



SAP Business Data Cloud

Data Products & Intelligent Applications

Your name, SAP SE
Date

Partner



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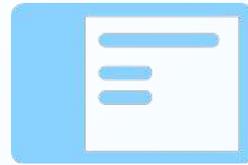
What is a data product?

Organize SAP data through data products



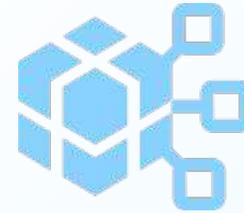
Business Data Sets

Master and transactional objects/entities, analytical data sets, config data, etc. all semantically aligned



Well Described

via rich metadata descriptions and including semantics



Easily Consumable

Simple SaaS access from data modeling and BI tools, while fully integrated with data engineering tools



Discoverable

via an SAP data product catalog

SAP Business Data Cloud data products

Semantically aligned, discoverable and accessible data products

A data lake of semantically aligned data products

- Based on scalable, economical object store
- Spanning all SAP applications, and fully extensible to non-SAP data

Discoverable via a single catalog

- All data products, available from all applications in the landscape, automatically appear in the central catalog (UCL)
- Standard metadata exposure through Open Resource Discovery (ORD) protocol

Accessible via a common set of APIs

- Using delta sharing protocol as API to access the datasets of a data product
- “SaaS like” access from applications including SAP Datasphere (modeling) and SAP Analytics Cloud (visualization)
- Following a set of rules to achieve one domain model compliance to allow a common interpretation of semantics cross LOB independent of the use case on top

SEMANTICS

Harmonized
SAP data model

METADATA

Open Resource
Discovery (ORD)

CATALOG

Managing API's to
access data products

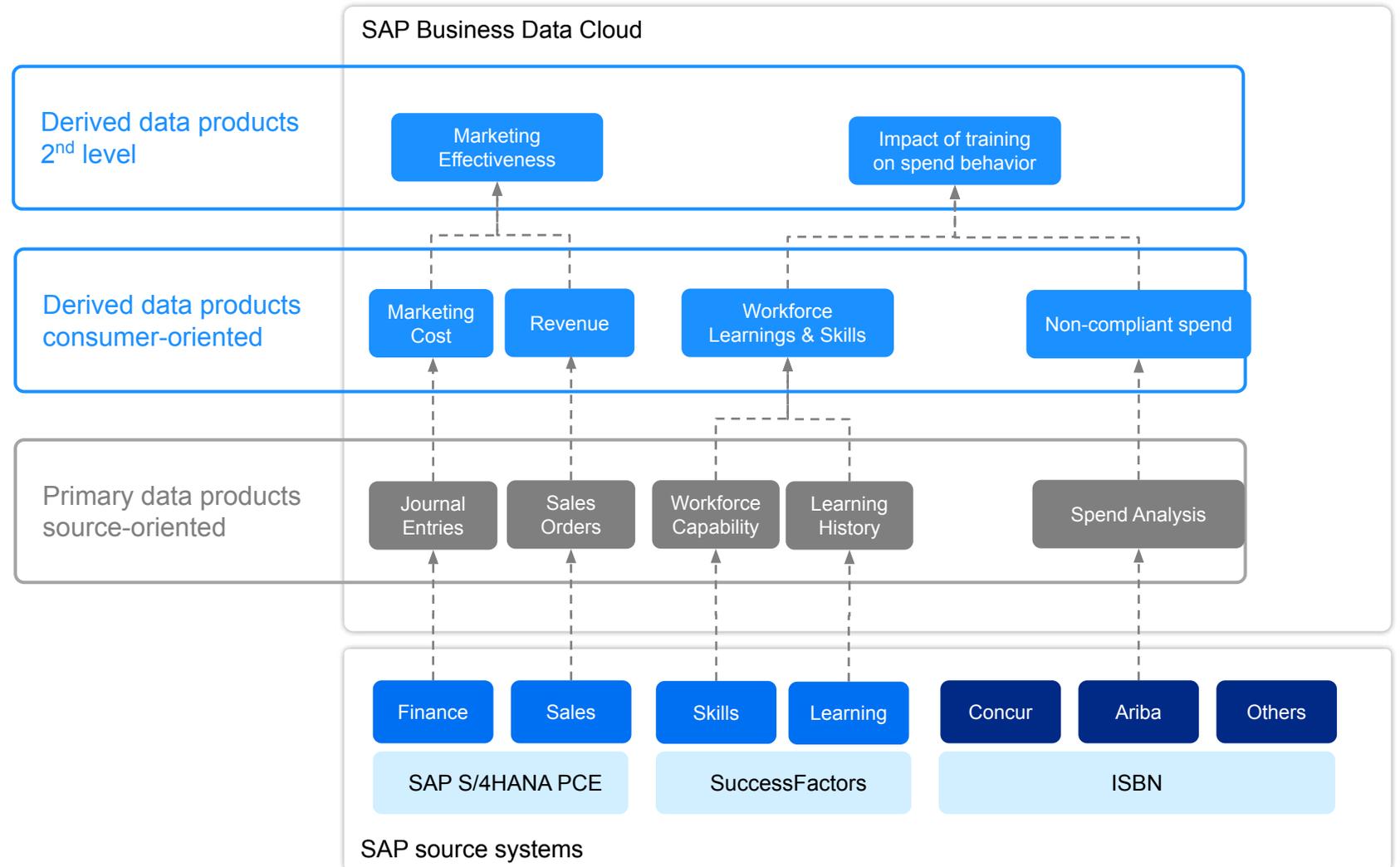
Organize SAP data through data products

A service to minimize time to insight

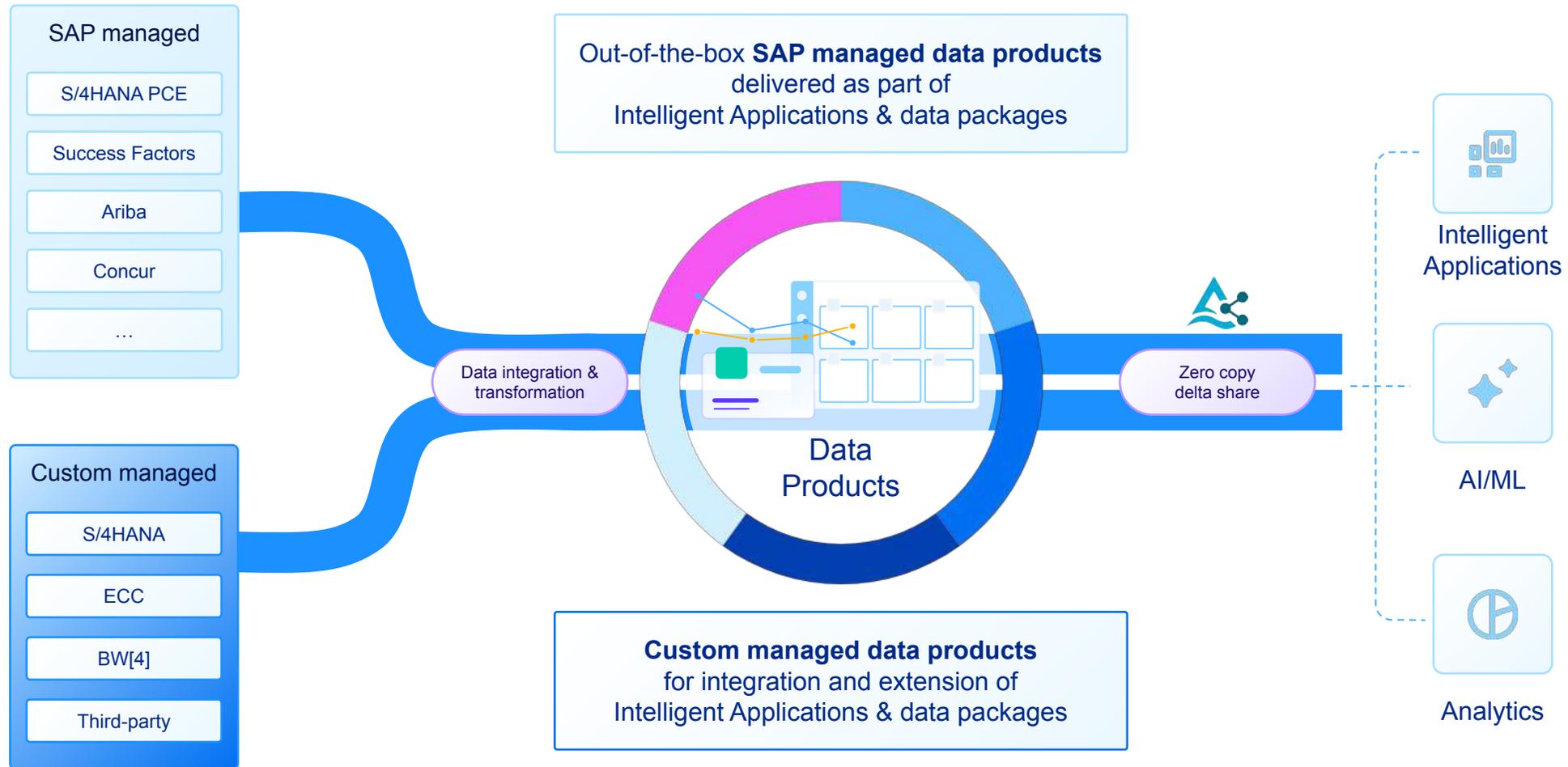
Primary and derived data products

A **derived data product** is curated by SAP and derived from other data set(s). They deliver value-add and are based on other data products or APIs.

A **primary data product** is directly provided from applications and is not based on other data products representing the original data from a source application.



Establish a Data Product Economy to serve multiple use cases



SAP Data Products

Fact sheet

SAP Data Products...

...comprise semantics (metadata) & actual data

...are fully managed, loaded and governed by SAP

...currently support only limited data sources extensions (Z-fields)

...currently have an average data freshness of about 1-2 hours (behind the data source timestamp)

...can be used as a data source themselves for so called Derived Data Products, built in:

- Data Product Studio (Q2 2026)
- SAP BDC partner solution: Databricks, Snowflake (HY1 2026), Google BigQuery (HY1 2026) and Microsoft Fabric (HY2 2026)

Data Products

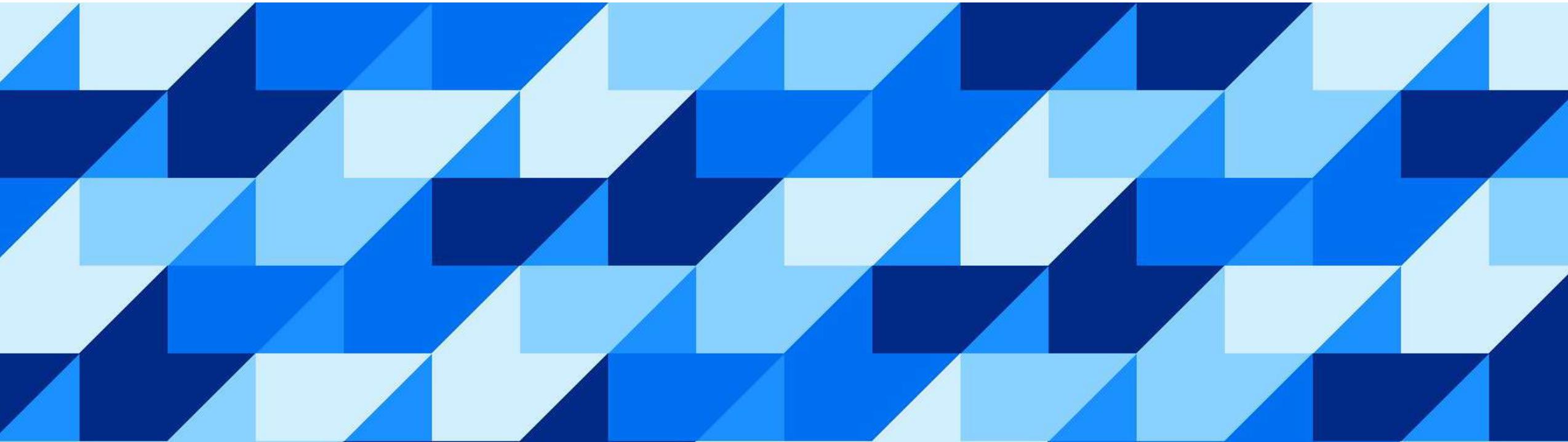
Released & planned Data Products

Released Data Products: <https://api.sap.com/dataproducts>

SAP Roadmaps - Business Capability: Data Product Management:

<https://roadmaps.sap.com/board?PRODUCT=73555000100800004851&range=CURRENT-LAST&q=data%20product&BC=B9314318771A1EEFBFB783A4FC0A4458#Q2%202025>

Leverage Intelligent Applications and Data Products to Derive Insights

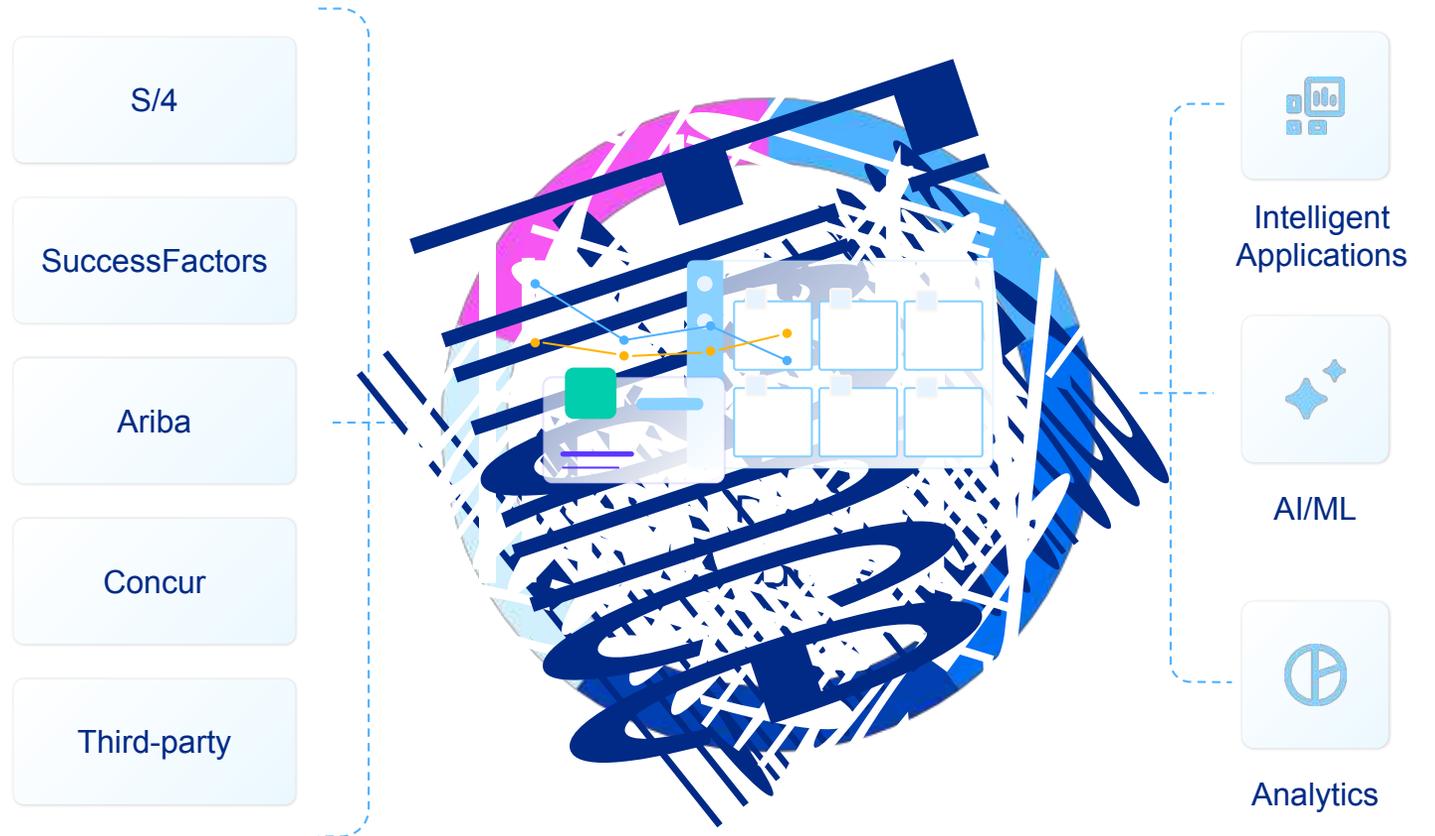


Leverage SAP's deep knowledge of application data and metadata

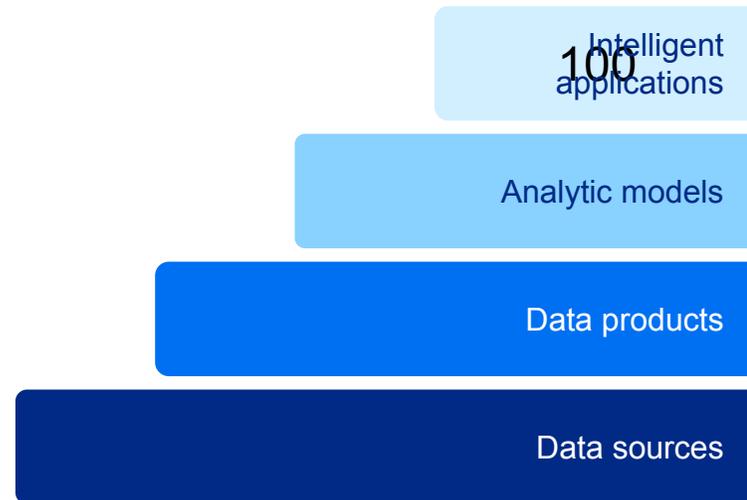
Use SAP pre-built data products that provide a 360-degree business view of your most critical business processes across all your SAP applications

Ensure consistency and business context with SAP-managed data sets and semantics

Fuel your most important business processes with AI-ready data that is instantly connected, actionable and contextual

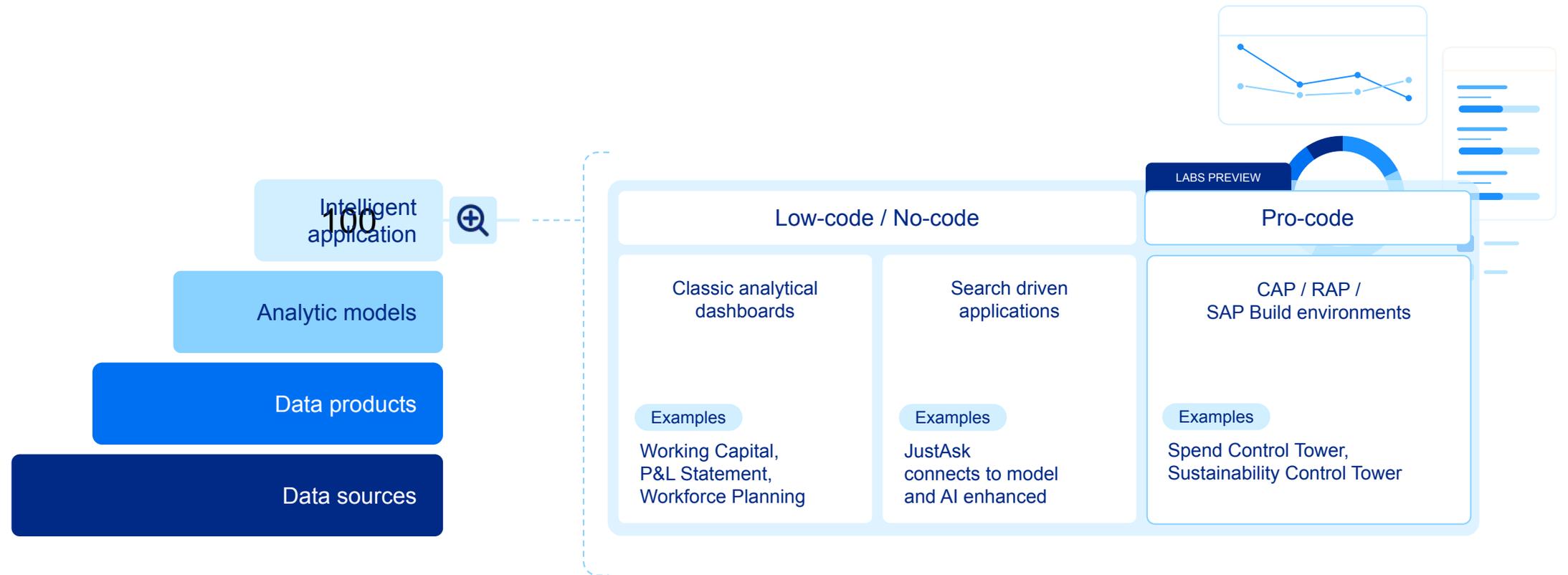


What is part of an intelligent application



- Intelligent Applications represent a distinct use case from the broader Intelligent Applications context
- They contain an SAP managed collection of analytical assets and functionalities to provide value to customers through analytical, process, or domain insights
- It can contain data products, semantic models, stories, planning models, AI-powered analytics, and more

