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# 1 Development Philosophy: Iterative Delivery at Scale

## 1.1 Executive Summary

This document outlines a development philosophy centered on **disciplined iteration**, **semantic versioning**, and **team coordination**. Rather than theoretical principles, it presents evidence from 3.5+ years of sustained GitHub activity demonstrating production-oriented software development.

The core thesis: **small, frequent releases with automated versioning reduce coordination overhead and deployment risk**—directly applicable to Strata Space's December 2025 and July 2026 milestones with 3 parallel squads.

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## 1.2 Release Discipline: Evidence from Production

### 1.2.1 Project History

Project	Duration	Commits	Releases	Pattern
rsr-fsa	3.5+ years	34	-	Long-term simulation
claude-code	10 months	375	-	CLI tooling, 288 active days
scripts	6 months	205	-	macOS automation ecosystem
cc-skills	2+ months	955+	150+	18 plugins, 100+ skills (industry standard)
netstrata	27 days	118	34	Responsive iteration (1.3/day)
gapless-crypto	73 days	187	10	PyPI published, CI/CD automated
alpha-forge	42 days	81	-	42 ADRs (architecture-first)

### 1.2.2 Key Observations

1. **Sustained activity, not recent burst:** The oldest project (rsr-fsa) dates to March 2022. This represents 3.5+ years of continuous development across financial modeling, automation, and data engineering domains.
2. **Commit discipline:** In the netstrata project, 127 of 132 commits occurred on unique dates (96.2%)—evidence of daily, disciplined work rather than bulk commits.

3. **Release velocity scales with need:** cc-skills achieved 150+ releases over 2+ months with sustained intensity (955+ commits), while gapless-crypto maintained 10 releases over 73 days for a production PyPI package. The methodology adapts to project phase.
  4. **Industry standard adoption:** cc-skills implements Agent Skills—now adopted by 8+ major AI coding tools including Claude Code, GitHub Copilot, Cursor, and OpenAI Codex. Skills transfer across tools—no vendor lock-in.
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## 1.3 Commit Hygiene Examples

All projects follow Conventional Commits with semantic-release automation:

```
feat.skills: add clickhouse-architect skill for schema design
fix(validation): correct ALP codec recommendation per ClickHouse docs
docs(adr): link release notes to architecture decisions
chore(release): 2.30.0 [skip ci]
refactor(config): centralize environment variables via mise [env]
```

**Why this matters for Strata Space:** When 3 squads work in parallel, consistent commit conventions enable:

- Automated changelog generation (no manual release notes)
- Clear attribution of changes across modules (DMS vs Tasks vs Time Recording)
- Version tracking that supports staged rollouts

### 1.3.1 Git Workflow Enforcement

Beyond commit conventions, git-town-workflow plugin blocks raw git commands requiring standardized equivalents:

Blocked Command	Use Instead
git checkout -b	git town hack
git pull	git town sync
git merge	git town sync
git rebase	git town sync

**Safe operations allowed:** git add, git commit, git status, git log, git diff

**Why this matters for Strata Space:** 8 new Manila developers + 3 squads follow consistent branching patterns from day 1. Prevents “cowboy coding” that can emerge when teams scale rapidly.

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## 1.4 Architecture Decision Records (ADRs)

### 1.4.1 Evidence: 42 ADRs in alpha-forge

The alpha-forge project maintains 42 formal Architecture Decision Records documenting technical trade-offs. Sample titles:

- 2025-11-17-e2e-first-testing-strategy.md — Quantified analysis: 2.6:1 maintenance-to-implementation ratio
- 2025-11-14-dsl-simplification-v04.md — Breaking change management with migration path
- 2025-11-17-plugin-metadata-management.md — Ecosystem coordination patterns

### 1.4.2 Why ADRs Support Squad Coordination

ADRs create **decision traceability** that benefits:

1. **Onboarding**: New team members understand *why* decisions were made, not just *what* was built
2. **Squad alignment**: When Squad A's decision affects Squad B's module, the rationale is documented
3. **Future refactoring**: Six months later, the team knows whether to preserve or change a pattern

### 1.4.3 Session Recording for Context Capture

ADRs document decisions; asciinema-tools captures the exploration that led to them:

- **950:1 compression**: 3.8GB terminal session → 4MB searchable text
- **Onboarding use**: “Watch how I debugged the DMS migration issue” with full terminal context
- **Streaming backup**: Real-time backup to GitHub orphan branch (no lost sessions)

**Why this matters for Strata Space**: When senior developers solve complex issues, capture the full context for future reference. ADRs alone cannot convey the debugging process—session recordings can.

### 1.4.4 Terminology Consistency

Vale glossary management enforces consistent terminology as Single Source of Truth (SSoT):

- 3 squads use same terms: “lot owner” vs “unit holder”, “strata plan” vs “scheme”, “by-law” vs “bylaw”
- New developers adopt correct terminology automatically
- Hooks detect when different CLAUDE.md files define terms inconsistently

#### 1.4.5 Sample ADR Structure (MADR 4.0)

```
--  
status: accepted  
date: 2025-11-17  
decision-maker: terrylica  
consulted: [team members, Claude Code analysis]  
research-method: Web research + codebase metrics  
--  
## Context and Problem Statement  
[Quantified problem with metrics]  
## Decision Drivers  
[Prioritized criteria]  
## Considered Options  
[Option A, B, C with trade-offs]  
## Decision Outcome  
[Chosen option with rationale]
```

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## 1.5 Application to Strata Space

### 1.5.1 December 2025 Milestone (Complete)

**Challenge:** 3 squads delivering DMS, Tasks, and Time Recording simultaneously to 120+ internal users.

**How iterative release discipline helps:**

- Each squad releases independently when their module is ready
- Semantic versioning tracks which features are in which build
- Automated changelogs reduce Tom's coordination overhead
- Rollback granularity: if Tasks has issues, DMS/Time Recording continue

**Status:** December 2025 delivered. Post-crunch stabilization underway.

### **1.5.2 July 2026 Milestone**

**Challenge:** Buildings, Asset Management, Strata Manager Dashboard—targeting 90-95% of workload in Strata Space.

**How ADR discipline helps:**

- Architecture decisions documented before implementation
- Breaking changes planned with migration paths
- New squad members onboard faster with decision context
- Compliance documentation generated from release history

### **1.5.3 Reducing “Big Bang” Risk**

Ted's observation: "*120 people, hey, there's a problem here*" when encountering screen changes.

**Iterative approach reduces this risk by:**

- Validating each module with a subset of users before company-wide rollout
- Catching integration issues between squads early (not at final merge)
- Providing rollback points if adoption issues emerge

**Code Quality Enforcement:**

itp-hooks catches silent failures before they reach production:

- Bare except: (hides KeyboardInterrupt)
- subprocess without check=True (silent failures)
- NOT cosmetic issues (unused imports, PEP8 style)

This addresses Ted's concern about AI producing “garbage”—every commit is validated for runtime correctness, not stylistic preferences.

**Cross-Module Integration Validation:**

Symmetric dogfooding validates modules against each other before release:

- DMS module exports → Buildings module imports (and vice versa)
- December release validated against July development
- Squad A changes don't break Squad B's consumption

**Example for Strata Space:** Before releasing DMS changes, run integration tests against Buildings module. If Buildings has pending changes, test against their feature branch too. Catches cross-squad integration failures before production.

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## 1.6 Verify on GitHub

**Profile:** [github.com/terrylica](https://github.com/terrylica)

Each repository's commit history is publicly visible. Notable repositories for verification:

Repository	What to Verify
cc-skills	64 releases in 9 days, semantic-release automation
gapless-crypto-clickhouse	PyPI publishing, GitHub Actions CI/CD
netstrata	34 releases, responsive iteration to feedback

## 1.7 Summary

This development philosophy is not theoretical—it's demonstrated through:

- **3.5+ years** of sustained GitHub activity
- **955+ commits** in cc-skills ecosystem (18 plugins, 100+ skills)
- **42 ADRs** documenting architectural decisions
- **96.2% unique commit dates** showing disciplined daily work
- **Industry standard adoption:** Agent Skills work across 8+ AI coding tools

For Strata Space, this translates to:

- Reduced coordination overhead for Tom's 3 parallel squads
- Clear version tracking for July 2026 staged rollout (December 2025 complete)
- Decision traceability that accelerates onboarding
- Risk mitigation through smaller, more frequent releases
- Cross-module validation before releases (symmetric dogfooding)
- Consistent terminology across squads (Vale glossary management)