

C3 Code

A New Paradigm in Enterprise AI

The only environment that combines autonomous agentic coding with the full depth of the C3 Agentic AI Platform, to develop, deploy, configure, and operate Enterprise AI applications and autonomous agents.

DEVELOPER PRODUCTIVITY	PROMPT TO PRODUCTION	FTE REDUCTION	ENTERPRISE AI APPLICATION PACKAGES
Up to 100x	In Hours to Days	Up to 5 → 1	40+

What is C3 Code?

C3 Code is the agentic development layer within C3 AI Studio on the C3 Agentic AI Platform. It is fully LLM-agnostic — designed to work with any leading large language model, including Claude (Anthropic), Codex/GPT (OpenAI), Gemini (Google), Grok (xAI), Mistral, and Llama (Meta), as well as purpose-built coding models and any capable model that emerges. Organizations select the model that best fits their requirements, C3 Code orchestrates it; C3 Code operates as a self-contained development environment within C3 AI Studio.

What any LLM or coding tool gains when operating through C3 Code is something no general-purpose environment provides: deep, native intelligence of the C3 Agentic AI Platform — the C3 AI Type System and domain-specific language (DSL), 40+ production-hardened enterprise application packages, domain AI algorithms, ML pipeline infrastructure, and the full C3 AI architectural corpus built over a decade of enterprise deployments.

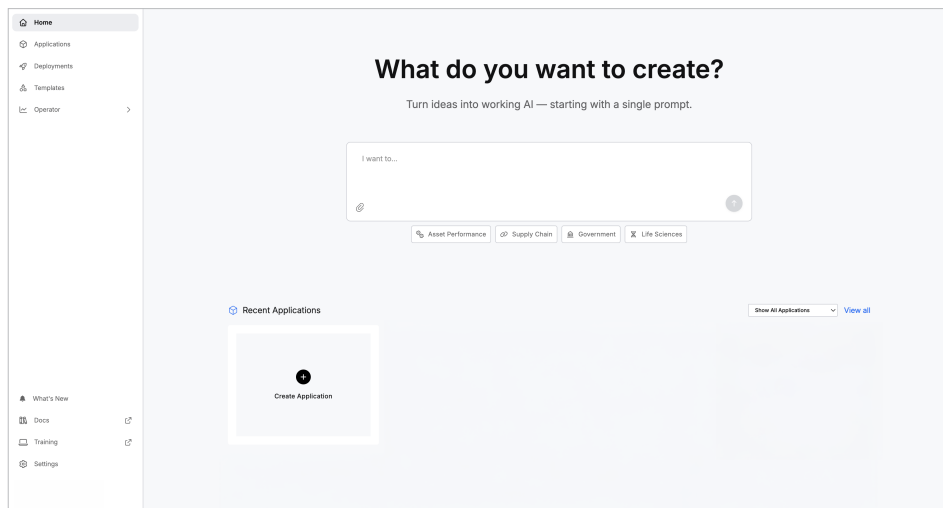


Figure 1. C3 Code allows end users to build production-ready Enterprise AI applications using natural language.

Key Capabilities

- **Autonomous, Full-Stack Development.** Natural language to deployed, production-grade enterprise AI application — covering data integration, type modeling, ML pipelines, agentic workflows, React UI, access control, and governed deployment. All from one environment.
- **LLM-Agnostic.** C3 Code works with any leading large language model — Claude, Codex, GPT, Gemini, Grok, Mistral, Llama, and others. Model and toolchain selection is never constrained.
- **C3 AI Type System & Domain-Specific Language.** Agents generate, validate, and extend C3 AI Types — the foundational building blocks of the C3 Agentic AI Platform. Output is production-grade from the first commit, not a prototype requiring rework.
- **40+ Enterprise AI Application Packages.** Pre-built, validated domain applications for Oil & Gas, Manufacturing, Utilities, Defense, Healthcare, Financial Services, and more. Agents extend them — applications are not built from a blank canvas.

The result is **autonomous agentic programming at enterprise scale**. A business analyst or solution engineer describes a requirement in natural language; C3 Code's agents design, build, configure, test, and deploy a production-grade enterprise AI application. This is not assisted development. It is a new paradigm: AI designing and building Enterprise AI.

