



# SAP BW/4HANA 2.0 – Overview & Roadmap

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Session ID #82491

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# Key Outcomes/Objectives

1. The difference between BW/4HANA 1.0 and BW/4HANA 2.0
2. Supported conversion options
3. The further Roadmap

# Agenda

Introduction and the evolution of SAP BW

SAP BW/4HANA 2.0 Web Administration Cockpit

BW Modeling Tools in Eclipse with SAP BW/4HANA 2.0

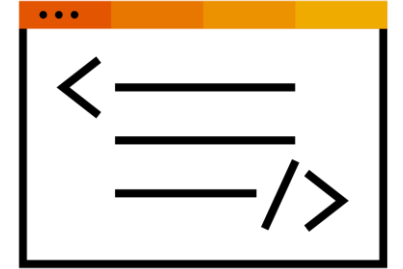
Data Integration with SAP BW/4HANA 2.0

Analytic Engine in SAP BW/4HANA 2.0 and SAP Analytics Cloud Integration

Data Protection Management in SAP BW/4HANA 2.0

Conversion

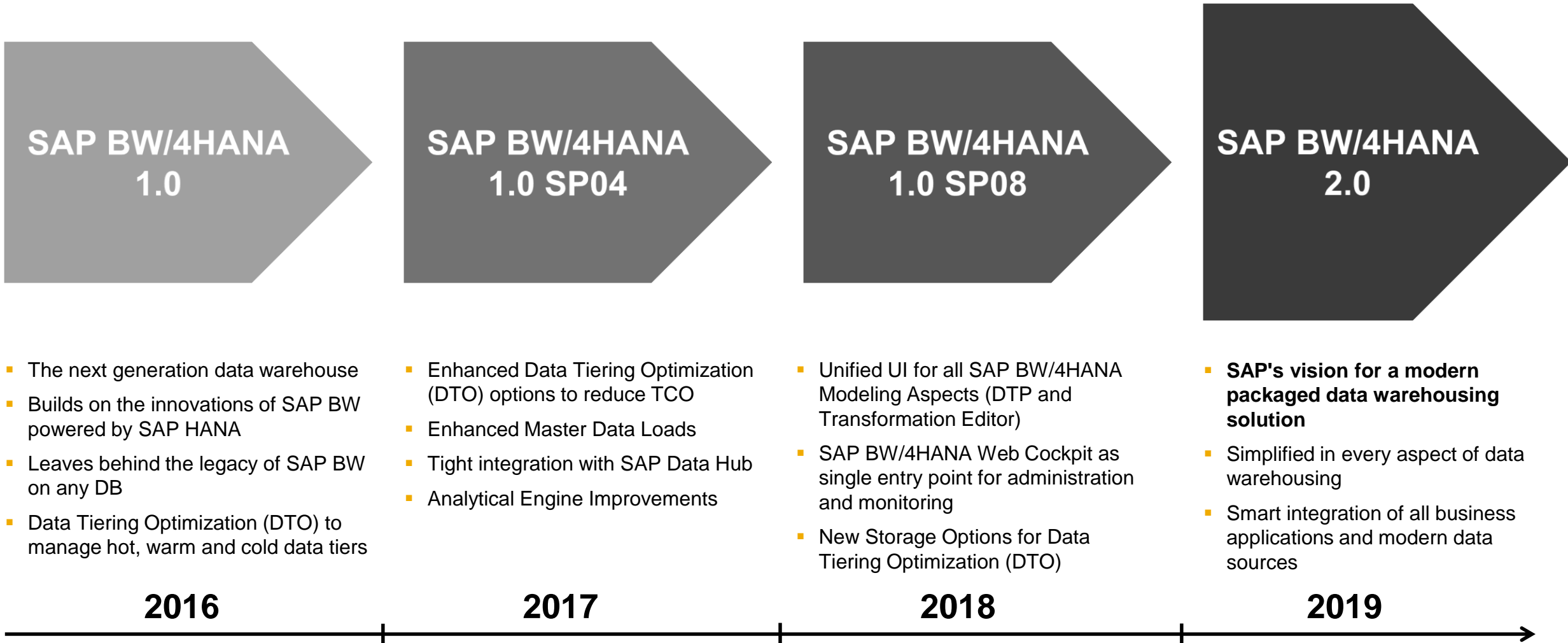
SAP BW/4HANA Roadmap



# Introduction and the evolution of SAP BW



# SAP BW/4HANA – The Evolution From SAP BW/4HANA 1.0 to 2.0

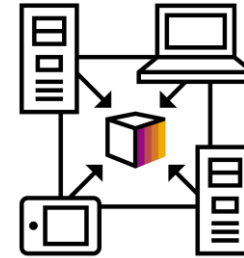


# SAP BW/4HANA 2.0 – Mission Statement

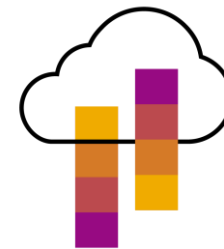
## SAP BW/4HANA 2.0 is...

- SAP's vision for a modern packaged data warehousing solution
- highly optimized for SAP HANA
- simplifying every aspect of data warehousing
- capitalizing on all business applications and modern data sources via smart integration
- driving innovation with a unified data platform

modern data warehousing



## SAP BW/4HANA 2.0 Key Values

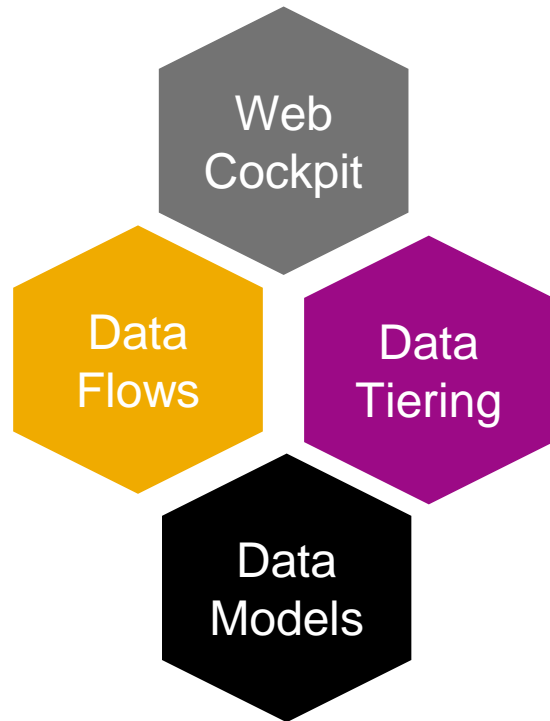


cloud ready

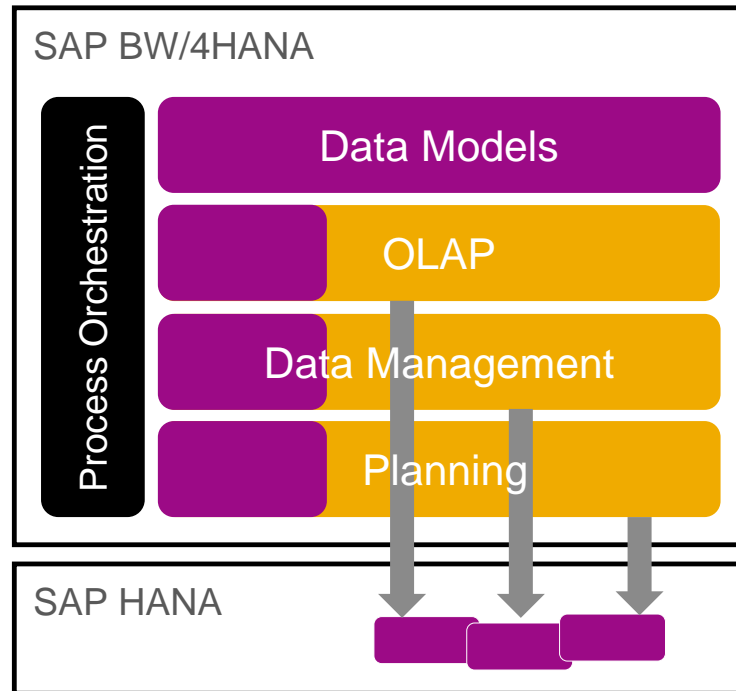


business agility

# SAP BW/4HANA 2.0 – Simplify the provisioning of timely business insights



Transform data practices to gain efficiency and agility



Deploy live immediate insights at scale



Amazon Web Services  
Google Cloud Platform  
Microsoft Azure

Get up and running quickly and easily in the cloud



# SAP BW/4HANA 2.0

## Web Cockpit



# Modern UI: SAP BW/4HANA Web Cockpit

## Overview

- Following SAP Fiori design patterns
- Single point of entry for administration tasks in SAP BW/4HANA
- Unified user experience
- Extensible for own applications and groups
- Modifiable for user context and authorizations

