

Agentic SDLC: Enterprise Framework Design & Pilot Implementation

Motivation

AI coding assistants are on your developers' desks — but without governance, adoption stays fragmented: context overload, monolithic prompts, duplicated configurations, unbounded agents, and no visibility into AI contributions. Retrofitting AI into existing processes reinforces these inefficiencies; the lifecycle itself must be redesigned.

An Agentic SDLC embeds AI into every phase — specifications, delivery, and operations — through three disciplines: structured prompting, reusable agent primitives, and strategic context management. The result: consistent, auditable AI-assisted development at scale.

What we bring

As a GitHub strategic partner with day-one experience in AI-driven development, PRODYNA combines 20+ years of enterprise software and platform engineering with hands-on Agentic SDLC expertise. Our frameworks are anchored to emerging open standards, ensuring portability across AI coding agents.

We bring:

- **Proven methodology** for assessing agentic maturity and designing governed frameworks
- **Deep expertise** in context engineering, agent primitives architecture, and prompt supply chain security
- **Experience designing MCP governance** with trust boundaries and approval workflows
- **A collaborative approach:** we advise and assure quality — your teams build

What you need

- Stakeholders from engineering, platform, and security for workshops
- One team willing to serve as pilot
- Access to existing SDLC processes, CI/CD pipelines, version control, and AI tooling
- Executive sponsorship and a day-to-day sponsor with decision authority



Benefits

- **Prompt supply chain security.** Primitives scanned before deployment; lock files pin exact versions.
- **Clear accountability.** AI contributions tagged and auditable; agents operate within explicit boundaries.
- **Governed at scale.** Enterprise-wide framework with managed context, composable primitives, and defined agent boundaries.
- **Dependency-managed configurations.** One manifest per project — fully configured, version-pinned agent setup.
- **Measurable maturity.** Concrete metrics: reproducible setup, registry adoption, team independence.
- **Independence by design.** Trained champions and peer-led enablement — your team operates independently before we leave.



Quick facts

- Duration: 9–13 weeks
- Tool-agnostic: anchored to open standards
- Advisory model: your teams own the outcomes
- Produces operational frameworks, not just strategy documents



What you get

PRODYNA provides methodology, facilitation, architectural expertise, and quality gates — your teams perform the implementation and own the outcomes. Our deliverables include:

- Enterprise current-state report and gap analysis
- AI Primitives Registry architecture (agents, instructions, skills, workflows, hooks, spec templates)
- MCP Registry architecture with approval workflows and trust boundaries
- Governance model covering prompt hygiene, artefact accountability, and compliance
- CoE operating model and target SDLC process design
- Operational pilot registries, PoC report, enablement materials, scale-out blueprint, and final pilot report

PRODYNA will guide your teams through the following phases:

PHASE	ACTIONS
1 — Enterprise Review (3–4 wks)	<ul style="list-style-type: none"> • SDLC Process Mapping: Map end-to-end processes across specifications, delivery, and operations — including toolchain and platform readiness for AI framework hosting. • AI Usage Audit: Catalogue where and how AI is used across the organisation — tools, process steps, documented vs. improvised usage. • Maturity Assessment: Assess AI-native maturity per unit against a five-level model, from ad-hoc prompting to governed AI platform. • Primitives Inventory: Catalogue existing reusable AI configurations — instructions, agents, skills, workflows, hooks, MCP servers — and identify duplication and gaps. • CoE Readiness: Evaluate whether a Centre of Excellence function exists, its mandate, staffing, and authority to set standards. • Gap Analysis: Identify gaps between current state and governed enterprise framework requirements.
2 — Framework Design (2–3 wks)	<ul style="list-style-type: none"> • AI Primitives Registry: Architect a governed collection of reusable AI configurations — agents, instructions, skills, workflows, hooks, spec templates — with contribution, review, versioning, and retirement workflows. • MCP Registry: Design a centralised catalogue of approved MCP servers with approval workflows, trust classifications, access controls, and usage monitoring. • Governance & Security Model: Establish artefact accountability, prompt hygiene rules, content security scanning, primitive supply chain security with dependency resolution and version pinning. • Target SDLC Processes: Redesign lifecycle processes so AI actively drives planning, decomposition, and execution while humans validate at defined decision points — with agent-executable specification formats throughout. • CoE Operating Model: Specify mandate, structure, contribution model, and evolution cadence for the framework governance unit.
3 — Pilot Implementation (4–6 wks)	<ul style="list-style-type: none"> • Deploy Registries: Stand up operational Primitives and MCP Registries scoped to the pilot team but structured for enterprise extension. • Execute PoC: Run a bounded backlog item end-to-end using the framework — success criterion: the team repeats the process independently. • Establish CoE Seed Team: Activate the CoE operating model, run the first primitive contribution cycle, and conduct the first MCP server approval. • Enablement Programme: Deliver practice-based enablement using real pilot artefacts — teams learn by executing, not from documentation, with trained internal facilitators. • Scale-Out Blueprint: Document repeatable onboarding model including champion activation — pilot engineers onboard a non-pilot team before engagement ends.

Note: This is our standard methodology. We are happy to modify and adapt to the specific needs of your organization.

Get started

To learn about pricing and how to get started, please contact info@prodyna.com.

About PRODYNA

PRODYNA designs and operates AI-enabled business systems. Agentic SDLC is a core practice, and the company serves the needs of corporations and enterprises across the European continent. For more information, please visit www.prodyna.com.