



Acceliance October 15th 2025

Choosing Data Vault for seamless SAP Integration



Business expectations



Customer situation

Both common software are used

- SAP ECC 6 Is used for accounting management.
- SAP Ariba, a Procure-to-Pay system, is connected to improve sourcing, supplier collaboration, and purchasing efficiency while providing greater visibility into procurement activities.

Procure to pay accounting rules and impacts

- 401 (PO supplier invoice received) accounts are transmitted as soon as possible to have a global situation and allows payments.
- 4456 accounts manage VAT amount.
- 6 (NPO out of purchase order) accounts, manage excluding VAT services and goods amounts for Non-Purchase orders process.
- 408 (PO supplier invoice not yet received) accounts manage excluding services and goods amounts for Purchase order process.

Stakes and objectives

As Procurement process is not yet deployed on all group entities, **the Spend Analysis** reporting can only be done directly on SAP ECC 6.

Data Organization of the entire accounting.

Expected Customer Benefits

Leverage accounting schemas for 401/408 & 6 class (not in Ariba) accounts, whole only available in ECC

Accelerate Spend reporting (don't wait for process or incoming documents, real-time financial situation & decision making)

Main data rules to manage



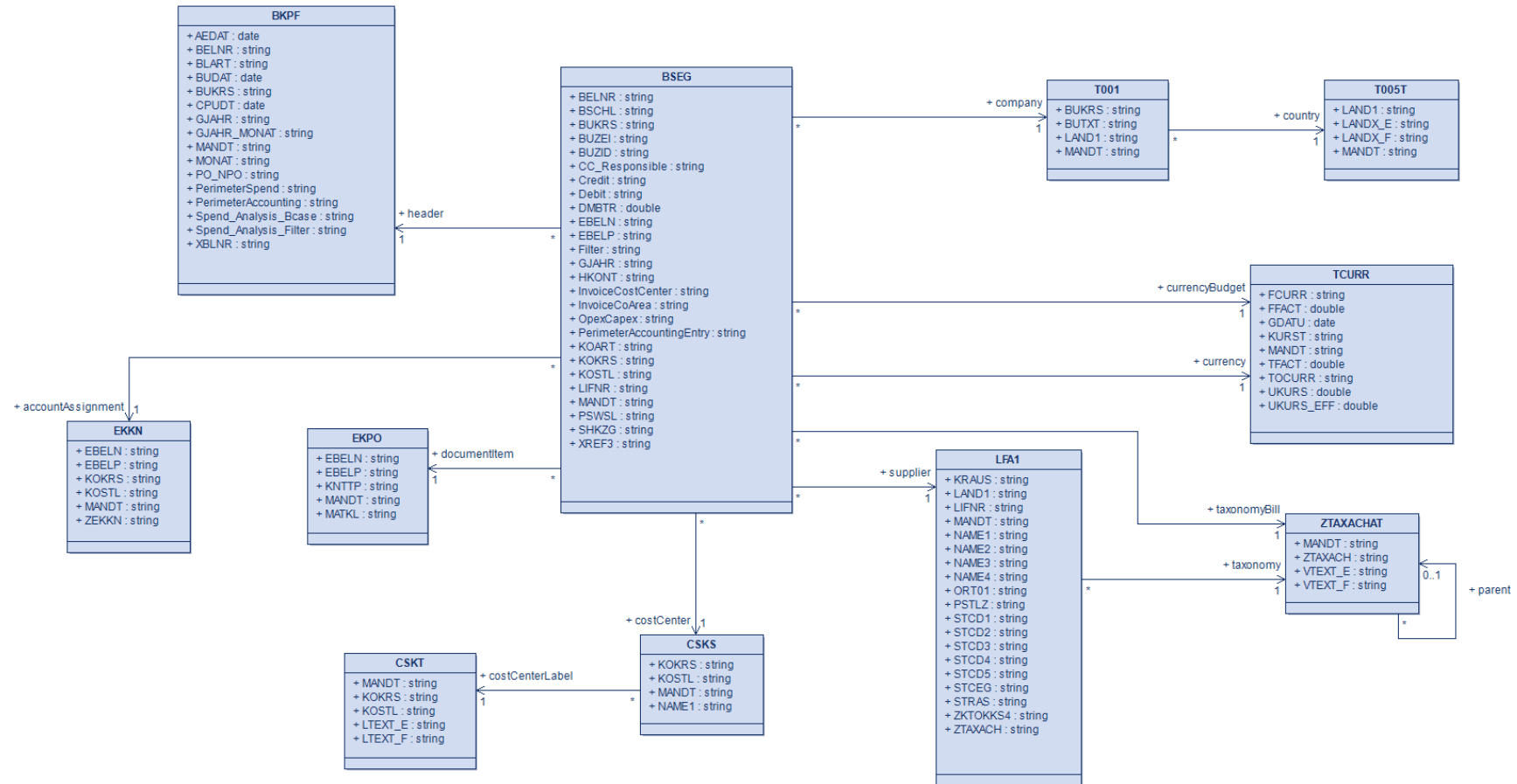
Data reshaping

- **Texts** and **language** transformation.
- **Hierarchy** organization (purchase taxonomy).
- **Exchange** organization and time management.