## SAP BW/4HANA Web Cockpit

The screenshot displays the SAP BW/4HANA Web Cockpit interface. The top navigation bar includes 'Home' and search, help, and menu icons. The main content area is organized into several sections:

- My Home:** Contains five tiles: 'Process Chain Editor' (490 process chains), 'Process Variant Editor' (625 process variants), 'Analysis Authorization Editor' (44 analysis authorizations), 'Operating System Monitor', and 'SAP HANA Remote Subscriptions'.
- Monitoring:** Contains eight tiles: 'Process Chains View dashboard', 'Process Chains View latest status' (351 process chains), 'Process Chain Runs View runs' (8,97 k process chain runs), 'Processes View last 48 hours' (7 open processes), 'Remodeling Requests View requests' (29 requests in process), 'Operational Data Provisioning Monitor Queues', 'Data Volume Statistics Dashboard', and 'Data Selection Statistics Dashboard'.
- Data Management:** Contains five tiles: 'DataStore Objects Manage requests' (2,611 DataStore objects), 'InfoObjects Manage requests' (2,103 InfoObjects), 'External SAP HANA Views Manage views' (415 generated views), 'Data Tiering Summary View objects' (2,60 k tiering-enabled objects), and 'Data Tiering Maintenance Manage partitions' (3,72 k partitions).
- Data Protection and Privacy:** Contains two tiles: 'Data Protection Worklists Process worklists' (70 open worklists) and 'Data Protection Notifications View notifications' (101 k new notifications).

On the right side, there are four notification cards, each indicating a completed job or request with details like ID, status, and completion time.

# Modern UI: SAP BW/4HANA Web Cockpit

## New Features Overview

- Simplified Search
- Personalization, Subscription & Notifications
- Enhanced Master Data Maintenance
- Data Volume & Data Selection Statistics
- Execute and Schedule Remodeling Requests
- Data Tiering Summary & Maintenance (partition management)
- Data Protection Management (Worklist & Notifications)
- Analysis Authorization Editor
- External SAP Hana View Management
- Enhanced Process Chain Maintenance (InfoArea)
- Direct File Upload to Data Store Objects

## SAP BW/4HANA Web Cockpit

The screenshot displays the SAP BW/4HANA Web Cockpit interface. The top navigation bar includes 'My Home', 'Modeling', 'Monitoring', 'Data Management', and 'Data Protection and Privacy'. The main content area is organized into several sections:

- Modeling:** Includes widgets for 'ZQM Model Process Chains' (482 process chains), 'ZStandard' (610 process variants), 'Analysis Authorization Editor' (43 analysis authorizations), 'Operating System Monitor', and 'SAP HANA Remote Subscriptions'.
- Monitoring:** Includes widgets for 'Process Chains' (346 process chains), 'Process Chain Runs' (7,36 k process chain runs), 'Remodeling Requests' (27 requests in process), 'Data Volume Statistics' (2,33 k), and 'Data Selection Statistics' (3,31 k).
- Data Management:** Includes widgets for 'DataStore Objects' (2,334 DataStore objects), 'InfoObjects' (2,049 InfoObjects), 'External SAP HANA Views' (397 generated views), 'Data Tiering Summary' (2,33 k tiering-enabled objects), and 'Data Tiering Maintenance' (3,31 k partitions).
- Data Protection and Privacy:** Includes widgets for 'Data Protection Worklists' (62 open worklists) and 'Data Protection Notifications' (101 k new notifications).

On the right side, there is a notification panel with several 'A request completed' and 'A job is completed' messages, each with a timestamp and a close button.

# Modern UI: ABAP CDS Views for SAP BW/4HANA Statistics

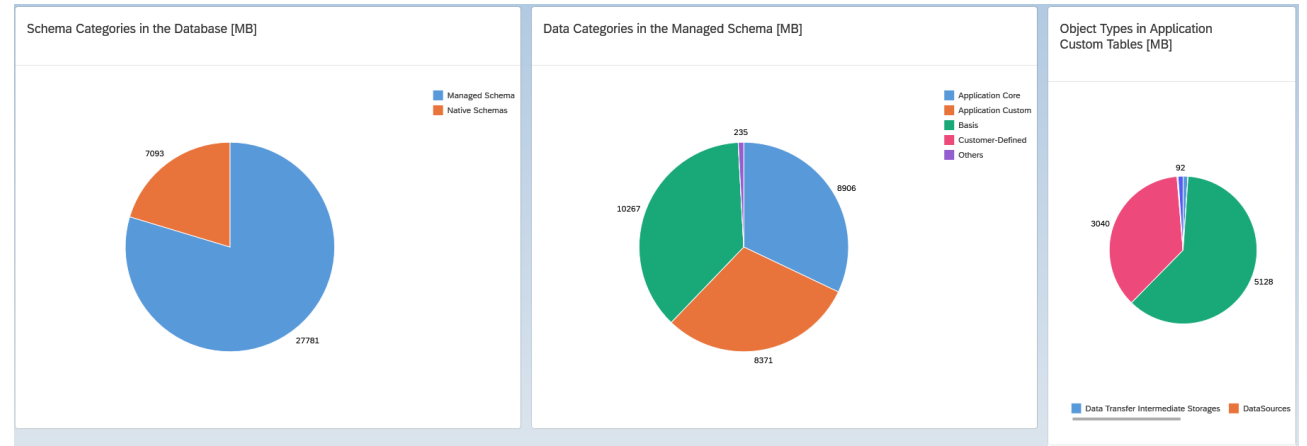
## Feature Description

- SAP BW/4HANA application statistics available as ABAP CDS Views
- New Content to replace former Technical Content for:
  - Current query performance
  - Process Chain and Data Transfer Process
  - Data Volume Statistics & Data Store Object Request
- Delivered with SAP BW/4HANA 2.0:
  - Data Volume History statistics
  - Data Selection statistics
  - Extraction/Staging support for statistics data

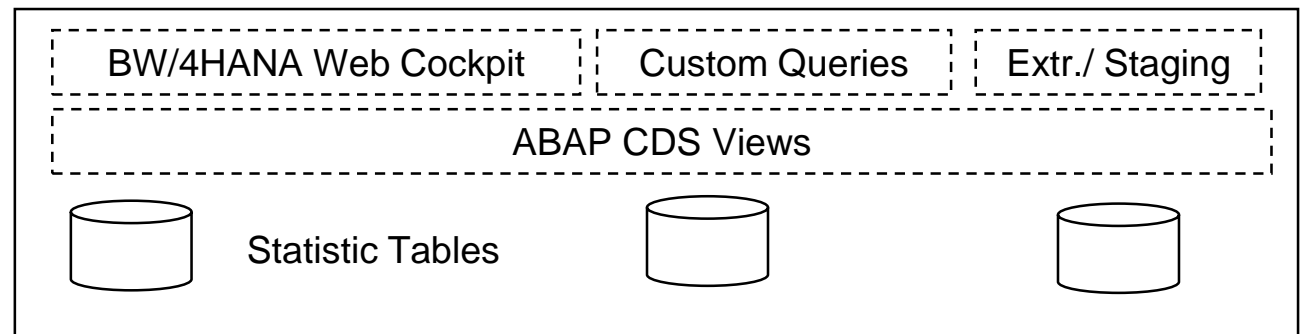
## Benefits

- Out of the box access to SAP BW/4HANA application statistics
- Web UI accessible from multiple devices
- Configurable to build custom monitoring

