



Flow One-Pagers

Heliconia Labs ApS

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Introduction

With [abapGit flow](#), [Heliconia Labs](#) provides an end-to-end development and deployment process for SAP ABAP systems. It brings modern software delivery practices to ABAP: Git-based collaboration, pull requests, quality gates, code review, and independent changes that can move safely toward production.

Together with open tooling, this creates a modern workflow where feedback is visible early, quality is built in, and ABAP code becomes accessible to contemporary engineering tools. This foundation is essential for successful LLM implementations, where clean versioned code, automated checks, and repeatable workflows determine how effectively AI can assist.

Across all of these topics, the focus is developer experience and productivity: fewer manual checklists, clearer review context, faster feedback, and workflows that let SAP developers work with the same confidence and ergonomics as the rest of the engineering organization.

The following one-pagers highlight the workflows and focus areas that make this foundation practical, actionable, and ready to adopt: build quality in, automate test data and scenarios, review changes with LLM assistance, inner source across teams, onboard developers faster, roll back with confidence, build on open tooling instead of walled gardens, keep security simple with SAP-initiated communication and no new infrastructure, govern clean core decisions, monitor repository health, and sequence transports with preview deployments.

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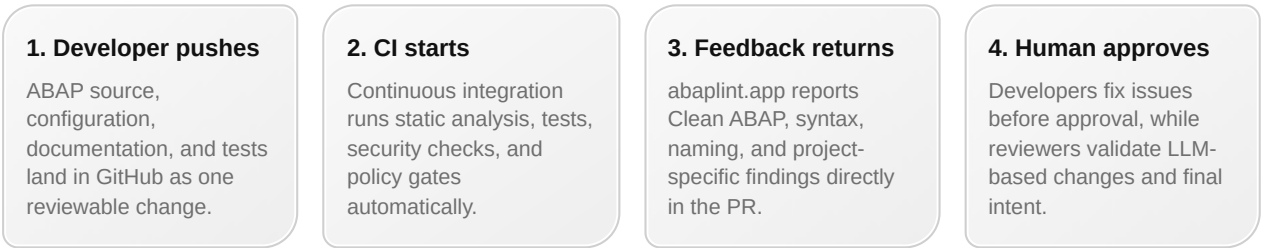
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Quality Built In

Make SAP quality part of the development workflow instead of a late project phase. Continuous integration runs the same checks every time a change is proposed, so developers do not need to remember what to run and teams get objective feedback before review, testing, transport sequencing, or release decisions become expensive.

With [abaplint.app](#), ABAP static analysis becomes fast, configurable, and visible in the pull request. Developers see issues while the code is still fresh, reviewers get cleaner evidence, and quality standards become daily habits. For LLM-based changes, the same gates keep humans in the loop before code moves forward.

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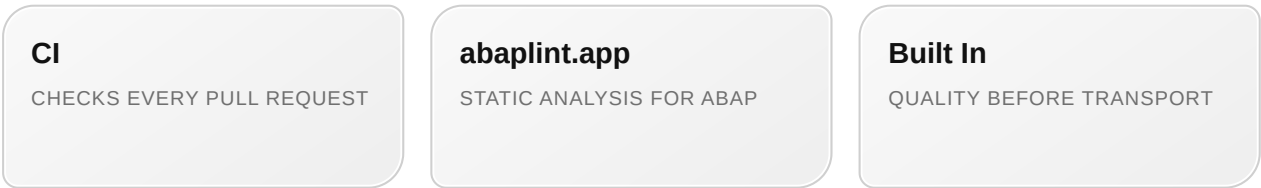


WHY IT MATTERS

- Shift feedback left: problems surface at commit and pull request time, not during transport or production validation.
- No checklist burden: developers do not need to remember which commands, static analysis, or test suites to run.
- Consistent standards: every change is checked against the same automated rules before expert review time is spent.

SAP FIT

Quality gates complement SAP transport discipline by adding earlier evidence. abaplint.app, abapGit, unit tests, and repository documentation form an open, inspectable toolchain that supports both ECC and S/4HANA work without locking teams into a closed quality process.