Enterprise AI: Beyond Development

Enterprise AI has historically been treated as a software development problem. Building and deploying AI applications — however complex — represents only part of the value. The larger opportunity is in operating those applications: running autonomous agents and agentic workflows that perform continuous, complex work across the enterprise.

C3 Code addresses both. It accelerates application development and deployment, and it enables the configuration and operation of autonomous agents that execute meaningful business work — optimizing inventory levels, updating demand forecasts, adjusting production schedules, triaging equipment anomaly alerts, managing supply chain exceptions, and coordinating multi-system workflows — without human intervention at each step.

These are not generic automation tasks. They require domain knowledge, access to production-grade predictive algorithms, integration with enterprise data systems, and the ability to act on structured business logic. C3 Code's combination of enterprise application packages, pre-built domain AI algorithms, agentic process automation (APA), and the C3 Agentic AI Platform provides exactly this foundation — enabling a class of autonomous enterprise AI agents that general-purpose platforms cannot deliver.

Key Capabilities (cont.)

- **Production Domain AI Algorithms.** A library of domain-specific algorithms — anomaly detection, predictive maintenance, demand forecasting, production scheduling, computer vision — deployed at scale across Fortune 50 enterprises. Agents configure and extend them.
- **ML Pipelines & Agent Ops.** Configure feature engineering, model training, inference routing, and agent ops natively. Standard pipeline configurations require no ML engineering resources.
- **Parallel & Concurrent Agentic Execution.** C3 Code can configure C3 AI Agentic Process Automation (APA) to support agent execution in applications — multiple agents running across data sources, models, and business processes.
- **Retrieval & Generative AI.** Structured and unstructured retrieval pipelines via C3 Generative AI modules. The C3 AI Dynamic Planning Agent deployable into any application context.
- **Production Operations AI.** Monitoring of data ops, processing jobs, queue health, and agent ops. Degradation is flagged before users notice — operations overhead drops significantly.
- **Enterprise Security & Governance.** Applications inherit the C3 Agentic AI Platform's security model: enterprise-grade access control, data governance, audit trails, and compliance — architectural, not add-on.

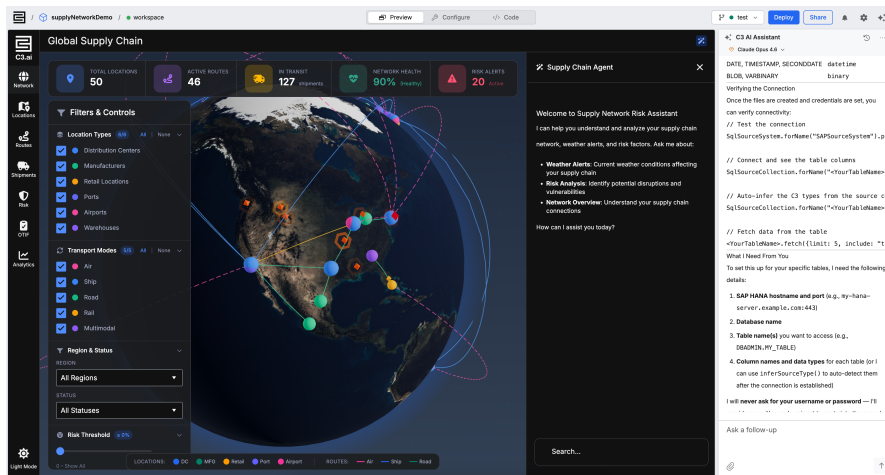


Figure 2. From natural language prompting, C3 Code generates a fully functional supply chain intelligence application — complete with an interactive map, live data filters, and an embedded AI agent — ready for enterprise deployment.

C3 Code vs. General-Purpose Coding Agents

C3 Code delivers every capability of any leading agentic coding agent — and adds the enterprise layer that only C3 AI can provide.