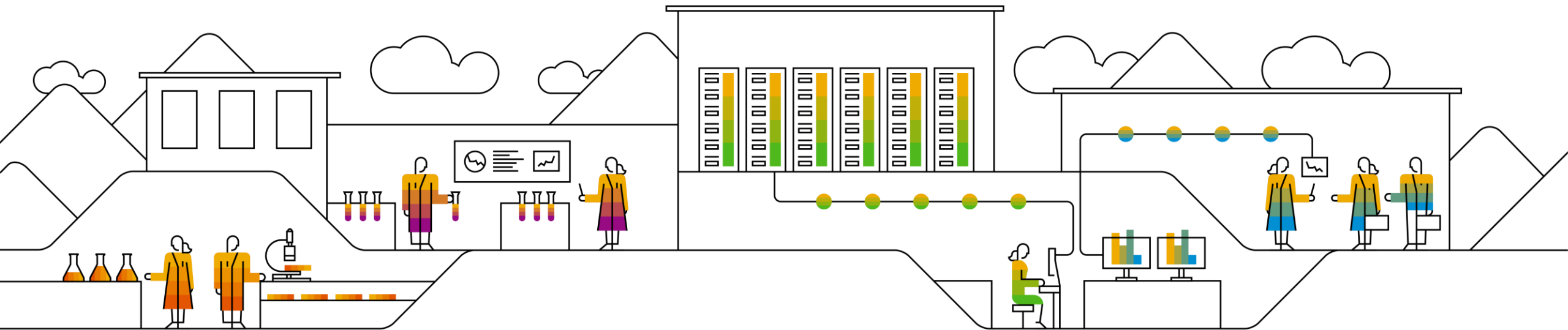
## Statistics



Data Volume Statistics Dashboard in the SAP BW/4HANA Web Cockpit



# BW Modeling Tools in Eclipse with SAP BW/4HANA 2.0



# Modern UI: BW/4HANA Modeling Tools in Eclipse

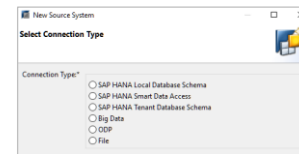
Delivered Eclipse Editors in SAP BW/4HANA

## Overview

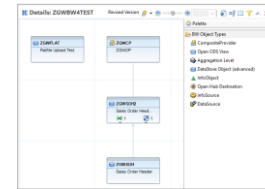
- Unified UI for all BW/4HANA Modeling
- Single point of entry for modeling tasks in SAP BW/4HANA
- SAP GUI no longer required for modeling tools

## Benefits

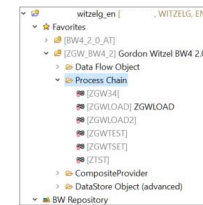
- Reduced efforts and easy to use
- Faster time to value



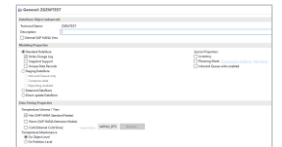
Source System



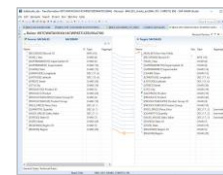
Data Flow Object



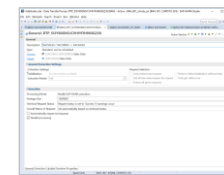
Process Chain Integration



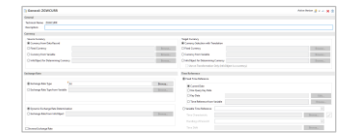
DataStore Object (optimized editor)



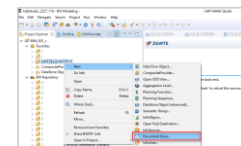
Transformation



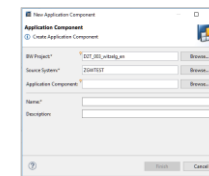
Data Transfer Process (DTP)



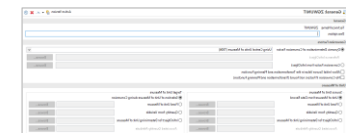
Currency Translation Type



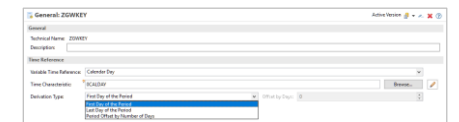
Document Store



Application Component



Unit Conversion Type



Key Date Derivation Type

SAP BW/4HANA 1.0

SAP BW/4HANA 2.0

# Modern UI: BW Modeling Tools in Eclipse

## New Features Overview

- Enhanced Data Flow Copy (more than one copy, definition on object level)
- DataFlow: Display of HANA View(s) in CompositeProvider
- Optimized Data Store Object Editor
- Data Store Object remodeling in Eclipse and execution in SAP BW/4HANA Web Cockpit
- Data Tiering Optimization – cold store connection configurable on object level
- Simplified Search
- New Editors: Currency Translation Type, Unit Conversion Type and Key Date Derivation
- HDI consumption
- Asynchronous object activation – editor is not blocked during activation
- Process Chain Integration

## SAP BW/4HANA Modeling Tools

The screenshot displays the 'General: ZGWFLAT' editor window. At the top, a yellow message bar states: 'Remodeling is pending. DataStore object is not activated. Please run remodeling.' Below this, the 'DataStore Object (advanced)' section shows the technical name 'ZGWFLAT' and description 'Flatfile Upload Test'. The 'Modeling Properties' section has 'Standard DataStore Object' selected, with 'Write Change Log' checked. The 'Data Tiering Properties' section shows 'Cold (External Cold Store)' selected, with a 'Browse...' button next to the 'SAPHDP' connection. The 'Special Properties' section has 'Write Interface-Enabled' checked. In the bottom right, a search window is open, showing a list of object types including 'ADSO [DataStore Object (advanced)]'.

# Modern UI: New DataStore Object Remodeling Capabilities

## Feature Description

- New option in DSO editor -> Remodeling
- Enables new modeling approaches (start agile and move to more guided data models EDW vs. DataMart)
- Available on Field or InfoObject selection in the Fields Tree
- Remodeling options:
  - Replace by InfoObject
  - Replace by Field
  - Fill with Value of InfoObject (must exist in current ADSO)
  - Fill with Value of Field (must exist in current ADSO)
  - Filled by Constant Value

## Benefits

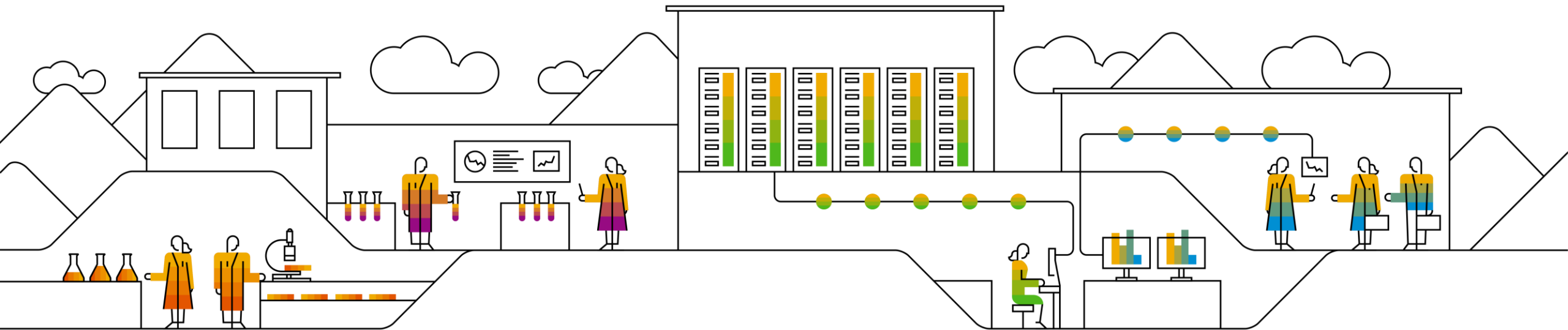
- Flexibility to enhance/change data models without reloading
- Low remodeling effort and easy to use
- Higher Productivity

## DataStore Object Remodeling

The screenshot displays the SAP DataStore Object Remodeling interface. The main window shows the 'Details: ZGWSOH2' configuration for a field named 'PRODUCTID'. The 'Fields' tree on the left lists various fields, with '[PRODUCTID] PRODUCTID' highlighted. The 'Remodeling' button in the 'Fields' tree is highlighted with a red box. The 'Field Remodeling' dialog box is open, showing options for remodeling the field: 'Replace by InfoObject' (selected), 'Replace by Field', 'Fill with Value of InfoObject', 'Fill with Value of field', and 'Filled by Constant Value'. The dialog also includes a 'Browse...' button for selecting an InfoObject and 'OK', 'Cancel', and 'Reset' buttons at the bottom.



