

Spec-Driven Development: Detailed Feature Comparison

A comprehensive feature-by-feature analysis of BMAD Method, OpenSpec, Spec-Kit, and AI-DLC

Overview

This document provides an exhaustive comparison of features across all four spec-driven development frameworks. Each feature is analyzed for its implementation approach, framework-specific terminology, and comparative strengths.

Core Methodology Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Multi-Agent Collaboration	<input checked="" type="checkbox"/> Party Mode - 19+ specialized agents (Analyst, Architect, Dev, PM, SM, TEA, UX, Tech Writer, etc.) with distinct personalities and expertise	<input type="checkbox"/> Tool-Dependent - Works with any AI tool but no native multi-agent orchestration	<input type="checkbox"/> Single AI Model - One AI assistant guided by templates and constitution	<input checked="" type="checkbox"/> AI Orchestration - AI-driven task decomposition with intelligent agent coordination
Specification Management	<input checked="" type="checkbox"/> Story-Based - User stories, epics, and acceptance criteria in structured markdown files	<input checked="" type="checkbox"/> Delta-Based - Separate specs/ (truth) and changes/ (proposals) with explicit deltas	<input checked="" type="checkbox"/> Constitutional - Immutable principles govern all specs with template-driven generation	<input checked="" type="checkbox"/> Intent-Driven - High-level intent decomposed into units and bolts
Change Workflow	<input checked="" type="checkbox"/> Agile Phases - Analysis → Planning → Architecture → Implementation with phase tracking	<input checked="" type="checkbox"/> Three-Stage - Proposal → Apply → Archive with clear state transitions	<input checked="" type="checkbox"/> Six-Phase - Constitution → Specify → Clarify → Plan → Tasks → Implement	<input checked="" type="checkbox"/> Adaptive Phases - Inception → Construction → Operations with intelligent stage selection
Version Control Integration	<input checked="" type="checkbox"/> Git-Native - Branch per story, automated PR creation, workflow status in YAML	<input checked="" type="checkbox"/> Git-Friendly - Change folders track proposals, archive merges to specs	<input checked="" type="checkbox"/> Git-Based - Feature branches with spec versioning	<input checked="" type="checkbox"/> Git-Integrated - Branch-based development with automated tracking

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
State Management	<input checked="" type="checkbox"/> Workflow Status YAML - Phase tracking, story progress, agent memory, implementation readiness	<input checked="" type="checkbox"/> Folder-Based - specs/ (current), changes/ (active), archive/ (completed)	<input checked="" type="checkbox"/> File-Based - Constitution → Spec → Plan → Tasks → Code progression	<input checked="" type="checkbox"/> Artifact-Based - Intent → Requirements → Units → Bolts → Deployment

AI Integration Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
AI Agent Types	<input checked="" type="checkbox"/> 19+ Specialized Agents - BMM (9 agents), CIS (6 agents), Core (4 agents) with role-based expertise	<input type="triangle-up"/> Generic AI - Works with any AI coding assistant (25+ platforms supported)	<input type="triangle-up"/> Template-Guided AI - Single AI model following constitutional templates	<input checked="" type="checkbox"/> Orchestrated AI - AI initiates conversations and decomposes tasks autonomously
Agent Personalities	<input checked="" type="checkbox"/> Distinct Personas - Each agent has unique communication style and expertise (e.g., Mary's enthusiasm, Winston's calm analysis)	<input checked="" type="x"/> Not Applicable - Tool-agnostic approach doesn't define agent personalities	<input checked="" type="x"/> Not Applicable - Single AI model without personality customization	<input type="triangle-up"/> Framework-Defined - AI behavior defined by methodology, not customizable personas
Natural Language Processing	<input checked="" type="checkbox"/> Conversational - Agents understand context, ask clarifying questions, provide guidance	<input checked="" type="checkbox"/> Command-Based - Slash commands + natural language for proposals and implementation	<input checked="" type="checkbox"/> Prompt-Driven - Structured prompts guide AI through constitutional phases	<input checked="" type="checkbox"/> AI-Initiated - AI asks structured questions and drives conversation flow
Context Awareness	<input checked="" type="checkbox"/> Agent Memory - Persistent memory across sessions, project context, workflow history	<input type="triangle-up"/> File-Based - Context from specs, changes, and AGENTS.md handoff file	<input checked="" type="checkbox"/> Constitution-Based - Project principles and constraints guide all AI decisions	<input checked="" type="checkbox"/> Continuous - AI maintains context across phases with validation loops

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
AI Tool Support	<input checked="" type="checkbox"/> Multi-Platform - Amazon Q, Claude Code, Cursor, Gemini, GitHub Copilot, Windsurf, Kiro, RooCode, etc.	<input checked="" type="checkbox"/> Universal - 25+ platforms via slash commands or AGENTS.md convention	<input type="checkbox"/> Limited - Claude Code, Gemini, Copilot, Cursor, Windsurf, and compatible assistants	<input type="checkbox"/> Platform-Specific - Amazon Q Developer, Kiro CLI (expanding)

Workflow & Process Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Workflow Initialization	<input checked="" type="checkbox"/> workflow-init - Analyzes project, recommends track (Quick Flow/Method/Enterprise)	<input checked="" type="checkbox"/> openspec init - CLI scaffolds project structure with tool-specific commands	<input checked="" type="checkbox"/> specify init - CLI bootstraps constitution, templates, and scripts	<input checked="" type="checkbox"/> "Using AI-DLC" - Natural language activation triggers adaptive workflow
Scale Adaptability	<input checked="" type="checkbox"/> Three Tracks - Quick Flow (5 min), BMad Method (15 min), Enterprise (30 min) auto-selected by complexity	<input type="checkbox"/> Manual Scaling - Lightweight by default, scales through discipline and process	<input type="checkbox"/> Single Approach - One methodology for all project sizes	<input checked="" type="checkbox"/> Adaptive Planning - AI determines which phases to execute based on complexity
Requirements Gathering	<input checked="" type="checkbox"/> Analyst-Led - Mary (Analyst) conducts stakeholder interviews, creates user stories	<input checked="" type="checkbox"/> Proposal-Driven - Create change proposals with requirements and acceptance criteria	<input checked="" type="checkbox"/> /speckit.specify - Define what to build with functional requirements	<input checked="" type="checkbox"/> Intent Capture - AI asks structured questions to understand requirements
Architecture Design	<input checked="" type="checkbox"/> Architect-Led - Winston creates system design, technical specs, architecture diagrams	<input type="checkbox"/> Manual - Developers define architecture in change proposals	<input checked="" type="checkbox"/> /speckit.plan - Generate technical implementation plan with tech stack	<input checked="" type="checkbox"/> Design Phase - AI creates architecture based on domain-driven design principles

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Task Breakdown	<input checked="" type="checkbox"/> PM-Led - John creates epics, stories, and acceptance criteria with priority	<input type="checkbox"/> Manual - Developers create tasks.md in change folders	<input checked="" type="checkbox"/> /speckit.tasks - Generate actionable task list from implementation plan	<input checked="" type="checkbox"/> Unit Decomposition - AI breaks work into parallel units and sequential bolts
Implementation Tracking	<input checked="" type="checkbox"/> Story Progress - Workflow status YAML tracks phase completion, AC validation	<input checked="" type="checkbox"/> Task Checkboxes - Markdown checkboxes in tasks.md track completion	<input checked="" type="checkbox"/> Task Execution - /speckit.implement executes tasks with progress tracking	<input checked="" type="checkbox"/> Bolt Execution - AI tracks implementation progress across units

Quality & Testing Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Test-Driven Development	<input checked="" type="checkbox"/> TEA Agent - Murat (Test Architect) creates test strategies, frameworks, and automation	<input type="checkbox"/> Manual - Developers responsible for test creation	<input checked="" type="checkbox"/> Mandatory TDD - Constitutional requirement, tests written before implementation	<input checked="" type="checkbox"/> Automated Generation - AI generates tests as part of implementation
Quality Gates	<input checked="" type="checkbox"/> Implementation Readiness - check-implementation-readiness workflow validates before coding	<input checked="" type="checkbox"/> Validation Commands - openspec validate checks spec formatting and structure	<input checked="" type="checkbox"/> Constitutional Gates - Nine Articles enforce quality standards at each phase	<input checked="" type="checkbox"/> Continuous Validation - AI validates at each phase transition
Code Review	<input checked="" type="checkbox"/> code-review Workflow - Structured review process with agent guidance	<input type="checkbox"/> Manual - Standard Git PR review process	<input type="checkbox"/> Manual - Standard review with spec validation	<input type="checkbox"/> Framework-Guided - AI assists with review based on requirements
Test Architecture	<input checked="" type="checkbox"/> TestArch Workflows - ATDD, test design, framework setup, CI integration, NFR testing, traceability	<input type="checkbox"/> Not Included - Testing left to development team	<input checked="" type="checkbox"/> Test-First Imperative - Tests are non-negotiable part of constitution	<input checked="" type="checkbox"/> Integrated Testing - Tests generated alongside implementation

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Acceptance Criteria	<input checked="" type="checkbox"/> AC-Driven - Every story has explicit ACs, validated during implementation	<input checked="" type="checkbox"/> Scenario-Based - Requirements include scenarios with expected outcomes	<input checked="" type="checkbox"/> Checklist-Based - /speckit.checklist generates quality validation checklists	<input checked="" type="checkbox"/> Validation-Driven - AI ensures requirements met through continuous validation

Documentation Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Auto-Documentation	<input checked="" type="checkbox"/> document-project - Paige (Tech Writer) generates comprehensive project docs from codebase	<input type="checkbox"/> Manual - Specs serve as documentation, but no auto-generation	<input type="checkbox"/> Manual - Specs and plans document the system	<input type="checkbox"/> Artifact-Based - Documentation generated from artifacts
Living Documentation	<input checked="" type="checkbox"/> Continuous Updates - Docs updated as project evolves through workflows	<input checked="" type="checkbox"/> Spec Evolution - Specs updated through change proposals and archiving	<input checked="" type="checkbox"/> Spec-Driven - Specs remain source of truth throughout lifecycle	<input checked="" type="checkbox"/> Artifact Evolution - Documentation evolves with implementation
API Documentation	<input checked="" type="checkbox"/> Automated - Generate API docs from code and specs	<input type="checkbox"/> Manual - Include in change proposals	<input checked="" type="checkbox"/> Contract-First - API specs defined before implementation	<input checked="" type="checkbox"/> Generated - API docs from domain models and contracts
Architecture Diagrams	<input checked="" type="checkbox"/> Excalidraw Workflows - Generate dataflow, flowcharts, wireframes, system diagrams	<input type="checkbox"/> Manual - Create diagrams as needed	<input type="checkbox"/> Manual - Include in implementation plans	<input type="checkbox"/> Manual - Create as part of design phase
Onboarding Guides	<input checked="" type="checkbox"/> Comprehensive - Tutorials, how-tos, concepts, reference docs at docs.bmad-method.org	<input checked="" type="checkbox"/> Good - README with examples, workflow guides	<input checked="" type="checkbox"/> Excellent - Step-by-step guides, video tutorials, detailed walkthroughs	<input type="checkbox"/> Academic - Blog posts and method definition paper

Collaboration Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
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Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Team Coordination	☑ Multi-Agent Orchestration - Agents collaborate like a real team (PM, Architect, Dev, etc.)	⚠ Manual - Team coordinates through Git and change proposals	⚠ Manual - Team follows constitutional process together	⚠ AI-Mediated - AI coordinates between human stakeholders
Sprint Planning	☑ sprint-planning Workflow - Bob (SM) facilitates sprint planning with team	✗ Not Included - Use external agile tools	✗ Not Included - Not part of methodology	⚠ Iteration Planning - AI helps plan rapid iteration cycles
Retrospectives	☑ retrospective Workflow - Structured retros with action items	✗ Not Included - Use external agile tools	✗ Not Included - Not part of methodology	✗ Not Included - Not part of methodology
Stakeholder Communication	☑ PM-Led - John creates stakeholder updates, status reports	⚠ Manual - Use change proposals for communication	⚠ Manual - Share specs and plans with stakeholders	⚠ Manual - Share artifacts with stakeholders
Parallel Development	☑ Story-Based - Multiple stories can be developed in parallel branches	☑ Change-Based - Multiple changes can be proposed and developed simultaneously	⚠ Limited - Single feature development focus	☑ Unit-Based - Units designed for parallel development

Extensibility Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Custom Agents	☑ BMad Builder (BMB) - Create custom agents with personalities and expertise	✗ Not Applicable - Tool-agnostic, no agent framework	✗ Not Supported - Fixed constitutional approach	✗ Not Supported - Framework-defined AI behavior
Custom Workflows	☑ Workflow Creation - Define custom workflows with YAML configuration	⚠ Limited - Can customize slash commands but not core workflow	⚠ Template-Based - Modify templates but not core phases	✗ Not Supported - Fixed phase structure

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Module System	<input checked="" type="checkbox"/> BMad Modules - Create domain-specific modules (e.g., BMad Game Dev)	✗ Not Applicable - Lightweight framework without modules	✗ Not Supported - Single methodology approach	✗ Not Supported - Single methodology approach
Plugin Architecture	<input checked="" type="checkbox"/> Agent Plugins - Extend agents with new capabilities	✗ Not Applicable - No plugin system	✗ Not Supported - No plugin system	✗ Not Supported - No plugin system
Template Customization	<input checked="" type="checkbox"/> Full Customization - Modify agent prompts, workflow templates, memory structures	⚠ Limited - Customize AGENTS.md and slash commands	<input checked="" type="checkbox"/> Template Modification - Customize spec, plan, and task templates	⚠ Limited - Modify steering files and rules

Integration Features









Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
IDE Integration	<input checked="" type="checkbox"/> Native Support - Amazon Q, Claude Code, Cursor, Gemini, GitHub Copilot, Windsurf, Kiro, RooCode	<input checked="" type="checkbox"/> Universal - 25+ platforms including all major AI coding assistants	⚠ Limited - Claude Code, Gemini, Copilot, Cursor, Windsurf, and compatible tools	⚠ Platform-Specific - Amazon Q Developer IDE, Kiro CLI
CLI Tools	<input checked="" type="checkbox"/> NPM Package - bmad-method CLI for installation and setup	<input checked="" type="checkbox"/> NPM Package - @fission-ai/openspec CLI for project management	<input checked="" type="checkbox"/> Python Package - specify-cli for project initialization	✗ No CLI - Manual setup of rules and steering files
Slash Commands	<input checked="" type="checkbox"/> Extensive - 50+ workflows accessible via slash commands	<input checked="" type="checkbox"/> Core Commands - /openspec:proposal, /openspec:apply, /openspec:archive	<input checked="" type="checkbox"/> Phase Commands - /speckit.constitution, /speckit.specify, /speckit.plan, /speckit.tasks, /speckit.implement	✗ Not Applicable - Natural language activation

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
AGENTS.md Support	<input checked="" type="checkbox"/> Generated - Creates AGENTS.md for compatible tools	<input checked="" type="checkbox"/> Native - AGENTS.md is core integration mechanism	<input type="checkbox"/> Limited - Some tools use AGENTS.md convention	<input type="checkbox"/> Rules-Based - Uses Amazon Q Rules and Kiro Steering Files
CI/CD Integration	<input checked="" type="checkbox"/> TestArch CI Workflow - Integrate testing into CI/CD pipelines	<input type="checkbox"/> Manual - Standard Git-based CI/CD	<input type="checkbox"/> Manual - Standard Git-based CI/CD	<input type="checkbox"/> Manual - Standard Git-based CI/CD

Project Type Support

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Greenfield Projects	<input checked="" type="checkbox"/> Excellent - Full lifecycle from concept to deployment	<input checked="" type="checkbox"/> Good - Start with initial specs and iterate	<input checked="" type="checkbox"/> Excellent - Constitutional approach ideal for new projects	<input checked="" type="checkbox"/> Good - AI- native approach for new development
Brownfield Projects	<input checked="" type="checkbox"/> Excellent - document-project workflow analyzes existing code and creates specs	<input checked="" type="checkbox"/> Excellent - Change proposals work great for existing codebases	<input type="checkbox"/> Limited - Focused on greenfield development	<input checked="" type="checkbox"/> Good - Code elevation process for existing systems
Microservices	<input checked="" type="checkbox"/> Supported - Architecture workflows handle distributed systems	<input checked="" type="checkbox"/> Supported - Change proposals per service	<input checked="" type="checkbox"/> Supported - Constitutional principles apply per service	<input checked="" type="checkbox"/> Supported - Units map to services naturally
Monoliths	<input checked="" type="checkbox"/> Supported - Story-based development works for any architecture	<input checked="" type="checkbox"/> Supported - Change proposals for features	<input checked="" type="checkbox"/> Supported - Constitutional approach works for monoliths	<input checked="" type="checkbox"/> Supported - Bolt-based implementation for monoliths
Libraries/Frameworks	<input checked="" type="checkbox"/> Supported - Modular development approach	<input checked="" type="checkbox"/> Supported - Spec-driven library development	<input checked="" type="checkbox"/> Excellent - Library-first architecture is constitutional principle	<input checked="" type="checkbox"/> Supported - Component- based development

Learning & Support Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Documentation Site	<input checked="" type="checkbox"/> Comprehensive - docs.bmad-method.org with tutorials, how-tos, concepts, reference	<input checked="" type="checkbox"/> Good - GitHub README with examples and guides	<input checked="" type="checkbox"/> Excellent - github.github.io/spec-kit with detailed walkthroughs	 Academic - AWS blog post and method definition paper
Video Tutorials	<input checked="" type="checkbox"/> YouTube Channel - @BMadCode with tutorials and master class	 Limited - Community-created content	<input checked="" type="checkbox"/> Official Video - Overview and walkthrough video	 Not Available - No video content
Community Support	<input checked="" type="checkbox"/> Active Discord - discord.gg/gk8jAdXWmj with responsive community	<input checked="" type="checkbox"/> Growing Discord - discord.gg/YctCnvshC for help and questions	<input checked="" type="checkbox"/> GitHub Issues - Active issue tracking and discussions	 AWS Support - Solution Architect support for AWS customers
Examples & Templates	<input checked="" type="checkbox"/> Extensive - Templates for all workflows, agent configurations, project structures	<input checked="" type="checkbox"/> Good - Example projects and change proposals	<input checked="" type="checkbox"/> