



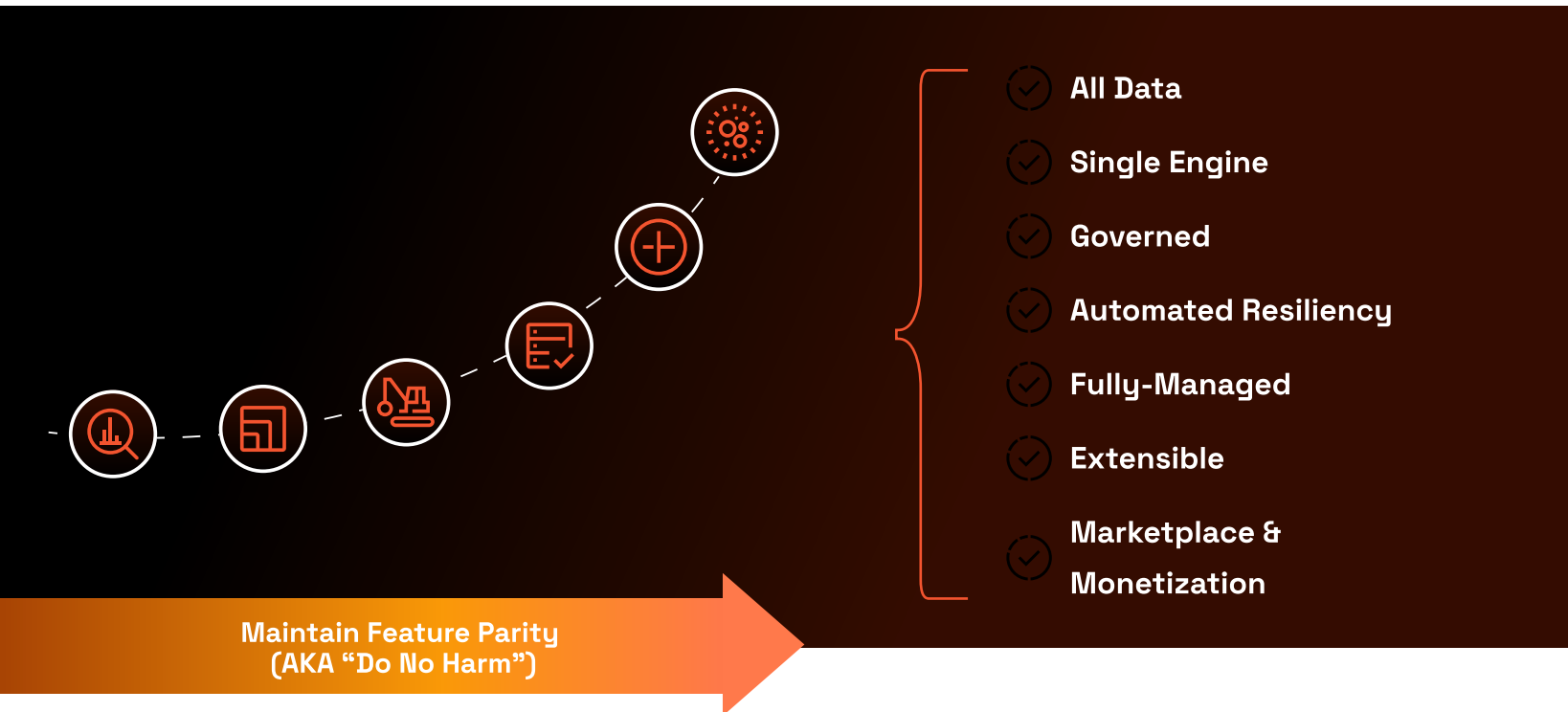
AI-Accelerated Snowflake Migrations

74% of organizations expect to have their data **centralized** on a primary cloud platform by the end of the year—an ambitious **45%** increase from 2023. But if that lofty goal is going to come to fruition, time is already running out.

With deep industry experience in some of the most tightly regulated industries on the market, Hakkōda understands that data leaders can't afford to wait another six months to start extracting value from their Snowflake investments.

To compete with leaders in their respective spaces and chart a course for future success, organizations need to modernize their data stack yesterday. **That's why we've built a migration offering that combines the superhuman speed and scalability of AI tooling** with the talent and expertise of data leaders who already speak the language of your business.

How do we help organizations migrate & modernize?



Hakkōda leverages a 6-stage migration framework that aligns closely with the **Data Innovation Journey**. Traditional “lift-and-shift” models migrate existing data—along with many of its challenges and inefficiencies—into the cloud. Hakkōda departs from this methodology with a refactored migration approach that follows a long-term data maturity roadmap from chaos to innovation while maintaining feature parity and minimizing disruptions.

At the start of a client engagement, we start by guiding clients out of the **chaos** of legacy and on-prem data systems by rationalizing, simplifying, and converting their existing data logic into an **ordered** state in the cloud.

Once the fundamentals are in place and validated, Hakkōda works with client teams to optimize their Snowflake environment and extract actionable **insight** from their data—building out reporting and analytics functionality along the way.

To help customers actualize the full potential of their modernized data stack after a successful migration, Hakkōda works closely with internal stakeholders to chart a course for **innovation**. This final stage in the data maturity journey includes game-changing, outcome-oriented use cases like AI integrations and direct data monetization on the Snowflake Marketplace.

The **Traditional** Migration Path

Lift and Shift Rarely Works

Rationalize & Model

A migration necessitates understanding the core processes of how the data lands into the current repository. This can include ETL pipelines, business governance transformations, data quality, data validation, data operations, and more.

High Human
Low Machine

Rationalize & Reconnect

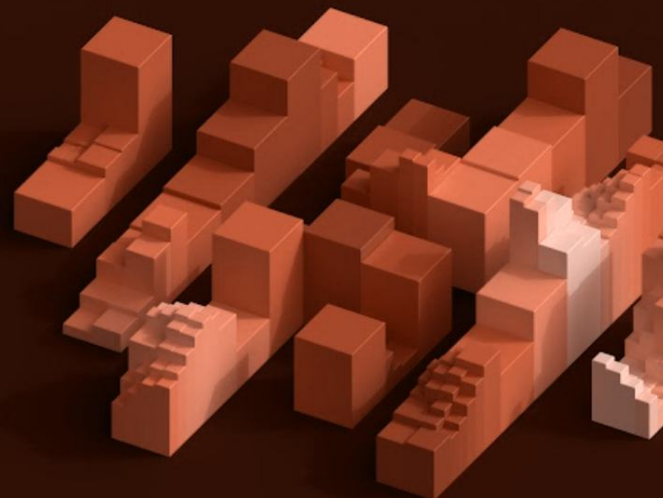
Once a new model exists and has been populated - how do existing points of consumption get fed? Are they still valid? Are there logical schemas and calculations that are better served going back to the model? How can you digest thousands of reports and applications to determine what stays and how?

High Human
Low Machine

Convert Code & Entities

Code conversions exist across multiple vendors - Snowflake foremost, with SnowConvert. The key to a successful migration is understanding what needs to be migrated, rationalizing an optimal data model, and then converting code and entities into the new model.

Low Human
High Machine



Refactored Migration At Pace and Scale

Better Together with SnowConvert & AI Automation

Rationalize & Model



- AI CoPilots to rationalize legacy ETL pipelines and logic
- AI generated optimized Snowflake model(s)
- Automated DAGs to streamline stages, loads, and pipelines
- Automated validation of migration pipelines and results

Rationalize & Reconnect



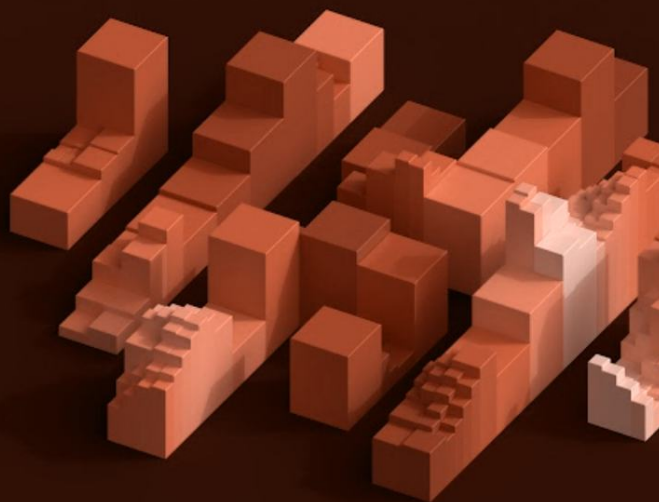
- AI CoPilots to rationalize reports and dashboards
- AI generated optimized analytical models
- AI Support Engineers for optimization and L&D
- Automated query performance tuning again legacy systems

End-to-End Optimized Human and Machine Acceleration

Convert Code & Entities



- Snowflake Professional Services
- Migration Readiness (MRA)
- SnowConvert Toolset
- RMAs and RSAs to facilitate optimization and training
- Scale with Hakkoda resources



Hakkōda's Migration + Modernization Approach



Inventory & Complexity Assessment

Assess complexity of migration, code conversion, refactoring - Code Conversion Assessment.