# Data Integration with **SAP BW/4HANA 2.0**



# Openness: Data Integration SAP BW/4HANA 2.0

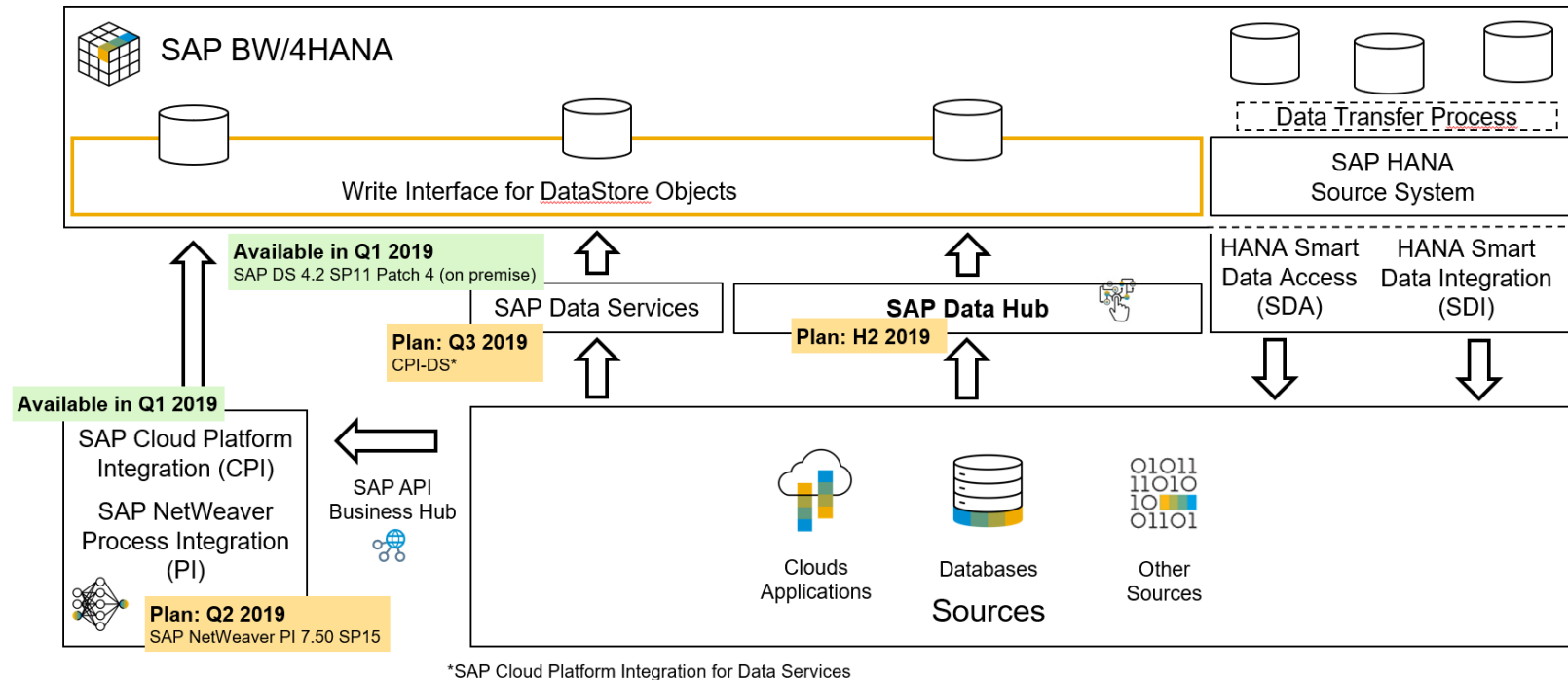
## Feature Description

- New DataStore Object setting “Write Interface Enabled” to write directly into Inbound Queue
- Support for Standard- and Staging DataStore Objects
- Integration for:
  - SAP Data Services
  - SAP Cloud Platform Integration (CPI)
  - SAP NetWeaver PI (planned for Q2/2019)
  - SAP Data Hub Integration (planned for H2/2019)
- Successor for SAP Web Service and SAP Data Services Source System (manual conversion)
- No open support for ETL partners

## Benefits

- Cost savings
- Simplification

## Data Integration Scenarios

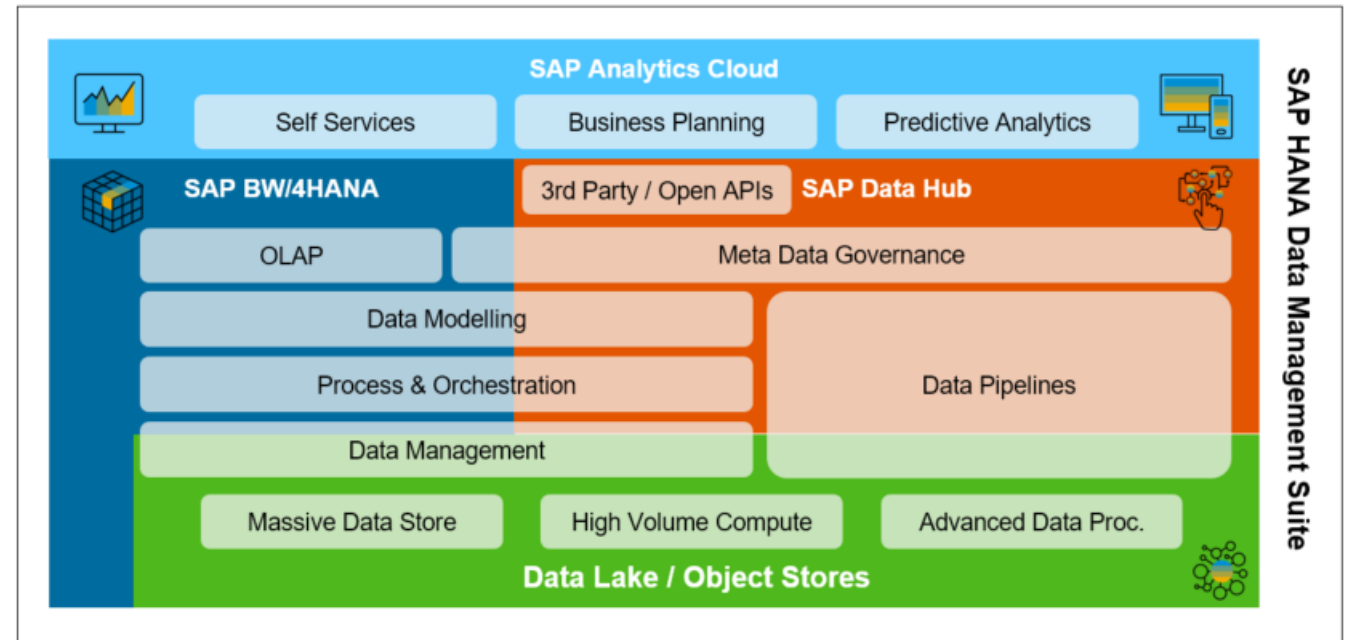


# Openness: Data Integration SAP BW/4HANA 2.0 and SAP Data Hub

## Feature Description

- Process Orchestration
  - **Execute new SAP Data Hub 2.x Pipelines and Workflows from SAP BW/4HANA\***
  - Execute SAP BW (>= 7.4) and SAP BW/4HANA Process Chains from SAP Data Hub Workflows
- Data Management
  - **Direct write to Data Store Objects from SAP Data Hub pipelines\***
  - Direct read from InfoProviders & Queries into SAP Data Hub Pipelines
  - BW Data Transfer Operator in SAP Data Hub
  - Big Data Source System in SAP BW/4HANA (SAP Vora and Spark)
  - Open Hub in SAP BW 7.50 and SAP BW/4HANA to Hadoop File System (HDFS)
- Meta Data Governance
  - Connect SAP BW and SAP BW/4HANA to the SAP Data Hub Meta Data Explorer

