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AI-Accelerated SAP BW Modernization

Turning decades of legacy BW into a modern cloud data platform



NTT DATA Business Solutions

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AGENDA

The journey ahead

01 The challenge
Decades of business logic locked inside BW

02 Why BW migration is hard
The specific things that make it a daunting task

03 An AI-accelerated approach
Discover, understand, translate, validate

04 Demo of Migration Explorer
Showcase BW lineage and target migration objects

05 What it means for you
A factual, low-risk path to the cloud

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THE CHALLENGE

Your BW system is a 20-year archive of business logic

10, 15, 20 years of continuous development. Every process chain, transformation and query encodes a decision the business once made. Much of it undocumented and often built by people who have since moved on.

Understanding that system landscape — and moving it faithfully to a new cloud data platform — is one of the largest undertakings a data team will face.

10,000+ objects in a single BW system landscape

2,700+ BEx queries, each with its own logic

Layers of ABAP routines & transformations

*Measured on live BW/4HANA 2023 and S/4 systems.

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WHY BW MIGRATION IS HARD

Six things that make it a daunting task

Undocumented legacy

Knowledge lives in the objects, not in a spec — lineage has to be rediscovered.

ABAP transformation logic

Start / end / expert routines carry rules with no equivalent runtime in the cloud.

BEx query complexity

Restricted & calculated key figures, variables, hierarchies — thousands of them.

Correct typing

Currencies and quantities must land as currency and quantity — not as text.

What's actually used

Much of the system landscape is dead. Migrating it all wastes the whole budget.

Mixed Modelling

CompositeProviders, calc views and HANA scripts each model data a different way, with no single cloud equivalent.

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A DIFFERENT APPROACH

AI-accelerated migration

Instead of reading the system landscape by hand, an AI migration toolset reads it for you — discovering every object, translating models, logic and queries to the target, and validating the result. Engineered, repeatable, evidence-based.

1



Discover

Read the full BW system landscape — objects, queries, chains, usage

2



Understand

Build a platform-neutral model of what each object does

3



Translate

Generate target mapped objects

4



Validate

Deterministic pre/post checks on metadata and data

5



Report

Per-object evidence, lineage and a migration roadmap

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THE ACCELERATORS

What the toolset does for you



Automated discovery

Every object, query and process chain inventoried directly from the live system — read-only.



AI-assisted translation

Models, transformation logic and queries converted to the target with rules and validation.



Deterministic validation

Pre/post checks on metadata and data for every object — silent failures are surfaced and named.



Automated target setup

Integrated accelerator that sets up a new SAP Datasphere tenant with spaces, roles, connections and replication flows deployed automatically — no manual clicking.



Migration Explorer

The whole system landscape as a navigable lineage map — dependencies, usage and complexity in one view.



Multi-target

SAP Datasphere is the primary target for a BW migration, but the same tool also supports targets such as Fabric, Databricks and Snowflake.