What is part of an intelligent application



Working Capital – Gain a deep understanding of your operations

Intelligent Applications for Cloud ERP Intelligence

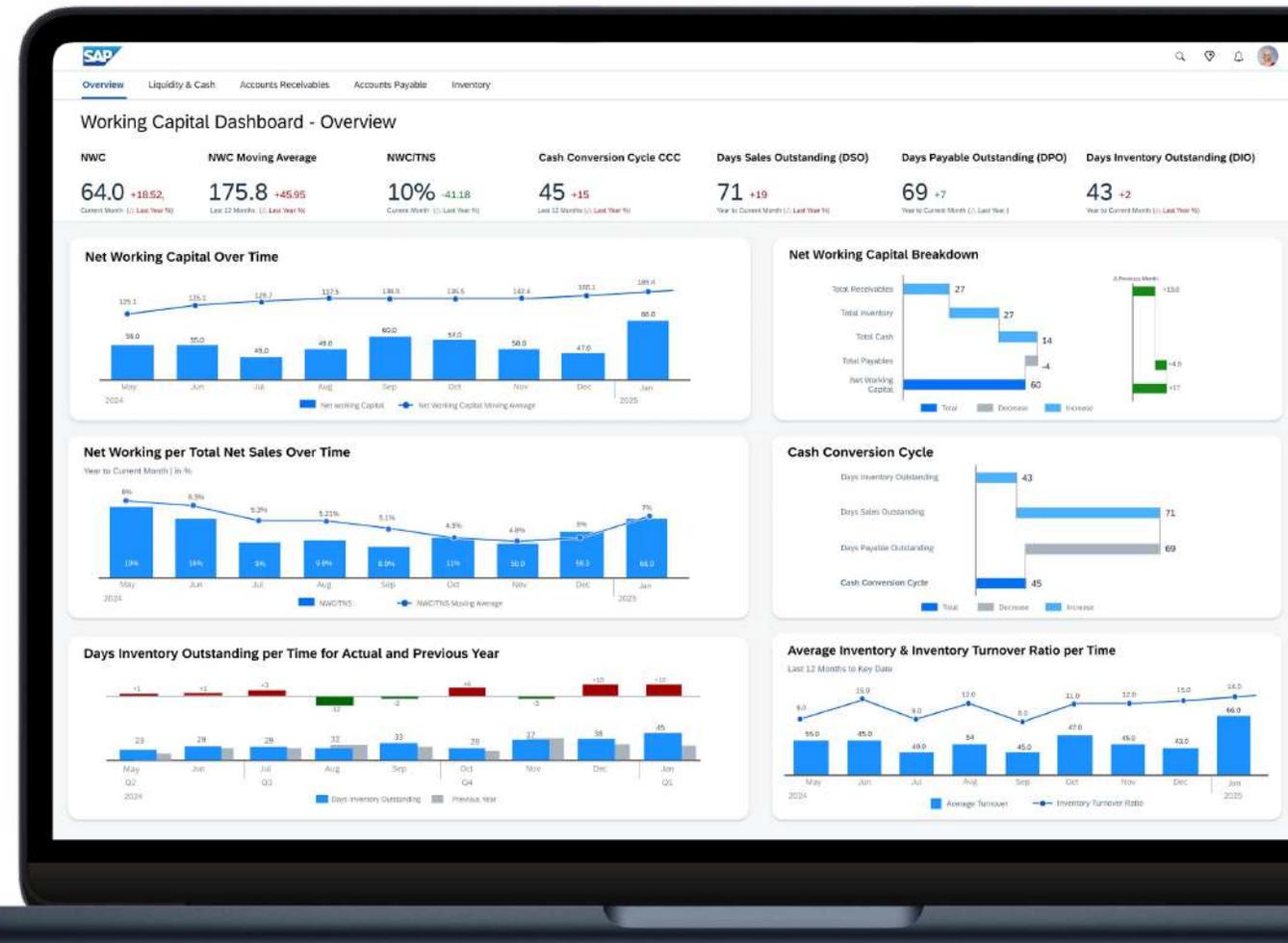
Cloud ERP Intelligence

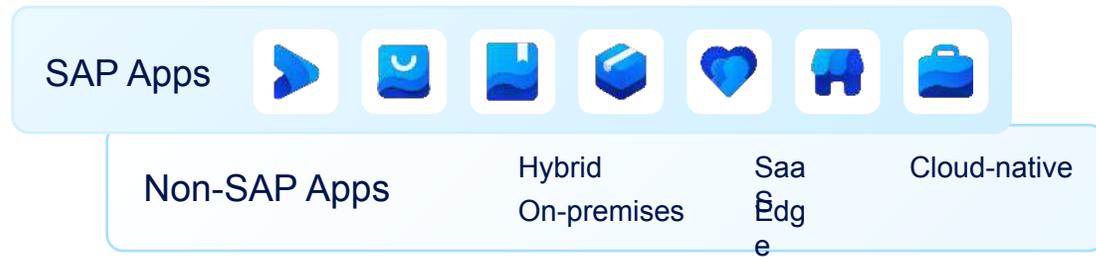
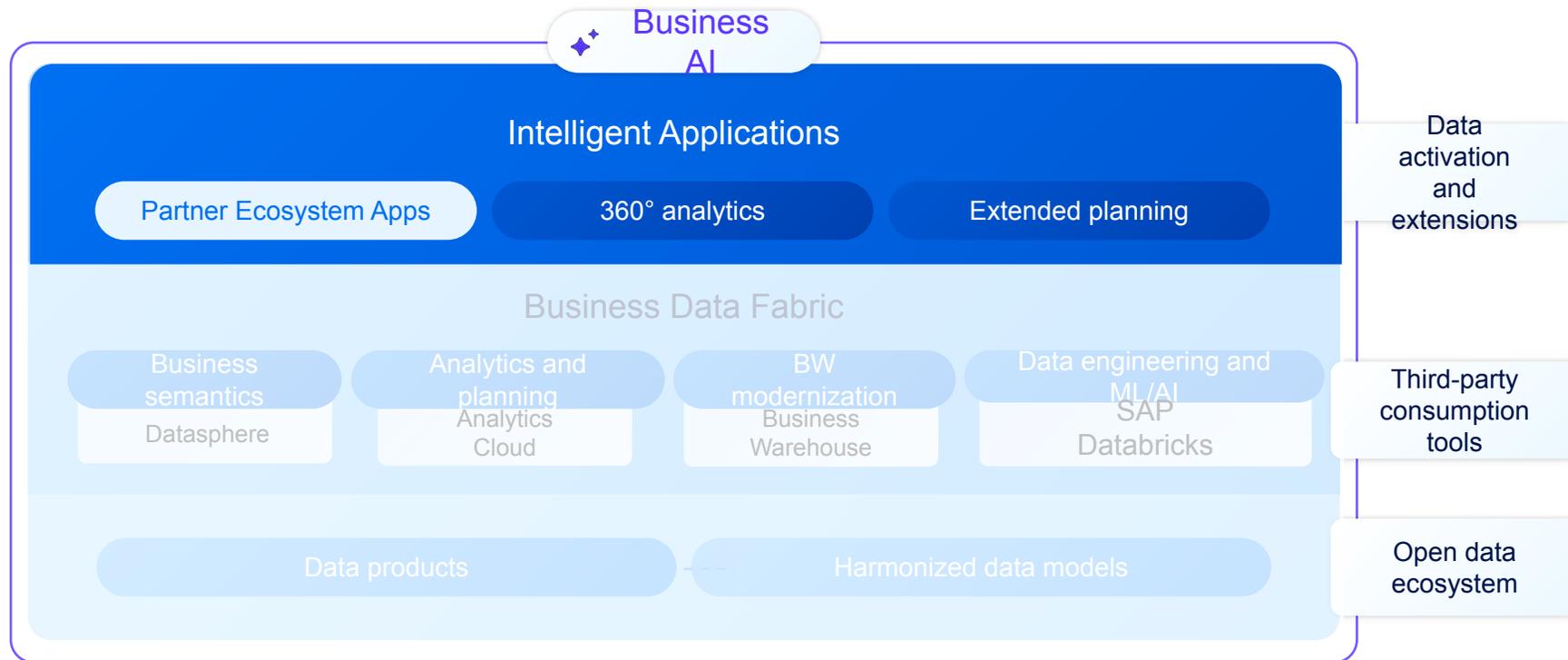
Enabling companies to effectively make use of current assets and maintain sufficient cash flow to meet short-term goals and obligations.



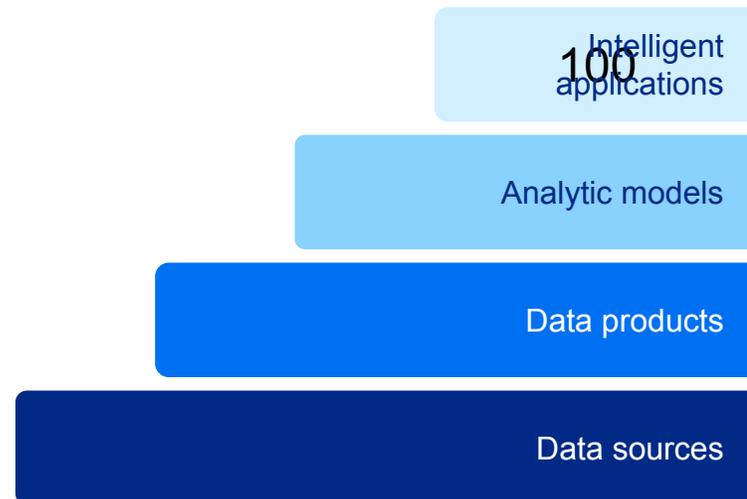
The intelligent application helps to answer:

- How has the working capital trended over the past few periods?
- What is the average payment period for accounts payable?
- Are there opportunities to negotiate better payment terms with suppliers?
- What is my days sales outstanding?





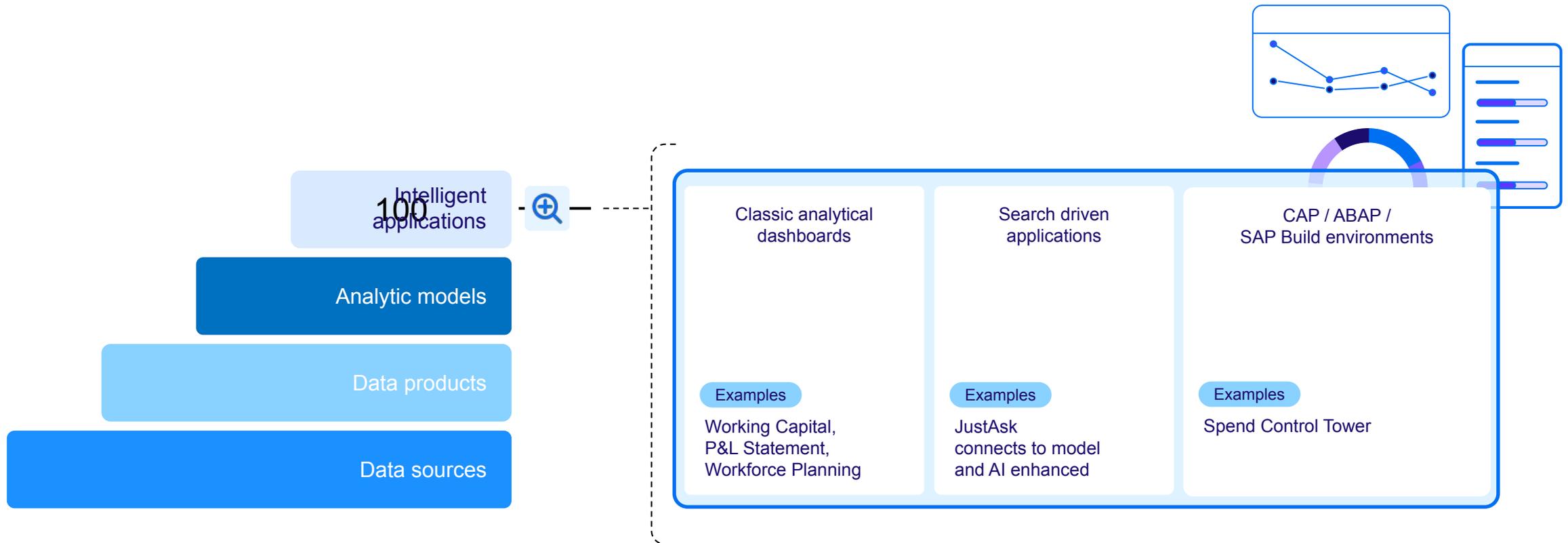
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What is the difference between installation, sharing, activation, and onboarding

Activation



Data Packages

SAP BDC
Cockpit

Activation is the process of making the baseline data and the relevant data products of a data package available.

Data and models are present within the foundation services. The data products can be discovered and installed through the catalog.

Sharing



Data Products

SAP BDC
Cockpit

Sharing is the process of enabling an SAP partner solution of SAP Business Data Cloud access a Data Product in a federated approach via Delta Share. Afterwards, Data Products can be leveraged in the partner solution for the individual data engineering, machine learning or AI use case.

Installation



Intelligent Applications
Data Products

SAP BDC
Cockpit

SAP
Datasphere

Installation is the process to entirely activate & load associated data products and also install the content within SAP Datasphere and SAP Analytics Cloud. As a result dashboards can be directly consumed. You also install data products within SAP Datasphere.

Onboarding



Models w/ Metadata

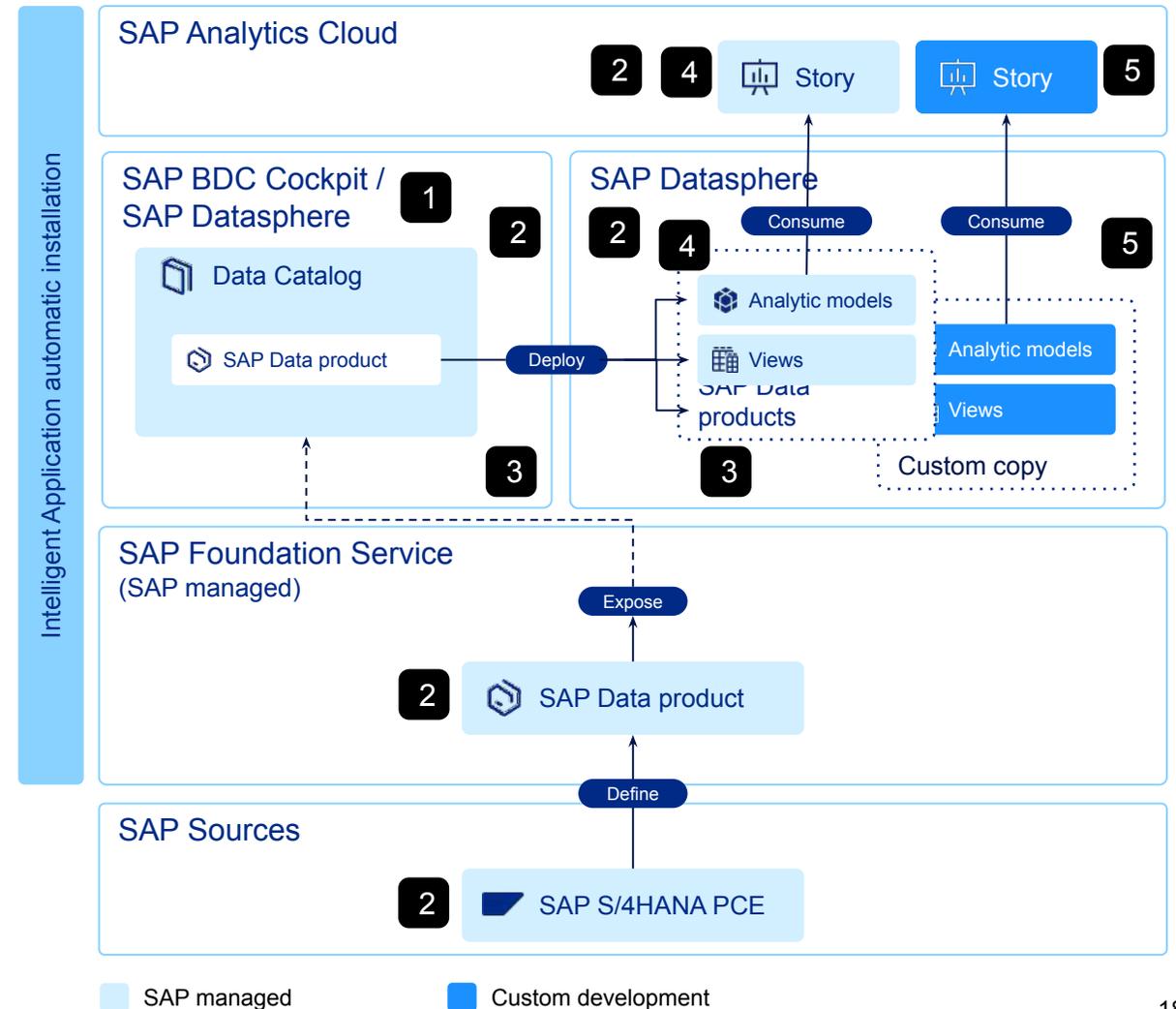
SAP
Datasphere

Onboarding is the principle within SAP Datasphere of making models (e.g. from SAP S/4HANA) and its data available for further modeling carrying over the relevant metadata. Onboarding refers to SAP S/4HANA, SAP BW, and in the future also SAP HANA Cloud.