## SAP Data Hub Integration



S4  
HANA



\*New features in BW/4HANA 2.0 are **highlighted**

# Openness: Data Integration from SAP S/4HANA Cloud to SAP BW/4HANA 2.0

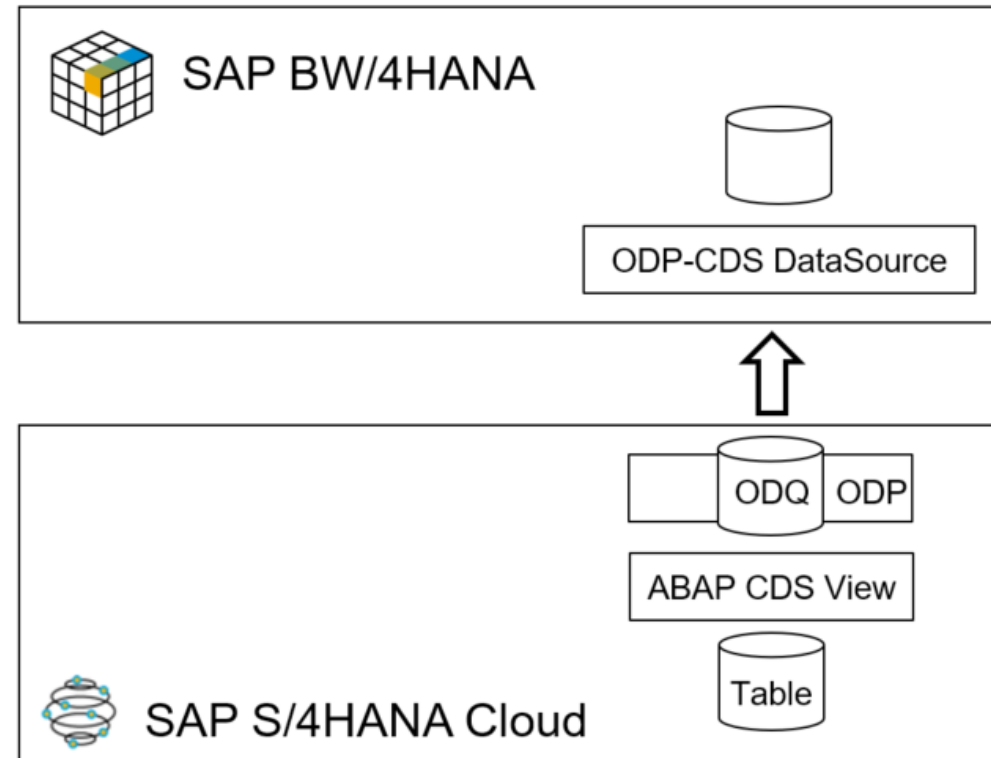
## Feature Description

- Technical framework and connectivity (HTTP / SOAP based) between SAP BW/4HANA and SAP S/4HANA Cloud (communication scenario)
- Application based ABAP CDS Content for extraction (e.g. financials, logistics, ...)
- Planned for SAP S/4HANA Cloud 1905
  - Status Quo: see [SAP Note 2674373](#)
  - [SAP Help Portal](#) for further information
- Easy to extend and support for custom ABAP CDS Views

## Benefits

- Cost savings
- Simplification

## SAP S/4HANA Cloud Integration



**Customer availability planned for  
S/4HANA Cloud in 2019**

# Openness: SQL View for Look-ups on DataStore Objects

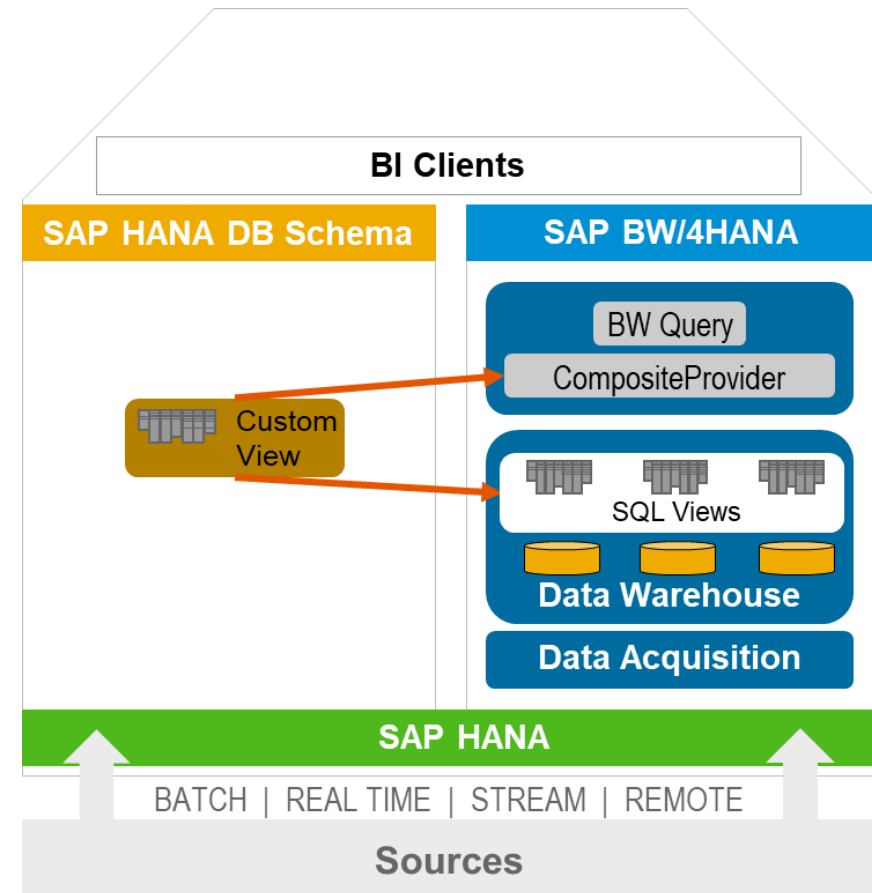
## Feature Description

- SAP BW/4HANA 2.0 creates an External SAP HANA SQL View on ADSOs
  - Exposes only fields/InfoObjects of the ADSO, no join with text, master data
  - Also includes fields considered not reporting-relevant
  - AMOUNT fields included in internal and external format (i.e. with and without decimal shift)
  - Covers all ADSO partitions – hot, warm and cold
  - Automatically created for all ADSOs, no user maintenance required (/<Namespace>/A<adsonm>8)
  - More information available in [SAP Note 2723506](#)

## Benefits

- Provides Access for Lookups, JOINS, etc. in SQL Transformations or for SAP HANA native access
- Enhanced support for mixed scenarios

## DataStore Object Look-up SQL View



# Analytic Engine and SAP Analytics Cloud Integration in **SAP BW/4HANA 2.0**



# High Performance: Analytic Engine\*

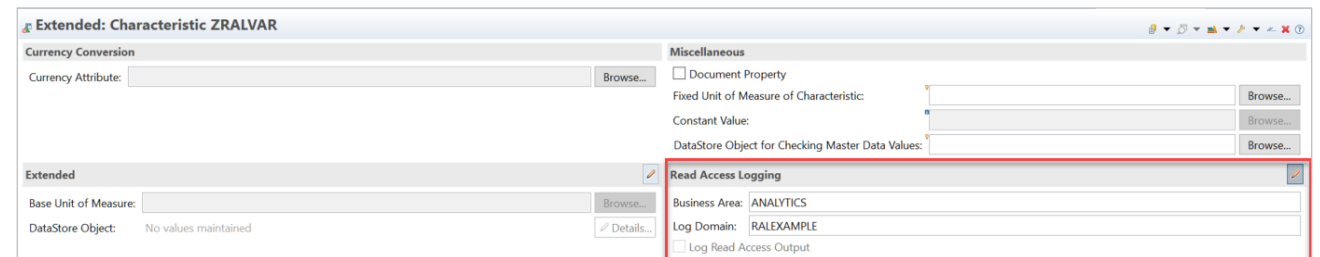
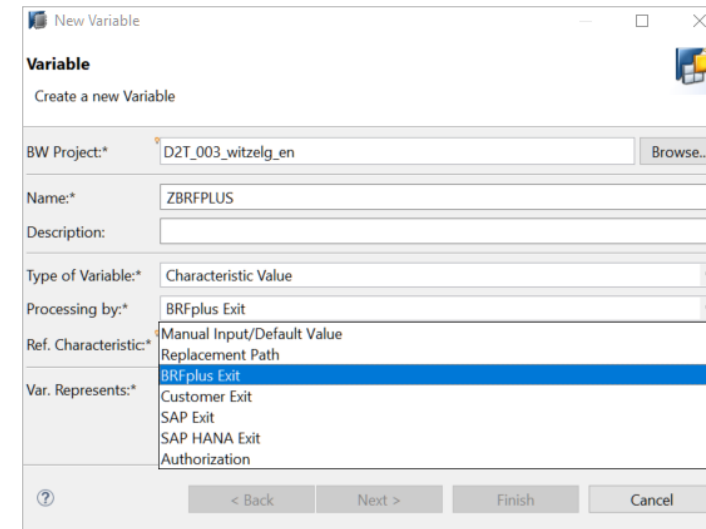
## New Features

