

The Agentic AI & Vibe Coding Landscape

Why an Agentic Open Source Foundation Matters

Executive Briefing • February 2026

Executive Summary

Two converging forces — agentic AI and vibe coding — are fundamentally reshaping how software is written, reviewed, and deployed. By early 2026, AI agents autonomously write, test, and deploy code. Yet no foundation addresses the unique governance needs of AI-generated open source software.

\$47–93B

Agentic AI market
by 2030–2032

45%

AI-generated code
has vulnerabilities

60K+

Projects with
AGENTS.md

1B+

Lines of C/C++
to rewrite

The Agentic Open Source Foundation (AOSF) fills this gap — providing agentic-native governance for the vibe coding era. Not competing with existing foundations, but complementing them with AI code quality validation, security assurance, provenance tracking, and fair model evaluation.

01

The Agentic AI Landscape

Autonomous systems reshaping software development

What Is Agentic AI?

AI systems capable of autonomous action — pursuing complex goals, planning multi-step workflows, and interacting with tools and external systems without direct human intervention.

Goal Pursuit

Independently pursue complex objectives, set sub-goals, and iterate

Planning & Reasoning

Multi-step planning with real-time strategy adaptation

Tool Use

Interact with APIs, databases, code editors, and external systems

Self-Correction

Learn from errors and feedback to improve outputs

Multi-Agent

Orchestrate teams of specialized agents for complex tasks

Key Players in Agentic AI

Anthropic

Claude Code, MCP protocol creator
Model Context Protocol standard

Google

A2A protocol, Agent Development Kit
Donated A2A to Linux Foundation

Microsoft

AutoGen framework, GitHub Copilot
Event-driven multi-agent systems

OpenAI

Codex, Operator, ChatGPT agents
Planning & reasoning capabilities

Meta

LLaMA open models, CodeLlama
Open-weight model ecosystem

Open Source

LangChain, CrewAI, OpenClaw
Community-driven agent frameworks

Agent Protocols: MCP, A2A & AGENTS.md



MCP

Model Context Protocol

Created by Anthropic
"USB-C port for AI"

Agent → Tool communication

Adopted by Cursor, Windsurf,
Claude Code, AutoGen & more



A2A

Agent-to-Agent Protocol

Created by Google
Donated to Linux Foundation

Agent → Agent communication

Opaque execution, capability
discovery, task management



AGENTS.md

Repository Convention

Popularized by OpenClaw
Grassroots adoption

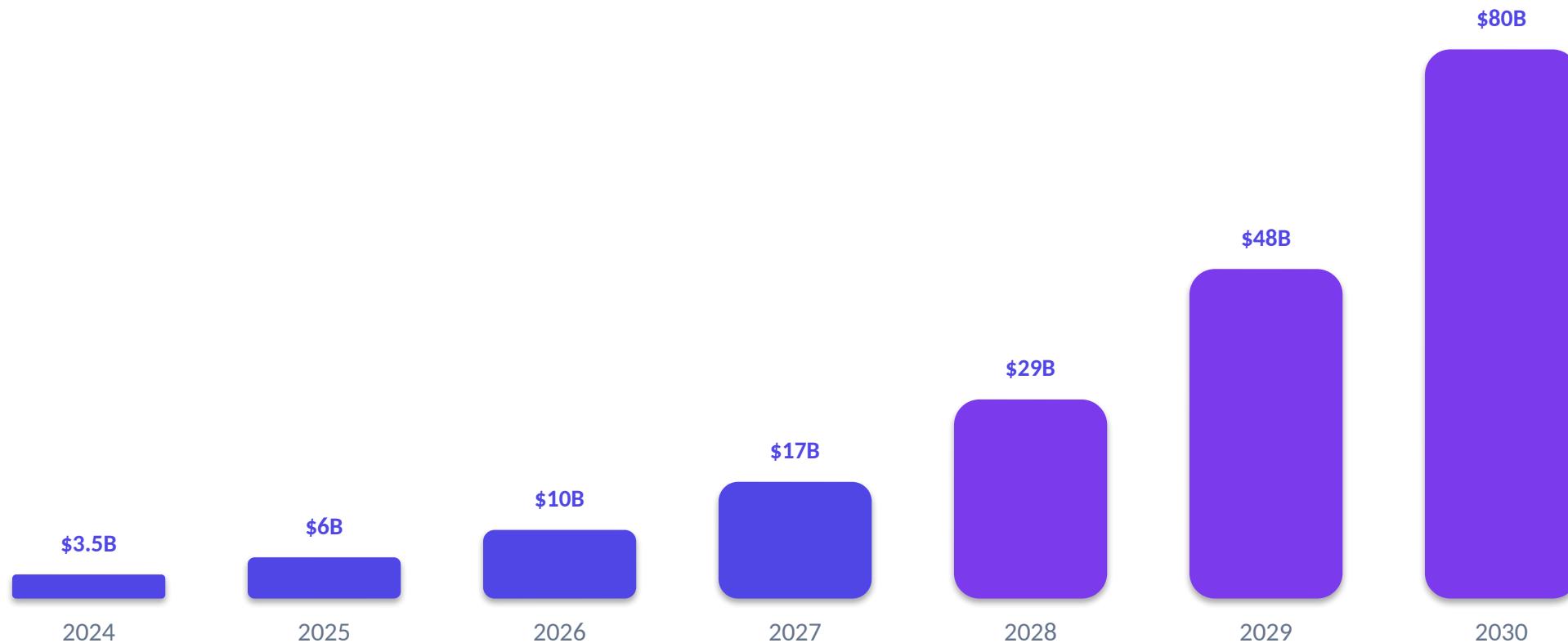
Machine-readable codebase
instructions for AI agents

