



**EUROPE-AMERICA  
TECHNOLOGICAL HUB**

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# Agenda

What can we do for you?



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## 1. Data Governance

- Catalogue & Lineage
- Data Quality
- Security

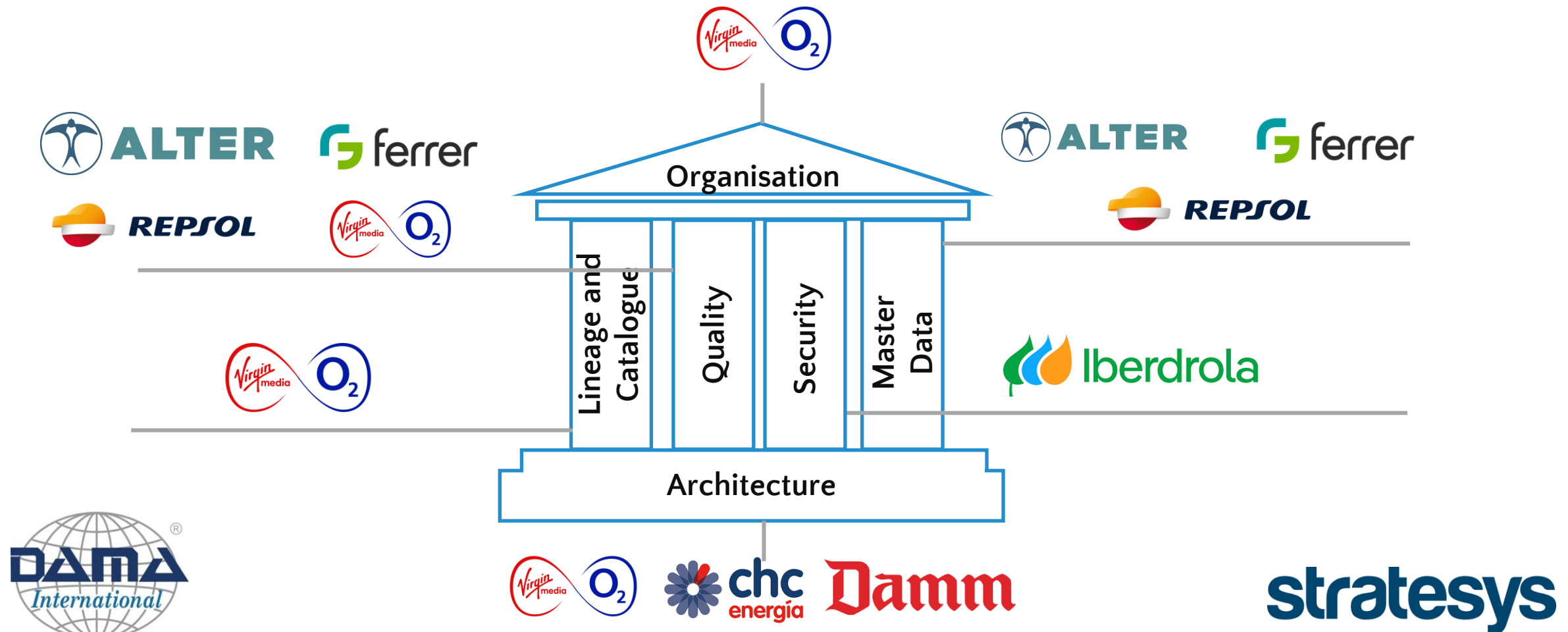
## 2. Advisory

- As-Is
- Way Forward

# Data Governance

Data Governance seeks alignment with a **Data Driven AI Organization** (Data culture + Technology) strategy, where **data is a strategic asset**.

It is based on the following pillars:



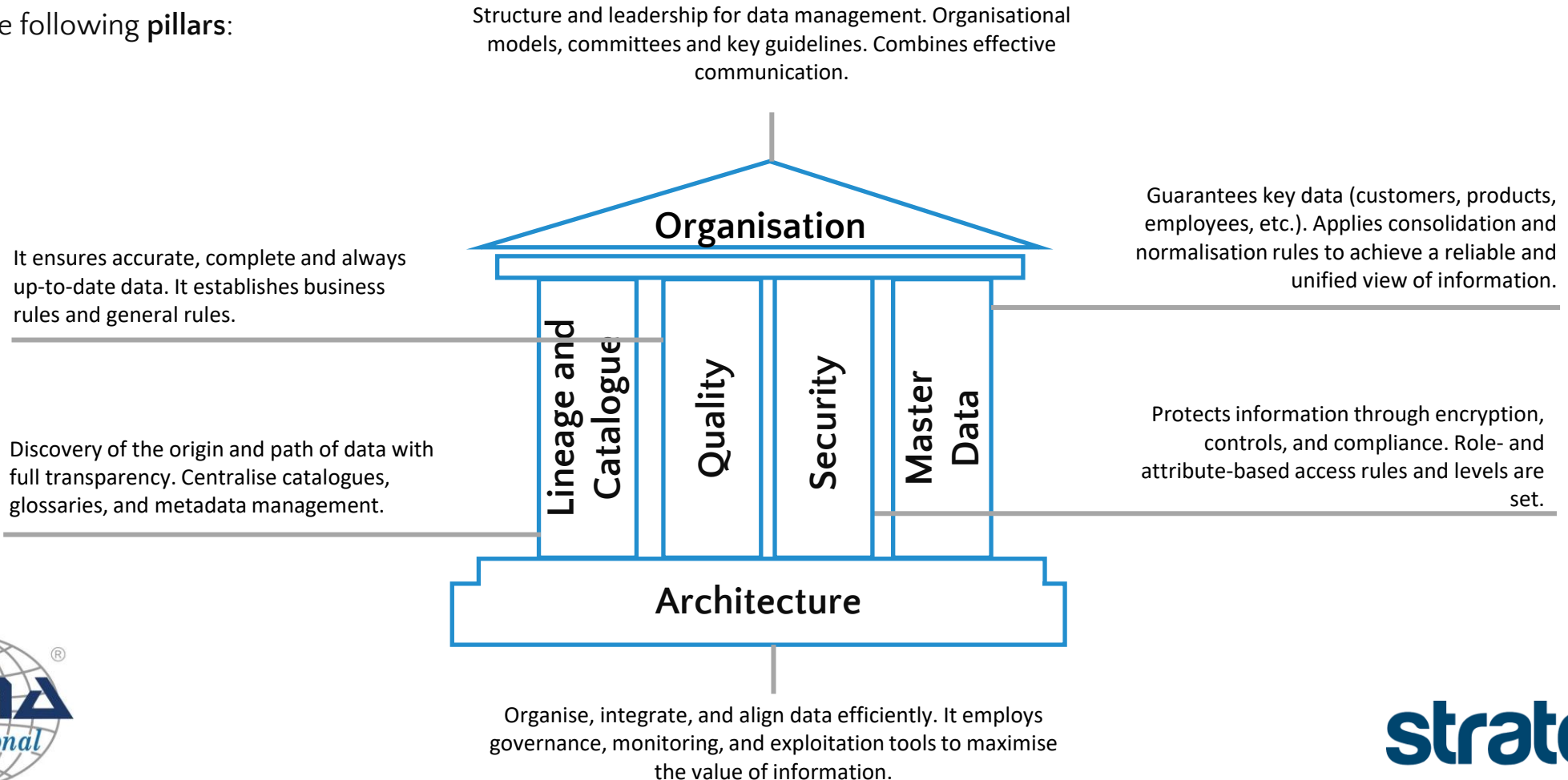
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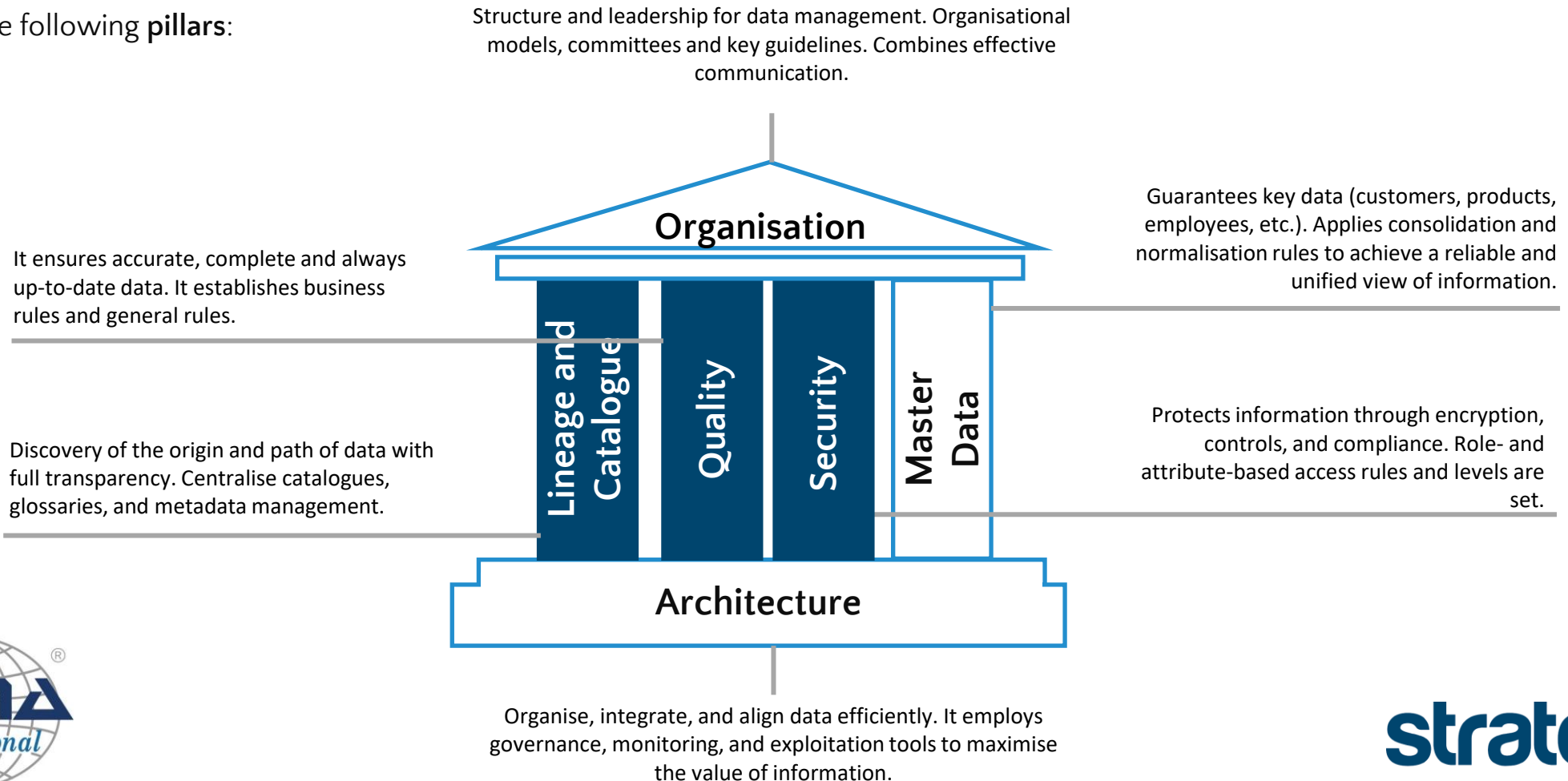
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## SAP Datasphere Catalog