Leverage an intelligent application to derive insights

Install intelligent applications & customization

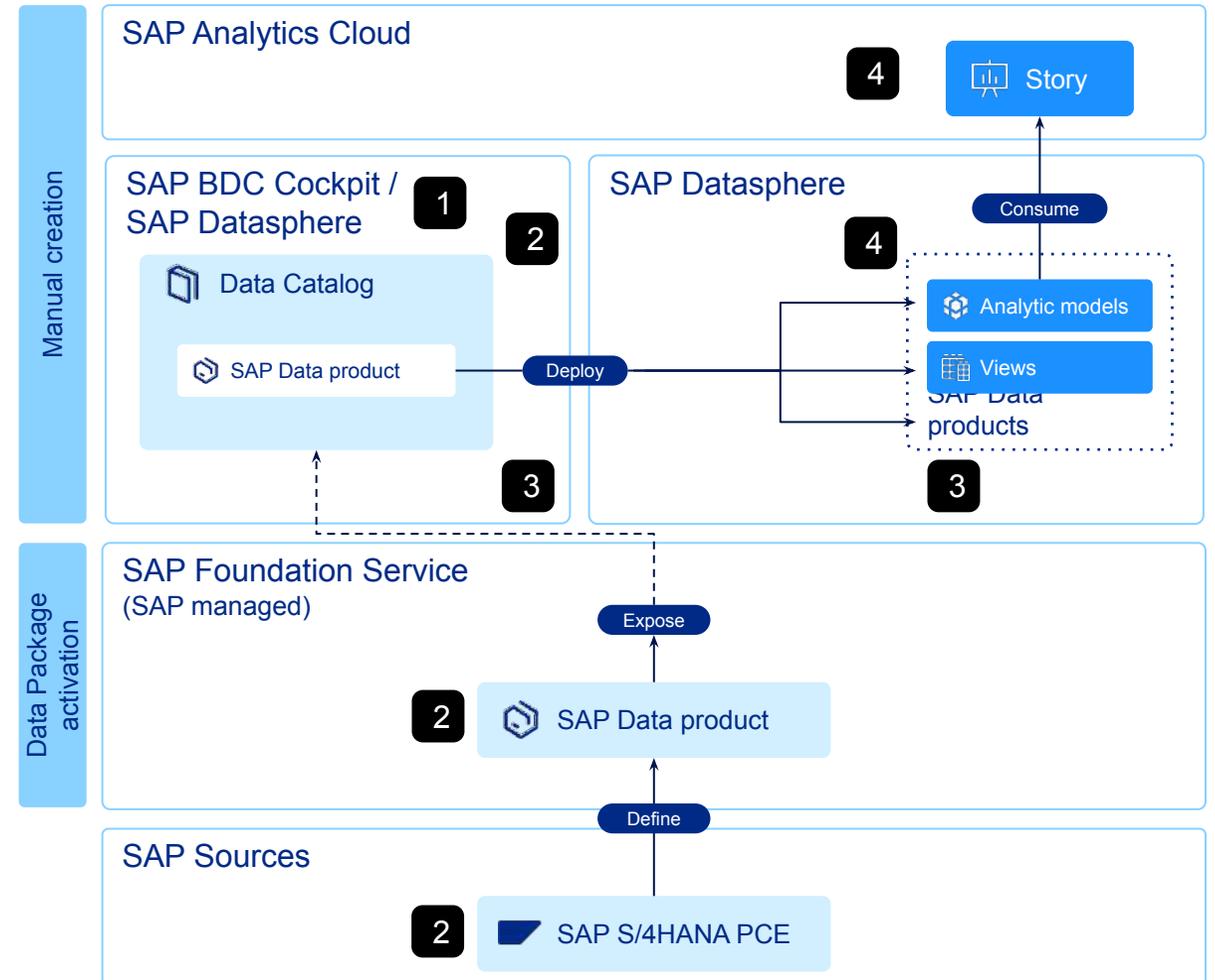
- 1 Check on available intelligent applications in the SAP Business Data Cloud cockpit
- 2 Install Intelligent Application, incl. enablement of required objects across all components, loading and onboarding of associated SAP data products in the data catalog
- 3 Activate data by accessing the baseline data and the relevant data products of a data package.
- 4 Derive insights by leveraging SAP Datasphere models & SAP Analytics Cloud stories
- 5 Copy & adjust SAP Datasphere models and SAP Analytics Cloud stories supporting customization



Leverage an intelligent application to derive insights

Activate data package directly to enable custom modeling directly

- 1 Check on available data packages in the SAP Business Data Cloud cockpit
- 2 Activate associated SAP data products, incl. loading and onboarding of associated SAP data products in the data catalog
- 3 Govern SAP data product access in the data catalog and execute data product installation in SAP Datasphere
- 4 Create SAP Datasphere models & SAP Analytics Cloud stories



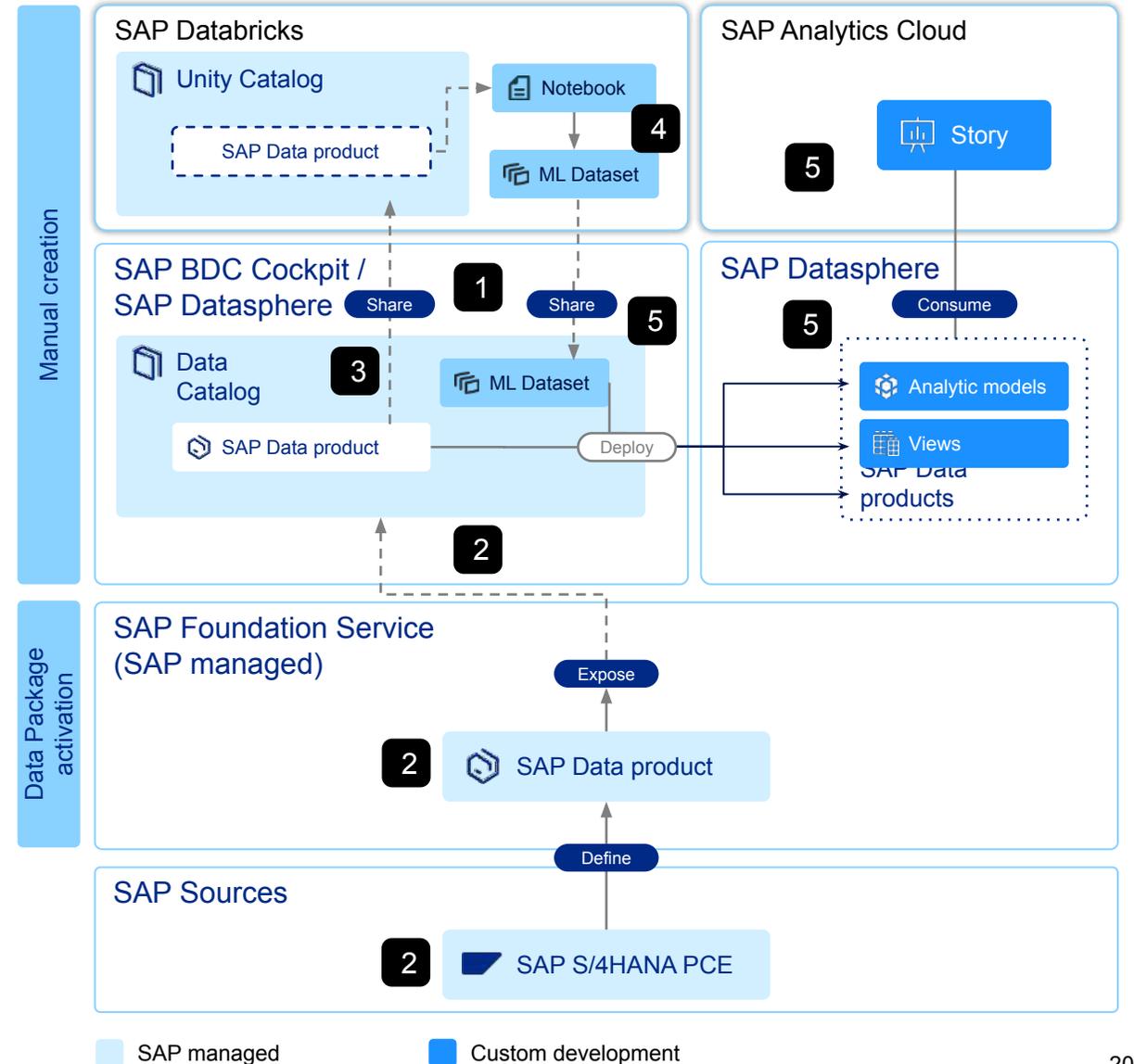
SAP managed

Custom development

SAP Databricks accessing SAP data products to derive ML insights

Activate data package directly to enable SAP Databricks access

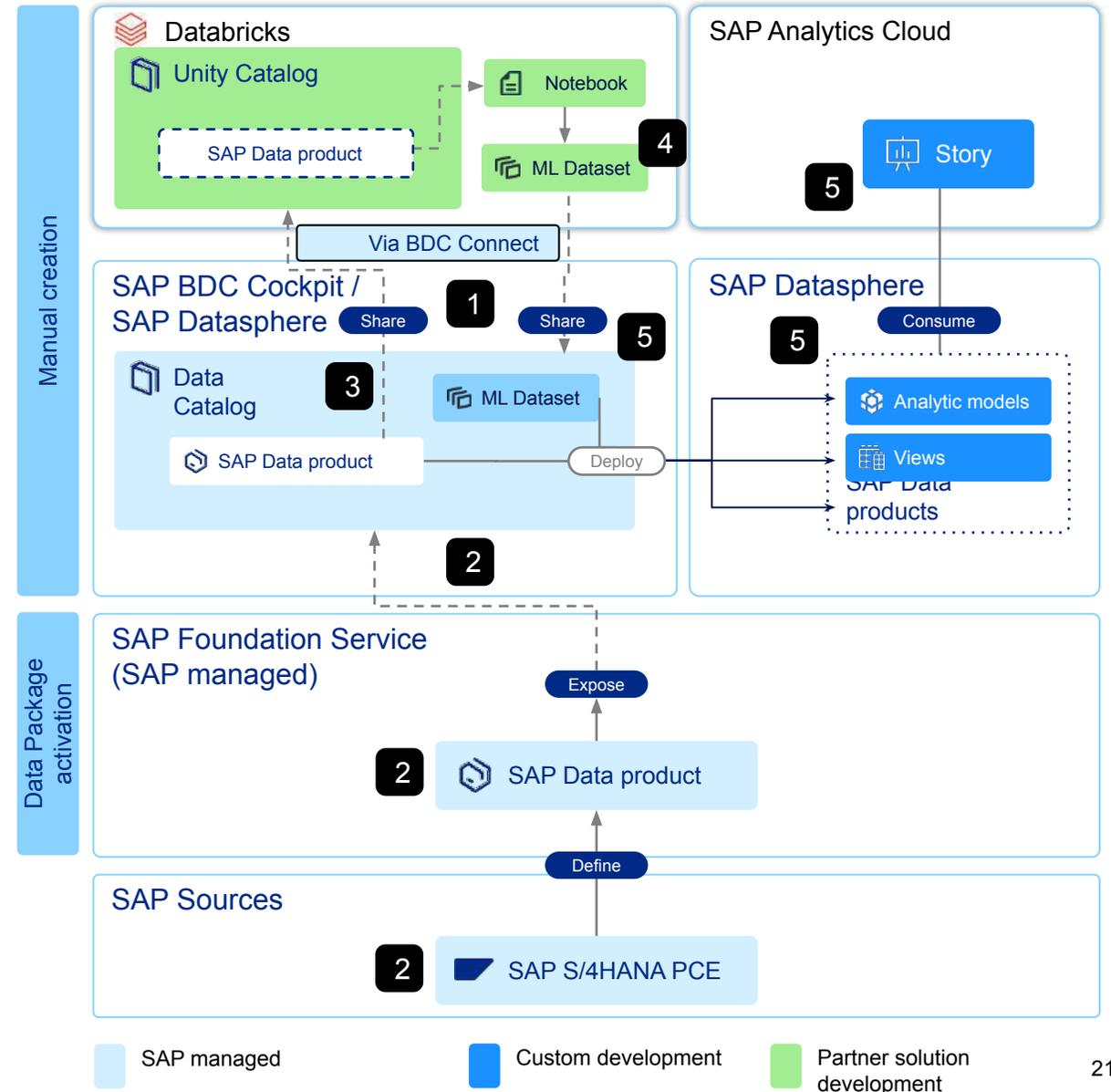
- 1 Check on available data packages in the SAP Business Data Cloud cockpit
- 2 Activate associated SAP data products, incl. loading and onboarding of associated SAP data products in the data catalog
- 3 Govern SAP data product access by data catalog sharing
- 4 Derive insights by leveraging SAP Databricks ML capabilities
- 5 Incorporate results to support business decisions



Enterprise Databricks accessing SAP data products to derive ML insights

Activate data package directly to enable SAP Databricks access

- 1 Check on available data packages in the SAP Business Data Cloud cockpit
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- 5 Incorporate results to support business decisions



What is available in Working Capital Insights?