Capability	General-Purpose Coding Agents	C3 Code
Agentic Code Generation & Editing	✓	✓
Multi-Language (Python, JavaScript)	✓	✓
IDE & Git Integration (VS Code)	✓	✓
Web-based Coding Interface	✓	✓
LLM-Agnostic: Works with Claude, Codex/GPT, Gemini, Grok, Mistral, and More	—	✓
Autonomous End-to-End Agentic Programming	—	✓
C3 AI Type System: Generate, Validate, Extend	—	✓
C3 AI Domain-Specific Language Authoring	—	✓
Data Integration & Virtualization (e.g., Snowflake, Databricks, Oracle, Salesforce)	—	✓
40+ Enterprise Application Packages	—	✓
Production Domain AI Algorithms	—	✓
ML Pipeline Configuration & Agent Ops	—	✓
Agentic Process Automation	—	✓
Domain-Specific AI Employee Enablement	—	✓
Structured & Unstructured Retrieval Pipelines	—	✓
One-Click Deployment	—	✓
Guardrails & Controlled Agent Execution	—	✓
Agent Evaluations & Audit Trails	—	✓
Enterprise Security & Granular Access Control	—	✓
Production Operations Monitoring	—	✓
C3 AI Corpus: Docs, APIs, Architecture, Community	—	✓

Agentic Capabilities

Agentic Skill	Category	Business Outcome
<p>Data Integration & Virtualization</p> <p>Connects to Snowflake, Databricks, Salesforce, Oracle, and more. Agents profile metadata, map to C3 AI Canonicals, and author transforms automatically.</p>	Data Ops	Weeks of manual ETL eliminated
<p>C3 AI Type System & Domain-Specific Language</p> <p>Generates, extends, and validates C3 AI Types — the foundational architecture of C3 AI applications. Production-grade output from day one.</p>	Platform Native	Production-ready types from first commit
<p>Domain AI Algorithms & ML Pipelines</p> <p>Configures and extends domain-specific algorithms — anomaly detection, predictive maintenance, demand forecasting, production scheduling, computer vision.</p>	ML Native	Proven algorithms in production, not notebooks
<p>Agentic Process Automation (APA)</p> <p>Configures multi-step, multi-system agentic workflows using C3 AI Object Models — both sequential pipelines and parallel agent execution. C3 AI APA coordinates task decomposition and result aggregation automatically.</p>	Agentic AI	Execution across enterprise processes
<p>Retrieval & Reasoning Agents</p> <p>Configures structured and unstructured retrieval pipelines via C3 Generative AI modules. Deploys the C3 AI Dynamic Planning Agent into new or existing application contexts.</p>	Gen AI	Governed enterprise knowledge retrieval
<p>Full-Stack UI & Access Control</p> <p>Authors React UI components — KPI tiles, charts, dashboards, geospatial maps, data entry. Manages user groups and data rights.</p>	Full Stack	Complete applications, not just backend logic
<p>Governed Deployment</p> <p>Deployment pipelines push applications to staging or production with deployment status, logs, and resource metrics.</p>	DevOps	Days from prompt to governed production
<p>Production Operations AI</p> <p>Monitoring of data ops, processing jobs, queue health, and agent ops.</p>	Ops AI	Environment and application monitoring; lower ops cost

The C3 AI Advantage

C3 Code’s differentiation is a compounding stack built across a decade of Enterprise AI deployments. It cannot be replicated by configuring a general-purpose agent with prompts.

<p>DOMAIN ONTOLOGIES</p> <p>40+ Enterprise AI Application Packages</p> <p>When a user types “show pump vibration trends,” C3 Code understands Pump, Vibration, and Failure Risk as first-class domain objects — not text strings. Pre-built, validated applications for Oil & Gas, Manufacturing, Utilities, Supply Chain, Defense, Healthcare, and Financial Services are native platform knowledge, available to any coding agent operating within C3 Code.</p>	<p>TYPE SYSTEM</p> <p>The C3 AI Type System: Architecture-Level Intelligence</p> <p>C3 AI Types manage database interactions, API generation, pipeline orchestration, and security enforcement as a unified model. Any agent operating in C3 Code generates Types that are production-grade — not fragile prototypes. This architectural intelligence is unavailable in any general-purpose coding environment.</p>
<p>DOMAIN ALGORITHMS</p> <p>Production Domain AI: Deployed Across Fortune 50 Enterprises</p> <p>C3 Code agents configure and extend a library of domain-specific AI algorithms — anomaly detection, predictive maintenance, demand forecasting, production scheduling, and computer vision — validated across Oil & Gas, Manufacturing, Healthcare, Financial Services, Defense, and more.</p>	<p>C3 AI CORPUS</p> <p>Developer Docs, APIs, Architecture, Community Patterns</p> <p>C3 Code agents operate on the C3 AI architectural corpus: developer documentation, API references, training materials, community patterns, and application blueprints. Agentic coding models integrated into C3 Code have this knowledge accessible to them. Without C3 Code, it doesn’t exist.</p>

Openness by Design, No Technical Lock-In








C3 Code is architected to preserve organizational flexibility at every layer. The same platform that delivers deep Enterprise AI specialization is fully open with respect to models, toolchains, cloud infrastructure, and data systems.