### Administering the Catalog

#### Connect Sources

Extract metadata from source systems

Connect the catalog to source systems in your landscape, and monitor metadata extractions.

#### Classify and Enrich

Define your business language

Standardize the business language in your organization with a business glossary and tagging.

Enrich metadata and publish assets

Edit and add to the extracted metadata. Publish assets once prepared for user consumption.

### Using the Catalog

#### Discover and Consume

Search for data and analytic assets

Use the search and filtering capabilities of the catalog to find the data or analytic content of interest.

Evaluate and then start using!

Review the metadata and other details about the asset, and then open and start working with it!

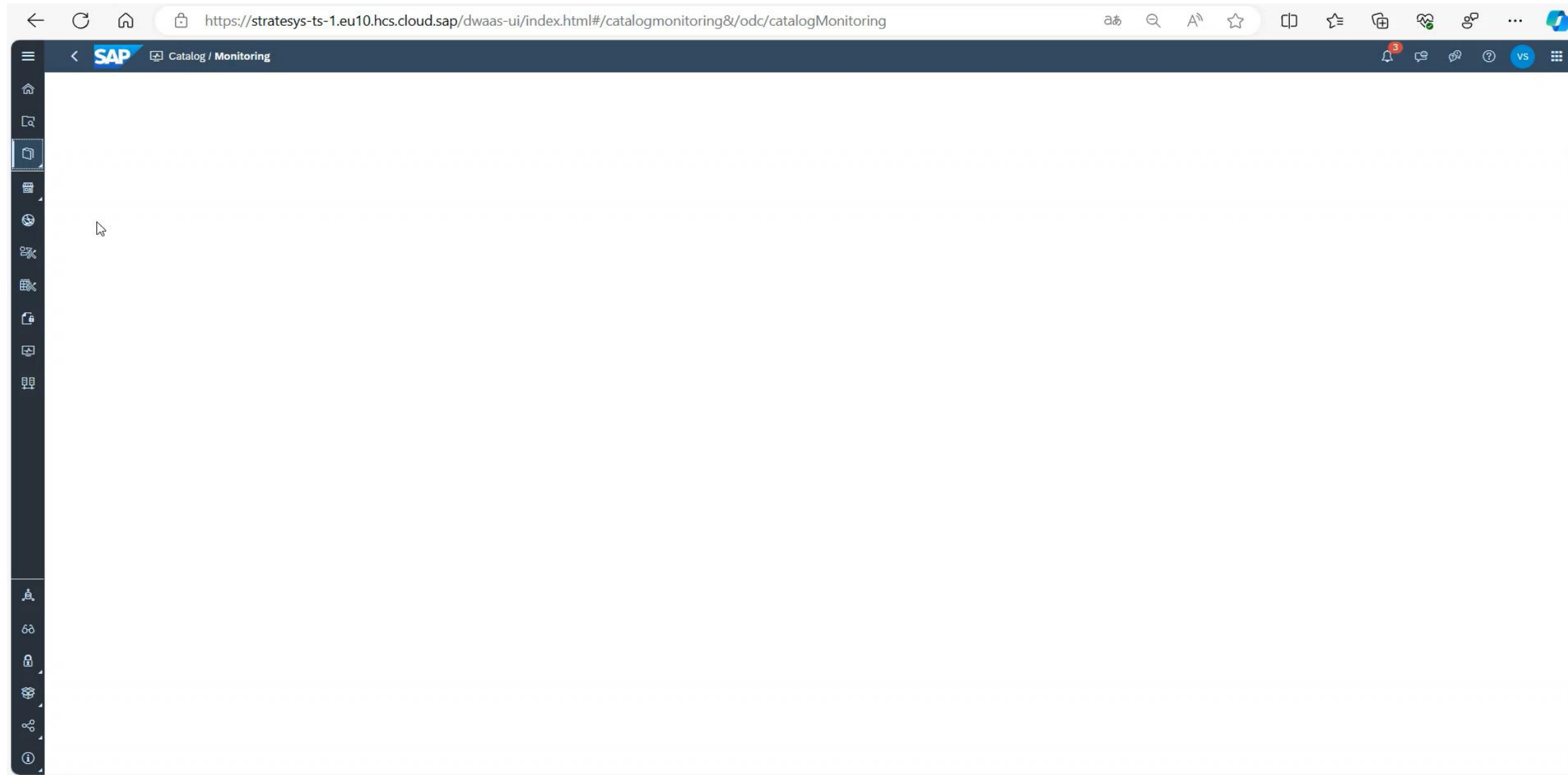


# Datasphere Catalog

Catalog & Lineage



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# Datasphere Catalog

Lineage



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SAP Data Builder interface showing a SQL query in the central editor and the Model Properties panel on the right.