- Conditions calculated in SAP HANA (push-down)
  - TopN, BottomN, LessThan, GreaterThan, NotBetween, ...
- RSEADMIN (maintain analytic authorization) in SAP BW/HANA Web Cockpit
- Variable Type BRF+ (used for customer defined validations, derivations and calculations)
- Read Access Logging (RAL) integration for advanced auditing
- Custom Exception Aggregation and IF Operator for Analysis Office and SAC
- SAP Analytics Cloud Adoption through SAP BW Live Connection including new Chart Support

## Benefits

- Provides Access for Lookups, JOINS, etc. in SQL Transformations or for SAP HANA native access
- Enhanced support for mixed scenarios

## Analytic Engine



\* [A blog for detailed information is available](#)

# Simplicity: New Chart Types for SAP Analytics Cloud on SAP BW/4HANA

## Feature Description

- Support for additional chart types with SAC Live connection
  - Waterfall Chart
  - Geospatial
  - Time Series
  - Variance Chart
  - Linked Analysis with more than one dimension
  - Conditions
  - Tuple Filter

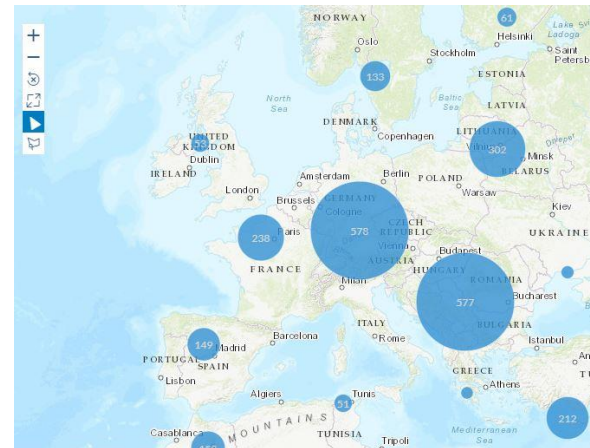
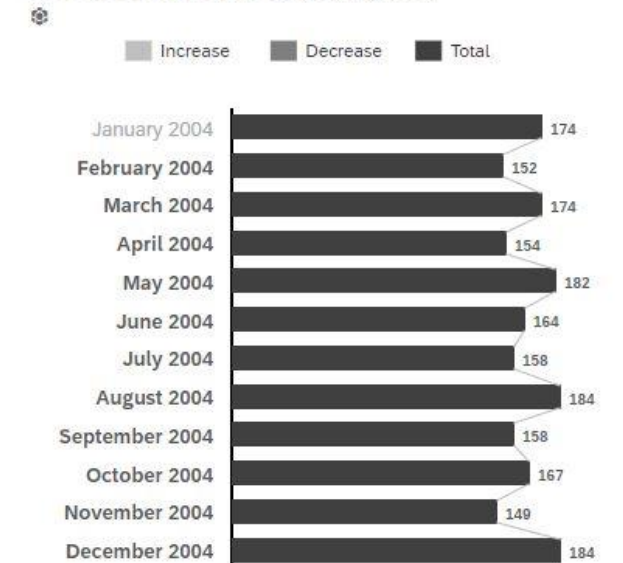
## Benefits

- New visualization capabilities

## New SAP Analytics Cloud Chart Types



OBC\_COUNT per Fiscal year / period





# Data Protection Management in SAP BW/4HANA 2.0



# Data Protection & Privacy: Data Protection Workbench - Motivation

## Situation today

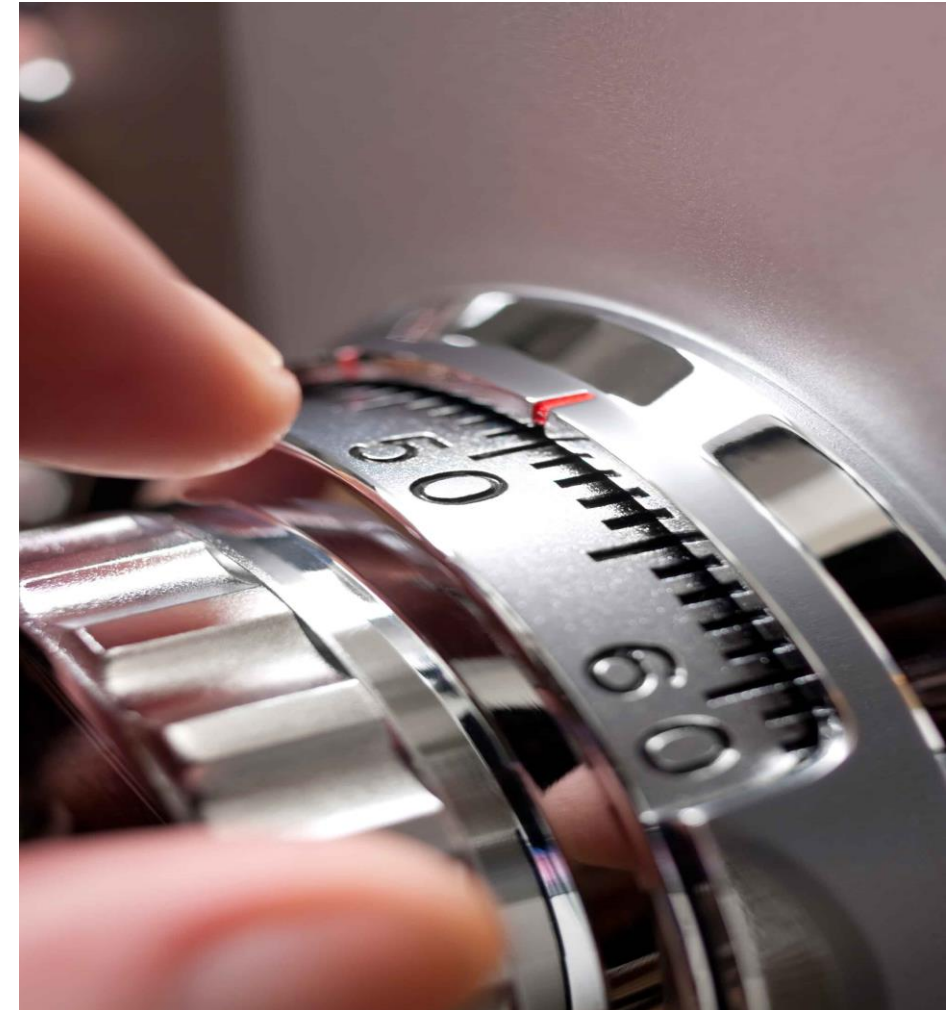
- Personal data is increasingly protected by laws (e.g. [EU GDPR](#))
- SAP BW/4HANA offers capabilities for Data Protection & Privacy support (see [security guide SAP BW/4HANA](#))
- Generic deletion capabilities in SAP BW/4HANA are independent of Business Suite handling
- SAP ILM ensures retention management in operational systems and is used to support data protection & privacy compliance

## Challenge

- Improved support and tight integration of SAP BW/4HANA with SAP ILM to delete replicated personal data in SAP BW/HANA after the end of purpose of the data.