Description

This intelligent applications delivers the following insights:

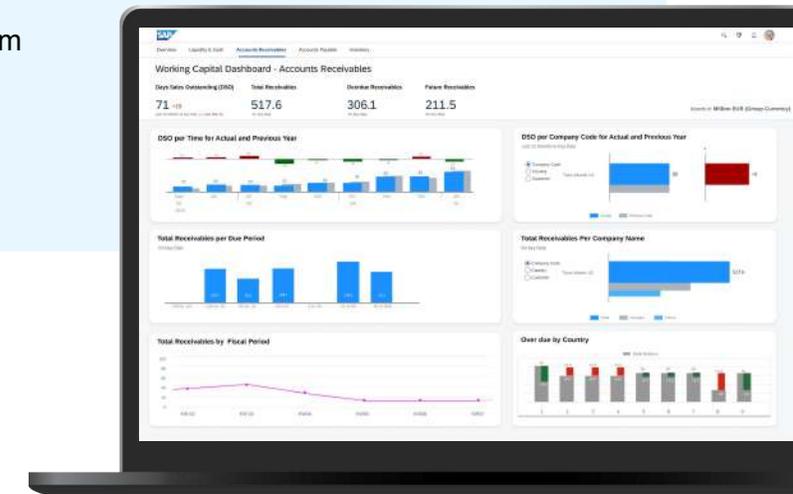
- **Liquidity and Cash:** Gives an overview of cash and assets to help companies effectively make use of current assets and maintain sufficient cash flow to meet short-term goals and obligations.
- **Accounts Payable and Receivable:** Companies need to have enough cash available to cover both planned and unexpected costs, while also making the best use of the funds available to fuel growth.
- Includes **Total Cash Balance, Net Working Capital, Actual Cash Balance, Inventory, Consumption, AP/AR Open Items, Days Sales Outstanding, Payments, Actual Cash Flow, and Forecast Cash Balance.**

Extended Databricks Use Case

- Expose SAP data products to Databricks to enhance the management of working capital by harmonizing insights from 3rd party treasury system for cash management and banking transactions, or 3rd party supply chain platform for supply chain performance and inventory management.
- Non-SAP source: Treasury or Supply Chain system

Data Products

1. BillableControl
2. BusinessArea
3. CashFlow
4. Company
5. CompanyCode
6. ConsolidationChartOfAccounts
7. ConsolidationSubItem
8. ConsolidationUnit
9. ControllingArea
10. ControllingObject
11. CostAnalysisResource
12. CostCenter
13. CostCenterActivityType
14. Country
15. Customer
16. EntryViewJournalEntry
17. FinancialPlanningEntryItem
18. FiscalYear
19. FunctionalArea
20. GeneralLedgerAccount
21. HouseBank
22. InternalOrder
23. JournalEntryHeader
24. JournalEntryItemCodes
25. Ledger
26. OperatingConcernPlant
27. ProfitCenter
28. Project
29. PurchasingOrganization
30. SalesTaxType
31. Segment
32. Supplier



Working Capital – Gain a deep understanding of your operations

Intelligent Applications for Cloud ERP Intelligence

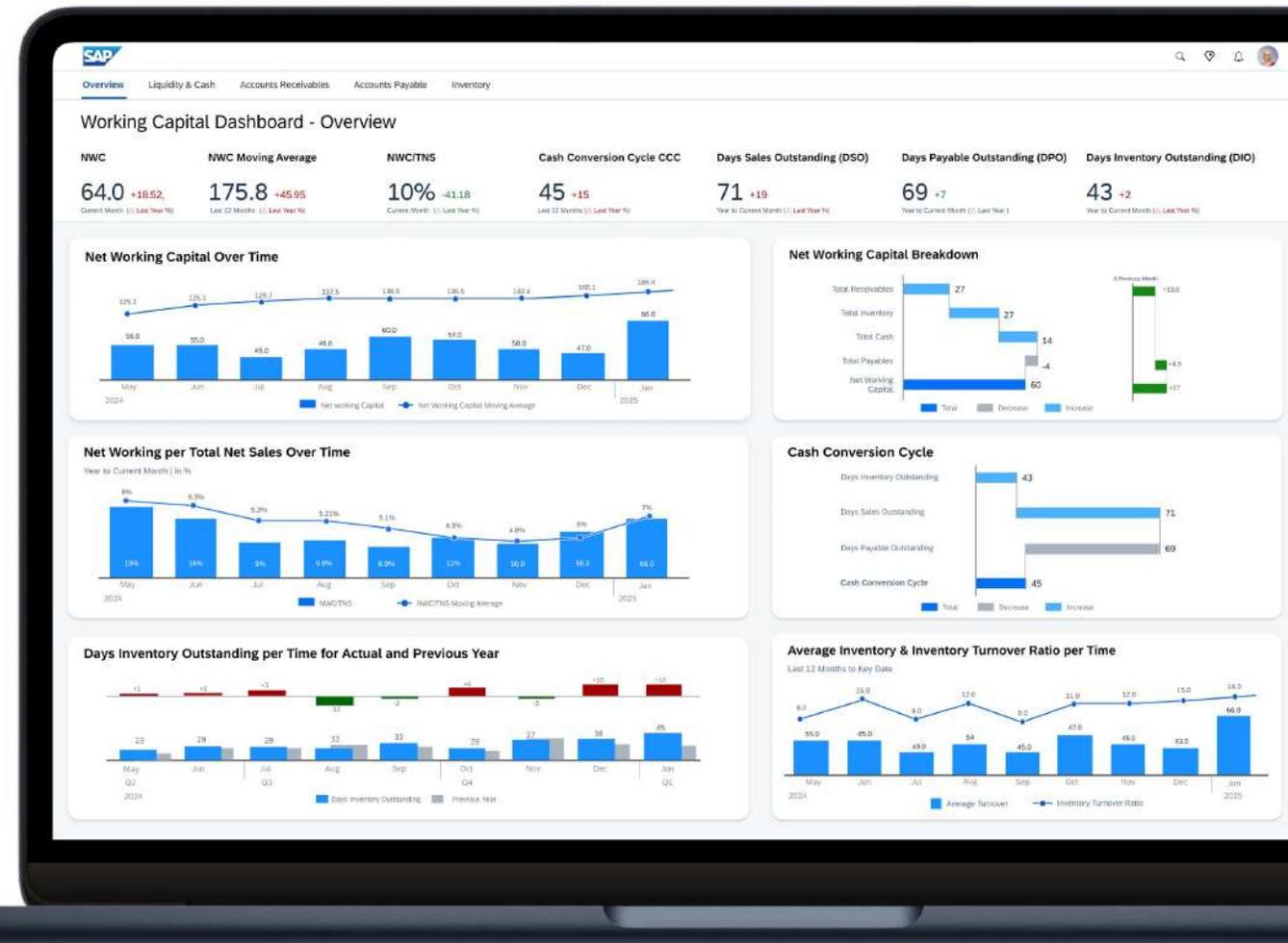
Cloud ERP Intelligence

Enabling companies to effectively make use of current assets and maintain sufficient cash flow to meet short-term goals and obligations.



The intelligent application helps to answer:

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Introducing People Intelligence

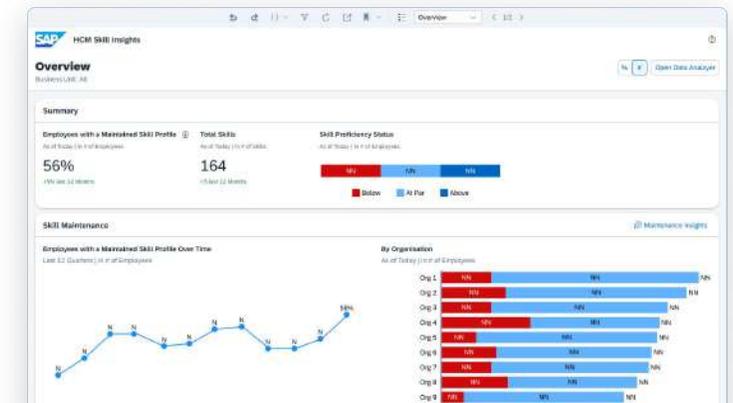
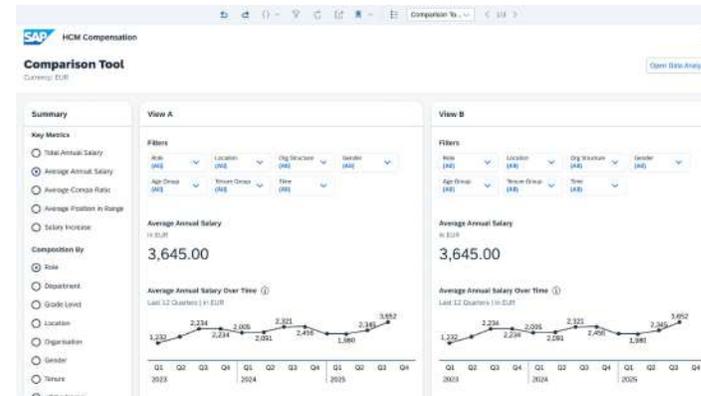
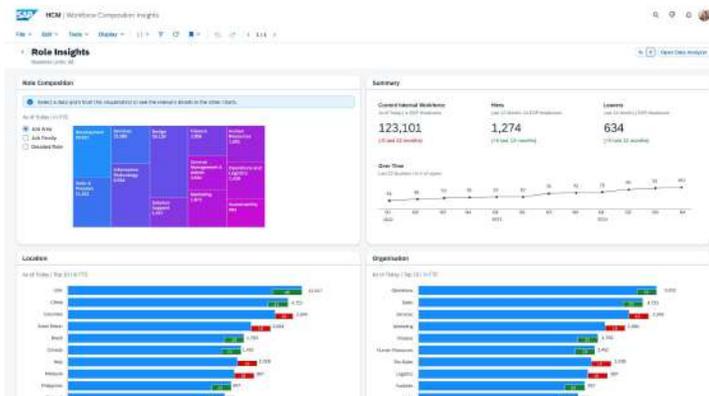
A people analytics solution that automatically transforms your people, skills, and business data – from SAP SuccessFactors HCM and beyond – into readily available insights to help you drive better people and business decisions



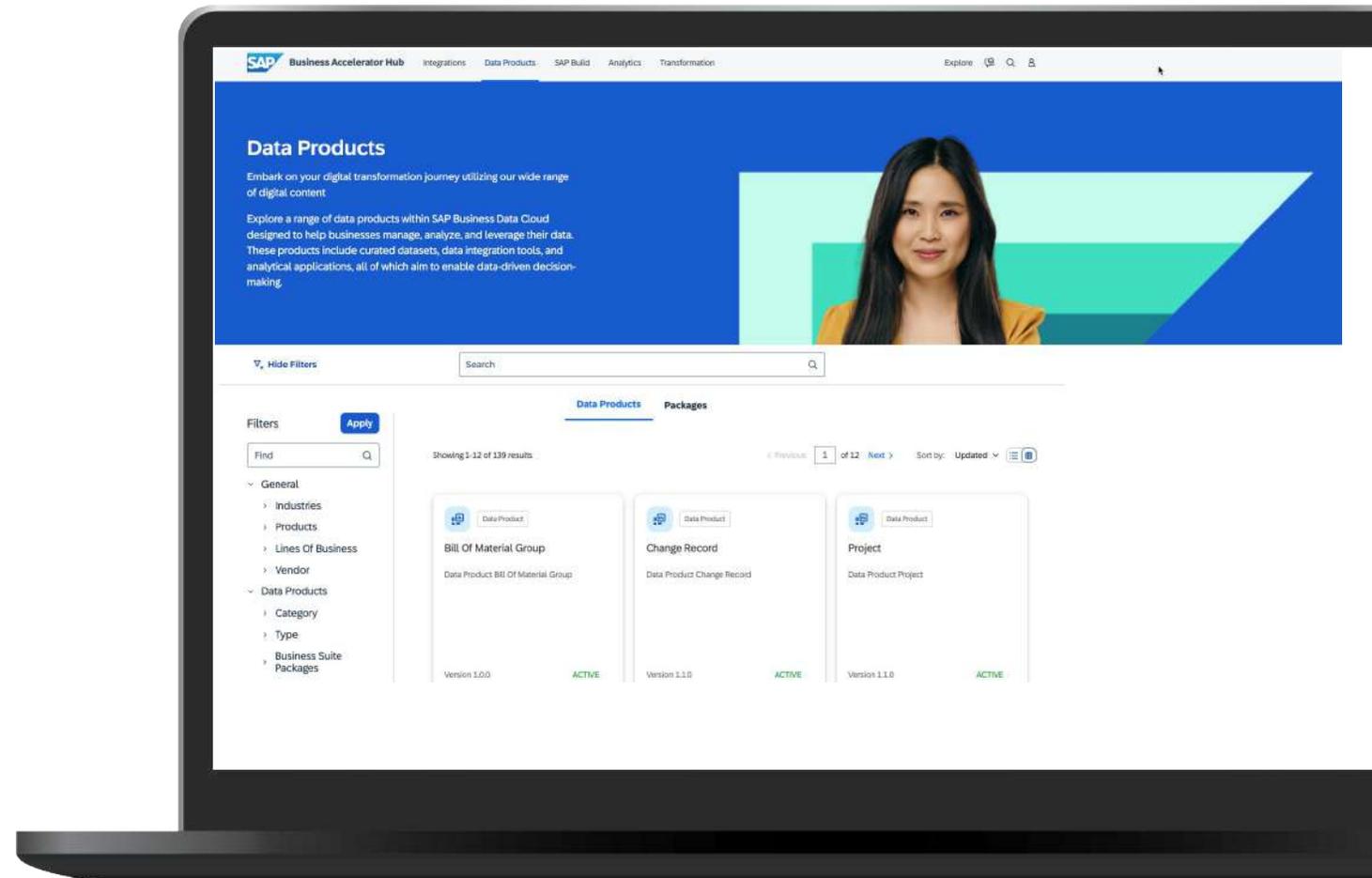
- ✓ Business-friendly app and self-service access
- ✓ Readily available dashboards and hundreds of HR metrics tracking what matters most to your business
- ✓ AI-driven predictions to forecast workforce needs, labor costs, risks, and to improve workforce planning
- ✓ Joule copilot to deliver smart insights based on the context of your business

- ✓ Context-rich, single source of people and skills data with seamless integration of SuccessFactors HCM data into SAP Business Data Cloud
- ✓ Automatic connection, harmonization, and governance of data across all SAP applications for unified HR and business data
- ✓ Holistic and outside-in view with structured and unstructured data from all sources, including external data

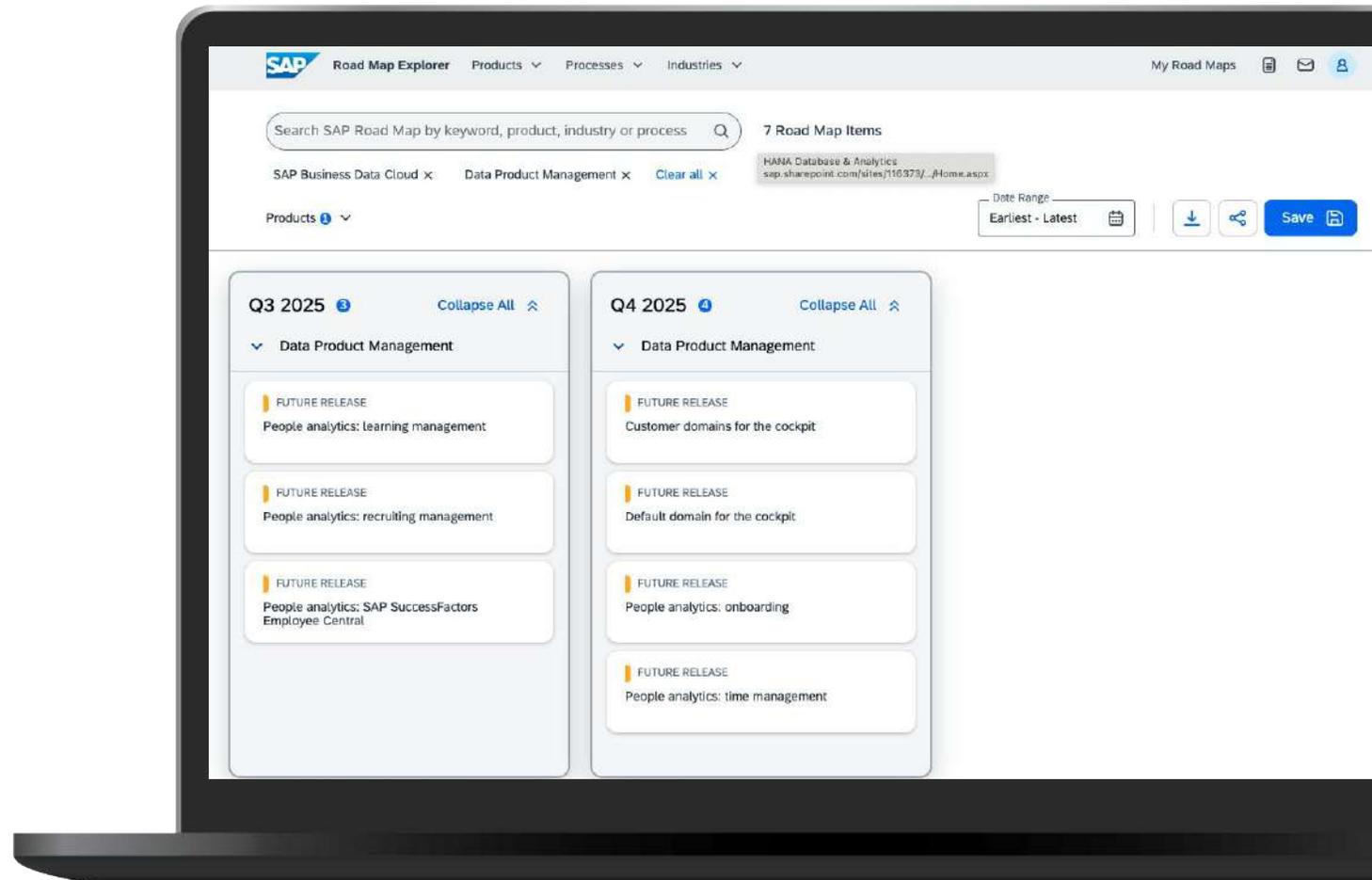
- ✓ Customization for specific business needs, including attributes, calculations, and row-level authorizations
- ✓ Semantically-rich and clean data in one place for AI process automation and faster decision-making across the business
- ✓ Advanced AI/ML, data science, and data engineering to extend and enrich



Available Data Products are listed in SAP Business Accelerator Hub



Data Product Roadmap accessible on [SAP Road Map Explorer](#)



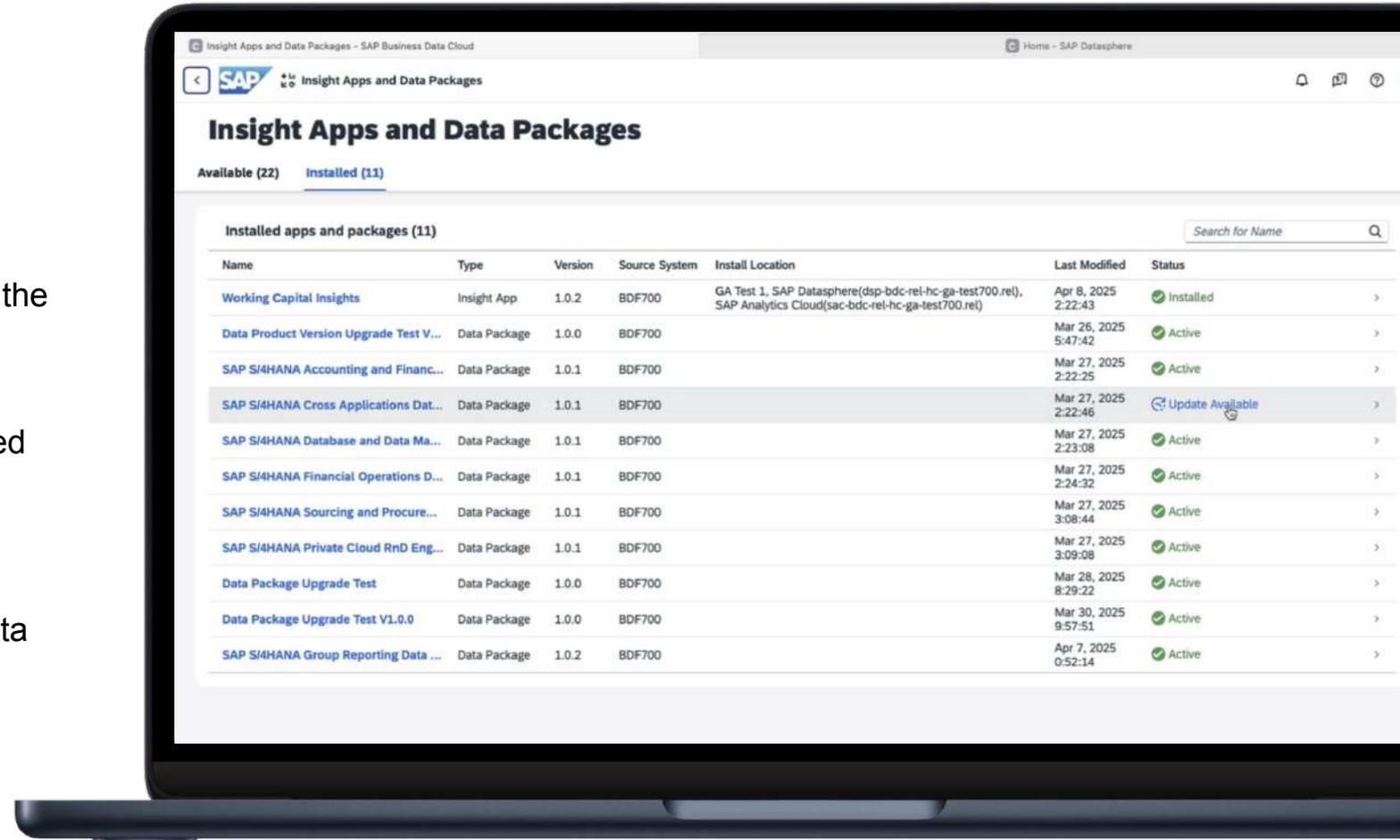
Lifecycle Management for Intelligent applications and Data Packages

The SAP Business Data Cloud Cockpit allows customers to install Data Packages. Each Data Package contains a collection of related Data Products.

Data Packages are versioned using Semantic Versioning (Major.Minor.Patch). Customers have the ability to install updates to these packages via the BDC Cockpit interface.

The update frequency for Data Packages is aligned with the release schedules of specific Lines of Business.

Customers create (derived) data product in Datasphere. Lifecycle management of Derived data products are responsibility of customer.



Data Product Customer Extensions

Activate data package directly to enable custom modeling directly

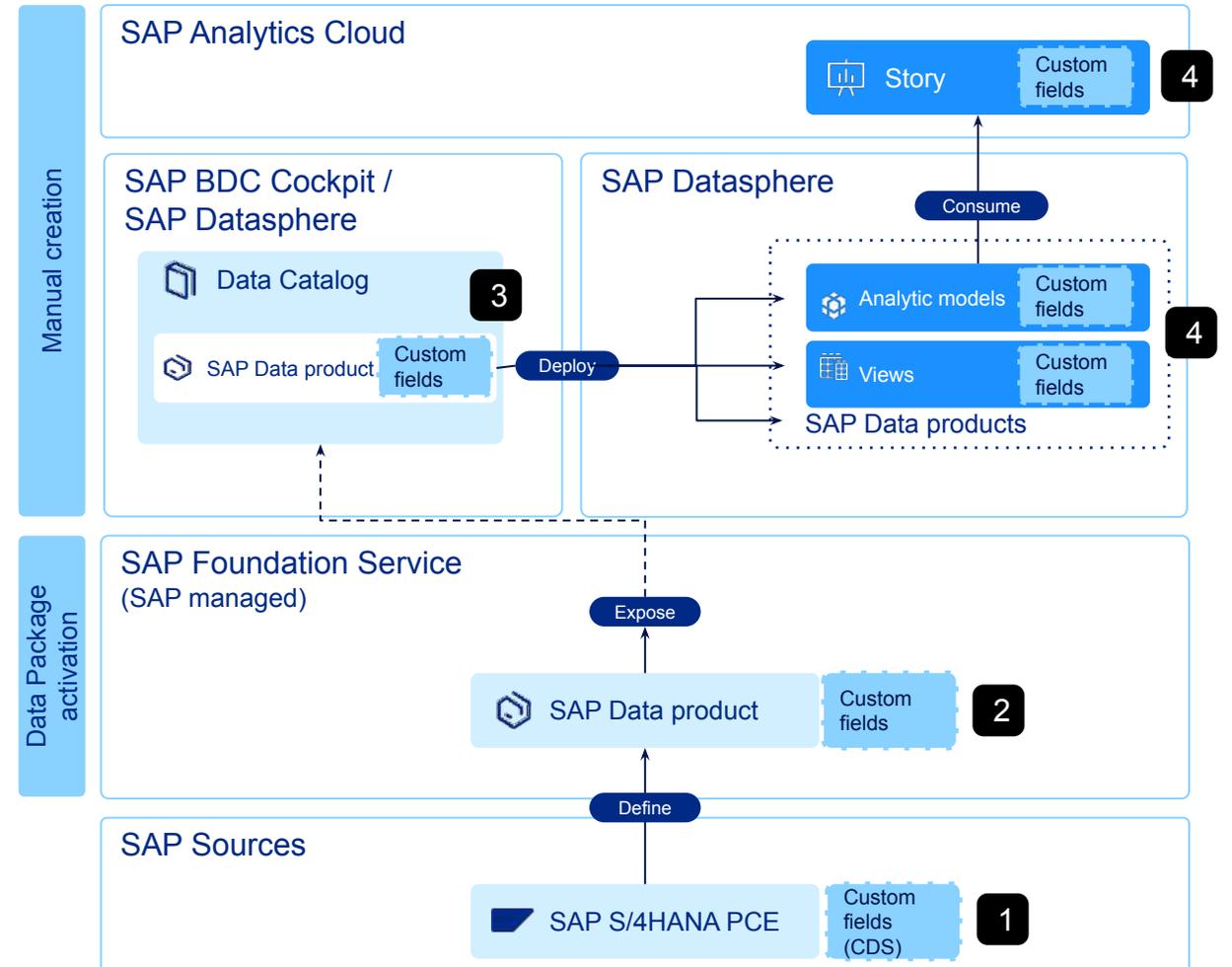
1 SAP Data Products also support customer extensions within any SAP Sources & locally defined extension fields.