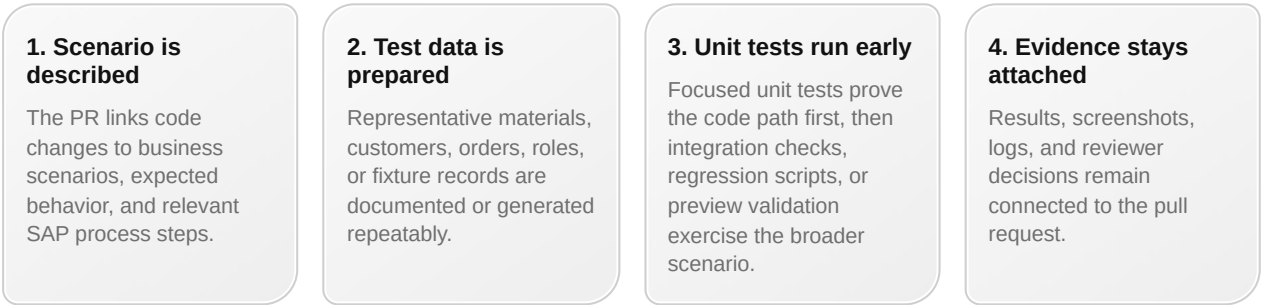


Test Data and Scenario Automation

Make SAP testing repeatable by treating unit tests, test scenarios, expected outcomes, and representative test data as part of the development workflow.

Quality gates prove that code can pass checks, but business confidence also depends on realistic process paths. Pull requests can connect code changes with unit test coverage, scenarios, data, and evidence needed to show that the behavior works before release pressure builds.

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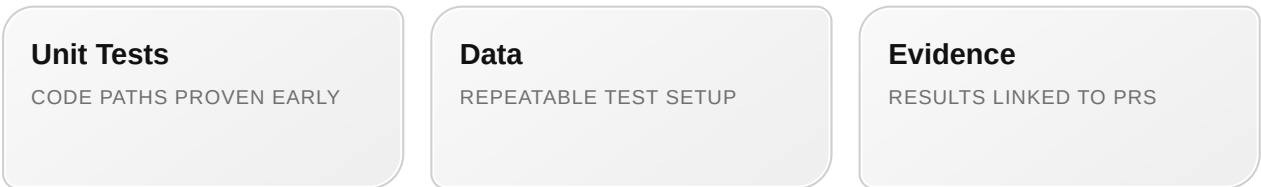


WHY IT MATTERS

- Earlier defect discovery: unit tests catch logic regressions before full SAP scenario validation is needed.
- Repeatable validation: teams reduce manual retesting of the same SAP process paths.
- Clearer business review: reviewers can see expected behavior, relevant data, and proof of execution.
- Better AI guardrails: LLM-assisted changes must prove behavior, not only syntax or style.

SAP FIT

SAP changes often depend on realistic business data and process context. Connecting ABAP code, unit tests, scenario descriptions, test data, automated checks, and review evidence in GitHub makes validation easier to repeat across ECC, S/4HANA, and preview environments.

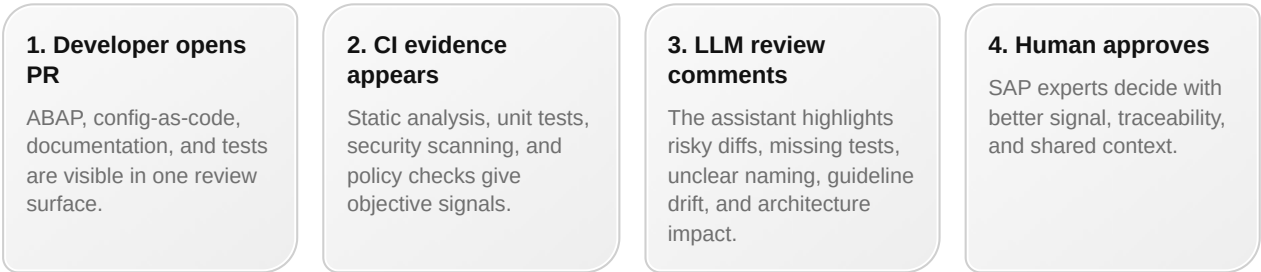


LLM-Based Code Review for SAP Changes

Bring fast, consistent review feedback into the GitHub pull request before SAP experts spend their time.