## Approach

- SAP ILM notification framework allows to persist notifications of deleted (personal) data during ILM processes
- Replicate notifications from SAP ILM to SAP BW/4HANA
- Data Protection Workbench supports:
  - Identify InfoProviders containing sensible data
  - Selective deletion of corresponding transactional- and master data records



# Data Protection & Privacy: Data Protection Workbench - Process

## Feature Description

### SAP ILM

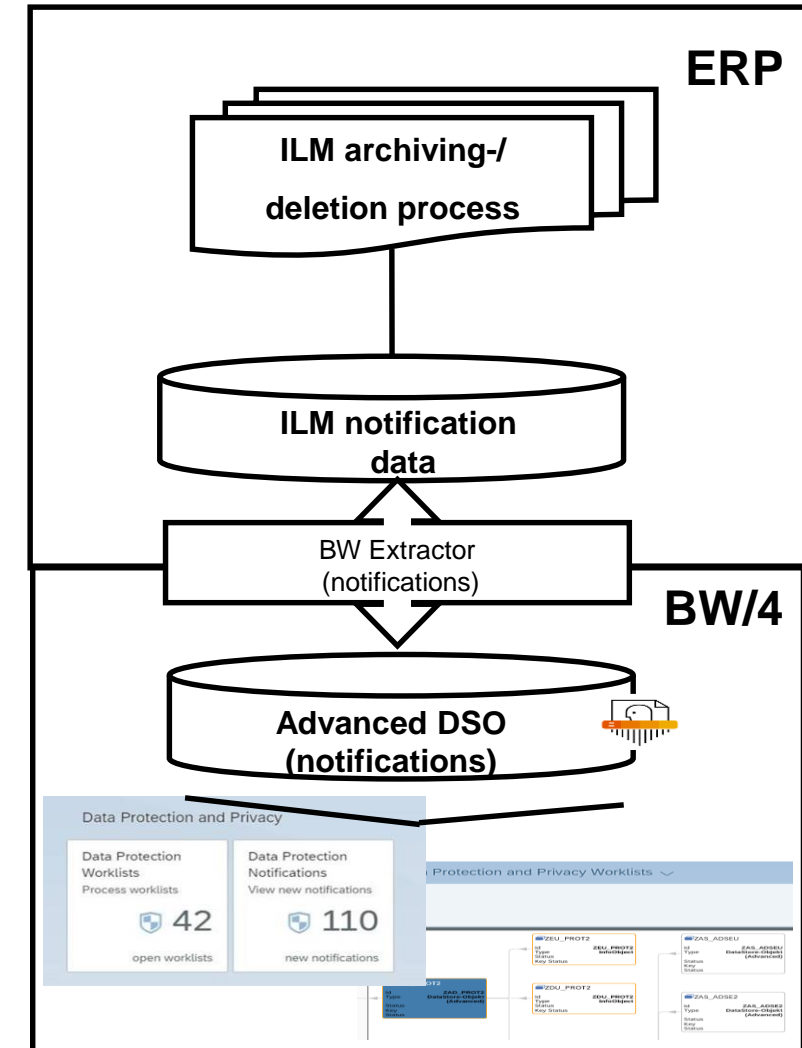
- SAP ILM persists events during SAP ILM processes (e.g. deletion of personal data)
- Mapping of SAP ILM object (e.g. ‚Sales Order‘) to SAP BW/4HANA DataSource allows identification of relevant data targets in SAP BW/4HANA

### Data Protection Workbench

- Persist notifications from SAP ILM into a SAP BW/4HANA Data Store Object
- Seamless integration into Fiori-based SAP BW/4HANA Web Cockpit
- Grouping of notifications into worklists according to subject matters to orchestrate the deletion process
- Identification of InfoProviders along a data flow containing the data to be deleted
- Documentation of worklist processing status (for legal auditing)

### Benefits

- Integrated solution to consistently delete replicated data from supported operational SAP source systems to reduce administration effort
- Modern UI seamlessly integrated in SAP BW/4HANA Web Cockpit



# SAP BW/4HANA Conversion options



# SAP BW/4HANA Conversion

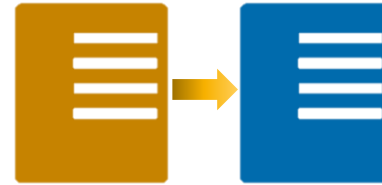
SAP BW/4HANA



SAP BW

## In-Place Conversion

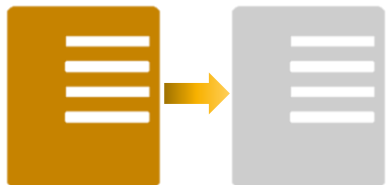
- Full system conversion of an existing SAP BW installation (keep same SID)
- Step-by-step in-place transfer of classic objects into their HANA-optimized counterparts
- Followed by a system conversion to SAP BW/4HANA
- Minimum start release:  
SAP BW 7.5 SP 5 powered by SAP HANA



SAP BW    SAP BW/4HANA

## Remote Conversion

- Start with SAP BW/4HANA as green field installation (new SID)
- Support of carve-out and consolidation scenarios
- Transport data models and remote data transfer (including Unicode conversion)
- Risk mitigation due to parallel system
- Minimum start release:  
SAP BW 7.3 or higher on any DB \*






SAP BW    SAP BW/4HANA

## Shell Conversion

- Similar to Remote Conversion but *without data transfer*
- Accelerate greenfield approach by transferring and converting data models and flows
- Minimum start release: SAP BW 7.0 or higher on any DB \*

# Availability Matrix

Last update: 2019-04-01

	SAP BW 7.0	7.01	7.02	7.3	7.31	7.4	7.5
Preparation (Checks, Operating Modes)	Released (General Availability)						
 In-Place Conversion							Released (General Availability)
 Remote Conversion				Released (General Availability)			
 Shell Conversion	Released (General Availability)						

Preparation:

Install via SAP BW Note Analyzer (SAP Note [2383530](#))

In-place + Shell Conversion:

Install via SAP BW Note Analyzer (SAP Note [2383530](#))

Remote Conversion:

Install via SAP BW Note Analyzer (SAP Note [2383530](#)) and DMIS Add-on (SAP Note [2513088](#))

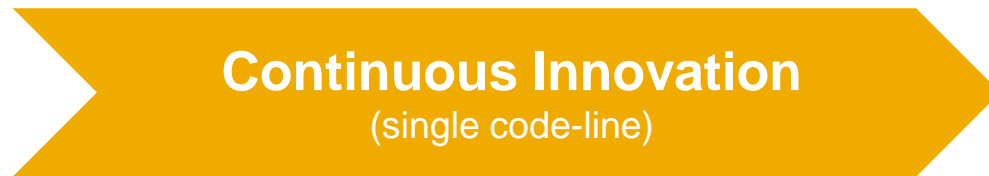
# SAP BW/4HANA Roadmap



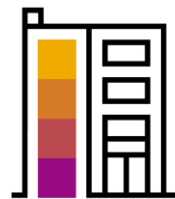
# One Code-line, Two Ways to Innovate



Data Warehouse as a Service  
featuring Project Blueberry  
(public cloud)



**Continuous Innovation**  
(single code-line)



**SAP BW/4HANA 2.0**  
(on-premise, private cloud)

## Initial Focus

- Highly Standardized
- Fiori Admin UIs
- Integrated with SAP Analytics Cloud, SAP Data Hub(aaS) and SAP HANA(aaS)

## Joint Focus

- Cloud connectivity
- Data modeling enhancements
- Data Privacy Workbench

## Continued Focus

- Integration with SAP Data Hub
- SQL + ML
- Large Systems



# SAP BW/4HANA Roadmap – Recent Innovations

Delivered in February 2019 – SAP BW/4HANA 2.0



## Simplicity

- DataStore Object write interface for SAP Data Services
- Data Protection Workbench
- Data Tiering Optimization (DTO)
  - Cold Store connection configurable on object level
  - Inventory ADSOs
  - Support for several external storage destinations



## Modern Interface

- SAP BW/4HANA Modeling Tools
  - Mass-modeling for objects in Data Flow and Semantic Groups
  - Planning tools (planning functions)
  - Data Flow Documentation Generation (HTML)
- Web-based Administration & Monitoring e.g. DTO temperature maintenance cockpit



## Openness

- Integration with SAP Data Hub
  - BW/4 Metadata integration enabling lineage/impact analysis
  - DataStore Object write interface for SAP Data Hub
- Integration with SAP Cloud Platform
  - Availability of SAP BW/4HANA APIs
- SQL View for Lookups on advanced DataStore Objects
- Integration with SAP Cloud Solutions via SAP Cloud Platform Integration (CPI)



## High Performance

- Further Push-down of OLAP Capabilities
  - Conditions (having, ranking, ...)
  - Dedicated performance optimization for SAC