60K+ repos and growing

MCP = agent-to-tool • A2A = agent-to-agent • AGENTS.md = agent-to-codebase

Note: Not all platforms adopt these standards. OpenClaw, for example, uses proprietary protocols (built-in tools, sessions-based multi-agent, custom channel plugins) with optional MCP bridging. This fragmentation makes AOSF's neutral governance role even more critical for cross-platform interoperability.

Market Size & Growth



Agentic AI Market Projection • 44–47% CAGR • Sources: MarketsandMarkets, Gartner, LangChain

02

The Vibe Coding Revolution

When AI writes most of the code, everything changes

What Is Vibe Coding?

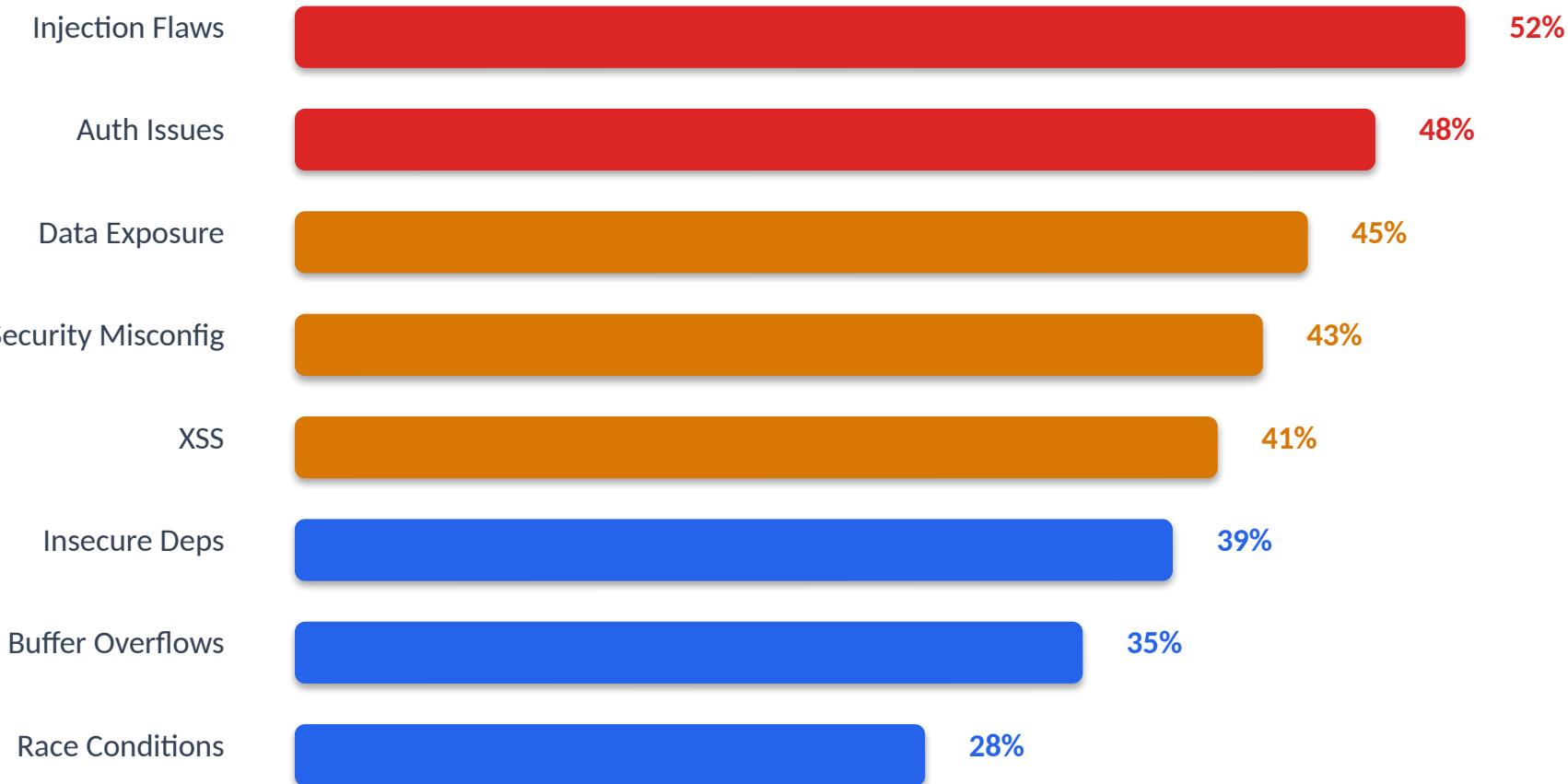
"There's a new kind of coding I call 'vibe coding', where you fully give in to the vibes, embrace exponentials, and forget that the code even exists."