2 Customer field extensions are supported on a “pass through basis” automatically added to the SAP Data Product and data processing pipeline

3 Govern SAP data product + customer fields access in the data catalog and execute data product installation in SAP Datasphere

4 Create SAP Datasphere models & SAP Analytics Cloud stories

! Custom fields that are added to CDS views after an activation of a Data Product need to be added by an uninstall and reinstall



■ SAP managed

■ Custom development

Data Product Customer Extensions

SAP Learnings

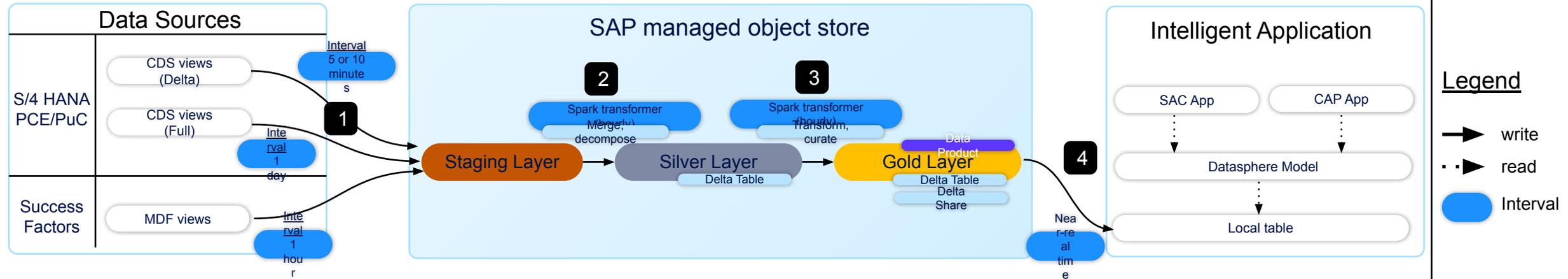
Practicing Clean Core Extensibility For SAP S/4HANA Cloud

Acquiring Core ABAP Skills

- Extending CDS Views

Data freshness or update intervals in Data Products (1)

High level architecture (simplified)



- 1** Data is pushed from S/4 via ABAP Push Framework or SFSF Data Subscription Service into SAP managed object store staging layer. The intervals vary from 5 or 10 minutes for delta enabled CDS views to 1 day for non delta enabled CDS views in S/4. The interval hour in HCM is currently set o 1 hour.
 - 2** Transformer in SAP managed object store cleanses data, writes it to Silver Layer and creates DeltaTables. It runs in an 1 hour interval.
 - 3** Transformer in SAP managed object store transforms and curates data, writes it to Gold Layer and creates DeltaShare. It runs in an 1 hour interval and fetches all new records.
 - 4** Replication Flow writes updated Data Products to Datasphere SAP managed injection space near-real time
- !** Data Product/Intelligent Application update latency can be from about 1 hour up to 2 hours or more as the Transformer scheduler runs hourly only.
 - !** Some Data Products contain both: delta enabled and not delta enabled CDS views. Those Data Products then contain data which is up to 1 day old. (see example next slide)

Data freshness or update intervals in Data Products (2)

Sample Data Product with delta and non-delta enabled CDS views embodied

Data Product name	CDS views	Delta enabled	Update mode	Interval
Customer	CustomerSalesAreaTax	No	Full	1 day
	Customer	Yes	Delta	10 minutes
	CustomerCompanyCode	Yes	Delta	10 minutes
	CustomerDunning	Yes	Delta	10 minutes
	CustomerSalesArea	Yes	Delta	10 minutes
	CustomerUnloadingPoint	Yes	Delta	10 minutes
	CustomerWithHoldingTax	Yes	Delta	10 minutes

- ! Data coming from CDS view *CustomerSalesAreaTax* can be up to 1 day old as there is only one daily upload of this view into staging layer of SAP managed object store
- ! Generally, only static master data CDS views with few new daily records are not delta enabled
- ! SAP is working on enabling more CDS views with delta mode where we daily observe a significant number new records in some full only CDS views

Why

Establishing and following through on the Data Product Economy we need to provide a central experience when it comes to producing new Data Products – the Data Product Studio.

Changing

Today

- Data Products are today created as an afterthought we need to turn the experience from being Data Product centric.
- Data Product design-time is today bound to run-time which needs to be separated.
- No offering for partners to produce Data Products except leveraging Datasphere
- Producing Custom Data Products requires a full-blown SAP Datasphere instance

Evolving into the future

- Central entry point for all kind of Data Products, different:
 - Types: primary, derived
 - Origins: DBX, DSP, future (OEM) partner
 - Providers: SAP, Partner, Customer, Commercial Data Provider
- Entry point of the Customer Domain owner for extensions on any kind of Data Product
- Grouping different experiences:
 - Build
Supply | Enrich | Build
 - Configure
Extend | Configure
- Operationalizing Data Products
 - Moving throughout the landscape
 - Monitoring and understanding usage

Data Product Feature Set

Data Product Generator

- BW feature (BW 7.5. / BW/4HANA)
- Creation of BW data products based on selected InfoProviders
- **MVP:**
 - Pushes data to the SAP Datasphere object store
 - Created local table can be shared as data products (via Data Sharing Cockpit)
- **Roadmap:**
 - Delivering of semantics/associations
 - Lifecycle management
 - ...

Data Sharing Cockpit

- Datasphere feature (Data Marketplace)
- Creation of custom data products to be consumed via the data marketplace in same/different Datasphere tenant
- **New:**
 - Creation of data products with Delta Share output port based on ORD standard
 - For local tables in the Datasphere object store
 - Sharing with SAP Databricks via UCL (from wave 17)
- **Roadmap:**
 - Focus on external sharing

Data Product Studio

- Business Data Cloud Cockpit feature
- MVP planned for end of 2025
- Deploy data products in different runtimes (FoS, Datasphere,...)
- **Use Cases:**
 - Configure SAP managed data products
 - Create custom data products
 - Create derived data products
 - Data product lifecycle management
- *“composite e2e experience of creating, managing and deploying data products”*

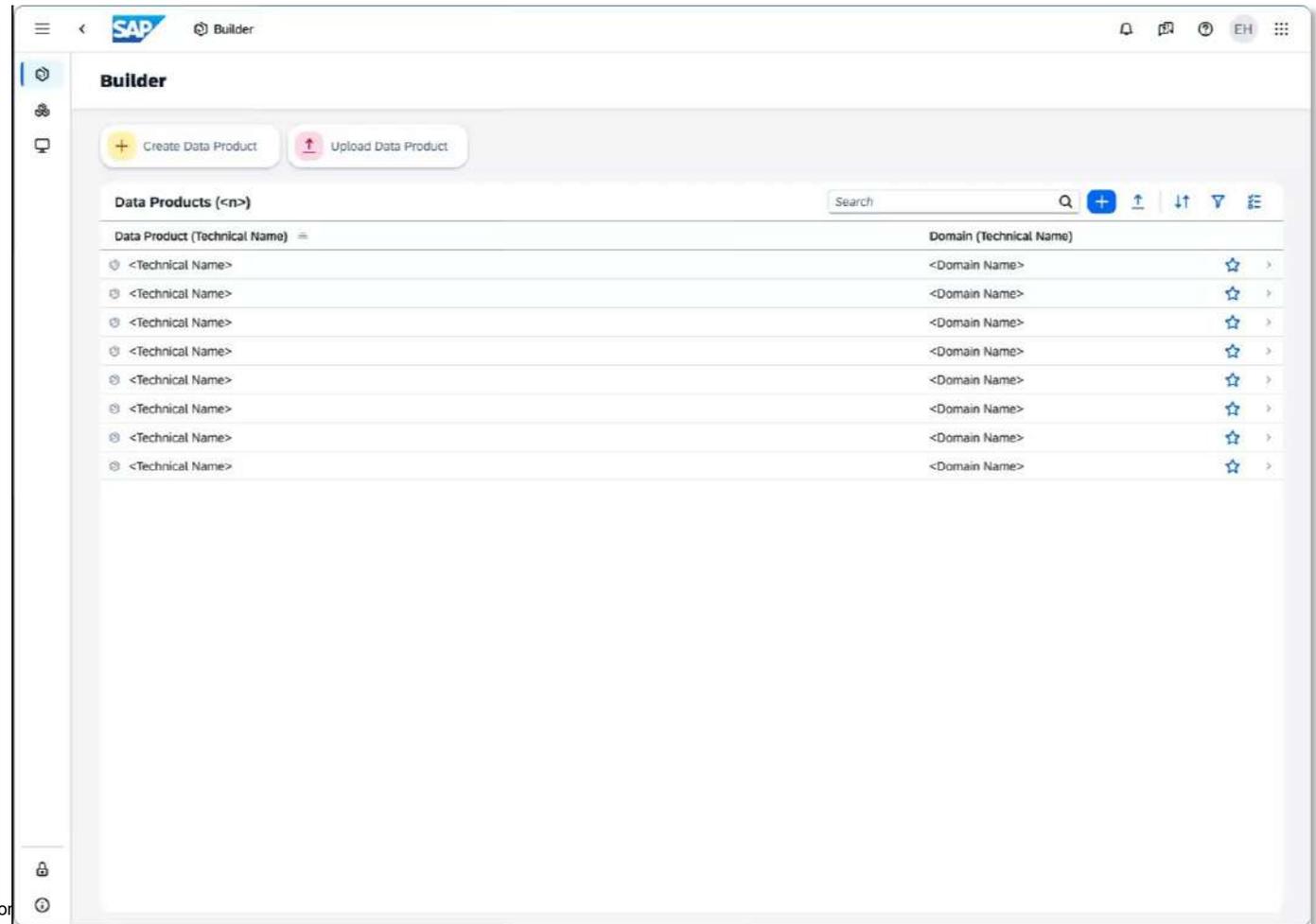
Data Product Studio

Establishing and following through on the Data Product Economy we will provide a central experience when it comes to producing Data Products – the Data Product Studio.

Changing

Today

- Start with Data Product definition and create transformation therein
- Separating Data Product design-time and run-time
- Easing production of Custom Data Products into a more lightweight approach
- Single entry point for any kind of Data Product creation:
Building new Data Products
Configuring Data Product
- Understand Data Product Usage and Consumption



Data Product Studio

composite e2e experience of creating, managing and deploying data products

Data Product Studio



Embedded in the SAP
Business Data Cloud
Cockpit



Build the design time of
a data product with no
boundary to a specific
runtime



Controlled data sharing
with clearly defined
domain ownership



Pro-code and low-code
tooling to cater for
different personas



Configure data products

Customize SAP-managed data products
by adding own sources

Extend SAP-managed data products
with custom data products and/or additional
entities

Leverage data product templates
as foundation for custom data products,
following pre-defined metadata structures

Build custom data products

Lift and shift existing investments
by building products on top of existing stacks
in e.g. SAP BW, SAP LoB apps, SAP
Datasphere and others

Connect and harmonize data
from SAP and third-party sources directly
within data products

Share data with an open data ecosystem
that maximizes your existing and future
investments

Manage data products

Own and govern data products
with Domains and pre-defined access
workflows

Provide stable data product versions
as a trusted foundation for analytic use
case

Fully control the data product lifecycle
from testing a new version to retiring it, all
managed from a central place within SAP
BDC

Version Management

Scope

- Keep track of all versions of a data product
- Manage updates without downtime at the consumer side
- Test new data product version in several runtime system prior to releasing it to the consumers
- Travel back to older versions if necessary
- Concurrent editing of versions
- Use existing versions as basis for new ones
- Retire data products / versions