<p>LLM & Model</p> <p>No dependence on any single AI model or provider. Switch between Claude, Codex/GPT, Gemini, Grok, Mistral, Llama, or any future model without re-engineering applications.</p>	<p>Developer Toolchain</p> <p>Use C3 Code standalone within C3 AI Studio or embedded in existing development workflows and IDEs.</p>	<p>Data & Infrastructure</p> <p>Connects to existing enterprise data systems — Snowflake, Databricks, Oracle, Salesforce, and others. Applications can run in secure, isolated environments or on customer- managed infrastructure.</p>	<p>Open Application Architecture</p> <p>Applications built with C3 Code are native C3 Agentic AI applications designed for open integration. Every object can be API-enabled, making applications services callable from anywhere in your enterprise ecosystem — and optionally MCP-enabled so other agents can interface with them directly.</p>
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The strategic implication: C3 Code’s enterprise depth — pre-built applications, domain algorithms, the C3 AI Type System, and the C3 AI corpus — is the source of its differentiation, not proprietary model or toolchain dependencies. Organizations adopt C3 Code because of what it knows and what it can do, not because switching costs make alternatives impractical.

Industry Coverage

Pre-built industry application packages and domain AI algorithms for the world’s most complex enterprise verticals. With C3 Code, agents can extend them, not build from scratch.

 <p>Manufacturing</p> <ul style="list-style-type: none"> Process Optimization Production Scheduling Inventory Optimization Demand Planning 	 <p>Oil & Gas</p> <ul style="list-style-type: none"> Asset Reliability Production Optimization Field Services Inspection Planning Sourcing Optimization 	 <p>Utilities</p> <ul style="list-style-type: none"> Grid Reliability Energy Management ESG & Regulatory 	 <p>Financial Services</p> <ul style="list-style-type: none"> Anti-Money Laundering Smart Lending Cash Management
 <p>Defense & Intel</p> <ul style="list-style-type: none"> Decision Advantage Readiness Optimization Intelligence Analysis Contested Logistics 		 <p>Healthcare & Life Sciences</p> <ul style="list-style-type: none"> Claims Approval Disease Prediction Call Center Support Clinical Intelligence 	 <p>Government</p> <ul style="list-style-type: none"> Correspondence Management Procurement Fraud, Waste, and Abuse Identification

Release Roadmap

Build → Operate → Improve

A progressive release architecture: from AI application development today to fully autonomous closed-loop application lifecycle.

<p>SPRING 2026</p> <p>AI Application Development</p> <ul style="list-style-type: none"> Data engineering Application ontology development Agent, agentic workflow, and AI/ML development Full configuration of C3 Generative AI applications UI development 	<p>SUMMER 2026</p> <p>Specification to AI Application</p> <ul style="list-style-type: none"> AI application development from product specifications Support to configure other existing C3 AI applications CI/CD pipeline integration Production ops AI agents 	<p>FUTURE RELEASES</p> <p>Autonomous Build-Operate-Improve</p> <ul style="list-style-type: none"> Operations feedback to automated code improvements Self-healing data pipelines Autonomous model retraining Closed-loop SDLC automation Expanded domain AI employee catalog
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Spring 2026 Release: Scope & Availability

<p>AVAILABLE IN SPRING 2026 RELEASE</p> <p>Generative AI & Agentic Applications</p> <ul style="list-style-type: none">• Full configuration of C3 Generative AI applications• AI agent development and deployment• C3 AI Agentic Process Automation (APA) configuration <p>Data Engineering</p> <ul style="list-style-type: none">• Connect to enterprise data sources• Author data integrations, virtualizations, and transforms• Extend objects models <p>AI/ML</p> <ul style="list-style-type: none">• Algorithms and ML pipeline authoring <p>Application UI</p> <ul style="list-style-type: none">• Develop and extend C3 AI applications built on the React UI framework• Author UI components: dashboards, KPI tiles, charts, geospatial maps, data entry forms	<p>UPCOMING CAPABILITIES</p> <p>Additional functionality planned for future releases includes:</p> <ul style="list-style-type: none">• Extension and modification of existing C3 AI applications with non-React UIs• Automated CI/CD pipeline integration• Autonomous production operations monitoring and remediation
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USE CASE 01: SUPPLY CHAIN INTELLIGENCE

Global Inventory Shortage Detection & Visualization

Prompt: “Analyze my global in-process inventory footprint and show me where my most critical inventory shortages are on the planet. Visualize it as part of my C3 AI Inventory Optimization application.”

01 Connect Data Sources: Agents scan C3 AI Objects in the C3 AI Inventory Optimization application — profiling SKUs, quantities, demand signals, facility locations, and replenishment lead times.

02 Extend the Inventory Ontology: Object model extended with inventory criticality tiers and shortage thresholds using C3 AI Types.

03 Configure Real-Time ML Scoring: Shortage severity scoring pipeline configured via C3 AI ML modules — ranking every facility and SKU by criticality using inventory levels, demand forecast, and supply lead time.

04 Deploy Geospatial Dashboard: React components — global map with color-coded shortage alerts, KPI tiles, and drill-down facility panels — deployed directly into C3 AI Inventory Optimization.

Outcome: Critical inventory gaps across 50+ global facilities in a single live view. Procurement decisions in hours, not weeks. A few prompts. Days to production grade.

Generative AI Application for Global Parts Visibility

Prompt: “Analyze my global supply chain inputs and provide me a new generative AI application for where my parts are.”

- 01 Ingest Supply Chain Data:** Agents connect to ERP, logistics APIs, freight carriers, and supplier portals. All inputs — purchase orders, shipment tracking, bill of lading, freight status — mapped to C3 AI Supply Chain Digital Twin canonicals.
- 02 Build the C3 AI Data Model:** Part, PurchaseOrder, Shipment, Supplier, and TransitEvent Types generated and linked. Industry Supply Chain entities extended with organization-specific fields.
- 03 Configure RAG Pipeline & Planning Agent:** Structured and unstructured retrieval pipeline deployed over parts and logistics data. The C3 AI Planning Agent answers natural language queries — “Where is PO-88234?”, “What parts are at risk of delay?”, “Which supplier is causing the most disruptions?” — with precise, live answers.
- 04 Deploy the Application:** Conversational chat interface, live parts tracking dashboard with status indicators, alert configuration, exception management workflows, and role-based access control — deployed to production on C3 Agentic AI Platform.

Outcome: Any stakeholder can ask “where is my part?” and get a precise, answer with proactive delay alerts. Built in days, fully governed, scales globally.

The Case for C3 Code

FOR BUSINESS LEADERS	FOR AGENTIC DEVELOPERS	FOR SOLUTION ENGINEERS
<p>Up to 100× Faster and 5× More Efficient.</p> <p>Enterprise AI that required a team of engineers and months of development now takes hours to days — and the applications include domain-specific AI employees that operate autonomously.</p> <ul style="list-style-type: none">• Faster time to production• FTE cost reduction• Deploy on proven production apps• No blank-canvas risk• ROI within first sprint	<p>Your Tools. Any Model. Enterprise Depth.</p> <p>LLM-agnostic — use Claude, Codex, Gemini, Grok, Mistral, Llama, or any capable model.</p> <ul style="list-style-type: none">• Native C3 AI Type & DSL generation• ML pipeline & agent ops ready• One-click governed deployment• Works with your existing toolchain• Automatic capability uplift as models improve	<p>Platform Expertise. At the Speed of AI.</p> <p>C3 Code knows the platform as well as your best C3 AI architect — and operates at the speed of AI. Extend C3 AI applications in hours to days; configure domain algorithms and autonomous workflows natively.</p> <ul style="list-style-type: none">• Extend 40+ C3 AI application packages• Connect Snowflake, Databricks, Oracle, Salesforce• Configure RAG, APA, planning agents• Production ops AI monitors post-deployment

Start Building. See C3 Code build a production application live. Visit C3.ai/get-started