— Andrej Karpathy, February 2025

- Coined by Andrej Karpathy (Feb 2025) — Collins Dictionary Word of the Year 2025
- Developer describes intent in natural language; AI generates the code
- 25% of YC Winter 2025 startups had codebases 95% AI-generated
- 70% of code at Google now AI-generated (Sundar Pichai, Oct 2025)
- GitHub Copilot: 40%+ of code on the platform is AI-generated
- Key tools: Cursor, Windsurf, Claude Code, Replit Agent, Bolt, Lovable
- Shifts developer role from writing code → reviewing, directing, and validating AI output

The Security Problem

AI-generated code is fast but fragile. Nearly half contains security vulnerabilities.



03

The Governance Gap

What existing foundations don't cover

Foundation Coverage Comparison

Domain	Linux Fn	Apache	CNCF	OSI	AOSF
AI-Native Project Hosting	✗	✗	✗	✗	✓
AI Code Security Scanning	~	✗	~	✗	✓
Agentic Governance	✗	✗	✗	✗	✓
AI Ethics Framework	~	✗	✗	~	✓
Memory Safety Initiative	~	✗	✗	✗	✓
OSS Model Evaluation	✗	✗	✗	✗	✓
AI Code Provenance	✗	✗	✗	✗	✓
Traditional OSS Governance	✓	✓	✓	✓	✓

AOSF doesn't compete with existing foundations — it fills the gaps they weren't designed to address.