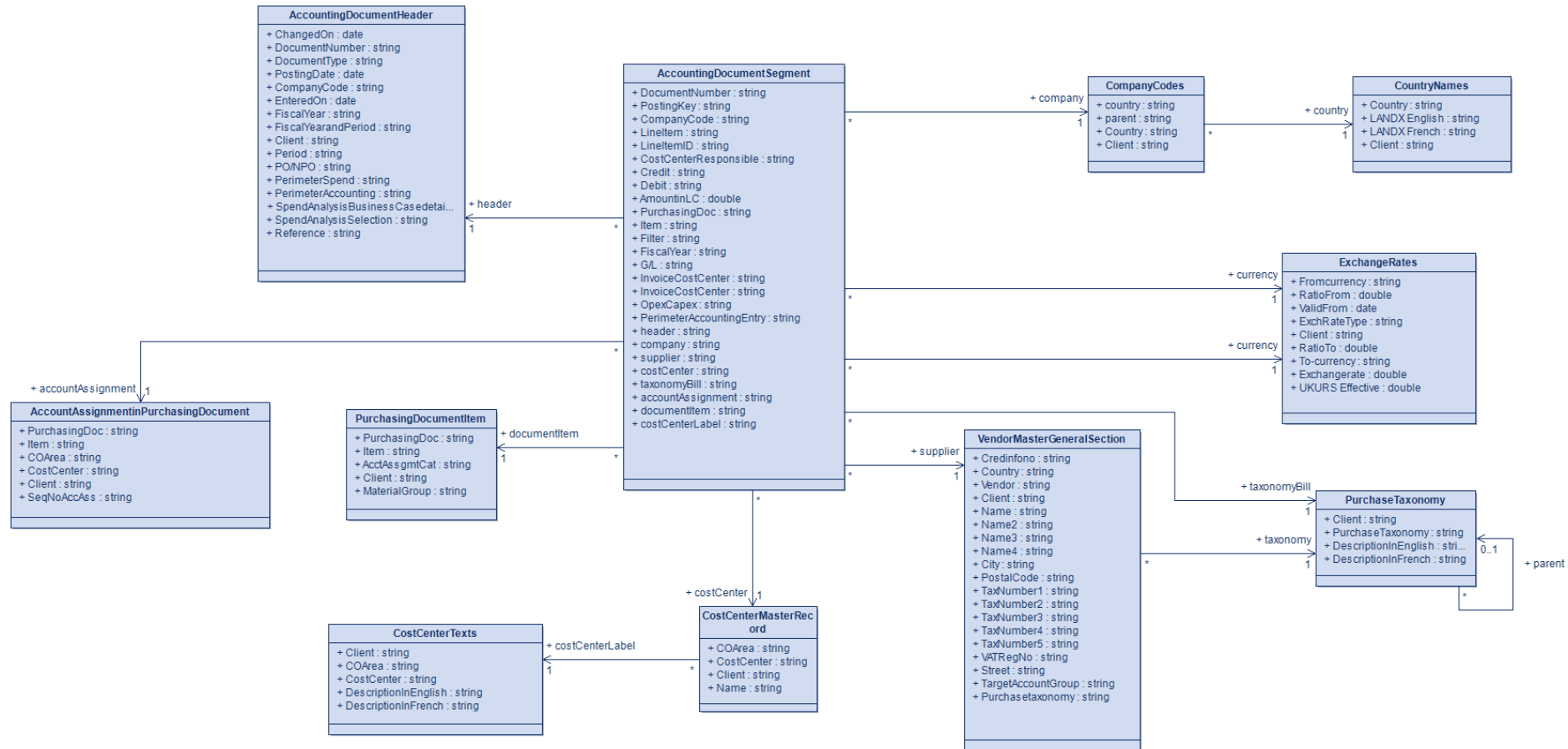
Accounting identification

- Supplier, spend analysis and ledger **perimeter** are defined by tag system.
- Reshaping **supplier codification** from the 401 account to the 408 or 6 accounts.
- Depending on the sourcing process PO or NPO, the **cost center** is not defined by the same structure.
- **Opex / Capex** definition
- Other accounting SAP rules.

The SAP Model

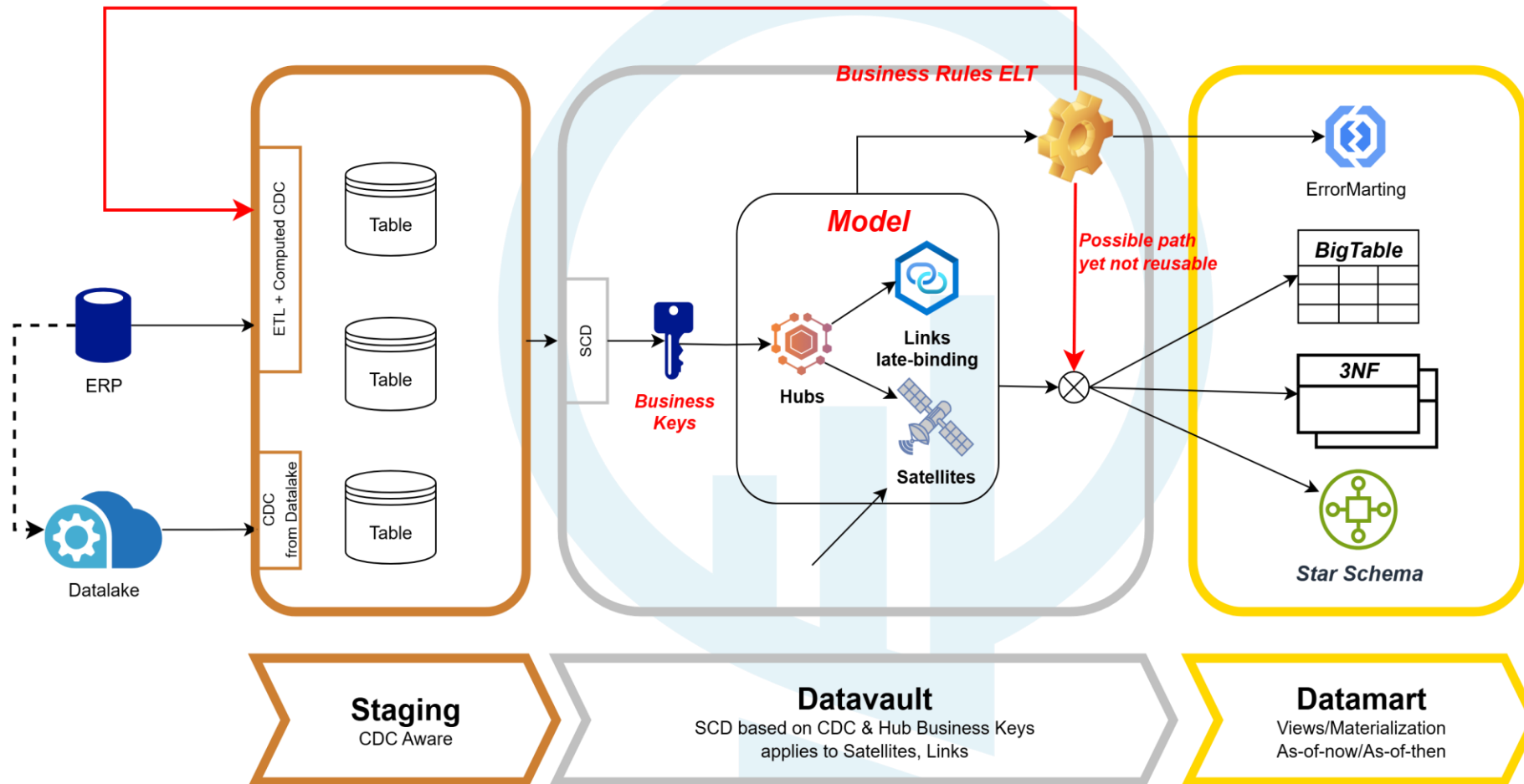


The Functional Model



Functional Architecture

*Because Business Value is not Single-Use
(Relations & Columns)*



Datavault First-Class Functional Architecture, Acceliance



Functional Architecture – Key Elements

3-zone Bronze, Silver & Gold Medallion architecture

Pipeline Cinematic clearly pathed

- No risk of chaotic stretching

Business Rules

- Centralized & auditable knowledge
- Recycled

Incremental Architecture

- Multi-source
- Perimeter extensions

Model-Centric

- Support for knowledge

Late binding relationships and decoupling of the Model

Historization

Technical adjustments ETL

- Some technical adjustments
- Datavault
- Examples
 - ZTAXACHAT table languages badly organized
 - The TCURR.GDATU column is malformed in the source
- Some ones possible in Datavault Builder
 - ZTAXACHAT can be ETLized
 - TCURR.GDATU must be handled by ingestion platform



Possible technical adjustments

Edit Table: Sh Ztaxachat

BASE COLUMNS DETAILS DATA CATALOG REVIEW

Source Schema

Default Schema [default_schema]

Source Table

sh_Ztaxachat [sh_Ztaxachat]

 Execute custom source query to retrieve available columns? EXECUTE 

```
1 SELECT
2   ztaxachat_e.mandt
3   case
4     when ztaxachat_e.stufe = '1' then null
5     when ztaxachat_e.stufe = '2' then SUBSTRING ( ztaxachat_e.ztaxach, 1, 3 )
6     when ztaxachat_e.stufe = '3' then SUBSTRING ( ztaxachat_e.ztaxach, 1, 5 )
7   end as Ztaxach_Parent, -- here extract ztaxach as parent to recreate hierachy in reportings
8   ztaxachat_e.vtext
9   ztaxachat_e.vtext as VTEXT_E, -- here rotate EN Language text from line to column to accomodate as dimensions for reporting
10  ztaxachat_f.vtext as VTEXT_F, -- here rotate FR Language
11  ztaxachat_e.DAT_LOAD
12 FROM "sh_Ztaxachat" ztaxachat_e
13 join "sh_Ztaxachat" ztaxachat_f
14   on ztaxachat_e.ZTAXACH = ztaxachat_f.ZTAXACH
15   and ztaxachat_e.spras = 'E' and ZTAXACHAT_F.spras = 'F'
16 where ztaxachat_e.spras = 'E'
```

Available columns: 10

ID	Name	Comment	Source Data Type	Staging Data Type
_dvb_source_index	_dvb_source_index		INTEGER	integer
Stufe	Stufe		TEXT	text
Spras	Spras		TEXT	text

Selected Columns: 6

ID	Name	Comment	Source Data Type
Mandt	Mandt		TEXT
Ztaxach	Ztaxach		TEXT
Ztaxach_Parent	Ztaxach_Parent		text



Datalake (fed with SAP ODATA) & Historization

- Datalake
- Bringing the historization in the Datavault

Edit Table: Sh Ztaxachat

BASE COLUMNS DETAILS DATA CATALOG REVIEW

Source Schema: Default Schema [default_schema] Source Table: sh_Ztaxachat [sh_Ztaxachat]

Execute custom source query to retrieve available columns? EXECUTE X

```
1 SELECT
2   ztaxachat_e.mandt,
3   case
4     when ztaxachat_e.stufe = '1' then null
5     when ztaxachat_e.stufe = '2' then SUBSTRING ( ztaxachat_e.ztaxach, 1, 3 )
6     when ztaxachat_e.stufe = '3' then SUBSTRING ( ztaxachat_e.ztaxach, 1, 5 )
7   end as Ztaxach_Parent, -- here extract ztaxach as parent to recreate hierarchy in reportings
8   ztaxachat_e.ZTAXACH,
9   ztaxachat_e.VTEXT as VTEXT_E, -- here rotate EN Language text from line to column to accomodate as dimensions for reporting
10  ztaxachat_f.vtext as VTEXT_F, -- here rotate FR Language
11  ztaxachat_e.DAT_LOAD
12 FROM "sh_Ztaxachat" ztaxachat_e
13 join "sh_Ztaxachat" ztaxachat_f
14   on ztaxachat_e.ZTAXACH = ztaxachat_f.ZTAXACH
15  and ztaxachat_e.sprax = 'E' and ZTAXACHAT_F.sprax = 'F'
16 where ztaxachat_e.sprax = 'E'
```

Available columns: 10

ID	Name	Comment	Source Data Type	Staging Data Type
_dwb_source_index	_dwb_source_index		INTEGER	integer
Stufe	Stufe		TEXT	text
Sprax	Sprax		TEXT	text
Vtext	Vtext		TEXT	text
Filename	Filename		TEXT	text
File Created Datetime	File Created Datetime		TIMESTAMP	timestamp

Selected Columns: 6

ID	Name	Comment	Source Data Type
Mandt	Mandt		TEXT
Ztaxach	Ztaxach		TEXT
Ztaxach_Parent	Ztaxach_Parent		text
VTEXT_E	VTEXT_E		text
VTEXT_F	VTEXT_F		text
DAT_LOAD	cdc_inscription_time		TIMESTAMP



Business Keys

- Late binding relationships
 - Decoupled from Modeling
- Stored in the HUB

Business Key

Mandt, Bukrs, Belnr, Gjahr, Buzei



Feeding the Satellites



From the Staging area



Named Raw Datavault

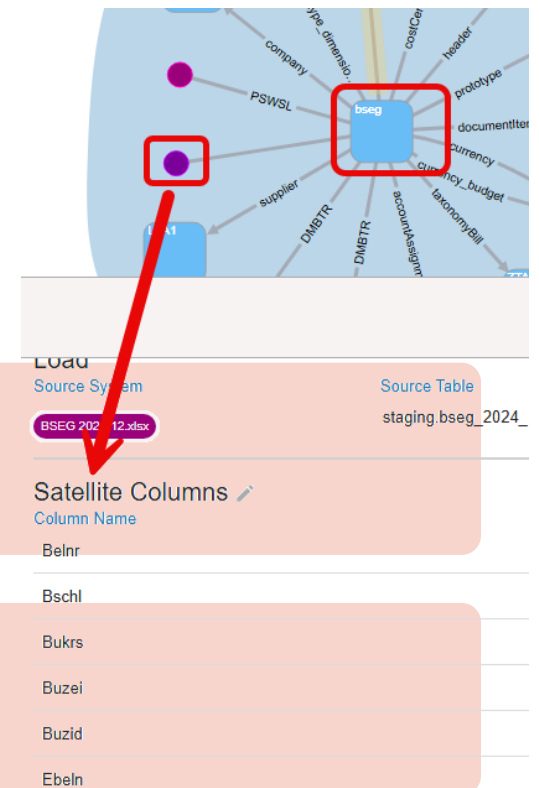


Mapping by configuration

Possible renaming
Possible type change

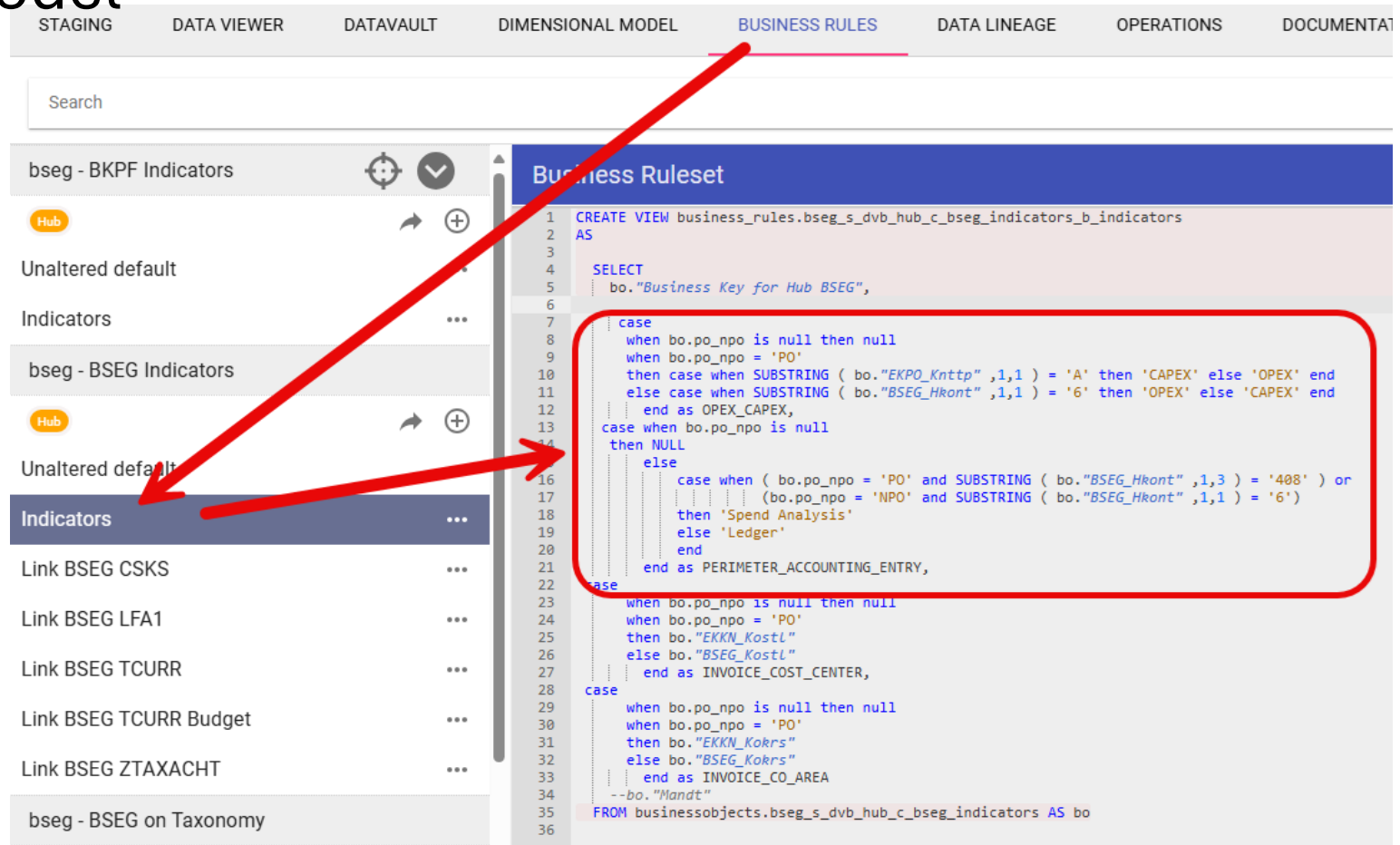


No Business Value



Business Rules

- Carries the Business Value (talk later slide)
- Decoupling from the Model



The screenshot displays the SAP Business Ruleset configuration interface. The top navigation bar includes tabs for STAGING, DATA VIEWER, DATAVAULT, DIMENSIONAL MODEL, BUSINESS RULES (selected), DATA LINEAGE, OPERATIONS, and DOCUMENTATION. A search bar is located below the navigation bar. The left sidebar shows a tree structure with 'bseg - BKPF Indicators' and 'bseg - BSEG Indicators' expanded. Under 'bseg - BSEG Indicators', the 'Indicators' sub-item is selected. The main area on the right shows the 'Business Ruleset' configuration, which includes a SQL query for creating a view named 'business_rules.bseg_s_dvb_hub_c_bseg_indicators_b_indicators'. The query is as follows:

```
1 CREATE VIEW business_rules.bseg_s_dvb_hub_c_bseg_indicators_b_indicators
2 AS
3
4 SELECT
5     bo."Business Key for Hub BSEG",
6
7     case
8         when bo.po_npo is null then null
9         when bo.po_npo = 'PO'
10            then case when SUBSTRING ( bo."EKPO_Knttp" ,1,1 ) = 'A' then 'CAPEX' else 'OPEX' end
11            else case when SUBSTRING ( bo."BSEG_Hkont" ,1,1 ) = '6' then 'OPEX' else 'CAPEX' end
12            end as OPEX_CAPEX,
13     case when bo.po_npo is null
14        then NULL
15        else
16            case when ( bo.po_npo = 'PO' and SUBSTRING ( bo."BSEG_Hkont" ,1,3 ) = '408' ) or
17                  ( bo.po_npo = 'NPO' and SUBSTRING ( bo."BSEG_Hkont" ,1,1 ) = '6' )
18            then 'Spend Analysis'
19            else 'Ledger'
20            end
21        end as PERIMETER_ACCOUNTING_ENTRY,
22
23     case
24         when bo.po_npo is null then null
25         when bo.po_npo = 'PO'
26            then bo."EKKN_Kostl"
27            else bo."BSEG_Kostl"
28            end as INVOICE_COST_CENTER,
29
30     case
31         when bo.po_npo is null then null
32         when bo.po_npo = 'PO'
33            then bo."EKKN_Kokrs"
34            else bo."BSEG_Kokrs"
35            end as INVOICE_CO_AREA
36     --bo."Mandt"
37 FROM businessobjects.bseg_s_dvb_hub_c_bseg_indicators AS bo
```

Red arrows highlight the 'Indicators' sub-item in the left sidebar and the SQL query in the main area.



Recycling Business Rules

STAGING	DATA VIEWER	DATAVAULT	DIMENSIONAL MODEL	BUSINESS RULES	DATA LINEAGE	OPERATIONS	DOCUMENTATION	DEPLOYMENT
Search ADD SOURCE								
Source Table			Source Schema		Staging Table			
BSEG Indicators bseg_indicators								
Bseg S Dvb Hub C Bseg Indicators B Indicators			Business_Rules		Bseg S Dvb Hub C Bseg Indicators B Indicators [bseg_indicators_r_bseg_dvb_hub_bseg_indicators_indicators]			
Bseg S Dvb Hub C Bseg Indicators B Link Bseg Csk			Business_Rules		Bseg S Dvb Hub C Bseg Indicators B Link Bseg Csk [bseg_indicators_r_bseg_dvb_hub_bseg_indicators_link_bseg_csk]			

Source Table				
bseg > Hub > BSEG Indicators > Indicators [bseg_s_dvb_hub_c_bseg_indicators_b_indicators]				
Selected Columns: 5				
ID	Name	Comment	Source Data Type	Staging Data Type
Business Key for Hub B...			text	text
opex_capex	opex_capex		text	text
perimeter_accounting_e...	perimeter_accounting_e...		text	text
invoice_cost_center	invoice_cost_center		text	text
invoice_co_area	invoice_co_area		text	text

STAGING DATA VIEWER **DATAVAULT** DIMENSIONAL MODEL BUSINESS RULES

PERSISTENT STAGING RAW VAULT **BUSINESS VAULT** ALL

Hub: bseg [h_bseg]

BKPF 2024-12.xlsx BKPF Indicators BSEG 2024-12.xlsx BSEG Indicators CSKS Full.xlsx EKKN Multi.xlsx

Load

Source System Source Table

BSEG Indicators staging.bseg_indicators_r_bseg_dvb_hub_bseg_indicators_in

Satellite Columns ✎

Column Name Or

opex_capex

perimeter_accounting_entry



Datavault Links in late binding

- Link Rebuilding
- Chaotic Source

The screenshot displays the SAP Data Warehouse Cloud interface, specifically the **BUSINESS RULES** tab. The left sidebar shows a list of data objects, including **bseg - BKPF Indicators** and **bseg - BSEG Indicators**. Under **bseg - BSEG Indicators**, the **Link BSEG CSKS** option is selected. The main panel shows the **Business Ruleset** configuration for this link. The SQL query is as follows:

```
CREATE VIEW business_rules.bseg_s_dvb_hub_c_bseg_indicators_b_lin
AS
SELECT
  bo."Business Key for Hub BSEG",
  bo2."Business Key for Hub CSKS"
FROM businessobjects.bseg_s_dvb_hub_c_bseg_indicators AS bo
join business_rules.csks_s_dvb_hub_c_cost_center_ref bo2
on bo2."Kokrs" = case
  when bo.po_npo is null then null
  when bo.po_npo = 'PO'
  then bo."EKKN_Kokrs"
  else bo."BSEG_Kokrs"
end
and bo2."Kostl" = case
  when bo.po_npo is null then null
  when bo.po_npo = 'PO'
  then bo."EKKN_Kostl"
  else bo."BSEG_Kostl"
end
```

Below the query, a table displays the mapping of business keys for the Hub BSEG and Hub CSKS:

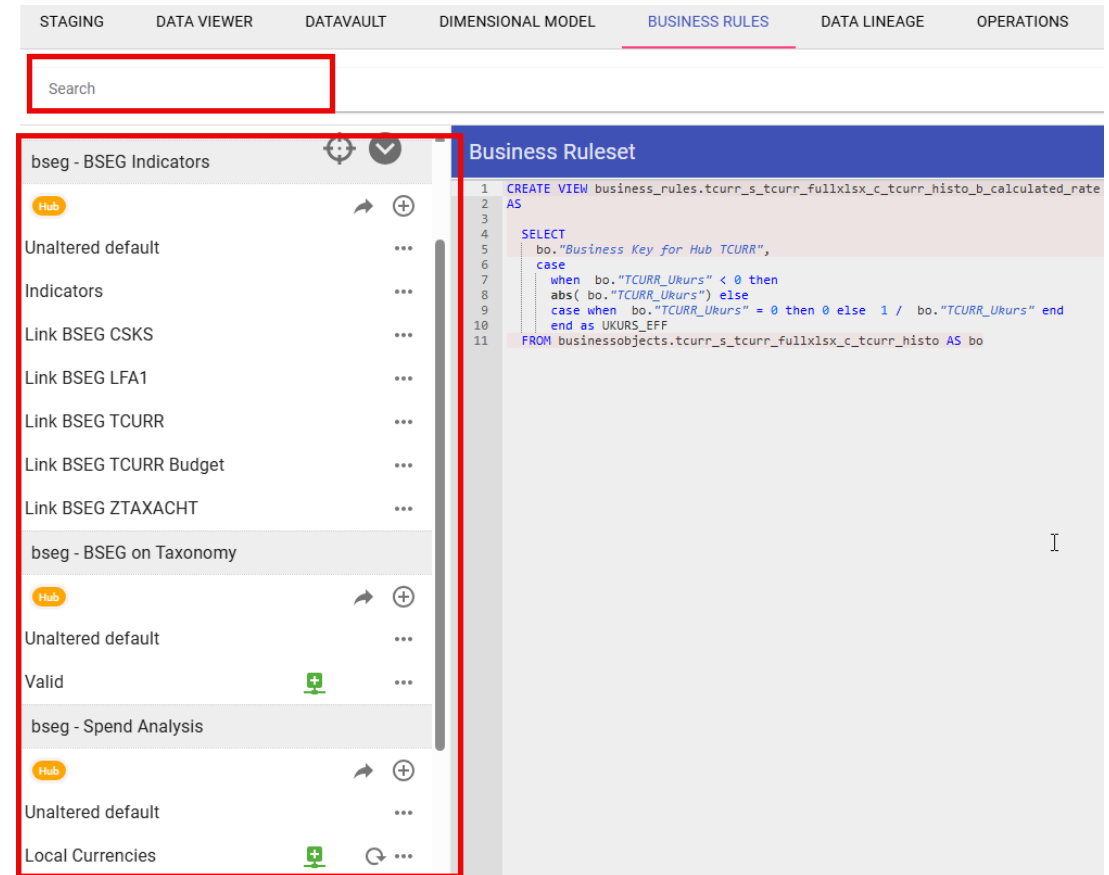
Business Key for Hub BSEG	Business Key for Hub CSKS
100*ā*�*ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*ā*�*ߨ*	100*&#DVL*�
100*ā**ߨ*	100*&#DVL*�

Red arrows indicate the flow from the **Link BSEG CSKS** selection in the sidebar to the **Business Ruleset** configuration and the resulting data table.



Business Rules & Centralization of Knowledge

- Pipeline organized in a predictable and standardized manner
- Rules available in one place
- Rules not buried in the middle of scripting code



The screenshot displays a software interface for managing business rules. At the top, a navigation bar includes tabs for STAGING, DATA VIEWER, DATAVAULT, DIMENSIONAL MODEL, BUSINESS RULES (which is highlighted), DATA LINEAGE, and OPERATIONS. Below the navigation bar is a search bar. The main area is divided into two panels. The left panel, titled 'bseg - BSEG Indicators', contains a list of rules with icons for 'Hub', 'Unaltered default', and 'Valid'. The right panel, titled 'Business Ruleset', shows a SQL query editor with the following code:

```
1 CREATE VIEW business_rules.tcurr_s_tcurr_fullx1sx_c_tcurr_histo_b_calculated_rate
2 AS
3
4 SELECT
5   bo."Business Key for Hub TCURR",
6   case
7     when bo."TCURR_Ukurs" < 0 then
8       abs( bo."TCURR_Ukurs") else
9       case when bo."TCURR_Ukurs" = 0 then 0 else 1 / bo."TCURR_Ukurs" end
10    end as UKURS_EFF
11 FROM businessobjects.tcurr_s_tcurr_fullx1sx_c_tcurr_histo AS bo
```



The Business expertise : Indicators for BSEG

Business Ruleset		AZ Business Key for Hub BSEG	AZ opex_capex	AZ perimeter_accounting_entry	AZ invoice_cost_center	AZ invoice_co_area
<pre>1 CREATE VIEW business_rules.bseg_s_dvb_hub_c_bseg_indicators_b_indicators 2 AS 3 (4 with requete AS(5 SELECT 6 bo."Business Key for Hub BSEG", 7 --bo.po_npo , -- po_npo from Satellite BKPF > BKPF Indicators > Default 8 --bo."EKPO_Knttp" , -- "Knttp" from Satellite EKPO > EKPO Multi.xlsx > Default 9 --bo."BSEG_Hkont" , -- "Hkont" from Satellite BSEG > BSEG 2024-12.xlsx > Default 10 --bo."EKKN_Kostl" , -- "Kostl" from Satellite EKKN > EKKN Multi.xlsx > Default 11 --bo."BSEG_Kokrs" , -- "Kostl" from Satellite BSEG > BSEG 2024-12.xlsx > Default 12 --bo."BSEG_Kokrs" , -- "Kokrs" from Satellite BSEG > BSEG 2024-12.xlsx > Default 13 --bo."EKKN_Kokrs" , -- "Kokrs" from Satellite EKKN > EKKN Multi.xlsx > Default 14 case 15 when bo.po_npo is null then null 16 when bo.po_npo = 'PO' 17 then case when SUBSTRING (bo."EKPO_Knttp" ,1,1) = 'A' then 'CAPEX' else 'OPEX' end 18 else case when SUBSTRING (bo."BSEG_Hkont" ,1,1) = '6' then 'OPEX' else 'CAPEX' end 19 end as OPEX_CAPEX, 20 case when bo.po_npo is null 21 then NULL 22 else 23 case when (bo.po_npo = 'PO' and SUBSTRING (bo."BSEG_Hkont" ,1,3) = '408') or 24 (bo.po_npo = 'NPO' and SUBSTRING (bo."BSEG_Hkont" ,1,1) = '6') 25 then 'Spend Analysis' 26 else 'Ledger' 27 end 28 end as PERIMETER_ACCOUNTING_ENTRY, 29 case 30 when bo.po_npo is null then null 31 when bo.po_npo = 'PO' 32 then bo."EKKN_Kostl" 33 else bo."BSEG_Kostl" 34 end as INVOICE_COST_CENTER, 35 case 36 when bo.po_npo is null then null 37 when bo.po_npo = 'PO' 38 then bo."EKKN_Kokrs" 39 else bo."BSEG_Kokrs" 40 end as INVOICE_CO_AREA 41 --bo."Mandt" 42 FROM businessobjects.bseg_s_dvb_hub_c_bseg_indicators AS bo 43) 44 select * from requete where INVOICE_CO_AREA is not null or INVOICE_COST_CENTER is not null or OPEX_CAPEX is not null or PERIMETER_ACCOUNTING_ENTRY is not null 45)</pre>		100*#119*#6006000087*#2024*#3	OPEX	Ledger	[NULL]	[NULL]
		100*#287*#6006000002*#2024*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#2	OPEX	Spend Analysis	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#3	CAPEX	Ledger	[NULL]	DVL
		14*#3	OPEX	Ledger	[NULL]	[NULL]
		14*#2	CAPEX	Spend Analysis	257003021	DVL
		14*#2	OPEX	Spend Analysis	119320000	DVL
		14*#2	CAPEX	Spend Analysis	119465670	DVL
		14*#2	OPEX	Spend Analysis	[NULL]	[NULL]
		14*#3	OPEX	Ledger	[NULL]	[NULL]
		14*#3	CAPEX	Ledger	[NULL]	DVL
		14*#2	CAPEX	Spend Analysis	257003021	DVL
		15*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Spend Analysis	257600010	DVL
		14*#1	CAPEX	Ledger	[NULL]	DVL
		14*#2	OPEX	Spend Analysis	119320000	DVL
		14*#2	OPEX	Spend Analysis	119320000	DVL
		14*#2	OPEX	Spend Analysis	[NULL]	[NULL]
		14*#2	CAPEX	Ledger	[NULL]	DVL
		14*#2	CAPEX	Ledger	[NULL]	DVL
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#3	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Spend Analysis	119320110	DVL
		14*#1	CAPEX	Ledger	[NULL]	DVL
		14*#1	CAPEX	Ledger	[NULL]	DVL
		14*#3	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		14*#3	OPEX	Ledger	[NULL]	[NULL]
		14*#1	OPEX	Ledger	[NULL]	[NULL]
		100*#119*#4*#2025*#2	OPEX	Spend Analysis	119321100	DVL
		100*#119*#6006000081*#2024*#2	OPEX	Spend Analysis	119320000	DVL
		100*#119*#6006000087*#2024*#2	OPEX	Spend Analysis	119320000	DVL
		100*#257*#6006000004*#2024*#3	OPEX	Ledger	[NULL]	[NULL]
		100*#119*#6006000084*#2024*#1	OPEX	Ledger	[NULL]	[NULL]



The Business expertise : Cost Center

Business Ruleset

```
1 CREATE VIEW business_rules.bseg_s_dvb_hub_c_bseg_indicators_b_link_bseg_csks
2 AS
3
4 SELECT
5     bo."Business Key for Hub BSEG",
6     bo2."Business Key for Hub CSKS"
7
8
9 FROM businessobjects.bseg_s_dvb_hub_c_bseg_indicators AS bo
10 join business_rules.csks_s_dvb_hub_c_cost_center_ref bo2
11 on bo2."Kokrs" = case
12     when bo.po_npo is null then null
13     when bo.po_npo = 'PO'
14     then bo."EKKN_Kokrs"
15     else bo."BSEG_Kokrs"
16     end
17 and bo2."Kostl" = case
18     when bo.po_npo is null then null
19     when bo.po_npo = 'PO'
20     then bo."EKKN_Kostl"
21     else bo."BSEG_Kostl"
22     end
23
24
```

AZ Business Key for Hub BSEG	AZ Business Key for Hub CSKS
100*ā*�*ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*ā*�*ߨ*	100*&#DVL*�
100*ā**ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*w**ߩ*	100*&#DVL*�
100*w**ߩ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
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100*ā**ߩ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*w*�*ߨ*	100*&#DVL*�
100*ā**ߨ*	100*&#DVL*�
100*ā**ߨ*	100*&#DVL*�



The Business expertise : Currency rate as bi-temporal

Business Ruleset

```
1 CREATE VIEW business_rules.bseg_s_dvb_hub_c_bseg_indicators_b_link_bseg_tcurr
2 AS
3
4 SELECT
5     bo."Business Key for Hub BSEG",
6     bo3."Business Key for Hub TCURR"
7 FROM businessobjects.bseg_s_dvb_hub_c_bseg_indicators bo
8 join
9 (
10     select bo2."TCURR_Fcurr", max(bo2."TCURR_Gdatu") AS datmax
11     FROM business_rules.tcurr_s_tcurr_fullxlsx_c_tcurr_histo bo2
12     WHERE bo2."TCURR_Kurst" = 'EURX'
13     AND bo2."TCURR_ToCurr" = 'EUR'
14     Group by bo2."TCURR_Fcurr"
15 ) thedat
16 on bo."BSEG_Pswsl" = thedat."TCURR_Fcurr"
17 and thedat.datmax <= bo."BKPF_Budat"
18 join business_rules.tcurr_s_tcurr_fullxlsx_c_tcurr_histo bo3
19 on bo3."TCURR_Kurst" = 'EURX'
20 AND bo3."TCURR_ToCurr" = 'EUR'
21 and bo."BSEG_Pswsl" = bo3."TCURR_Fcurr"
22 and bo3."TCURR_Gdatu" = thedat.datmax
```