**Repository:** All (2)

**Search In:** "All"

**Model Properties:** 3VF\_CostesAbsentismo

**Business Name:** 3VF\_CostesAbsentismo

**Technical Name:** 3VF\_CostesAbsentismo

**Language:** SQL (Standard Query)

**Release State:** Not Released

**Semantic Usage:** Fact

**Expose for Consumption:** ON

**Run in Analytical Mode:** OFF

**Status:** Deployed

**Deployed On:** May 2, 2025 9:54:42

**Data Validation Status:** Validated

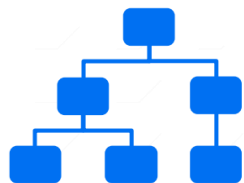
**Validated On:** Not Validated

```
1 SELECT "EmpPayrollRR"."externalCode",
2       "EmpPayrollRR"."userId",
3       cast("EmpPayrollRR"."mdfSystemEffectiveStartDate" AS DATE) AS "effectiveStartDate",
4       "EmpPayrollRR"."startDateWhenPaid",
5       "EmpPayrollRR"."endDateWhenPaid",
6       "EmpPayrollRRItems"."amount",
7       "EmpPayrollRRItems"."quantity",
8       "EmpPayrollRRItems"."startDateWhenEarned",
9       "EmpPayrollRRItems"."endDateWhenEarned",
10      "EmpPayrollRRItems"."payrollProviderWageType",
11      "PerPersonal"."firstName",
12      "PerPersonal"."lastName",
13      "PerPersonal"."secondLastName",
14      CONCAT(CONCAT(CONCAT(COALESCE("PerPersonal"."firstName", ''), ' '), CONCAT(COALESCE("PerPersonal"."lastName", ''), ' '), COALESCE("PerPersonal"."secondLastName", '')) AS "NombreEmpleado",
15      "PerPersonal"."gender",
16      "PerPersonal"."dateOfBirth",
17      YEARS_BETWEEN("PerPersonal"."dateOfBirth", "EmpPayrollRR"."mdfSystemEffectiveStartDate") AS "Edad",
18      "EmpJob"."event",
19      "EmpJob"."eventReason",
20      "EmpJob"."startDate",
21      "EmpJob"."endDate",
22      "EmpJob"."location",
23      "EmpJob"."customString4",
24      "EmpJob"."customString9",
25      "CECO"."costcenterExternalObjectID",
26      "EmpJob"."position",
27      CASE WHEN "EmpJob"."eventReason" IN ('DATACHG', 'Z0-', 'Z0-01', 'Z0-02', 'Z0-03', 'Z1-01', 'Z1-02', 'Z1-03', 'Z1-04', 'Z1-05', 'Z1-06', 'Z1-07', 'Z1-08', 'Z1-09', 'Z1-10', 'Z3-', 'Z3-02', 'Z3-03', 'Z3-06', 'Z4-', 'Z4-01', 'Z8-', 'Z8-01', 'Z8-02', 'Z8-03', 'Z8-01', 'Z8-02', 'Z8-03', 'ZC-', 'ZC-01', 'ZC-02', 'ZC-03', 'ZF-', 'ZF-01', 'ZF-02', 'ZF-03', 'ZX-', 'ZX-01', 'ZX-02', 'ZX-03', 'ZZ-', 'ZZ-01', 'ZZ-02', 'ZZ-03') AND "EmpJob"."startDate" <= "EmpPayrollRRItems"."startDateWhenEarned" AND "EmpJob"."startDate" <= "EmpPayrollRRItems"."endDateWhenEarned" THEN 1 ELSE 0 END AS "EXC_REGS",
28      --Máscara que nos va a indicar si ha habido un cambio a mitad de mes
29
30 'SSFF' AS "Origen"
31 FROM "1_EmployeePayrollRunResults" AS "EmpPayrollRR"
32 JOIN "1_EmployeePayrollRunResultsItems" AS "EmpPayrollRRItems" ON "EmpPayrollRR"."externalCode" = "EmpPayrollRRItems"."externalCode" AND "EmpPayrollRR"."mdfSystemEffectiveStartDate" = "EmpPayrollRRItems"."mdfSystemEffectiveStartDate"
33 JOIN "1_EmpJob" AS "EmpJob" ON "EmpJob"."userId" = "EmpPayrollRR"."userId"
34 LEFT JOIN "1_PerPersonal" AS "PerPersonal" ON "EmpJob"."userId" = "PerPersonal"."userId" AND "PerPersonal"."personIdExternal" AND "PerPersonal"."endDate" = TO_TIMESTAMP('9999-12-31 00:00:00', 'YYYY-MM-DD HH24:MI:SS') LEFT JOIN "1_PerPerson" AS "PerPerson" ON "EmpJob"."userId" = "PerPerson"."personIdExternal"
35 LEFT JOIN (
36     SELECT "EmpCostDistribution_usersSysId",
37            "EmpCostDistribution_effectiveStartDate",
38            "costCenter"
39     FROM "1_EmpCostDistributionItem"
40     WHERE ("EmpCostDistribution_usersSysId", "EmpCostDistribution_effectiveStartDate") IN (SELECT "EmpCostDistribution_usersSysId", MAX("EmpCostDistribution_effectiveStartDate") FROM "1_EmpCostDistributionItem" GROUP BY "EmpCostDistribution_usersSysId")
41 ) AS "CECOAlternativo" ON "CECOAlternativo"."EmpCostDistribution_usersSysId" = "EmpJob"."userId"
42 JOIN "1_FOCostCenter" AS "CECO" ON "CECO"."externalCode" = "CECOAlternativo"."costCenter" AND "CECO"."endDate" = TO_TIMESTAMP('9999-12-31 00:00:00', 'YYYY-MM-DD HH24:MI:SS')
43 WHERE "EmpJob"."empStatus" = 1390
44 AND "EmpJob"."effectiveLatestChange" = 'true'
45 AND "EmpPayrollRRItems"."startDateWhenEarned" <= "EmpJob"."endDate"
46 AND "EmpPayrollRRItems"."endDateWhenEarned" >= "EmpJob"."startDate"
47 UNION
```