04

Introducing AOSF

Agentic Open Source Foundation

Five Core Functions

Vibe-Coded Project Repository

Curated home for AI-generated OSS with quality tiers: Experimental → Enterprise

Rust Migration Initiative

AI-assisted C/C++ → Rust translation for critical infrastructure at scale

Agentic- Native Operations

Agent-assisted reviews, automated docs, transparent audit trails + DAO hybrid

Ethical AI Dev Standards

Attribution, licensing, human-in-the-loop frameworks for AI-generated code

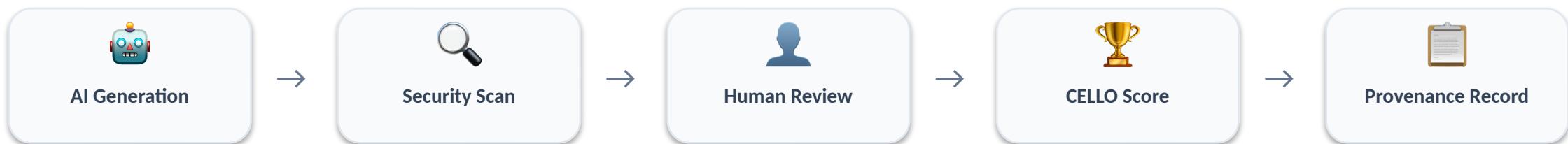
CELLO Leaderboard

100% open-source LLM code evaluation. Open models, open tools, reproducible

Together: comprehensive governance for AI-generated open source software

AI Code Provenance Standard

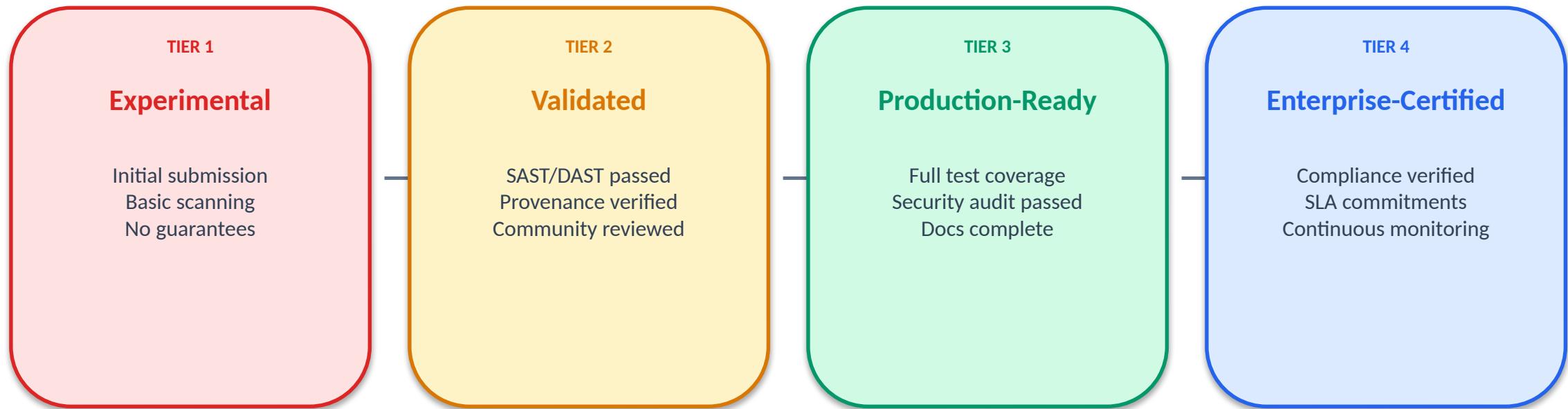
Machine-readable tracking of AI-generated code origins, review status, and quality — essential for enterprise trust.



```
{  
  "schema": "aosf-provenance/v1",  
  "model_id": "deepseek-coder-v3-236b",  
  "human_reviewer": "@chris-dev",  
  "security_scan": { "tool": "semgrep", "findings": 0, "passed": true },  
  "cello_score": 87.4,  
  "quality_tier": "production-ready",  
  "license": "Apache-2.0"  
}
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Quality Tier Pipeline

Every AOSF-hosted project progresses through tiers based on security, testing, docs, and community validation.



05

Get Involved

Building the future of open source together

How to Get Involved

Developers

Build the tools and infrastructure:

- Contribute to CELLO benchmark
- Build security scanning tools
- Help Rust migration initiative
- Submit AI-generated projects
- Review community submissions

Enterprises

Shape the standards:

- Sponsor provenance standard
- Join governance committees
- Enterprise certification cases
- Co-develop ethical frameworks
- Access certified project tiers

Researchers

Advance the science:

- Evaluation methodologies
- AI vulnerability patterns
- Provenance & attribution
- Publish through working groups
- Benchmark new OSS models

Ready to Build the Future of Open Source?

Join the first foundation purpose-built for the age of AI-generated code.
Neutral governance. Open standards. Community-driven.

github.com/aosf-org

Explore CELLO

AOSF • Agentic Open Source Foundation • Est. 2026



Built by AI agents, for AI-generated software — with human oversight at every step