AZ Business Key for Hub BSEG	AZ Business Key for Hub TCURR
100*Ğ*�*ߩ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*Ğ*�*ߩ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ā**ߩ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ċ*�*ߨ*
	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ċ*�*ߨ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*Ğ*�*ߩ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ċ*�*ߨ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ċ*�*ߨ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ċ*�*ߨ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
100*ċ*�*ߨ*	100*&#EURX*&#USD*&#EUR*ߧ-08-01T00:00:00.000000
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Data Product Spend Analysis

- Source Business Model
- Mouse Drag/Drop
- No Code

The screenshot displays the Datavault Builder interface, which is used for creating data products. The interface is divided into several tabs: STAGING, DATA VIEWER, DATAVAULT, DIMENSIONAL MODEL (active), BUSINESS RULES, DATA LINEAGE, OPERATIONS, DOCUMENTATION, and DEPLOYMENT. The main area shows a dimensional model with a central 'bseg' hub and various surrounding entities like 'Parent', 'Child', 'Header', 'Footer', 'Document', 'Account', 'Company', 'Finance', 'LFA1', 'EKKN', 'T001', 'T005T', 'TCURR', and 'ZTAXACHAT'. A red box highlights the 'bseg' hub and its connections to other entities.

On the right side, there is a panel titled 'Add Columns - Granularity: Hub bseg'. This panel shows a list of available columns and a list of business objects. The 'Available Columns' list includes columns like 'Hash Key for Hub bseg', 'bseg_h', 'bseg_s', 'DLS bseg - BSEG 2024-12.xlsx - Sh Bseg', 'LS bseg - BSEG 2024-12.xlsx - Sh Bseg', 'ILS bseg - BSEG 2024-12.xlsx - Sh Bseg', 'bseg_s_bseg_indicators_f_bseg_dvb_hub_bseg...', 'FLVC bseg - BSEG Indicators - Bseg S Dv...', 'FV bseg - BSEG Indicators - Bseg S Dvb H...', 'DLS bseg - BSEG Indicators - Bseg S Dvb...', 'FLVC bseg - BSEG Indicators - Bseg S Dv...', 'FV bseg - BSEG Indicators - Bseg S Dvb H...', 'DLS bseg - BSEG Indicators - Bseg S Dvb...', 'FLVC bseg - BSEG Indicators - Bseg S Dv...', and 'FV bseg - BSEG Indicators - Bseg S Dvb H...'. The 'Business Objects Columns' list includes columns like 'Kostl', 'Koart', 'perimeter_accounting', 'perimeter_spend', 'perimeter_accounting_entry', 'invoice_co_area', 'invoice_cost_center', 'opex_capex', 'Lifnr', 'Xref3', 'Name1', 'Land1', 'LFA1_HK_ZTAXACHAT', and 'lfa1_h'. A red box highlights the 'Business Objects Columns' list, and red arrows point from the 'bseg' hub in the dimensional model to the corresponding columns in the 'Business Objects Columns' list.

Column Name/ID	Business Objects Columns
bseg_h	BSEG_Kostl
bseg_s	BSEG_Koart
DLS bseg - BSEG 2024-12.xlsx - Sh Bseg	BKPF_perimeter_accounting
LS bseg - BSEG 2024-12.xlsx - Sh Bseg	BKPF_perimeter_spend
ILS bseg - BSEG 2024-12.xlsx - Sh Bseg	BSEG_perimeter_Accounting_entry
bseg_s_bseg_indicators_f_bseg_dvb_hub_bseg...	BSEG_invoice_co_area
FLVC bseg - BSEG Indicators - Bseg S Dv...	BSEG_invoice_cost_center
FV bseg - BSEG Indicators - Bseg S Dvb H...	BSEG_opex_capex
DLS bseg - BSEG Indicators - Bseg S Dvb...	BSEG_Lifnr
FLVC bseg - BSEG Indicators - Bseg S Dv...	BSEG_XREF3
FV bseg - BSEG Indicators - Bseg S Dvb H...	LFA1_Name
DLS bseg - BSEG Indicators - Bseg S Dvb...	LFA1_Land1
FLVC bseg - BSEG Indicators - Bseg S Dv...	LFA1_HK_ZTAXACHAT
FV bseg - BSEG Indicators - Bseg S Dvb H...	lfa1_h



The database is automatically driven

- Staging
- Datavault (Model)
- Datamart Views (Raw, Star, 3NF)

The screenshot displays a database management interface. On the left, a tree view shows the database structure. The 'datavaultbuilder' database is expanded, showing various schemas and tables. The 'bseg_c_spend_analysis' table is highlighted. A red arrow points from this table in the tree view to the right-hand pane, which shows the table's properties and columns.

Properties:

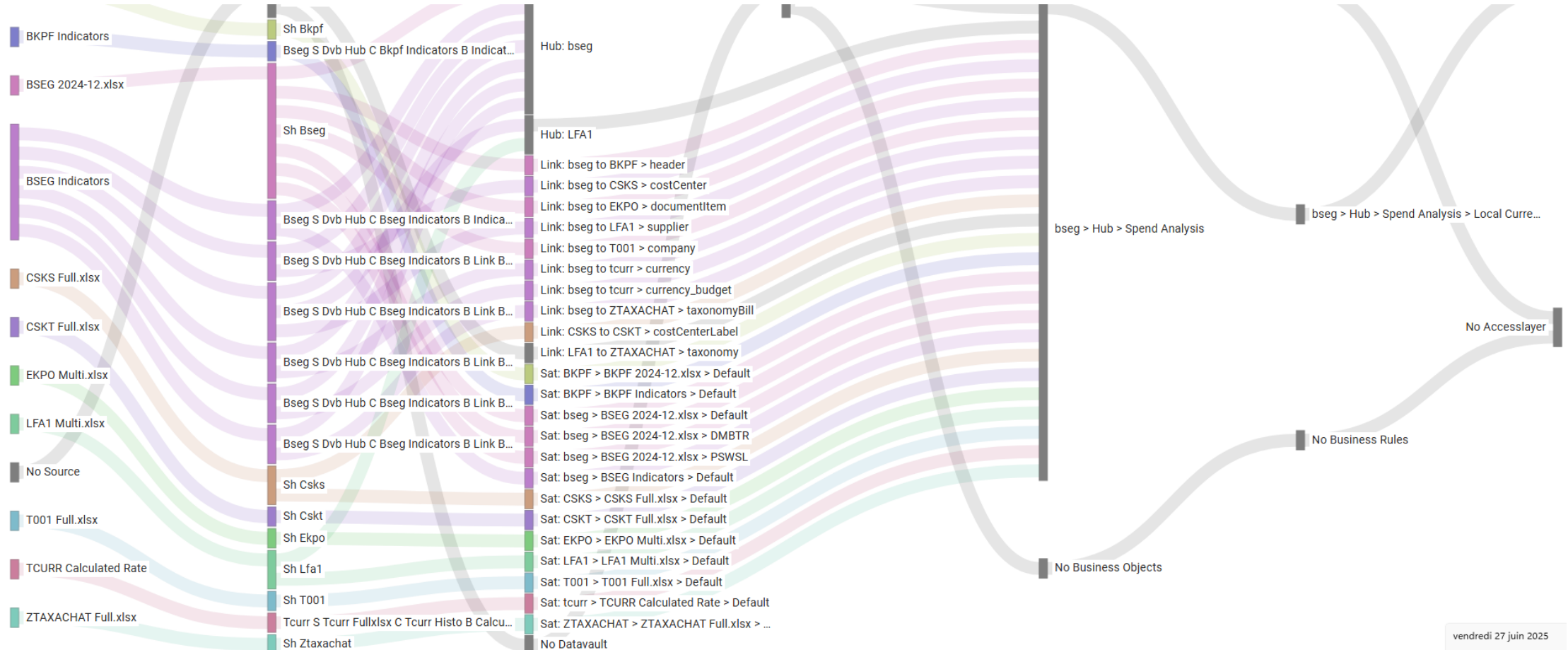
- Name: bseg_c_spend_analysis
- Comment: {"name": "", "comment": ""}
- Object ID: 7
- Owner: db
- Extra Options:

Columns:

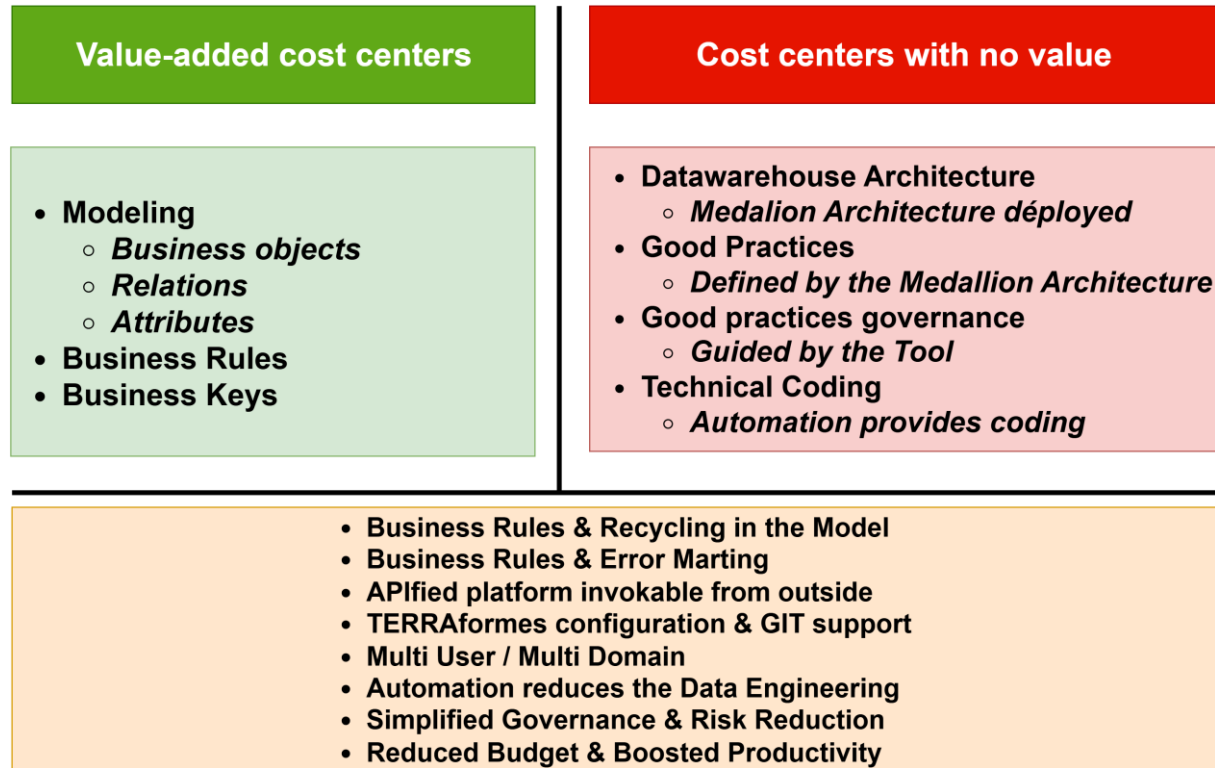
Column Name	#	Data type
A-2 Business Key for Hub BSEG	1	text
A-2 BKPF_Budat	2	timestamp
A-2 BKPF_po_npo	3	text
A-2 BSEG_Buzei	4	text
A-2 BSEG_Hkont	5	text
A-2 BSEG_Ebeln	6	text
A-2 BSEG_Ebelp	7	text
A-2 BSEG_Kokrs	8	text
A-2 BSEG_Kostl	9	text
A-2 BSEG_Koart	10	text
A-2 BKPF_perimeter_accounting	11	text
A-2 BKPF_perimeter_spend	12	text
A-2 BSEG_perimeter_Accounting_entry	13	text
A-2 BSEG_invoice_co_area	14	text
A-2 BSEG_invoice_cost_center	15	text
A-2 BSEG_opecapex	16	text
A-2 BSEG_Lifnr	17	text
A-2 BSEG_XREF3	18	text
A-2 LFA1_Name	19	text
A-2 LFA1_Land1	20	text
O-1 LFA1_HK_ZTAXACHAT	21	bytea
A-2 LFA1_ZTAXACH	22	text
A-2 T001_Land1	23	text
A-2 T001_bubst	24	text
A-2 CSKS_Name1	25	text
A-2 CSKT_TEXT_E	26	text
A-2 CSKT_TEXT_F	27	text
A-2 EKPO_Knttp	28	text
A-2 EKPO_Matkl	29	text
A-2 BSEG_ZTAXACH_Invoice	30	text
A-2 BSEG_CURR	31	text
123 BSEG_Dmbtr_amount_LC	32	float8
123 Budget_ukurs_eff	33	float8
123 Histo_ukurs_eff	34	float8
123 BSEG_Dmbtr_Amount_EUR	35	float8
123 BSEG_Dmbtr_Amount_EURB	36	float8



The Data Lineage of the Datavault Pipeline



Data Vault Automation : Resuming the Benefits



- Transforming cost centers into profit centers
- Complexity of implementation is encapsulated
 - Risk reduction
 - Reduction of Time to Product
- IT department footprint reduced to minimum



How long ?

Less than 2 days



Thank you for listening.

