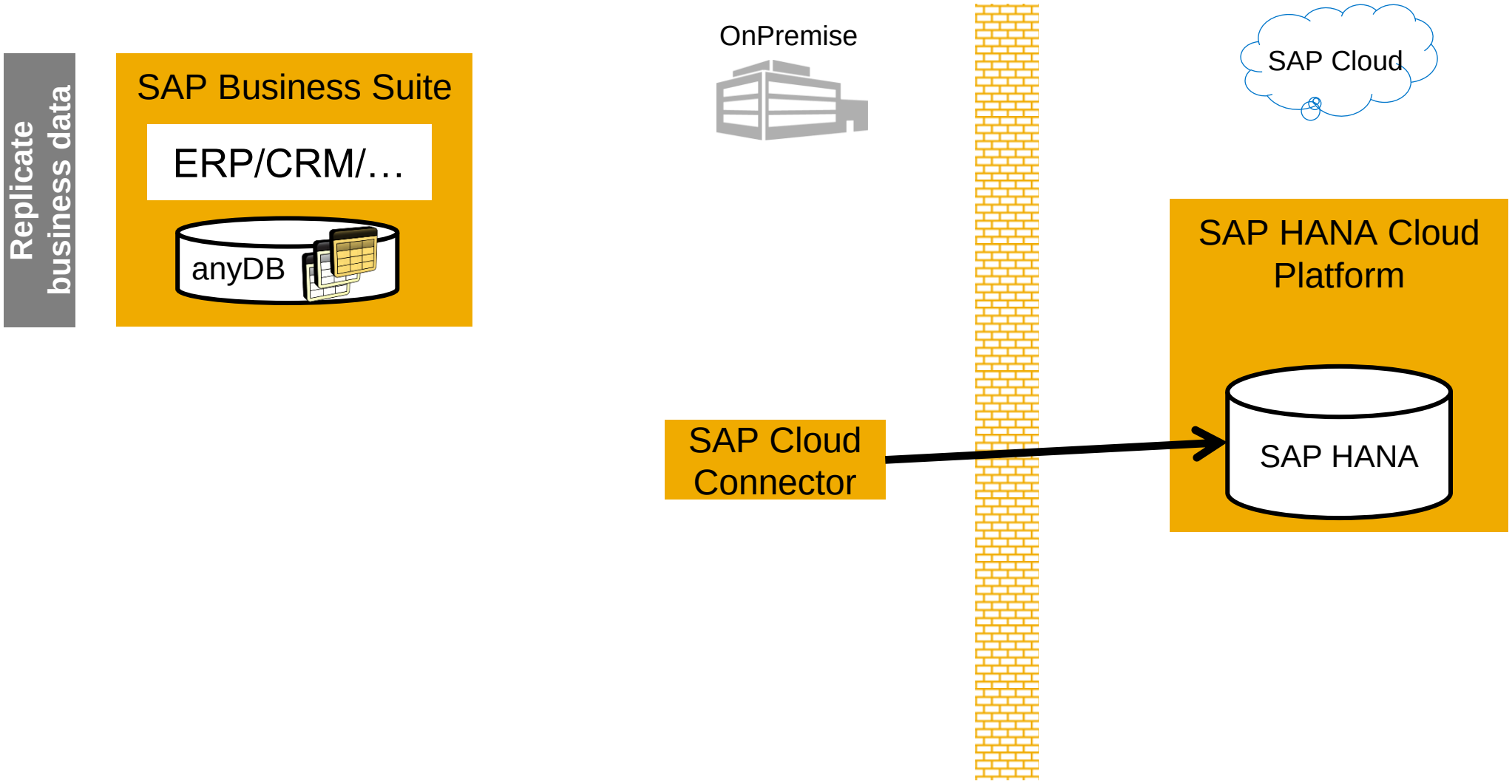

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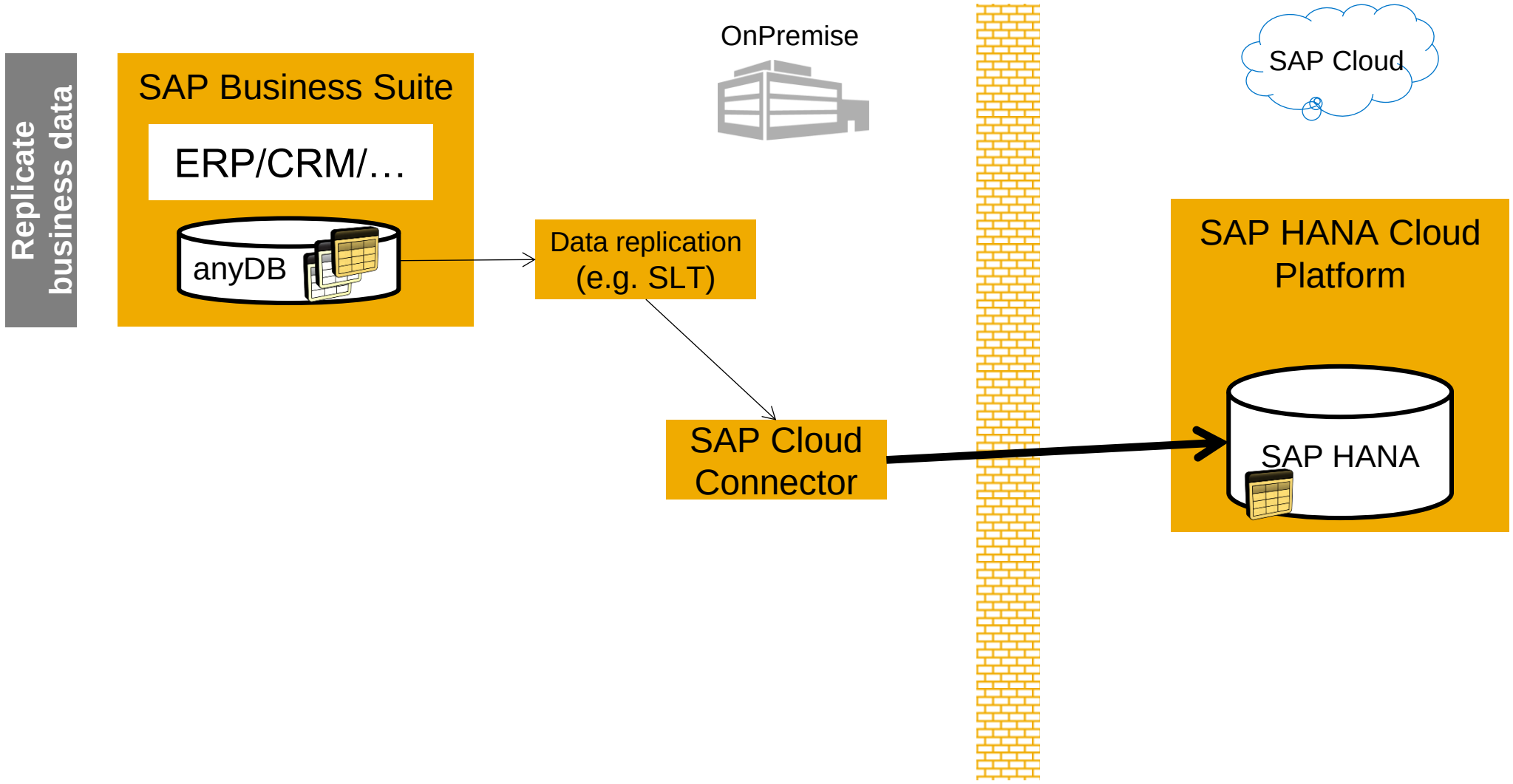

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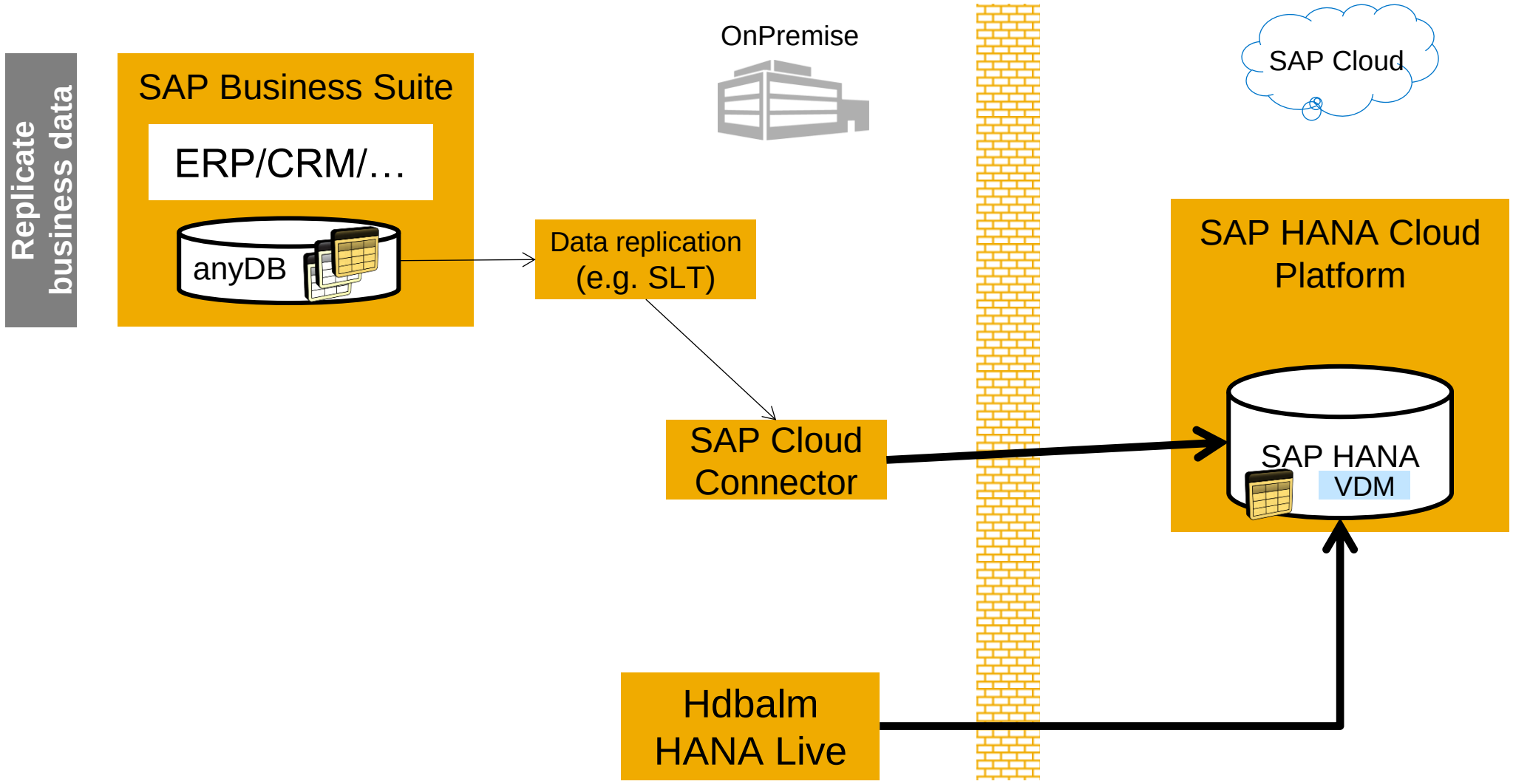

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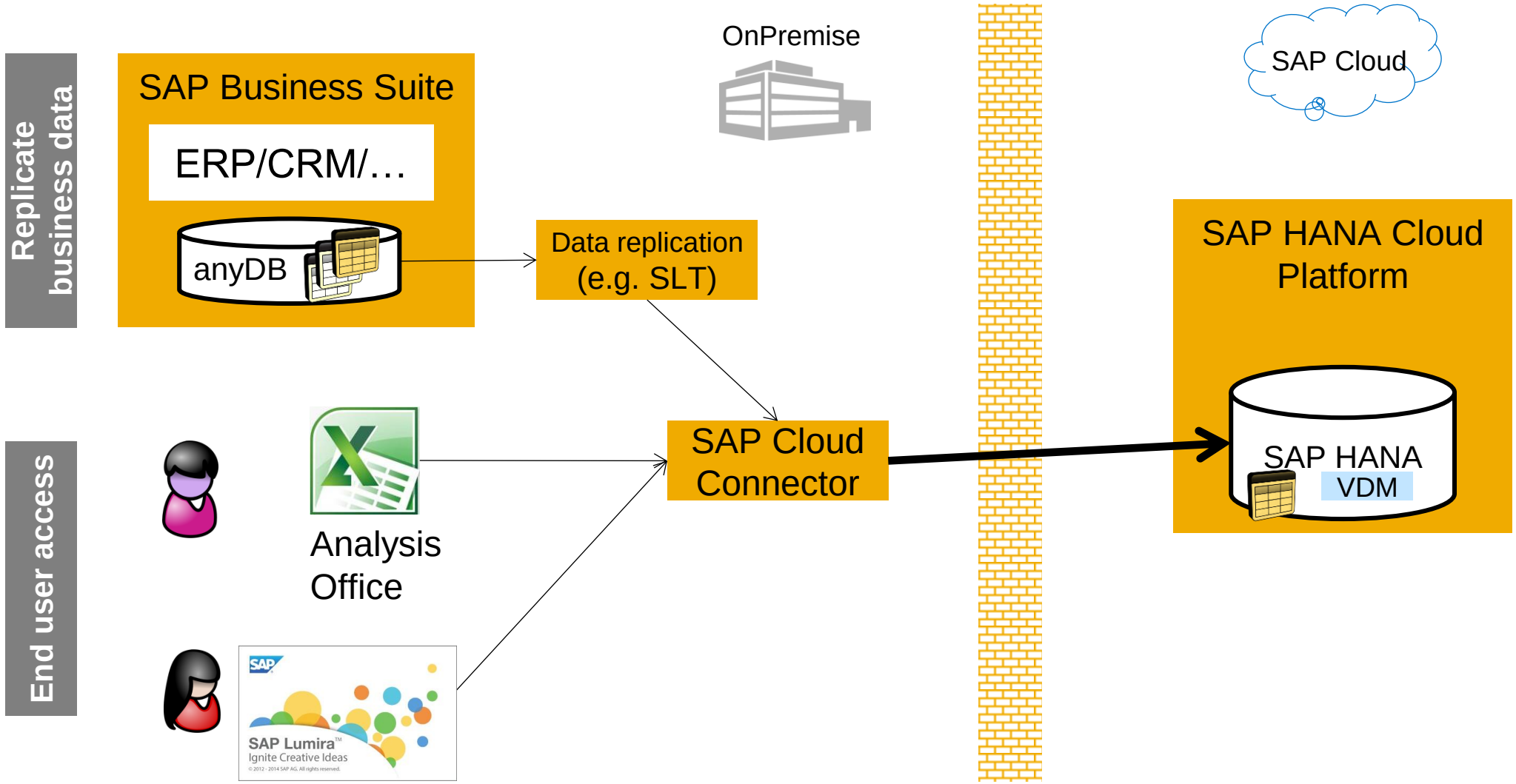
Scenario

Setup and required components



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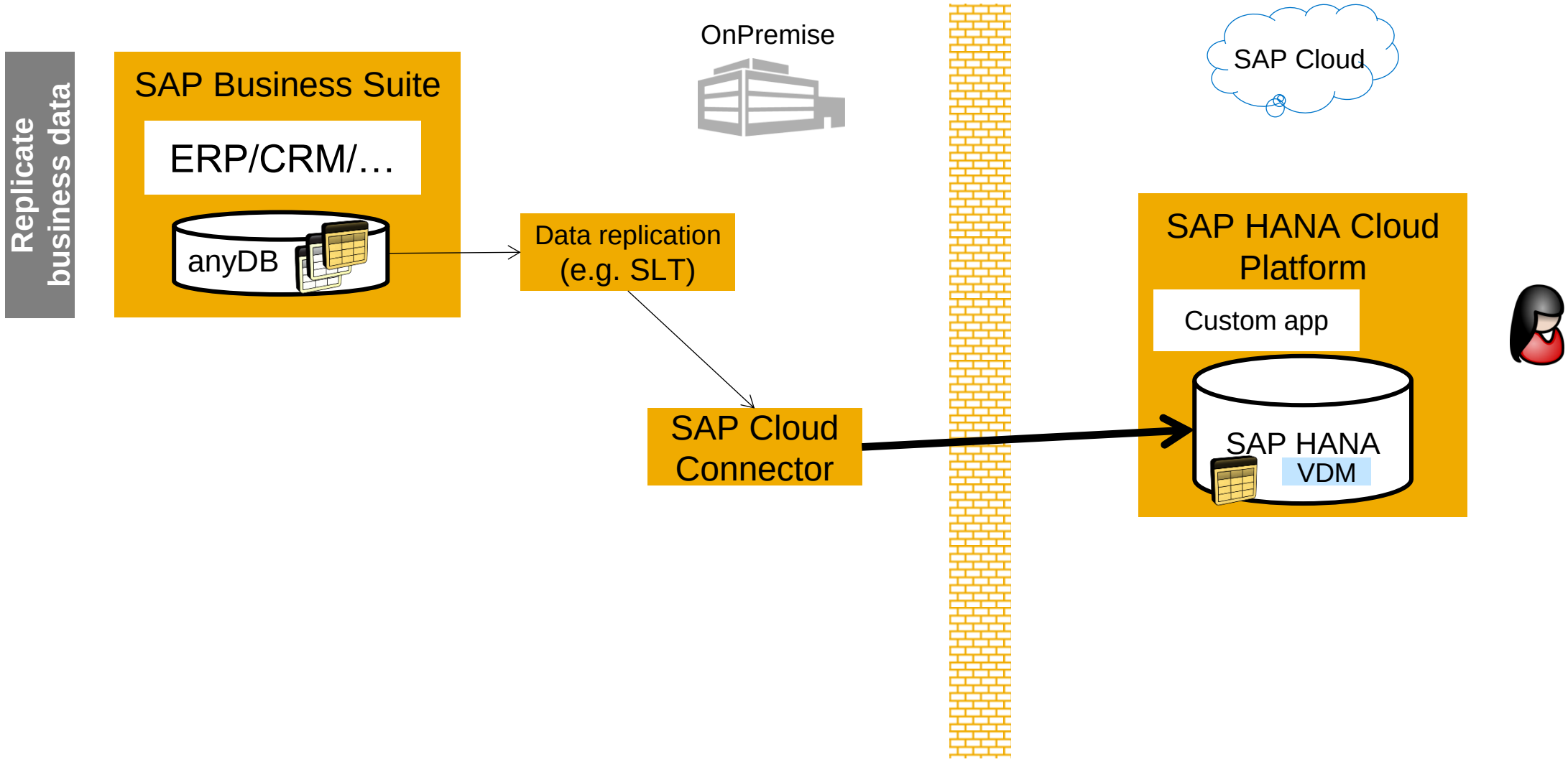
Setup and required components



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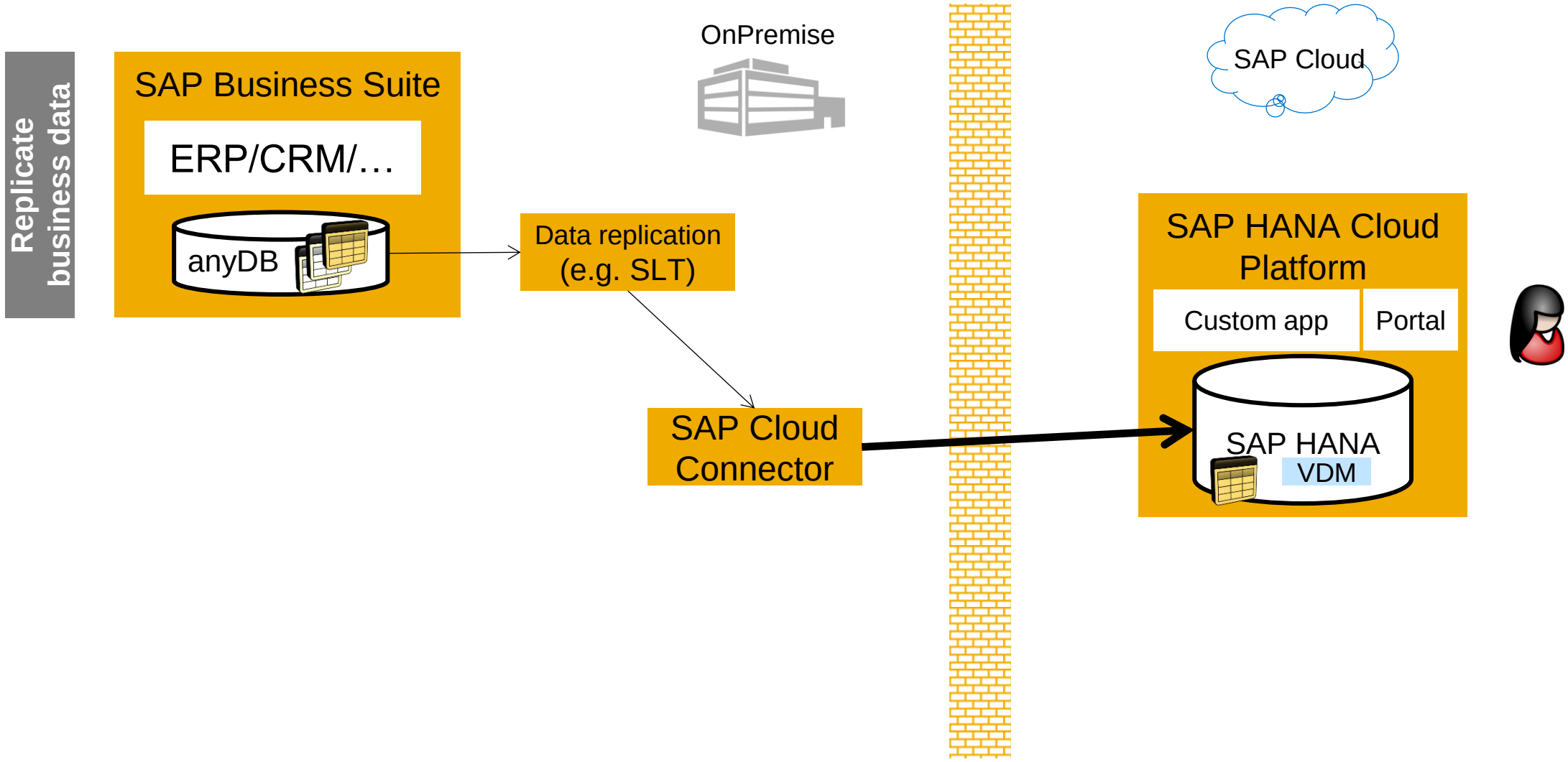
Scenario

Setup and required components



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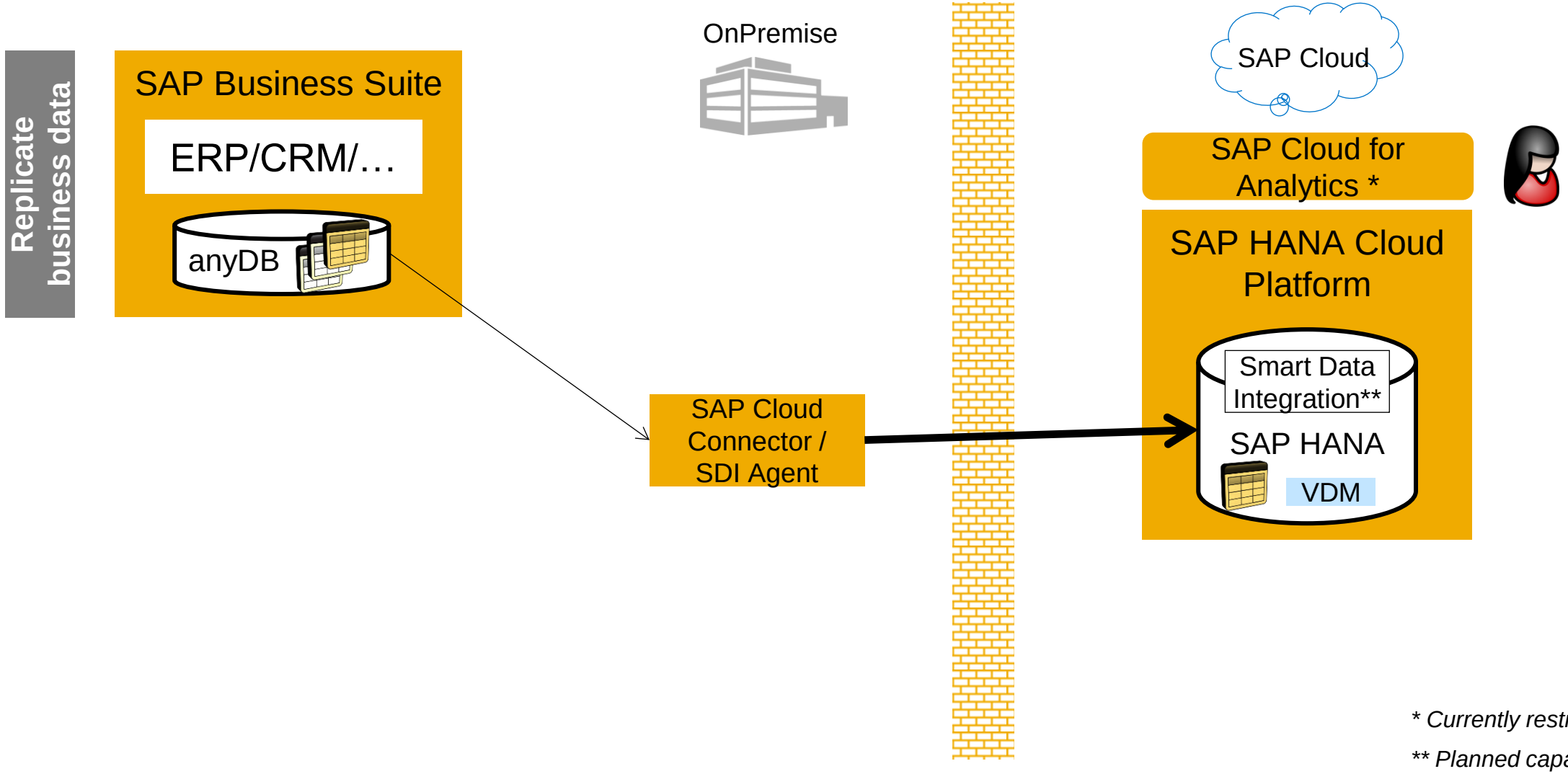
Scenario – Outlook

Planned cloud capabilities



** Currently restricted availability*

*** Planned capabilities / services*

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Relevant capabilities in SAP HANA Cloud Platform

Load data

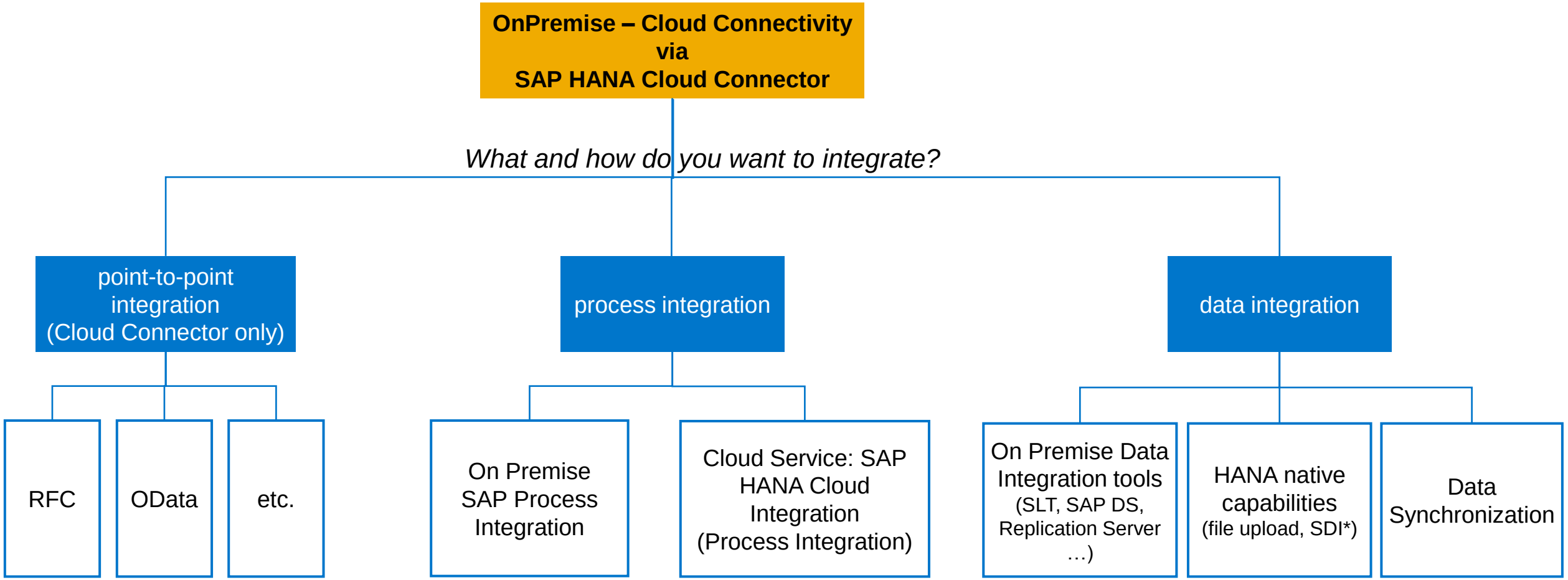
Create views

Create visualizations + dashboards

Embed in context

Integration options

SAP HANA Cloud Platform & On Premise systems



** Planned capability*

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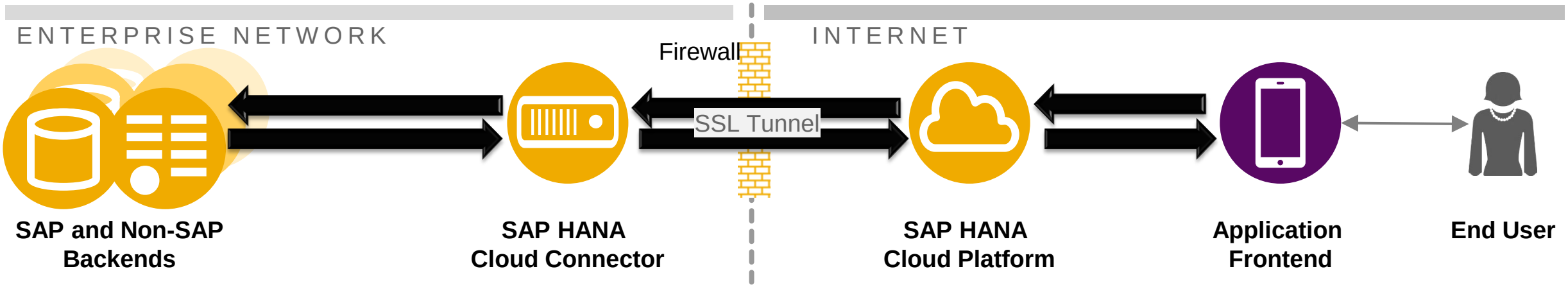
Hybrid Setups

On-Premise – Cloud Connectivity



SAP HANA Cloud Connector can establish secure connectivity for hybrid cloud – On-Premise setups

- Allows access from whitelisted applications on SAP HANA Cloud Platform to whitelisted backend systems (option to restrict to selected OData services and RFC calls)
- Allows access from backend systems to whitelisted database on SAP HANA Cloud Platform

Options to monitor the Cloud Connector status:

- Via SAP HANA Cloud Platform Cockpit (Connectivity tab)
- Via basic healthcheck URL

SAP HANA Cloud Integration available as additional service for process integration capabilities

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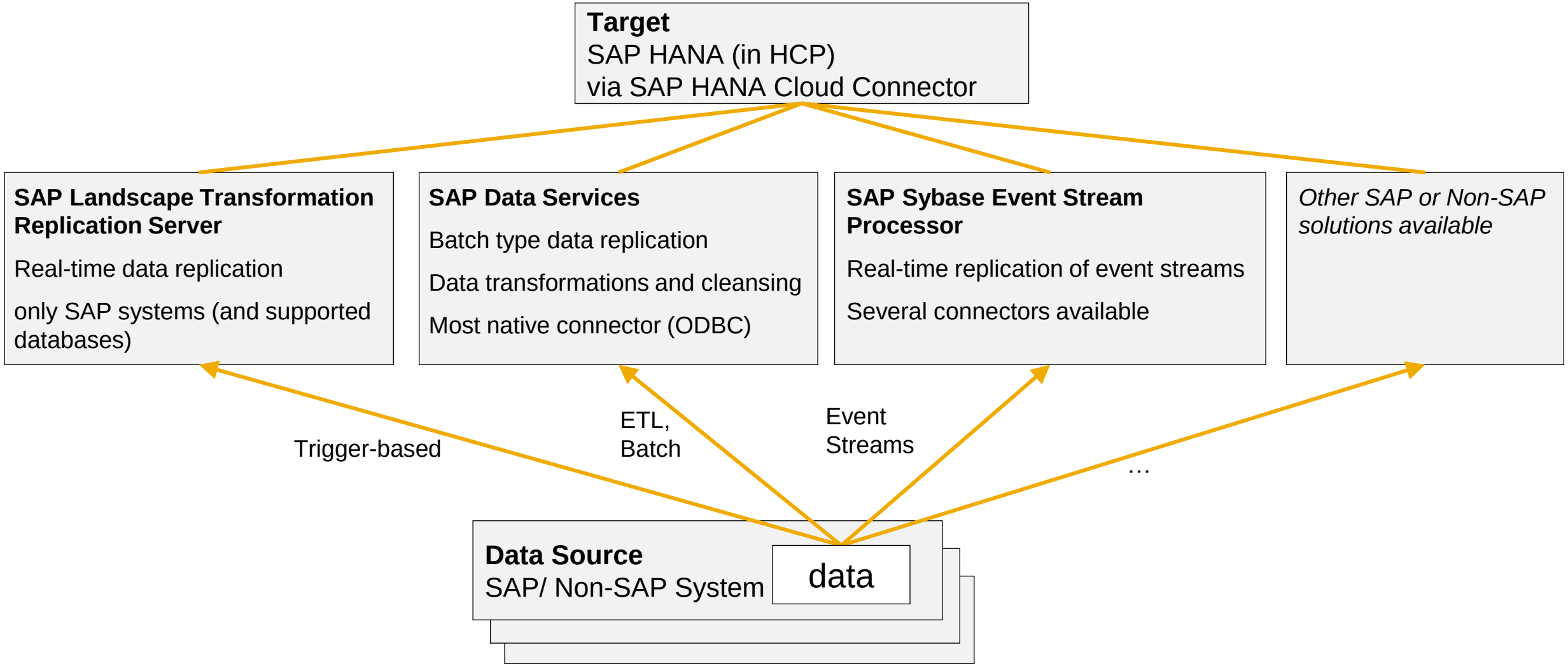
Data integration tools from SAP

Some options



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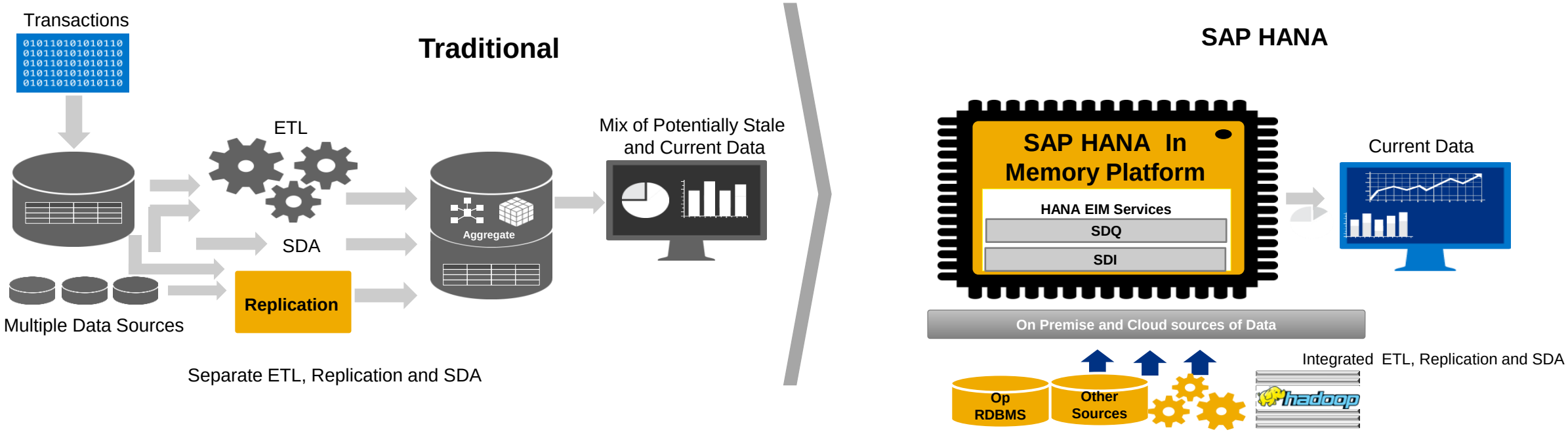
SAP HANA Enterprise Information Management (EIM)

Outlook - planned capabilities for SAP HANA Cloud Platform



- **Simplified Landscape –** Federation, Replication & Transformation, all within the SAP HANA platform
- **Accelerated –** In memory performance and lower latency
- **Open Framework –** Supports data of any shape, style and size with an SDK for new data sources

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Relevant capabilities in SAP HANA Cloud Platform

Load data

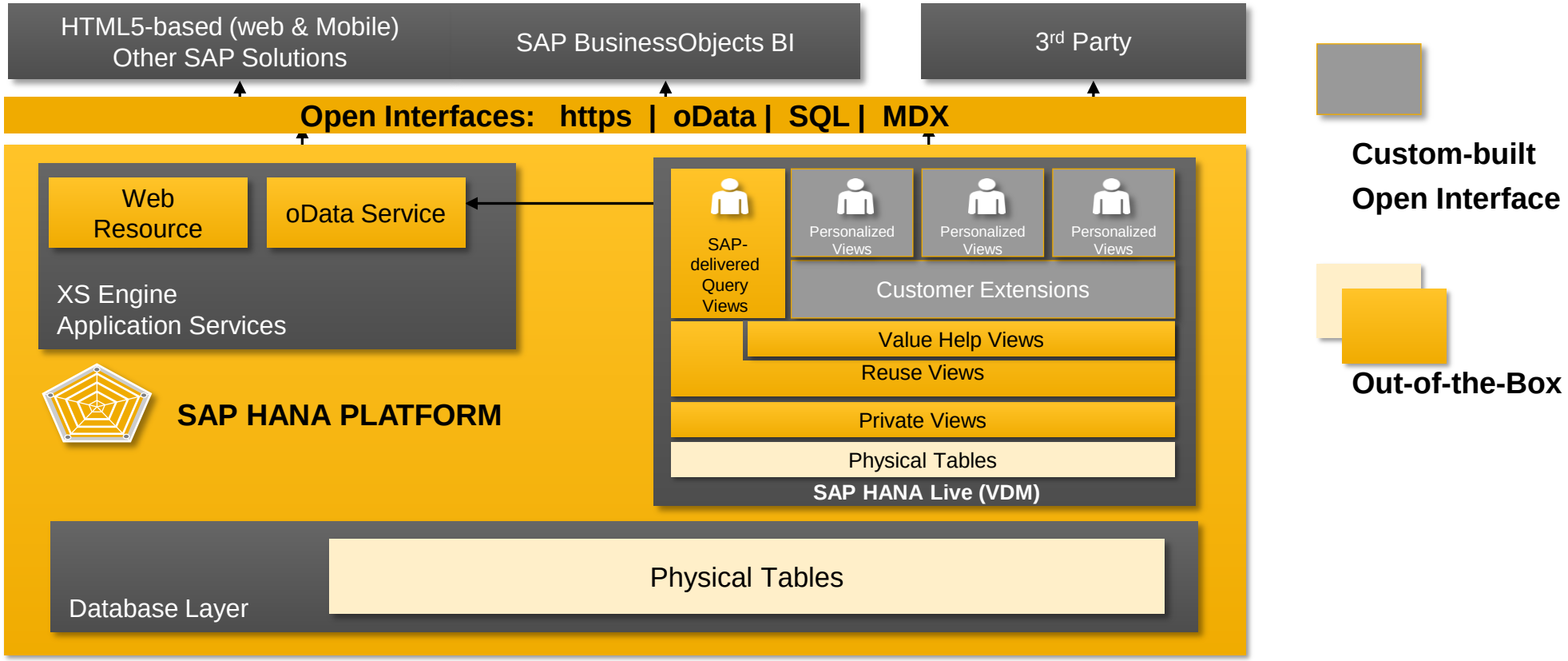
Create views

Create visualizations + dashboards

Embed in context

SAP HANA Live architecture

Foundation for new class of applications



Atomic **instantaneous** **Pre-defined**

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Relevant capabilities in SAP HANA Cloud Platform

Load data

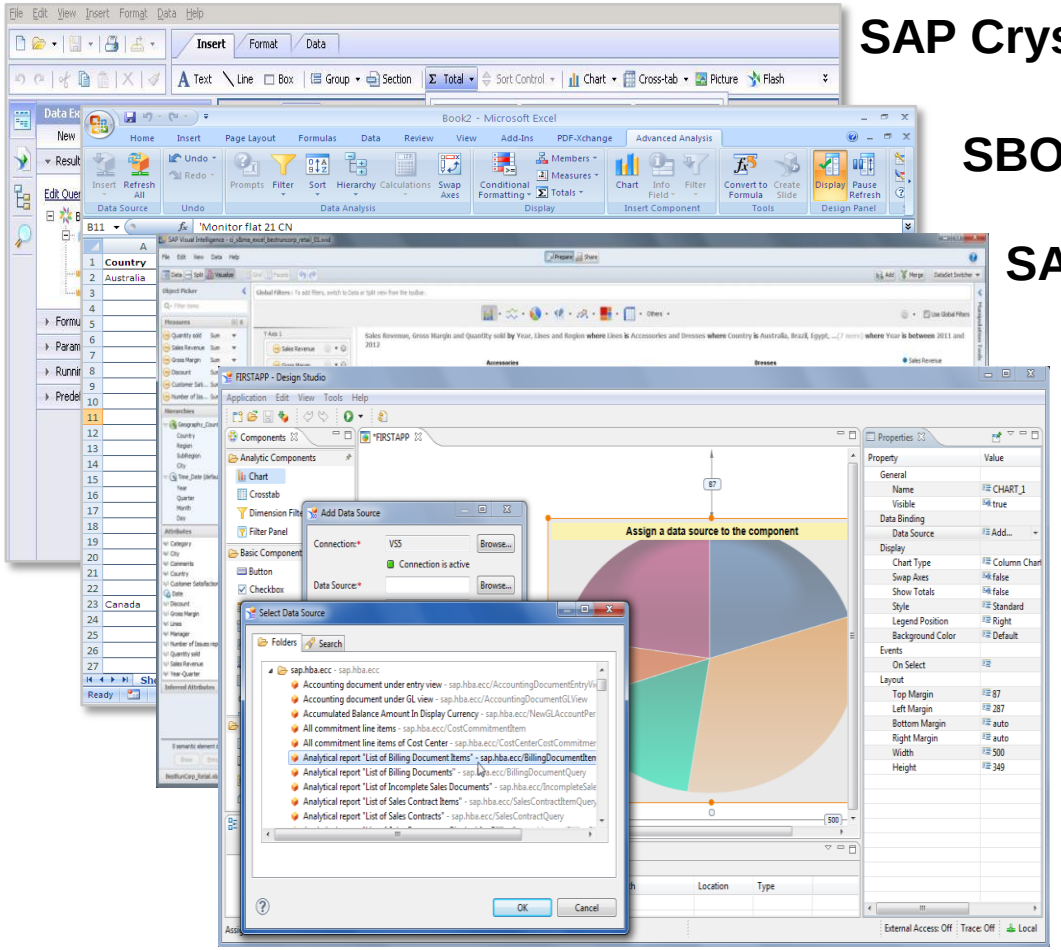
Create views

Create visualizations + dashboards

Embed in context

SAP and SAP BusinessObjects (SBO) Clients

Clients recommended for the use with SAP HANA Live



SAP Crystal Reports

SBO Analysis Office

SAP Lumira

SBO Design Studio

Connect local BI client tool via central SAP HANA Cloud Connector

But: be aware that performance is sensitive to network conditions when using local clients connecting to remote databases (in cloud)!

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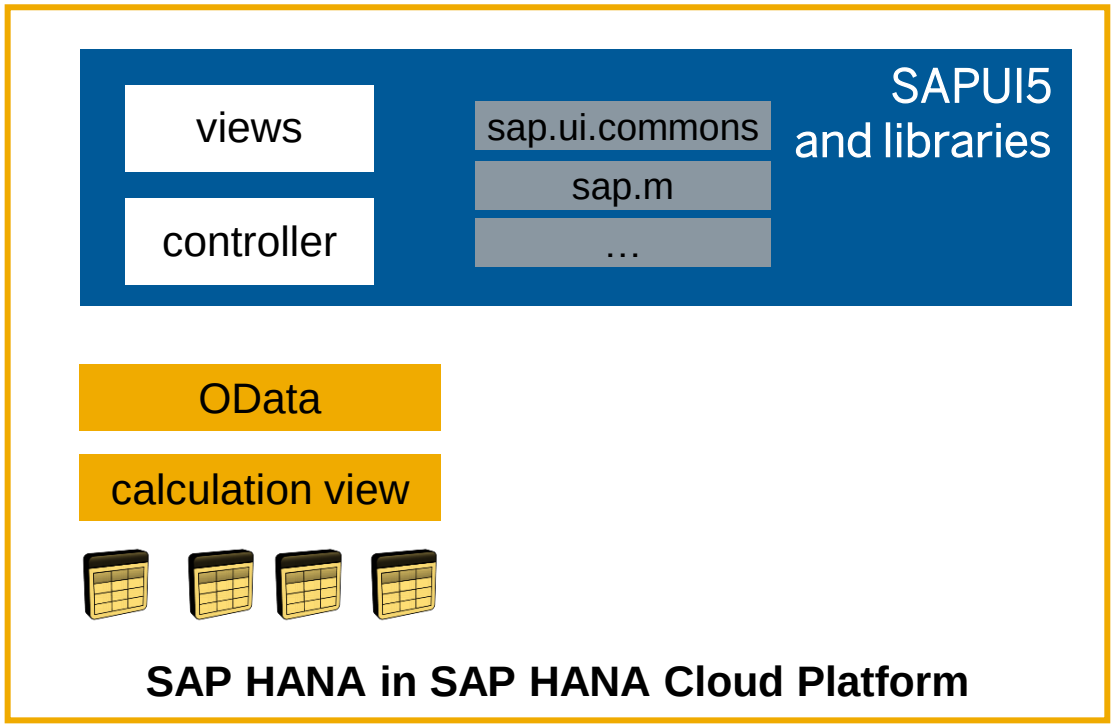
Create your own analytical application

Leverage SAPUI5 libraries to easily create charts and visualizations



Create Fiori-like user interfaces including charts - easily visualize data persisted within SAP HANA (in SAP HANA Cloud Platform).

Additional steps involved:

- Expose SAP HANA calculation views with OData service
- Bind data using SAPUI5-controllers
- Create visuals using SAPUI5-views

For samples of SAPUI5 controls see:

https://sapui5.hana.ondemand.com/explored.html#/entity/sap.viz.ui5.controls.VizFrame/samples

Alternatively: create HTML5 application in WebIDE + bind to data in HANA

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Predictive Analysis Library

Capability for SAP HANA Cloud Platform – predictive services on top

Create dashboards for existing data – and based on that make predictions for future trends.
The Predictive Analysis Library is a built-in and native SAP HANA library to perform in-database data mining and statistical calculations.

Key capabilities

- Support over 60 algorithms in the area of:
  - Association
  - Classification
  - Clustering
  - Preprocessing
  - Regression
  - Social Network Analysis
  - Statistics
  - Time series

Benefits

- Native predictive algorithms
- In-database processing for powerful and fast results
- Quicker implementations and embed predictive into applications, solutions, and BI environments

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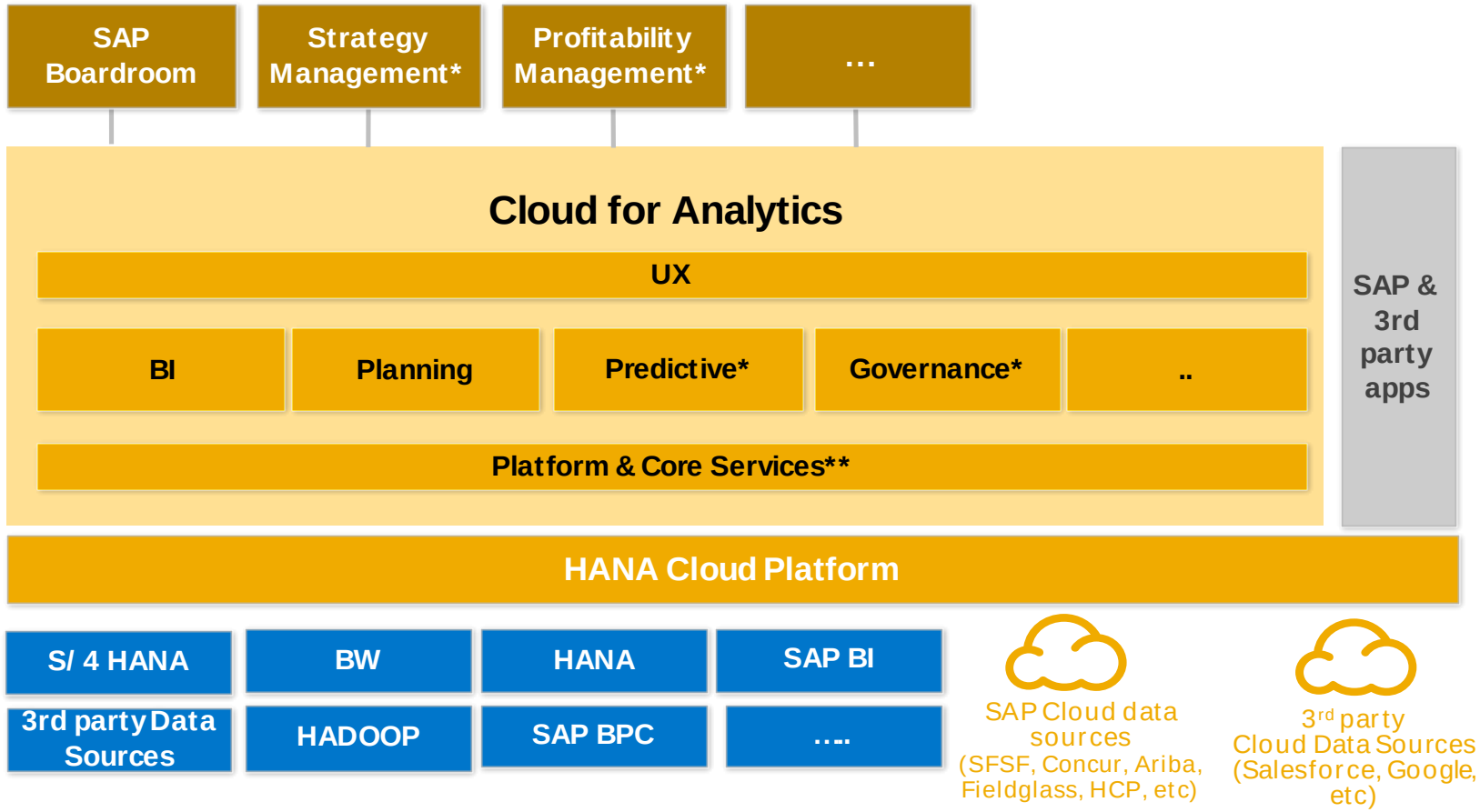
SAP Cloud for Analytics

Analytics capability for SAP HANA Cloud Platform

From TOP floor…

…to SHOP floor



** Launch date TBC*
***not sold separately*

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Demo

Demo scenario – create dashboard with Cloud for Analytics on top of SAP HANA Cloud Platform data

Demo

Create SAPUI5 application including charts

Relevant capabilities in SAP HANA Cloud Platform

Load data

Create views

Create visualizations + dashboards

Embed in context

Portal Services

Embed visualizations into SAP HANA Cloud Portal

Integrate your analytics applications or dashboards into business sites

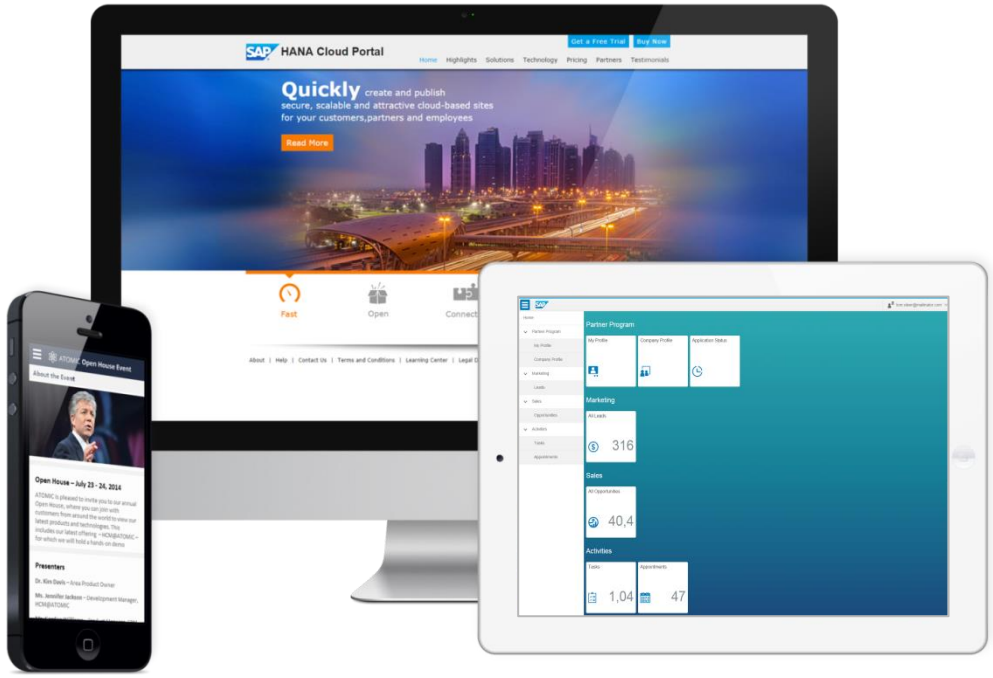
SAP HANA Cloud Portal provides an easy way for creating cloud-based business sites for your customers, partners and employees.

Key capabilities

- A service of the SAP HANA Cloud Platform
- Designed for mobile as a leading design principle
- Integrated with on premise and cloud based systems (SAP and non-SAP)
- For extending SAPs SaaS offerings (e.g. SuccessFactors, C4C)
- Role-based user authorization

Benefits

- Multi-language site support
- Fast branding and customization
- Sites and Fiori experiences entry points
- Integrated developer flows with SAP Web IDE



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Roadmap

Analytics capabilities in SAP HANA Cloud Platform

Road map overview – incl. key themes and capabilities in this context

Today	Planned Innovations	Future Direction
Data Integration		
• **Connect On-Premise** data integration or ETL (extract, transform, load) tools via SAP HANA Cloud Connector to SAP HANA in HCP • **Internet-of-Things**: HCP platform services to integrate sensor data • Data import - leverage SAP HANA native capability	• **Smart Data Integration** as part of SAP HANA Enterprise Information Management (EIM) - leverage SAP HANA native capability	• **Smart Data Quality** as part of SAP HANA Enterprise Information Management (EIM) - leverage SAP HANA native capability
Charts, Dashboards & Analytics		
• **Custom development:** Create own SAPUI5 based analytical applications on top of SAP HANA data • **Connect On-Premise** SAP Business Objects clients to SAP HANA in HCP • **Predictive Services** - embed predictive into applications, solutions, and BI environments • **SAP Cloud for Analytics**, HCP edition – Collaborative analysis and planning – Visualization and storytelling	• **SAP Cloud for Analytics**: – Location Analytics – Enhanced analytics – Drill-down to source system – Big data optimization (Hadoop integration etc)	

04. April 2016

This is the current state of planning and may be changed by SAP at any time.

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Summary

Summary

Key takeaways

1. Create your own analytical applications on top of SAP HANA in SAP HANA Cloud Platform today!

2. Various options available to load data into SAP HANA, create Fiori-like user interfaces including charts and embed into a bigger context, e.g. Fiori launchpad.

3. Exciting roadmap with available and planned innovations, e.g. for
   - data integration
   - predictive services that can be used on top of your SAP HANA Cloud Platform applications
   - SAP Cloud for Analytics to provide easy-to-use toolset for analysts

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Thank you

Contact information:

F name L name
Title
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Address
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