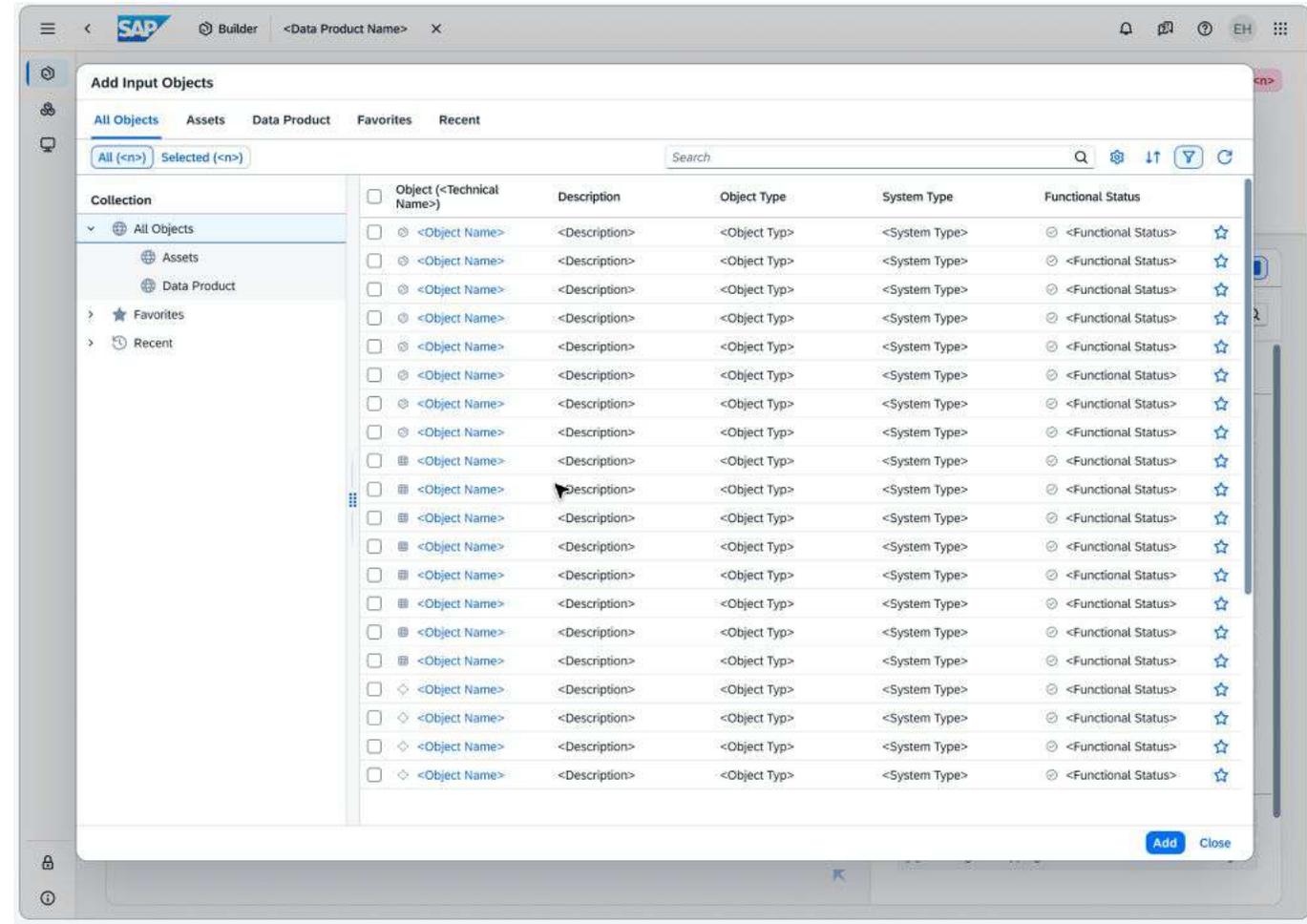
The screenshot displays the SAP Builder interface for managing data products. The main area is titled 'Builder' and contains two buttons: 'Create Data Product' and 'Upload Data Product'. Below these is a table of 'Data Products (<n>)' with columns for 'Data Product (Technical Name)' and 'Domain (Technical Name)'. The table lists several entries, each with a star icon and a right arrow. To the right, a panel titled '<Data Product Name>' shows a list of 'Versions (<n>)' with columns for 'Version', 'Release Status', and 'Last Changed On'. The version list includes entries with statuses like 'Not Released', 'Beta', 'Active', and 'Deprecated'.

Version	Release Status	Last Changed On
<m.m.p>	Not Released	<Date Format>
<m.m.p>	Beta	<Date Format>
<m.m.p>	Active	<Date Format>
<m.m.p>	Not Released	<Date Format>
<m.m.p>	Deprecated	<Date Format>

Source Data

Scope

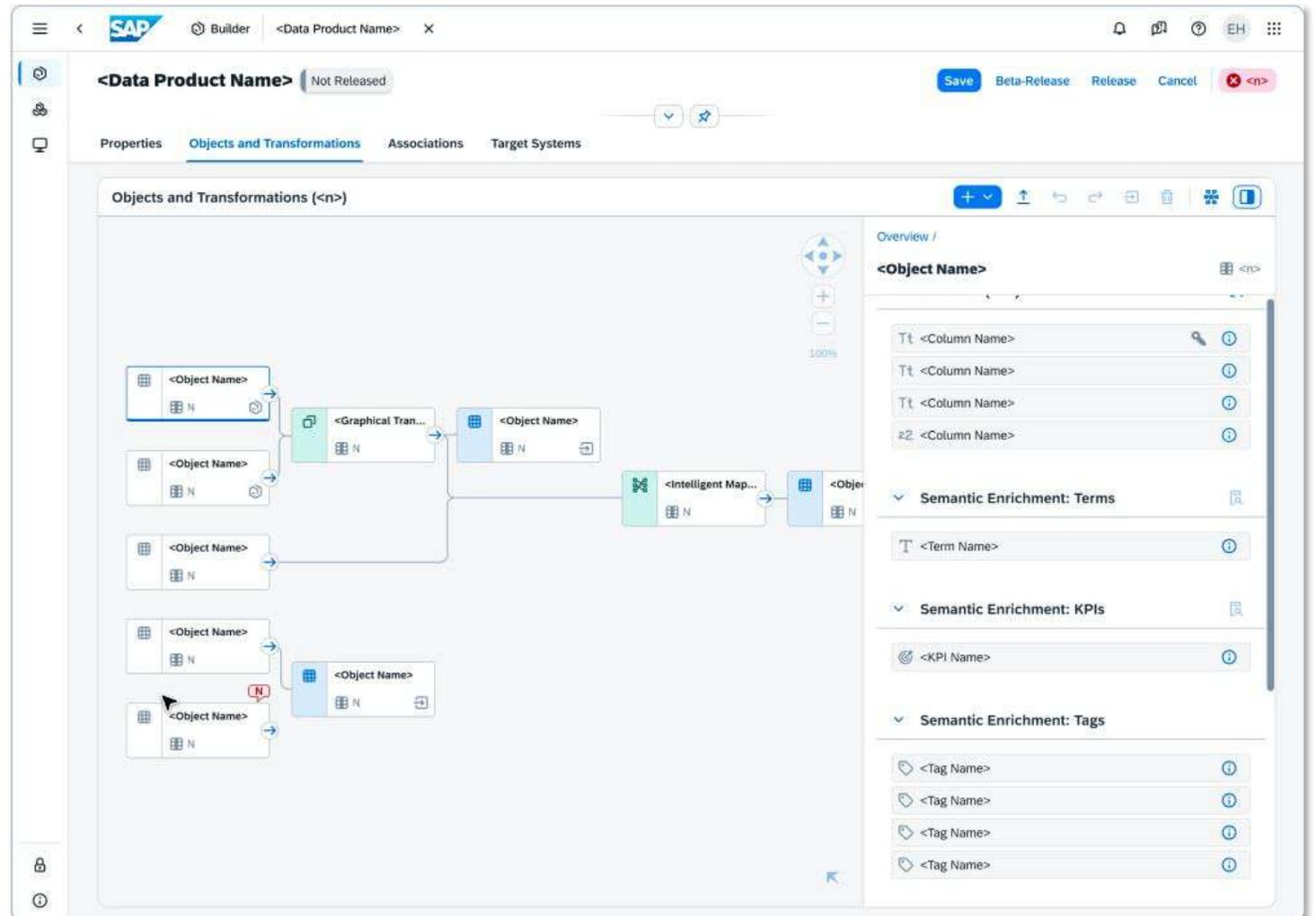
- Leverage **catalog capabilities** to search and browse assets and data products
- Onboard assets on **metadata level** as a basis to create data product entities
- Available sources for MVP
 - Primary Data Products
 - SAP Datasphere object store
- Planned sources:
 - SAP LoB applications
 - 3rd party (non-SAP)
 - Databricks
 - HANA



Transform Data

Scope

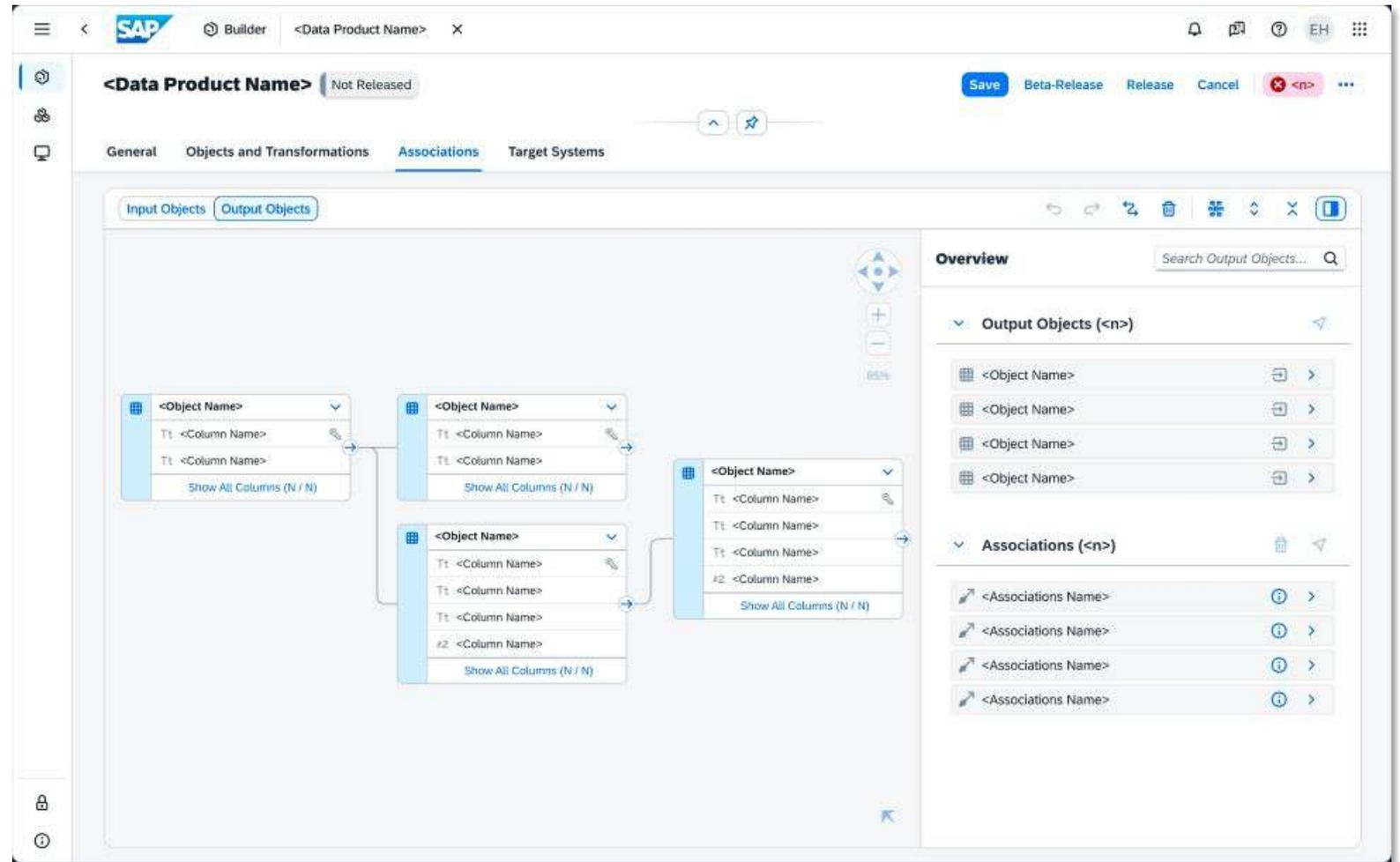
- The Data Product developer can leverage:
 - **Data Unification Service** – to Map, Transform, and Match data in a rule-based approach working towards a target structure
 - **Transformation tooling** – creating transformation and refinements of data towards target structure leveraging SQL via script or graphical tooling
- Modelling canvas provides an overview of all objects, operators and the resulting data product entities
- Operators hide the complexity of advanced workflows and coding



Associate Data Product Entities

Scope

- Associate data product entities
- Modell and manage entity relationships
- Learn how input objects relate to each other



Learn more.

- Check out the product page on [SAP Products | Business Data Cloud](#)
- Get started with the [Learning Journey](#)
- Experience Business Data Cloud by taking the [Product tour](#)
- Read more about the [key features here](#)
- Online Documentation on [SAP Help](#)

Find more information – Internal Assets & Documentation

Read more about Data Product [How To Guide](#)

Learn more about Data product [Technology Guidelines](#)

Discover more details on the [Data product planning](#)

Check out S/4 HANA [delivered and planned Data Products](#)

Explore Intelligent applications [Design Guidelines](#)

Discover the Intelligent Applications [Templates](#)

Check out the BDC&I [Development Page](#) for a variety of additional documentation on Data Product and Intelligent applications

