Haneya™ Greenfield Migration Solution for SAP S/4HANA

A Strategic Path to Clean, Modern, and Sustainable SAP Transformations

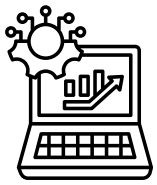
Updated as of Feb 12, 2026

Executive Summary

For many organizations, migrating to **SAP S/4HANA** presents both enormous opportunity and substantial risk. Legacy complexity, outdated data, and decades of customizations can slow projects, inflate costs, and reduce confidence in outcomes.

Haneya™ Greenfield Migration Solution from Visionsoft reimagines ERP transformation — applying automation, advanced analysis, and execution accelerators to enable clean, efficient, and lower-risk greenfield migrations to SAP S/4HANA.

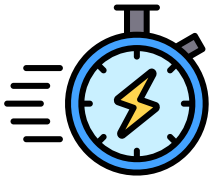
Haneya empowers IT teams to:



Establish a modern, optimized ERP foundation

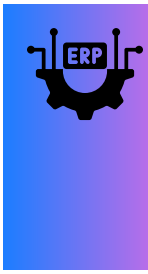
Automate critical migration processes

Reduce manual effort and project risk



Deliver faster time-to-value

This white paper outlines Haneya's business value, technical approach, and real outcomes for enterprises transitioning to SAP S/4HANA.



Understanding Greenfield Migration

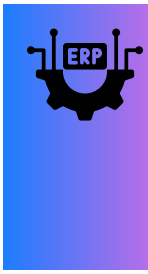
A **greenfield migration** means creating a brand-new SAP S/4HANA environment rather than lifting and shifting an existing system. This is ideal when:

- Legacy ERP systems are heavily customized
- Process excellence and redesign are priorities
- Data quality is inconsistent
- Long-term agility and innovation are strategic goals

Unlike brownfield, which retains old artifacts and customizations, greenfield starts fresh — enabling organizations to rethink processes and adopt SAP best practices.

Key Business Drivers

- *Modernize core financial, supply chain, and operations processes*
- *Reduce technical debt carried forward from legacy systems*
- *Improve integration with modern platforms and cloud services*
- *Establish a future-ready digital core*



Challenges of Traditional Greenfield Projects

Despite the clear benefits, greenfield migrations face common hurdles:

Manual and Resource-Intensive Tasks

Traditional migrations often spend massive hours on manual data assessment, cleansing, and reconciliation.

Data Quality and Validation Gaps

Inaccurate or incomplete data can surface as issues late in the project, leading to delays.

Risk and Compliance Exposure

Lack of automated governance increases risk, especially in regulated industries.

Limited Automation Support

Out-of-the-box tools can only go so far — custom scripting and manual work remain commonplace.

Haneya is designed to remove these pain points through automation and intelligent process orchestration.

Haneya Solution Overview

Haneya™ Greenfield Migration Solution provides a structured, automated, and repeatable approach to enterprise SAP migrations.

Core Capabilities

✓ **Automated System Assessment**
Intelligently analyzes existing landscapes to build a complete readiness profile.

✓ **Data Profiling and Cleansing**
Identifies data gaps, inconsistencies, and quality issues ahead of migration.

✓ **Transformation Orchestration**
Enables automated transformation, staging, and reconciliation.

✓ **Quality Validation and Audit**
Ensures the target S/4HANA system meets business readiness criteria.

✓ **Compliance Support**
Built-in governance checkpoints help maintain regulatory compliance and auditability.

These capabilities reduce human effort and provide clear insight into migration readiness and progress.

How Haneya Works : Lifecycle Overview

Haneya operationalizes greenfield migrations through a set of structured phases:

Phase 1 : Discovery & Baseline

- Connect to existing systems
- Profile data, configurations, and custom objects
- Build a readiness scorecard

Phase 2 : Data Cleanse & Prep

- Identify quality flags
- Apply cleansing rules
- Prepare master and transactional data

Phase 3 : Transformation

• Execute automated transformation pipelines
• Stage intermediate outputs
• Monitor progress

Phase 4 : Validation & Audit

• Run automated quality checks
• Report issues
• Provide dashboards for stakeholders

Phase 5 : Cutover Support

• Assist with final data loads
• Coordinate go-live sequences
• Ensure minimal disruption

Through automation and analytics, Haneya reduces repetitive work, frees up technical resources, and increases project predictability.