Create inventory of analytic workloads (tables, scripts, procedures, ETL jobs, reports, dashboards, etc.)

Align inventory to key data domains to align to priority roadmap for migration.

Review modernization deliverables output and incorporate into prioritization exercise.



Assessment & Framework

Assess current data modeling, data governance, data quality approaches and standards.

Establish standards and maturity levels for data architecture and current tooling and usage.

Align data domains to maturity levels and assign standards for data architecture.

Review and align analytical requirements by data domain, functional area, assessing internal / external need and downstream system impacts.



Architecture & Modernization Plan

Deliver workload based roadmap for migration.

RFI that outlines workload priority and target state architecture and operating model.

Outline team structure and model to support migration efforts.

Build high-level timelines and estimated costs of migrations.

Outline training needs for IT and business to ensure adoption and change management.



Roadmap

Assess current data modeling, data governance, data quality approaches and standards.

Establish standards and maturity levels for data architecture and current tooling and usage.

Align data domains to maturity levels and assign standards for data architecture.

Review and align analytical requirements by data domain, functional area, assessing internal / external need and downstream system impacts.

Hakkōda's Migration Toolkit



Rationalize

Assess complexity of migration, code conversion, refactoring - Snowflake Code Conversion Assessment

Create inventory of analytic workloads (tables, scripts, procedures, ETL jobs, reports, dashboards, etc.)

Align inventory to key data domains to align to priority roadmap for migration

Using AI generates a list of potential risks during the migration and a natural language description of what every object does.



Convert

Hakkoda proprietary code conversion tool powered by python and small language models.

Intakes SAP, SQL, XML, SAS, etc files, parses out all necessary information, converts code into desired end state, returns results.

Results include: converted code, dependency and lineage tracing, comparison between source and target code via DDL, transparency on business logic that did not convert & how to overcome.



Validate

Migration validation tool. Python code base. installable on any compute unit with network access to the databases to compare.

Design to run based on schedule to parallel test legacy system vs migrated code and data.

Column level comparisons, expandable functionality. Connectivity with Netezza, Oracle, SQL Server, Teradata.

Generate log tables that can be use as a source for a reporting tool to share with client and QA teams.

Accelerated Snowflake Migrations

60%

cost reduction on
Snowflake vs.
legacy platforms.

10x

speed to migrate
with Snowflake
accelerators and
Hakkoda IP.

85%

increase in query
efficiency on
Snowflake vs. legacy
platforms.



Hakkoda's data migration
service is more than just a
one-time transfer to the cloud.

Accelerate

data integration across
business users.

Streamline

operational efficiency
and cut costs.

Transform

your data into your most
valuable asset.

Hakkōda's Migration Advantages

Experience that Scales

Migrations are complicated, multi-stakeholder events. Align your team with the aid of experts who've been there, armed with AI copilots designed to speed up the process without sacrificing quality control.

Say Goodbye to Manual Slow Down

Leverage AI-powered solutions that eliminate costly manpower and the risk of human error, as well as custom accelerators built with for your industry's top challenges in mind.

Test & Review All in One place

Execute queries, test, iterate, improve, and compile metrics... all in one place, with automation for support.

Govern & Grow with Your Org

Create access, role-based controls, and the framework you need to enable users across every department in your organization. Leverage AI-powered accelerators for smarter, more scalable data governance and master data management.

The Bottom Line:

Data modernization means a lot more than just moving everything into the cloud. To succeed in a shifting digital marketplace, you need a migration strategy that scales with your business while slashing project timelines, eliminating grueling manual ETL processes, and delivering immediate returns on your data stack investments. You need a data strategy that charts your whole organization on a path toward sustainable growth, that unlocks new sources of revenue, and that sets the foundation for AI innovation. Finally, you want to work with a trusted data partner that understands your objectives, your customers, and your business.

Hakkōda's refactored migration approach is built with a blend of agility, longevity, and cost-effectiveness in mind. We understand the urgency many industries feel to catch up and keep up with frontrunners in their respective markets, and we understand the talent and tooling gaps they need to fill to get there. That's why we've built each of our verticals with the express mission of guiding enterprises in complex and tightly regulated industries on their path to data maturity and beyond.

Ready to begin your Data Innovation Journey?

Learn more about Hakkōda's refactored and accelerated Snowflake migrations at hakkoda.io.

About Hakkōda

Hakkōda is a modern data consultancy, helping companies harness cloud platforms and AI capabilities. We combine deep industry expertise, a focus on data innovation and our own IP to drive results in complex organizations.



Industry Expertise

 Healthcare & Life Sciences

 Supply Chain & Logistics

 Financial Services & Insurance

 Retail & CPG

 Public Sector

In-Timezone Support