# SAP BW/4HANA Roadmap – Planned Innovations

Planned for 2020 – SAP BW/4HANA 2.0



## Simplicity

- Data Tiering Optimization (DTO)
  - Updates to cold data (external storage)
- Data Protection Workbench
  - Automated processing
  - Processing of notifications from non-SAP Sources



## Openness

- Integration with SAP Data Hub
  - Common Meta Data Catalog & Repository
  - Streamlined Operations & Deployment
  - Simplified data integration & data volume management
- Integration with SAP Cloud Platform
  - Availability of CPI Source System in SAP BW/4HANA
- HDI support (View generation to HDI)



## Modern Interface

- SAP BW/4HANA Modeling Tools
  - Content Activation
  - Mass Processing (Activation, Deletion)
- Enhanced Web-based Administration & Monitoring



## High Performance

- Further Push-down of OLAP Capabilities
  - Current member
- SAP Analytics Cloud Integration & Advanced Analytics Environment

# SAP BW/4HANA Roadmap – Product Direction

2021 and Beyond



## Simplicity

- Data Tiering Optimization (DTO)
  - DTO automation – rules and statistics based
  - Further cloud storage options for cold data based on SAP Vora



## Modern Interface

- System Health Monitoring and Prediction
- Machine-learning Based DW Administration



## Openness

- Further integration with SAP Data Hub providing Big Data Warehouse architectures
  - Tight repository interoperability (common transports & improved impact analysis)
  - Seamless data exchange
- Open Hub Modernization



## High Performance

- Leveraging new SAP HANA engine capabilities for Analytics and Transformations
- Leveraging new HANA elasticity and scalability enhancements

# SAP BW/4HANA Roadmap – Product Vision

2022 and Beyond



## Simplicity

- Data Tiering Optimization (DTO)
  - Machine Learning based automation



## Openness

- Further integration with SAP Data Hub providing Big Data Warehouse architectures



## Modern Interface

- Continued System Health Monitoring and Prediction
- Continued Machine-learning Based DW Administration



## High Performance

- Leveraging new SAP HANA engine capabilities for Analytics and Transformations

# Roadmap for SAP BW/4HANA Transfer & Conversion Cockpits

## In-Place Conversion



### Previous Innovations (2017)

Customers can convert an existing system **running on SAP HANA**

Will be made available via notes for **SAP BW 7.5 SP 5 or higher**

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Legacy functionality gets transferred into HANA-optimized counterparts

Customer exits are scanned for incompatible usages

## Shared Features

## Remote Conversion



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Customers can convert systems on **SAP BW >= 7.0 on Any-DB**

Conversion projects will be driven by SAP Data Management & Landscape Transformation group

### Recent Innovations (2018)

Release of **SAP BW/4HANA Transfer Cockpit**

Collection of **statistic data**

More tool-based guidance

New **Shell Conversion** path

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Complete set of supported object types (Semantically Partitioned Objects, InfoSets, etc.)

Transfer of SAP BPC to **SAP BPC, version for SAP BW/4HANA** (see next slide)

Transfer of **standard authorizations**

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Transfer Near-line-Storage based on **SAP IQ / Hadoop**

Enhanced monitoring capabilities

Simplified guided process steps

### Product Direction (2019)

Focus on **stabilization and optimization** of tools

Redesign of **pre-check**

- Storage of check results
- New user interface for result display
- More detailed messages to allow customers a better effort and feasibility evaluation

Check and transfer tool for **Analysis Process Designer** (APD)

Support for **SEM-BCS** conversion

General release of **SAP BW/4HANA Conversion Cockpit** for customers and partners

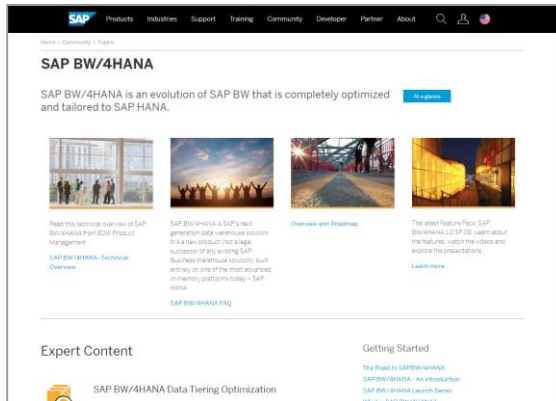
Troubleshooting functions



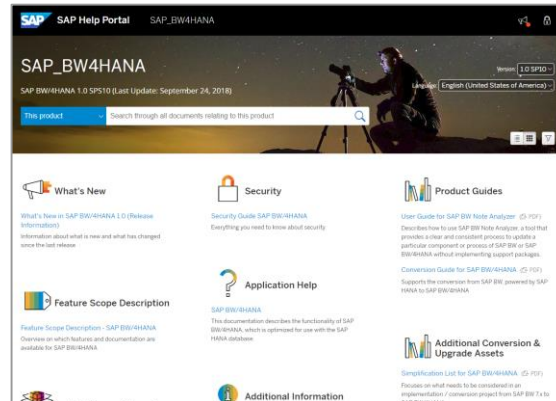
# SAP BW/4HANA



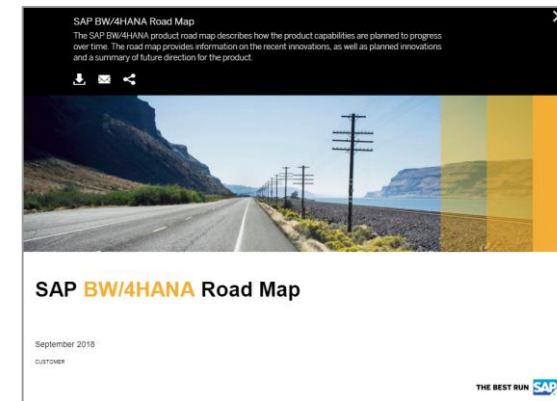
**Home Page**  
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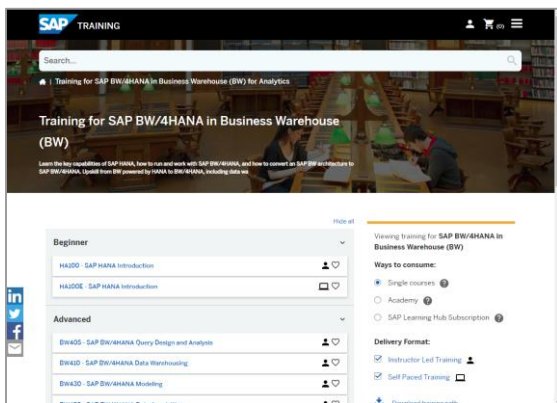
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<https://sap.com/bw4hana10>



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# Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>



# Q&A

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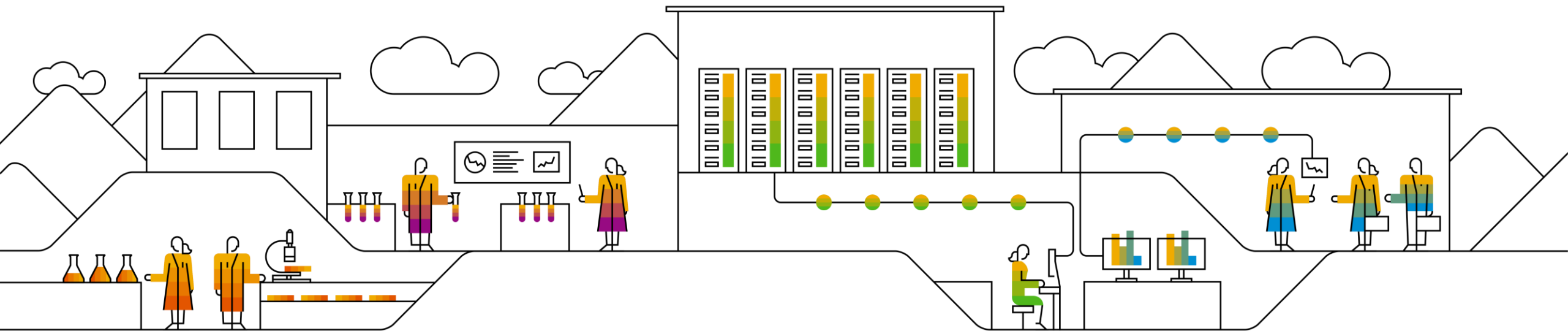
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