## 1st Phase

Data Health  
(Monitoring)



### DATA QUALITY DASHBOARD

- Identification of duplications
- Master data grouping
- Field cleanup and exclusion filters
- Enrichment with the generation of additional fields, groupings or rankings.

## 2nd Phase

Definition of corrective actions  
and remediation plans

### 1. Format correction and adaptation

HANA SQL, SQLScript, and Python have hundreds of formatting and syntax adaptation functions that allow you to automatically correct typos and enrich data using custom logic.

### 2. Data error detection and alerting

Using SAP Analytics Cloud, you can create alerts associated with data that allow you to automate the detection and notification of errors graphically or by e-mail.

### 3. Correction in external systems

Through direct integration of SAP Datasphere with external systems with ODATA or replication flow, correction of data at transactional source is possible.  
(External system must be supported)

## 3rd Phase

Implementation



The screenshot displays the SAP Data Builder user interface. On the left is a dark sidebar with navigation options: SAP Datasphere, Home, Repository Explorer, Catalog, Apps, Data Marketplace, Semantic Onboarding, Business Builder, Data Builder (selected), Data Integration Monitor, Connections, Space Management, System Monitor, Translation, Security, Transport, Data Sharing Cockpit, and System.

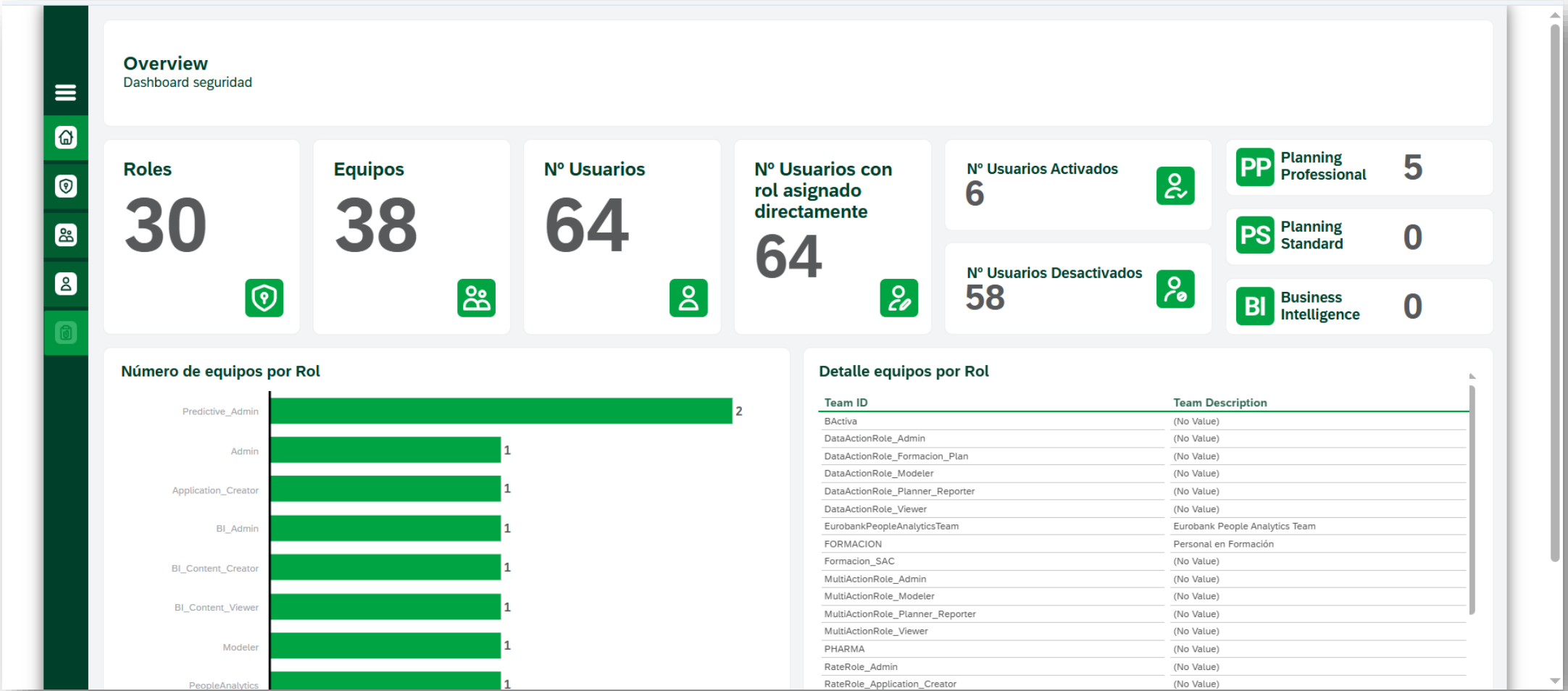
The main area has a top header with 'SAP', 'Data Builder', and 'SAP & Partner Content'. Below this is a 'Welcome to the Data Builder' section with instructions: 'Create views and tables to prepare data for your stories, and use entity-relationship models to visualize and make associations between artifacts.' A horizontal menu lists various object types: All Files, Tables, Views, E/R Models, Analytic Models, Flows, Intelligent Lookups, Task Chains, and Data Access Controls.

Below the menu is a row of ten icons representing different actions: New Table, New Graphical View, New SQL View, New Entity - Relationship Model, New Analytic Model, New Data Flow, New Replication Flow, New Transformation Flow, New Intelligent Lookup, and New Task Chain.

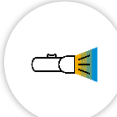
A search bar contains the text 'Search In: "All"'. Below it is a toolbar with icons for adding, deleting, refreshing, and other actions.

The main content area shows a table titled 'List Objects In: All (1459)'. The table has columns: Business Name, Technical Name, Type (Semantic Usage), Space, Folder, Status, and Change. It lists several objects related to 'SupplierDev\_DataValidation' and 'Supplier\_UniqueKeyVaalues'.

<input type="checkbox"/>	Business Name	Technical Name	Type (Semantic Usage)	Space	Folder	Status	Change
<input type="checkbox"/>	SupplierDev_DataValidation	SupplierDev_DataValidation	View (Fact)	SAP &...	-	⌚ Deployed	Nov 29,
<input type="checkbox"/>	Supplier_UniqueKeyVaalues	Supplier_UniqueKeyVaalues	Analytic Model (Cube)	SAP &...	-	⌚ Deployed	Nov 29,
<input type="checkbox"/>	Supplier_NoNullKeyValues	Supplier_NoNullKeyValues	Analytic Model (Cube)	SAP &...	-	⌚ Deployed	Nov 29,
<input type="checkbox"/>	Supplier_NoNull_KeyValues	Supplier_NoNull_KeyValues	View (Fact)	SAP &...	-	⌚ Deployed	Nov 29,
<input type="checkbox"/>	Supplier_UniqueKeyValues	Supplier_UniqueKeyValues	View (Fact)	SAP &...	-	⌚ Deployed	Nov 29,
<input type="checkbox"/>	Supplier_DataQuality	Supplier_DataQuality	Analytic Model (Cube)	SAP &...	-	⌚ Deployed	Nov 29,
<input type="checkbox"/>	SAP Ariba: Spend Analysis Part Optimizations	SAP_PROC_SA_RL_PART_OPTIM...	View (Analytical Dataset)	SAP &...	-	🕒 Not Deployed	Oct 17,




- Essential for collaboration and democratization of data. It enables users to discover, understand, and prepare business data.
- Improve productivity by building trust in metadata through consistent data quality and governance.
- Users can search and filter data, view asset lineage and details, enrich and classify assets, and share them with other users.




Discover

**Discover data** (Track, profile, organize, link, and enrich) and create accessible data (*browse, search*)



Organize

**Sort, organize, and understand data** (*location, attributes, quality, lineage, sensitivity*)



Control

**Apply centralized authorization and security** for orchestration and control of data quality standards

The diagram illustrates the Data Governance lifecycle as a continuous loop of 12 steps surrounding a central hub labeled "Data Governance". The steps are arranged in a circle and include:

- Understand
- Profile
- Govern Access
- Prepare & Transform
- Monitor
- Publish, Share & Collaborate
- Crawl & Index
- Label & Tag
- Search
- Understand

The entire cycle is framed by a blue arc at the top labeled "CATALOG".

This Venn diagram illustrates the integration of data landscapes and metadata management:

- Non-SAP data landscape (Left Circle):** Includes cloud applications (Google Cloud, Azure, Salesforce, Tableau, Databricks, AWS, MongoDB) and on-premise sources.
- SAP data landscape (Right Circle):** Includes SAP Analytics Cloud\*, SAP Datasphere\*\*, SAP BW4/HANA\*\*, SAP ECC\*, SAP HANA Cloud\*\*, and SAP S/4HANA\*\*.
- Intersection (Center):** Labeled "Collibra", it contains the components: Metadata, Data Lineage, Glossary, and Classification.

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# Data Governance

## Actionables



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### 1. Catalogue & Lineage

Review one (1) dataflow with up to ten (10) associated tables, ensuring alignment with architecture, naming conventions, and best practices.

*2 - 4 weeks*

### 2. Data Quality

Configure the Data Quality Rules available for the assets of one (1) business area and up to ten (10) unique assets with up to ten (10) rules per asset. Also, plug-in the Data Quality Monitor.

*4 - 5 weeks*

### 3. Security

Configure “Admin Monitor” for SAC and Datasphere.

*1 - 3 weeks*

### 4. Collibra

Integrate Datasphere to Collibra.

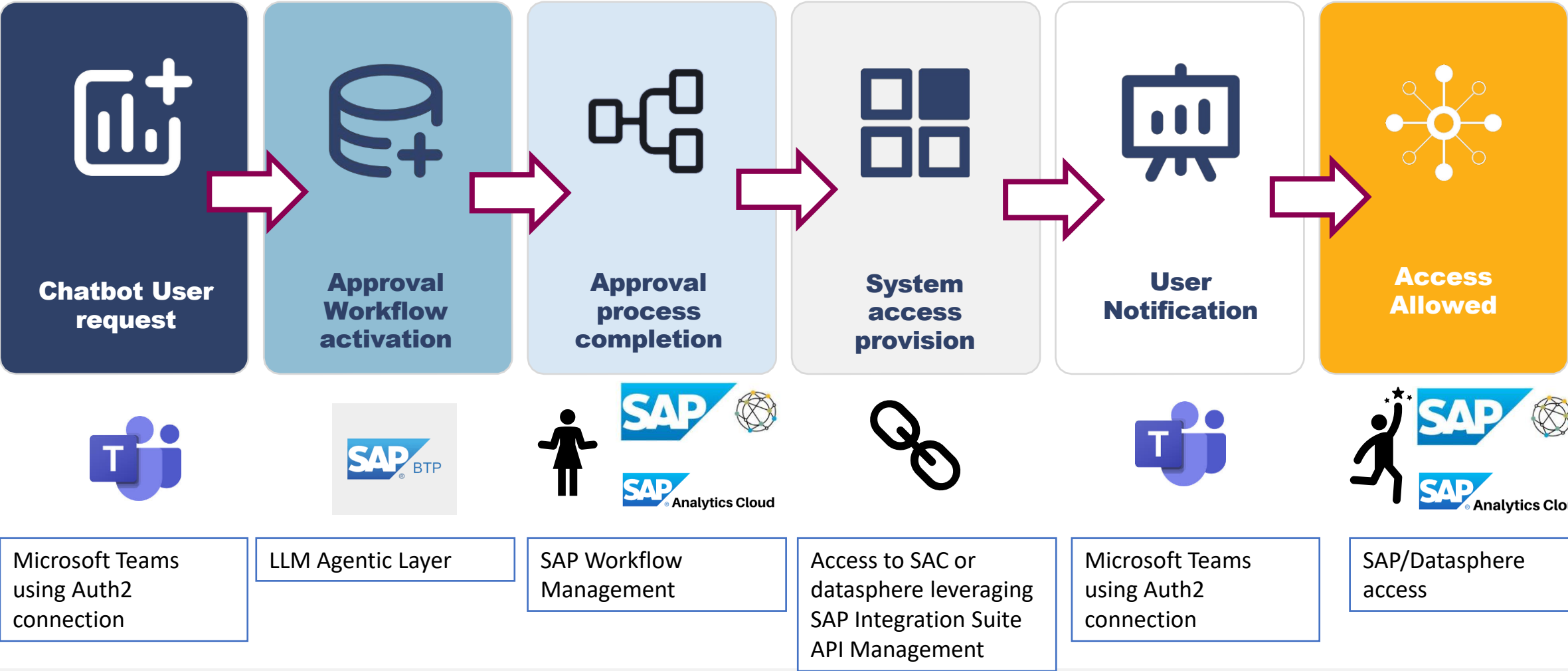
*3 - 5 weeks*

# Access Automation

## System Design Overview



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# Access Automation

Actionable



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## 1. App

Build PoC App for 10 users and 1  
approver.  
1 Data Model/Dashboard

*7 - 9 Weeks*

# Advisory

## Best Practices Datasphere



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A comprehensive review of SAP Datasphere developments and documentation to ensure alignment with best practices, standards, and project goals, covering both completed and ongoing workstreams:

### Documentation Review

#### Why and What:

- Guarantees quality and alignment with actual developments.
- Functional & technical designs.
- Test documents and KPIs.
- Reconciliation guides, GAPS, lessons learned.

### Developments Review

#### Why and What:

- Ensures correct use of spaces and object structures.
- Queries, models, dataflows.
- Use of spaces and consistency checks.

### SAP Datasphere Advisory

Ensuring quality, compliance, risks and best practices in all developments (completed and ongoing).

### Best Practices & Compliance

#### Why and What:

- Ensures developments meet standards and security.
- Roles & authorizations.
- Technical names validation across the system.
- Versioning, security, governance.

### Architecture Review

#### Why and What:

- Ensures a clear definition of architecture and responsibilities.
- Guarantees that developments are done in the right place (where they belong).
- Clear guidelines on “where to do what”
- Compliance with best practices



# Advisory Process

Best Practices Datasphere



This advisory process will be applied to developments already completed, using an iterative approach:

**1. Review**  
In-depth review of existing developments and documentation.  
  
Validation of architecture, technical standards, and best practices.

BMW System Overview

Client	Viva Aerobus	Environment	Datasphere Development	Stratesys	Marc Martinez
Development	VA_DSP_000178	Document Date	15.05.2025	John Smith	
Version	3.00	Validation Date	03.06.2025	Approvers	

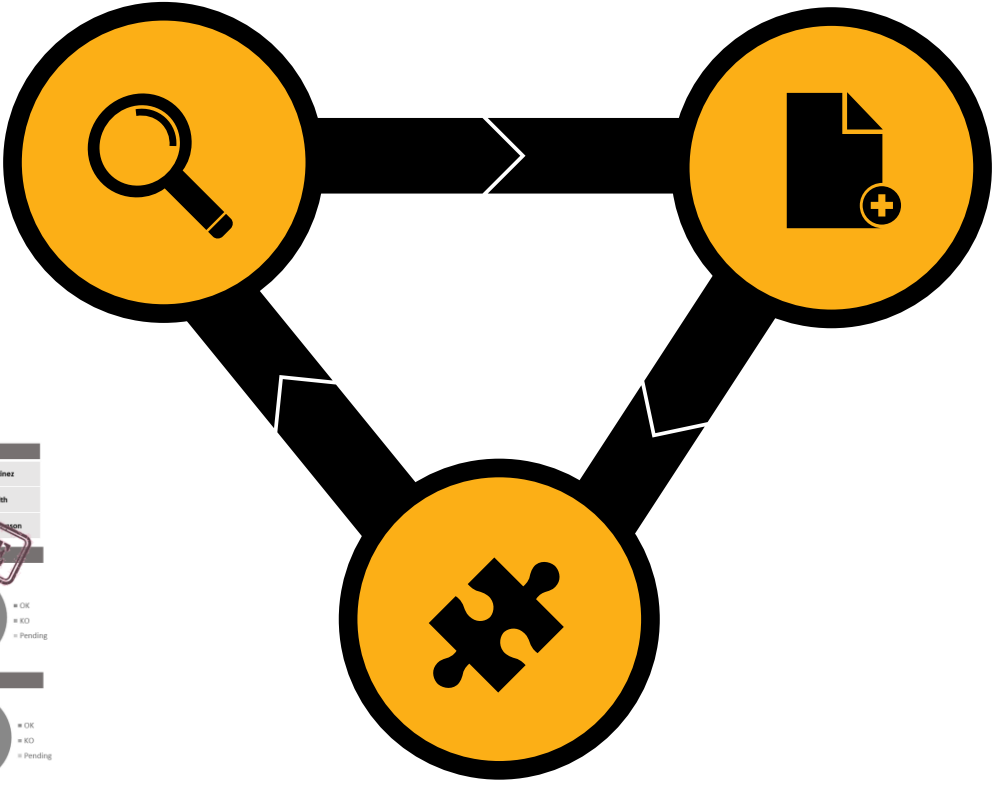
Installed Components

Item	Status	Iteration	Comment
Correct use of Spaces.	✓	0001	Spaces are used correctly, aligning with best practices and project requirements.
Consistency across environments.	⚠	0003	Review still pending to confirm consistent deployments across all environments.
Naming convention compliance.	⚠	0002	Deviations from naming standards identified, improvements needed for consistency.
Queries, views, models integrity.	✓	0001	Reviewed and aligned with project standards, ensuring accuracy and maintainability.
Dataflows performance optimization.	✓	0001	Performance reviewed, dataflows optimized for smooth processing and efficiency.
Alignment with design documents.	✓	0002	Reusable components used effectively to reduce duplication and ensure maintainability.
Following architectural guidelines.	✓	0002	Fully aligned with functional and technical designs, ensuring project traceability.
Security roles and authorizations.	✓	0001	Developments follow architectural guidelines, ensuring correct implementation locations.
Versioning and change control.	✓	0002	Security roles and authorizations properly implemented, meeting project standards.
Data transformation logic validation.	✓	0001	Versioning and change control managed well, ensuring traceability of updates.
Error handling and data quality.	✓	0001	Effective error handling and data quality management in place.

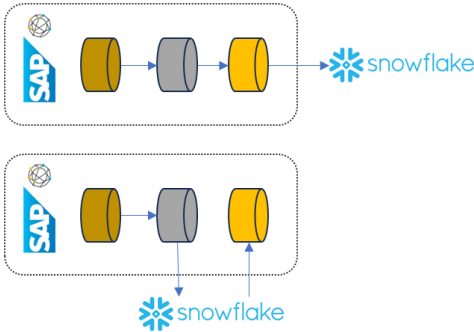
EXAMPLE

Items

Components



**2. Recommendations**  
Actionable improvement proposals based on findings.  
  
Prioritisation of improvements according to impact and feasibility.



**3. Implementation**  
Implementation of recommended actions by the third-party teams.  
  
Support and follow-up to ensure proper execution.

# Advisory

Actionable



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## 1. As-Is

Review one (1) dataflow with up to ten (10) associated tables, ensuring alignment with **architecture**, **naming conventions**, and **best practices**.

*2 Weeks*

## 2. Way Forward

Two (2) dedicated team members working alongside the project team. Continuous reviews, recommendations, and support to ensure alignment with best practices and project standards.

*End of 2025*

# Summary

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