A reviewer gets cleaner ABAP, clearer context, and fewer avoidable defects. The team keeps the four-eyes principle, with an AI assistant handling the first pass. The LLM provider is replaceable: use the model that fits the risk, data, and enterprise sourcing requirements.

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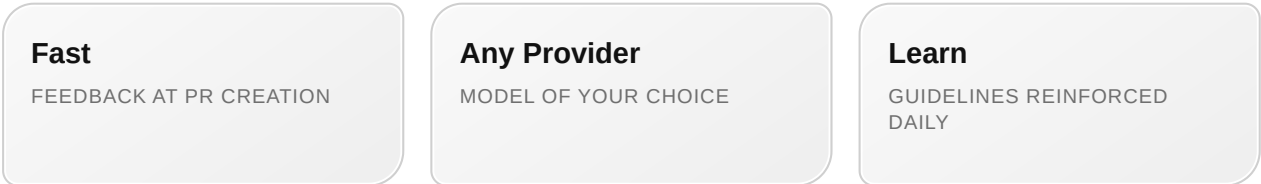


WHY IT MATTERS

- Higher review quality: consistent first-pass checks against Clean ABAP, local SAP guidelines, and PR evidence.
- Shift feedback left: comments arrive while the developer still has the change in working memory.
- Better use of experts: senior reviewers focus on architecture, business risk, and SAP-specific judgment.
- Auditable decisions: every suggestion, response, approval, and human override stays attached to the pull request.

SAP FIT

Complements a standard pull request process and a GitHub-based platform direction. It builds on CI evidence, open tooling, and repository-based documentation. Keeps accountability with the human approver while enabling real autonomous first-pass analysis from any suitable provider.

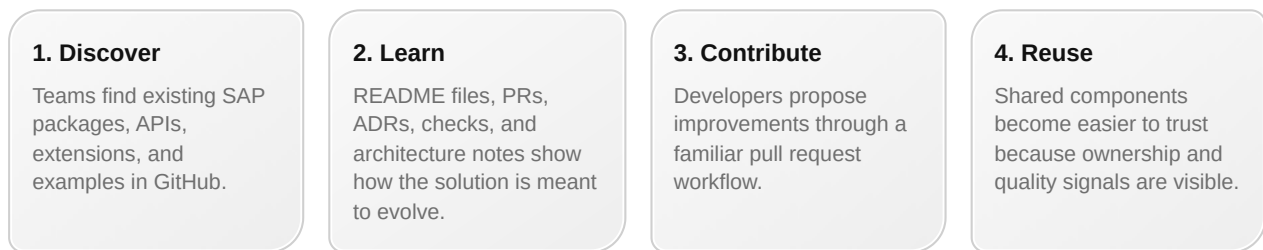


Inner Sourcing for SAP Teams

Use GitHub pull requests to make SAP knowledge discoverable, reusable, and easier to improve across teams.

SAP development stops being hidden in isolated systems and becomes part of the shared engineering ecosystem, helping teams upskill into normal software delivery habits without reinventing a separate SAP-only wheel.

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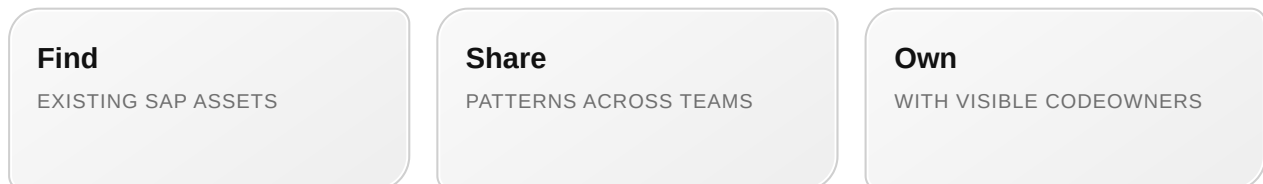


WHY IT MATTERS

- Less duplicate work: teams can see and reuse existing solutions before creating another variant.
- Better onboarding: new SAP developers learn from real repositories, reviews, accepted patterns, and visible architecture decisions.
- Stronger ownership: CODEOWNERS, branch protection, and PR review make responsibility explicit.
- Cross-domain collaboration: non-SAP engineers can contribute documentation, APIs, tests, and automation.

SAP FIT

Fits organizations that have standardized on GitHub for development transparency. Supports ABAP and non-ABAP assets in one collaboration model. Gives SAP teams a practical path into modern engineering habits without losing review governance or creating a walled garden.



Developer Onboarding and Enablement

Make SAP development easier to join, understand, and improve by moving knowledge into repositories, pull requests, automated checks, and repeatable workflows.

New developers, consultants, and cross-functional engineers should not depend on tribal knowledge as the main interface to the SAP landscape. Repositories can show how the system is organized, which standards apply, who owns what, and how a change moves safely from idea to production.

FLOW

1. Repository explains

README files, package structure, ADRs, examples, and ownership metadata show how the solution is organized.

2. Checks teach standards

abaplint.app, CI, tests, and PR templates reinforce local rules every time a developer contributes.

3. Reviews share context

Pull requests make naming, architecture, business intent, and SAP-specific tradeoffs visible.

4. Developers contribute

New contributors learn from working examples, early feedback, and repeatable delivery paths.

WHY IT MATTERS

- Faster onboarding: developers learn from real repositories, accepted patterns, review history, and automated feedback.
- Less expert dependency: teams reduce reliance on a few long-tenured SAP specialists for everyday delivery knowledge.
- Standards in daily work: Clean ABAP, local conventions, security expectations, and testing habits are reinforced continuously.
- Reusable learning material: pull requests, comments, checks, and documentation become examples for the next contributor.

SAP FIT

Supports the move from SAP-only delivery habits to shared engineering practices without losing SAP-specific guidance. Helps ABAP developers, consultants, architects, and non-SAP engineers understand the same repository evidence, quality gates, ownership model, and release path.

Learn

STANDARDS VISIBLE IN REPOSITORIES

Contribute

GUIDED BY PRS AND CHECKS

Scale

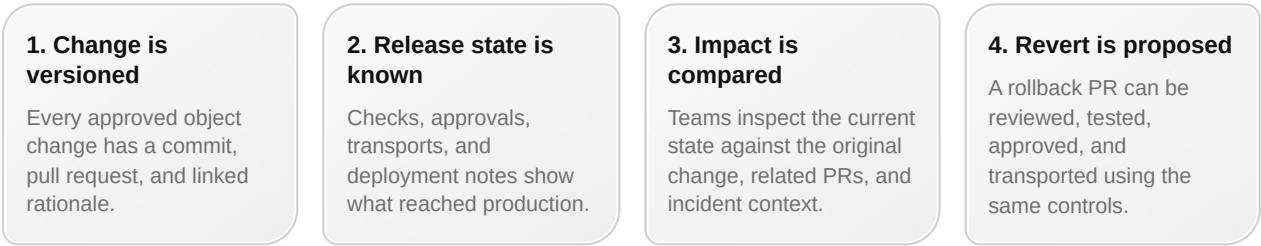
LESS RELIANCE ON TRIBAL KNOWLEDGE

Easy Rollback with GitHub as the Change Memory

Make every SAP change easier to understand, compare, and reverse by keeping the source, review, and release evidence in GitHub.

Rollback becomes a prepared operational path, not an emergency reconstruction exercise. Teams can compare production state with reviewed source, understand why a change moved forward, and propose a controlled revert using the same pull request workflow.

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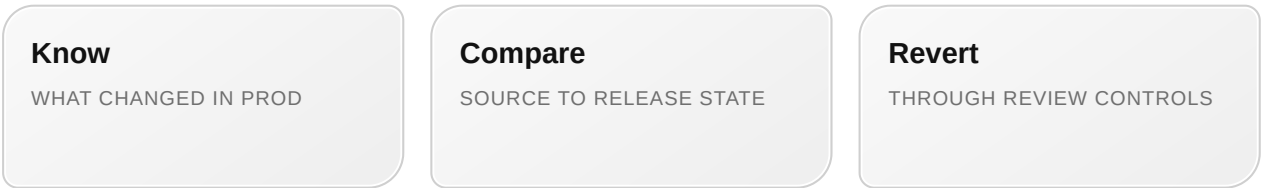


WHY IT MATTERS

- Less production stress: teams can compare production state, understand change history, and create a controlled revert path.
- Clear accountability: rollback decisions use the same transparent PR evidence as forward changes.
- Lower recovery time: fewer manual investigations across transports, screenshots, and local notes.
- Reusable patterns: rollback playbooks become repeatable across ECC, S/4HANA, and side-by-side extensions.

SAP FIT

Supports SAP transport discipline while adding modern version comparison and revert workflows. Helps separate source rollback decisions from deployment orchestration and environment constraints. Improves audit readiness by connecting commits, PR approvals, checks, releases, transports, and incident response.

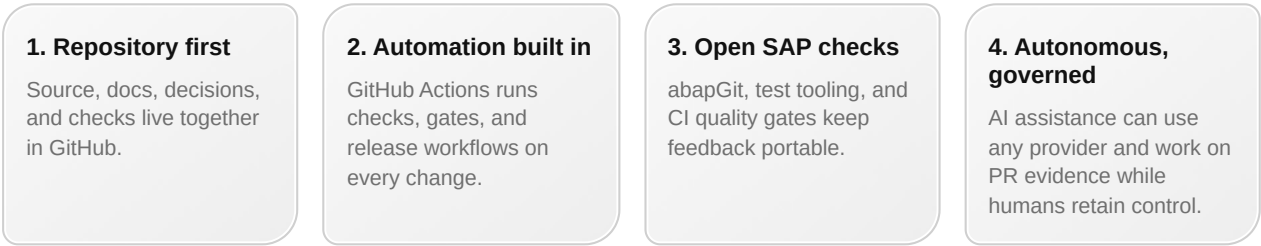


GitHub and Open Tooling

This approach builds on proven platform choices: GitHub for inner sourcing, GitHub Actions for automation, and open tooling for SAP developer feedback.

This is not a new isolated SAP platform. It is an extension of the engineering platform already chosen for transparency, collaboration, and automation, based on open tooling with a proven track record.

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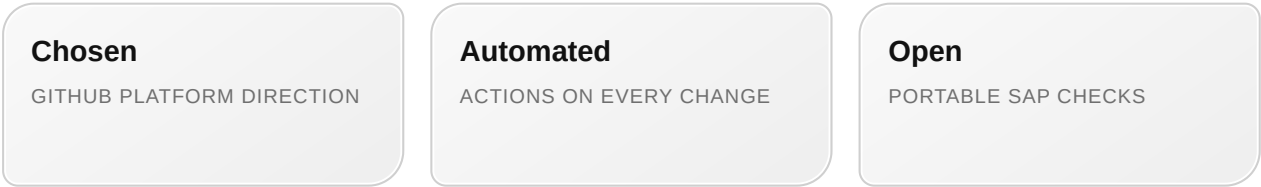


WHY IT MATTERS

- Reuse proven choices: for many organizations GitHub is already the consolidated engineering platform, and SAP development can join it.
- Avoid vendor lock-in: open tooling keeps checks inspectable, portable, proven, and easier to evolve.
- Meet teams where they work: PRs become the shared control point for review, quality, security, progress monitoring, and learning.

SAP FIT

Supports both ECC and S/4HANA transition needs by making code and decisions visible outside SAP GUI boundaries. Connects SAP governance with enterprise DevSecOps without forcing feedback into a closed SAP-only tool. Creates a platform for future automation, including real autonomous agents, Copilot-style assistance, and other provider-neutral LLM options.

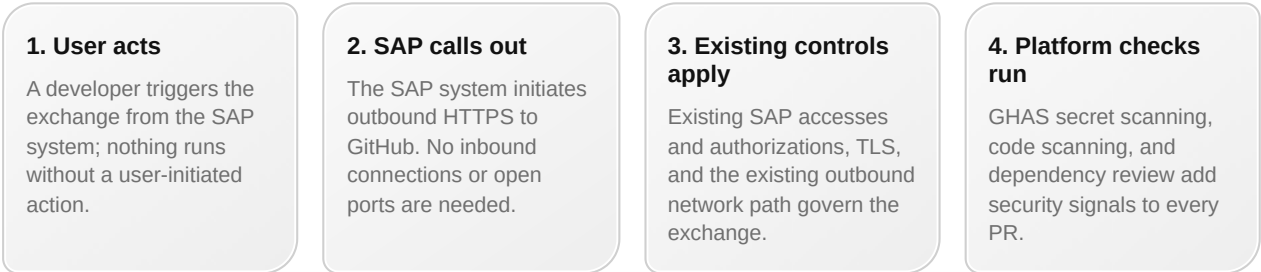


Security

Adopt abapGit flow without changing the security posture of the SAP landscape. There are typically no changes to network or VPN setup, no SAP Basis setup, and no additional infrastructure to run: no servers, agents, or middleware to install, operate, patch, or audit.

The SAP system initiates all communication, triggered by user actions and using each developer's existing accesses and authorizations. Nothing connects into the SAP system from outside, and no third-party component holds standing access. On the platform side, GitHub Advanced Security adds secret scanning, code scanning, and dependency visibility to every pull request.

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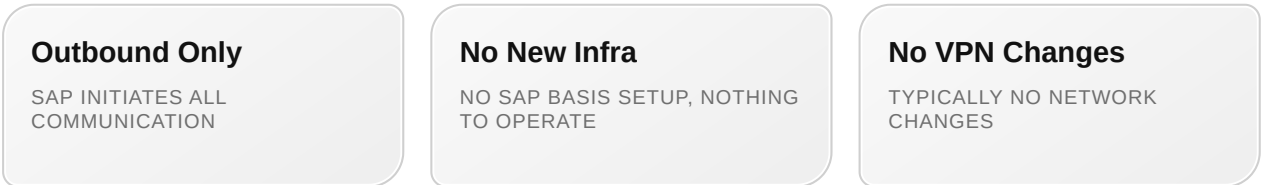


WHY IT MATTERS

- Small attack surface: outbound-only communication means no inbound connectivity, no open ports, and no standing agents in the landscape.
- Fast security approval: with typically no firewall, network, or VPN changes to negotiate, adoption does not stall in infrastructure projects.
- Nothing new to operate: no SAP Basis setup and no additional servers to size, patch, monitor, or certify — existing SAP and GitHub operations cover it.
- No new access model: developers work with their existing accesses and authorizations, so authorization concepts and audits stay unchanged.

SAP FIT

Communication uses the SAP system's standard outbound HTTPS capabilities and runs in the context of the acting user with existing accesses and authorizations. Security review can focus on a single outbound connection to GitHub instead of a new platform footprint, and the model is the same for ECC and S/4HANA.