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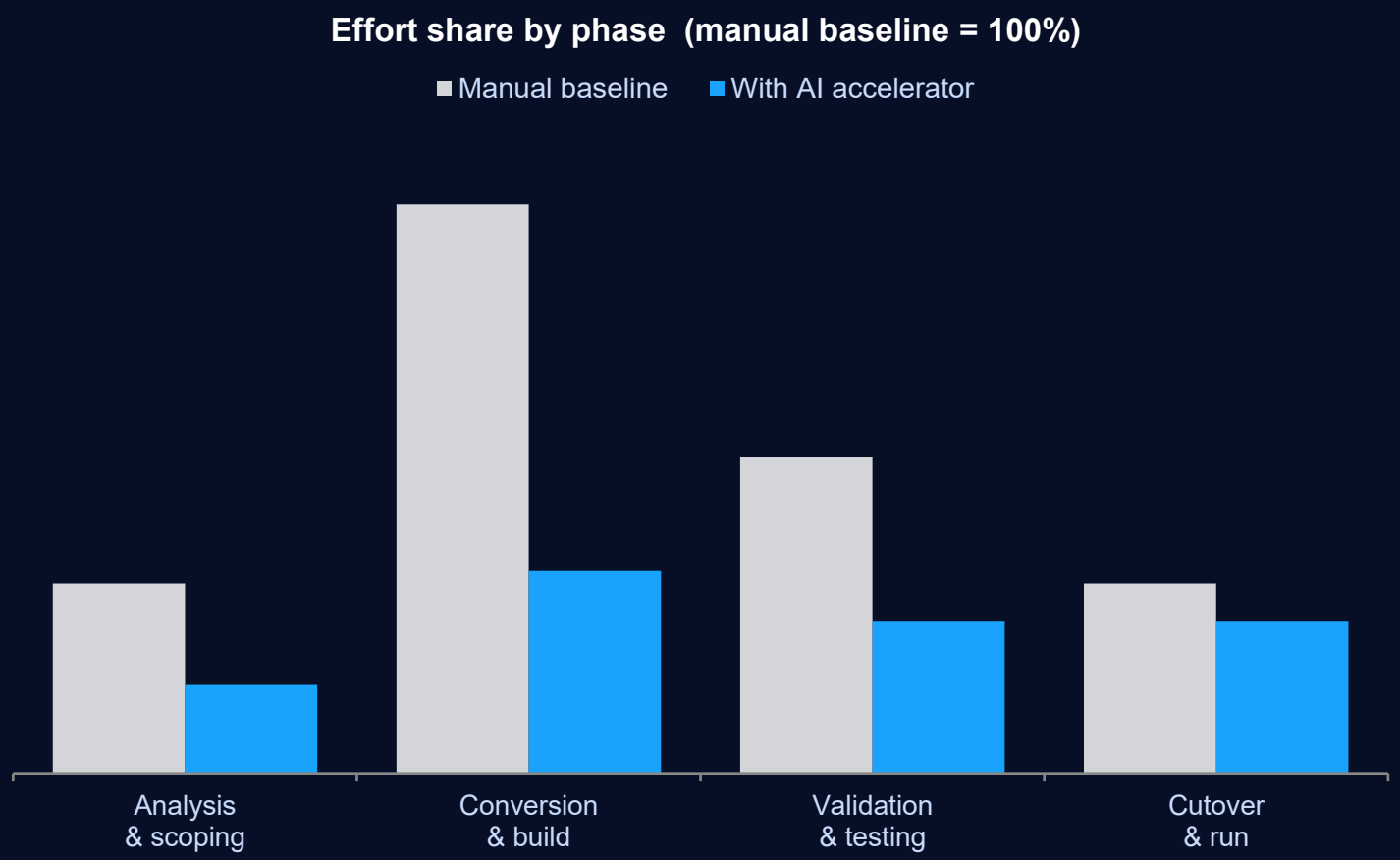
THE PAYOFF

Cut migration effort by 30%+

30%+

Reduction in effort and resources across the migration.

Today we're already saving customers roughly 30% of the migration effort. That's a starting point, not a ceiling — every project adds reusable patterns sharpening the accelerator.



Phase model — projected at full automation; actual reduction depends on system landscape size and custom-code share.