Differentiators : Why Haneya

Haneya distinguishes itself from traditional migration approaches and standard tools through:

Automation-First Approach

Significant reduction in manual effort.

Built-in Validation

Quality checks at every stage.

Governance and Compliance

Audit trails and checkpoint rigour.

Scalable Architecture

Designed for complex enterprise landscapes.

Repeatability

Reusable patterns for future migrations and consolidations.

Haneya AI

Intelligent SAP ABAP Generation · Eclipse · GitHub · S/4HANA / BTP Clean Core Pipeline

Haneya AI operates as a seamless, approval-gated pipeline — converting raw SAP project requirements into Eclipse-ready, GitHub-reviewed, and S/4HANA / BTP-deployed ABAP code through nine automated stages.

PHASE 1 — AI-Powered Specification & Code Generation (Steps 01–06)

01 STEP

Requirement Gathering

AI reads SAP scope documents (PDF / Word / Notes), identifies requirements, and categorises them by SAP module (FI, CO, MM, SD, PP, HR) for Brownfield & Greenfield projects.

- Supports multi-format document ingestion
- Auto-classification by SAP module
- Handles Brownfield & Greenfield scopes

▼ Functional Specification Generation

02 STEP

Functional Specification (FS) Generation

Auto-generates structured Functional Specifications including required IMG configurations, custom developments (Reports, Enhancements, Forms), and test scenarios.

- IMG configuration mapping
- Custom development categorisation — Reports, Enhancements, Forms
- Auto-generated test scenario outlines

▼ FS Approval Workflow

03 STEP

FS Approval Workflow

FS is routed to the designated approver. Approved → proceeds to Technical Document. Rejected → author notified with comments, revises and resubmits.

- Role-based approval routing
- Rejection with inline comments
- Automatic resubmission loop

▼ Technical Document Generation

04 STEP

Technical Document (TD) Generation

Generates TD using latest SAP technologies: RAP, BTP, CDS Views, FIORI Elements, OData, BOPF. Flags deprecated ECC objects for remediation.

- RAP, BTP, CDS Views, FIORI Elements, OData, BOPF coverage
- Deprecated ECC object flagging
- Auto-remediation recommendations

▼ TD Approval Workflow

05 STEP

TD Approval Workflow

TD routed to designated approver. Approved → ABAP Code Generation. Rejected → author notified, revises and resubmits.

- Approval with single-click progression

- Rejection with structured comments
- Version-controlled resubmission

▼ ABAP Code Generation

06
STEP

ABAP Code Generation

Haneya AI produces Eclipse ADT-ready ABAP code that is RAP-compliant, BTP-integrated, and HANA-optimised — surpassing GitHub Copilot in SAP-native code accuracy.

- Eclipse ADT-ready output — developer imports with zero restructuring
- RAP-compliant & BTP-integrated architecture
- HANA-optimised queries and data models
- Clean Core compliant — no modifications to SAP standard

PHASE 2 — Eclipse Integration · GitHub Quality Review · S/4HANA / BTP Deployment (Steps 07–09)

07 Eclipse ADT Integration

Generated ABAP code is pushed directly into Eclipse ADT (ABAP Development Tools), enabling developers to immediately review, adapt, and test in their native IDE.

- One-click import of Haneya AI-generated ABAP objects into Eclipse ADT workspace
- Auto-mapping of classes, function modules, CDS views, and RAP business objects to Eclipse project structure
- Syntax check and activation run automatically on import
- Developer can fine-tune business logic, add custom extensions, or annotate code within Eclipse
- GitHub Copilot available inside Eclipse for additional AI-assisted code suggestions alongside Haneya output
- Full ADT debug, trace, and ABAP Unit Test integration for pre-transport validation

▼ Quality Review via GitHub

08 Quality Review using GitHub

Eclipse-validated ABAP code is committed to a GitHub repository, triggering an automated quality review pipeline before promotion to the SAP landscape.

- Developer commits Eclipse-validated code to a feature branch in the project GitHub repository
- GitHub Actions CI/CD pipeline triggers automatically: static code analysis, ABAP linting rules, and naming convention checks
- GitHub Copilot provides AI-powered code review suggestions directly within Pull Requests
- Peer review gate — designated reviewers must approve the PR before merge; rejected PRs loop back to Eclipse for correction
- Code coverage enforcement: ABAP Unit Test results uploaded and tracked per commit
- Security scan: checks for hard-coded credentials, missing authority checks, and SQL injection patterns
- Audit trail maintained in GitHub for every change — full traceability from Haneya AI requirement to deployed object

▼ Deploy to S/4HANA / BTP — Clean Core Execution

09 Deploy to S/4 HANA / BTP — Clean Core Execution

GitHub-approved code is transported into the SAP S/4HANA system and / or deployed to SAP Business Technology Platform (BTP) following Clean Core principles — zero modification of standard SAP objects.

- Automated SAP Transport Request creation from approved GitHub PR — no manual SE09/SE10 steps

- Clean Core validation gate: confirms all custom objects use only released SAP APIs (C1-released, BTP-released, RAP extensions only)
- S/4HANA transport chain: DEV → QAS → PRD with system-specific approval at each hop
- BTP deployment path: MTA (Multi-Target Application) build generated for BTP Kyma / Cloud Foundry runtimes where applicable
- OData & FIORI Elements services auto-registered in SAP API Management on BTP post-deployment
- Post-deployment smoke tests triggered automatically — key transactions and Fiori apps validated against test scripts generated in Step 02
- Real-time deployment status dashboard surfaced back into the Haneya AI portal for full end-to-end visibility

PHASE 3 — Human Oversight & Final QA (Step 10)

10
STEP

Code Review & QA

Developer performs a final review of the complete pipeline output, validates business logic end-to-end, runs regression test cases, and approves for production transport. Human oversight is built into every stage.

- Final business logic validation by functional and technical leads
- Regression test execution across all affected SAP modules
- Sign-off gates at Functional Spec, Technical Doc, Eclipse, GitHub, and Transport levels
- Complete audit trail from requirement through to production deployment

Why Haneya AI?

Competitive Advantages

- #1 SAP ABAP generator — superior SAP-native code accuracy vs. GitHub Copilot alone
- Eclipse ADT-ready output — developer imports and adapts, not builds from scratch
- GitHub-integrated quality gate — CI/CD, peer review, security scan, and full audit trail
- S/4HANA 2025 ready & Clean Core compliant — released APIs only, zero standard modifications
- BTP-native — RAP, CDS, FIORI Elements, OData, and MTA deployment out of the box
- Approval workflows with rejection & resubmit at every stage
- 4× faster specification delivery
- 90% reduction in manual documentation effort
- End-to-end traceability: requirement → Eclipse → GitHub → S/4HANA / BTP

End-to-End Pipeline at a Glance

Step	Stage	Owner	Key Output
01	Requirement Gathering	Haneya AI	Categorised SAP requirements
02	FS Generation	Haneya AI	Functional Specification + test scenarios
03	FS Approval Workflow	Approver / Author	Approved FS or revision request

Step	Stage	Owner	Key Output
04	TD Generation	Haneya AI	Technical Document with SAP tech stack
05	TD Approval Workflow	Approver / Author	Approved TD or revision request
06	ABAP Code Generation	Haneya AI	Eclipse ADT-ready ABAP code package
07	Eclipse ADT Integration	Developer + AI	Validated, syntax-checked ABAP objects
08	GitHub Quality Review	CI/CD + Peer Review	Approved PR with full audit trail
09	S/4HANA / BTP Deployment	DevOps / Basis	Production-deployed Clean Core objects
10	Final Code Review & QA	Tech / Functional Lead	Sign-off & production release

Conclusion

Migrating to SAP S/4HANA is a strategic journey that demands precision, governance, and automation. Haneya Greenfield Migration Solution provides enterprises with a structured, high-confidence path to modernize their ERP and realize the full potential of SAP's intelligent suite.

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