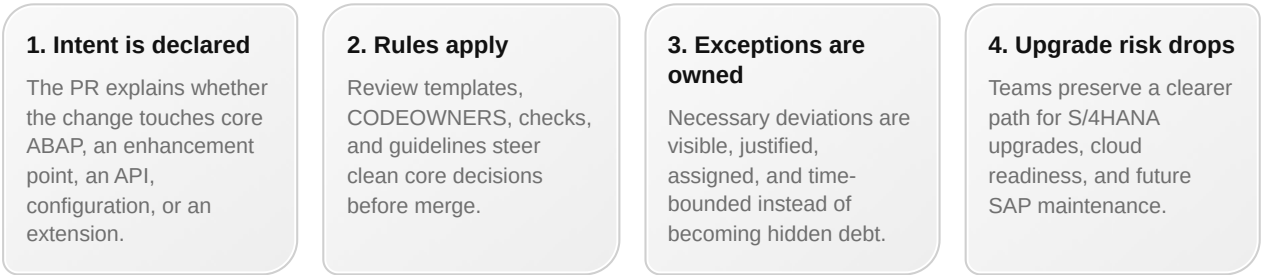


Clean Core and Extension Governance

Use GitHub-based review and automation to make SAP clean core decisions visible, deliberate, and repeatable.

Teams should be able to see when a change belongs in standard configuration, an ABAP enhancement, a side-by-side extension, an API, or a temporary exception. Clean core becomes practical when architectural intent is reviewed before implementation choices harden.

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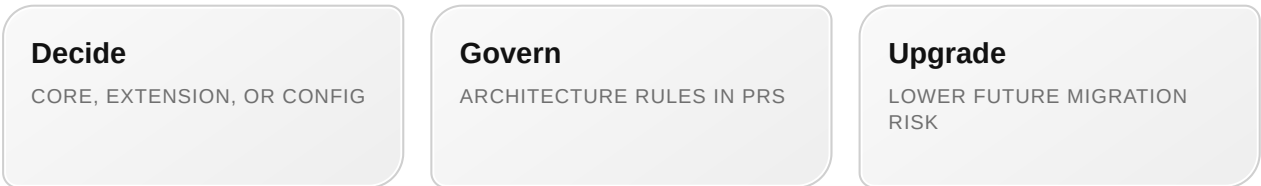


WHY IT MATTERS

- Practical clean core: architecture guidance appears in the pull request, not only in strategy documents.
- Lower upgrade risk: custom ABAP, modifications, and exceptions become easier to identify and manage.
- Lightweight governance: architects get a review point without slowing every low-risk change.
- Visible rationale: teams can compare extension options and understand why a decision was made.

SAP FIT

Supports ECC-to-S/4HANA transition work by connecting abapGit flow with enterprise architecture. Every change can be reviewed not only for correctness, but also for where it should live in the SAP landscape and how it affects future maintainability.

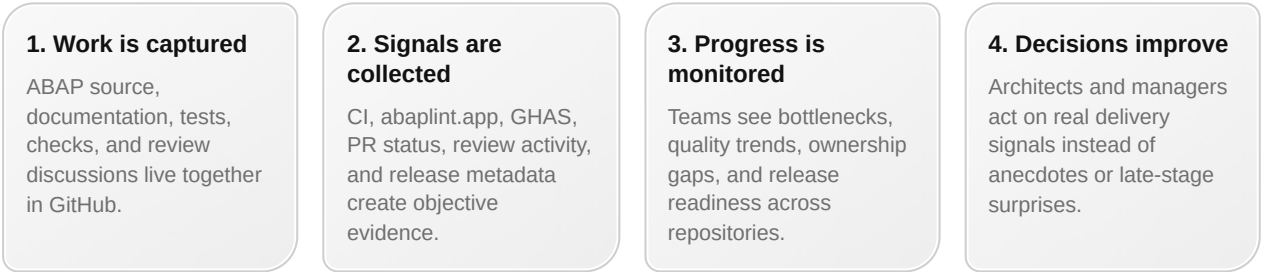


Repository Health and Progress Visibility

Turn SAP development from a hidden transport queue into an observable engineering system. GitHub repositories, pull requests, CI checks, review activity, security findings, and release signals make progress visible without asking teams to maintain separate status decks.