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REFERENCES

Three references, three source set-ups

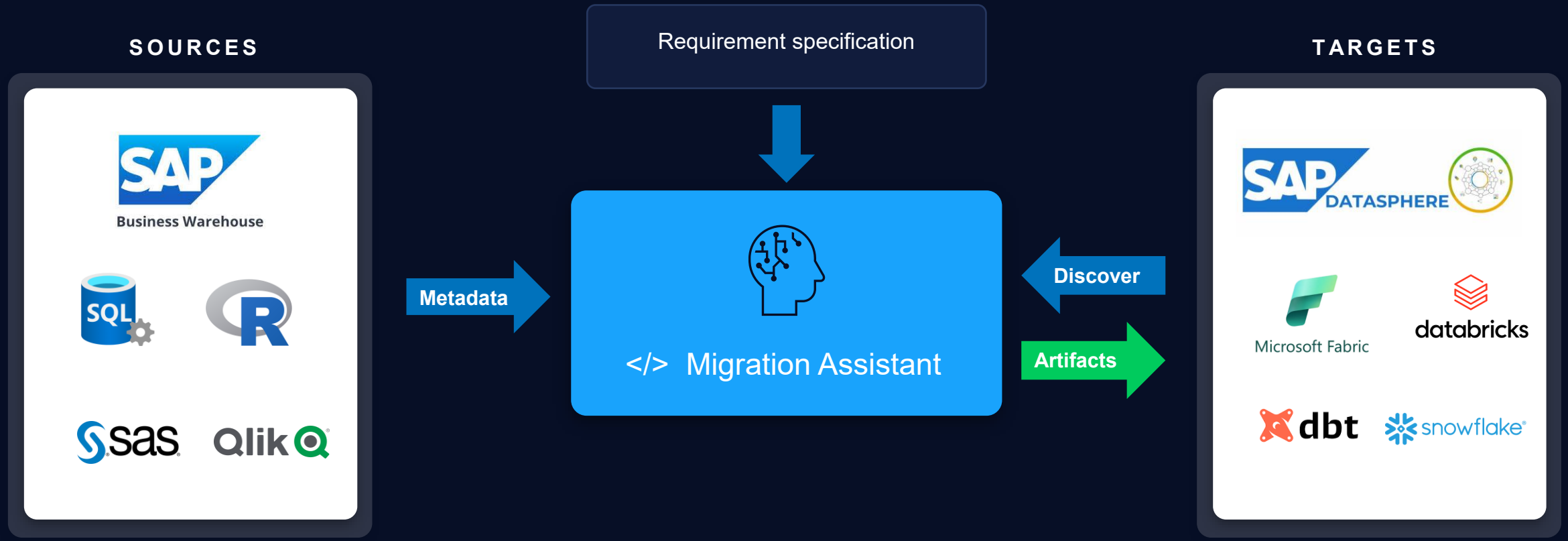
	REFERENCE 1	REFERENCE 2	REFERENCE 3
COMPANY	Swedish industrial tooling manufacturer	Danish pharma company	Danish manufacturer
BW SOURCE	**BW 7.5 on HANA (classic)**	**BW/4HANA 2023**	**BW/4HANA**
SCALE	11,600+ objects	10,000+ objects, 2,700+ queries	30,000+ objects
TARGET	SAP Datasphere	SAP Datasphere (others possible)	Datasphere → Snowflake (BDC)
ENGAGEMENT	Landscape analysis + one-flow design deep-dive	Read-only assessment	Architecture assessment + AI-tool PoC
RESULT	BW layers condense into virtual views; HANA layer gives full logic visibility	Usage and complexity decide scope	Early access sets the pace; S/4 CDS sourcing planned from day one

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OVERVIEW

Agentic platform migration

One migration assistant reads your legacy source landscape and generates cloud-native artefacts. Targets can be SAP Datasphere as well as other cloud platforms like Microsoft Fabric, Databricks, dbt and Snowflake.