Repository health gives architects, leads, and managers a shared view of delivery quality. Teams can see where work is blocked, which changes carry risk, whether ownership is clear, and how modern SAP engineering habits are being adopted over time.

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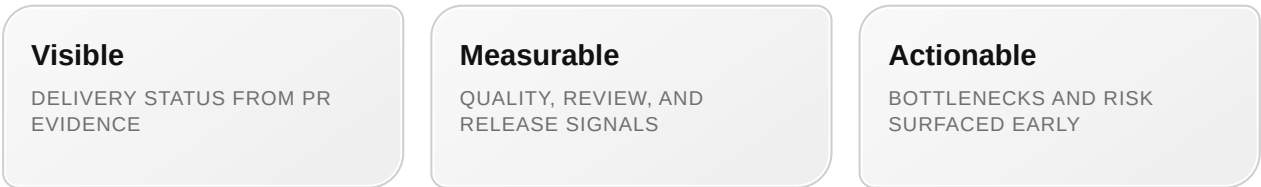


WHY IT MATTERS

- Transparent delivery: SAP progress becomes visible through the normal pull request and release workflow.
- Less reporting overhead: status comes from real engineering activity instead of separate manual updates.
- Earlier risk signals: review queues, failing checks, unclear ownership, and risky changes surface before release pressure builds.
- Continuous governance: architecture and quality discussions can happen from repository evidence, not only in meetings.

SAP FIT

Complements SAP transport governance by showing the health of the work before it reaches release planning. Connects ABAP repositories, CI evidence, security signals, ownership, and deployment context into one inspectable view that supports both team-level improvement and leadership-level adoption tracking.

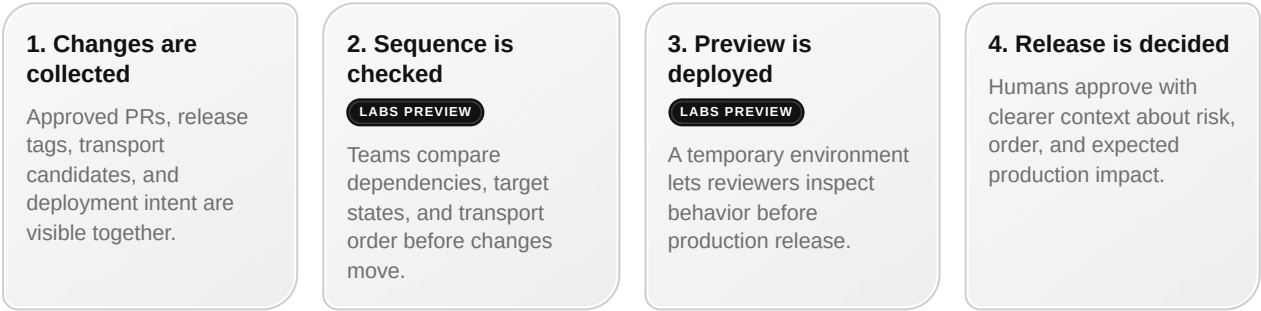


Transport Sequencing and Preview Deployments

Make SAP releases easier to reason about before production by showing planned changes, dependencies, transport order, and preview evidence in one workflow.

Transport sequencing **LABS PREVIEW** helps teams see what can move, what must wait, and what release state they are targeting. Preview deployments **LABS PREVIEW** give reviewers a temporary environment to inspect change behavior before production release. Impact analysis **LABS PREVIEW** highlights the expected production effect before approval.

FLOW



WHY IT MATTERS

- Fewer release surprises: dependencies and ordering issues become visible before transports move.
- Better review evidence: reviewers inspect behavior and release context, not only source diffs.
- Safer transport planning: release state and transport intent become explicit.
- Stronger rollback readiness: known source and deployment state make reversals easier to reason about.

SAP FIT

Complements SAP transport discipline by adding GitHub-based visibility before release. Keeps transport execution governed while giving teams earlier insight into dependency order, release state, and preview behavior.