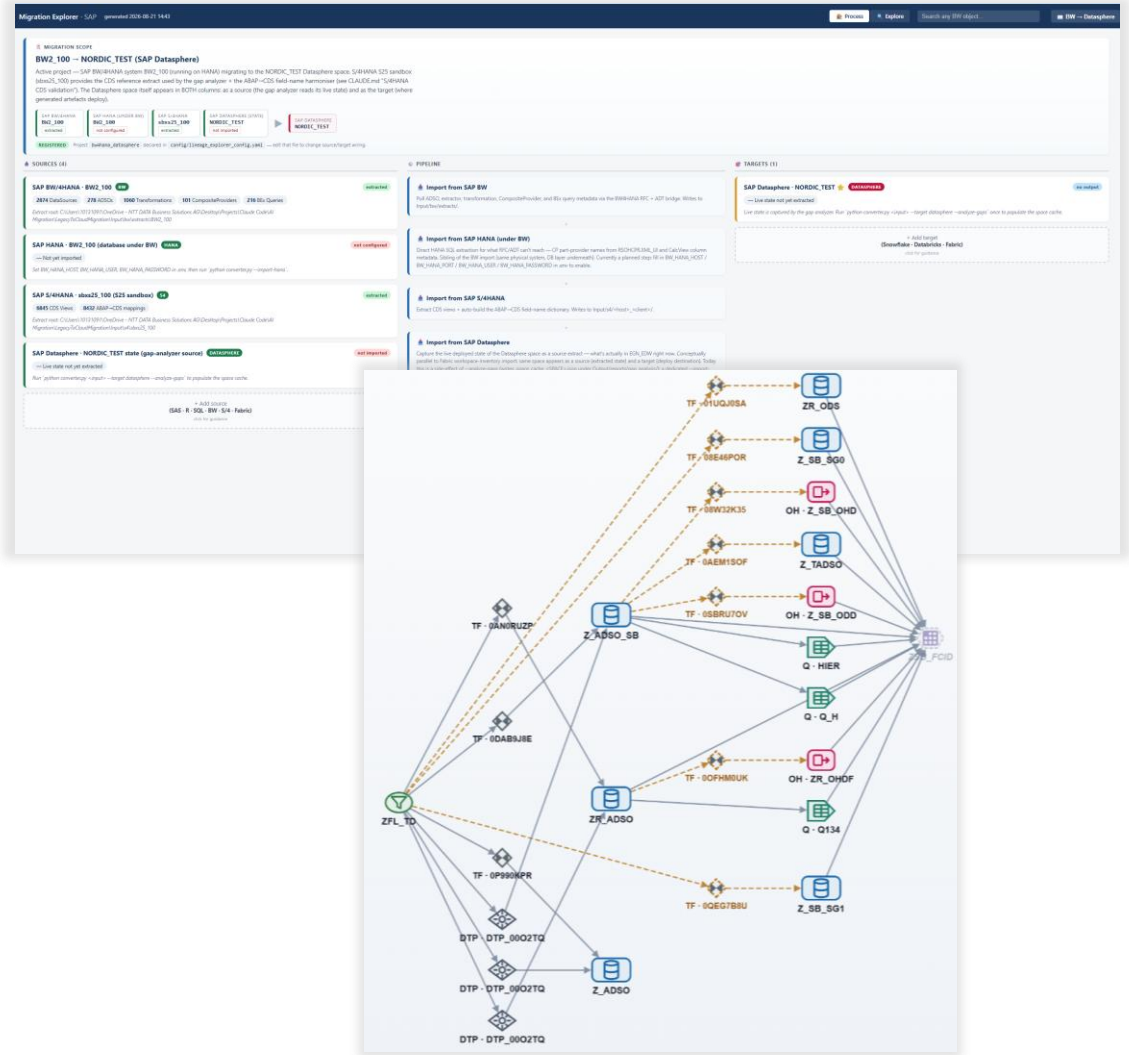


DEMO

Migration Explorer — your BW landscape as a map

Every object, every dependency, every load — one navigable picture. Source lineage, target artefacts, usage and complexity, side by side.

DEMO



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FIRST STEP

Start with a factual assessment of your BW system landscape

A read-only discovery that gives you the facts — the basis for a confident migration decision. No system changes.

WHAT YOU GET

- Full system landscape discovery — every object, query and process chain inventoried
- Usage-based scope: what to migrate, what to decommission, what to leave
- Per-object complexity scoring and effort estimate
- Target-architecture recommendation — SAP Datasphere, Microsoft Fabric, Databricks or Snowflake
- A dependency-ordered migration roadmap

HOW IT RUNS

1. **Extract & analyse**
   Read-only discovery of the live system landscape
2. **Report & roadmap**
   Scope, complexity, target architecture
3. **Decision**
   A fixed-scope plan for the migration itself

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Feel free to contact us if you want to know more or discuss in your unique context



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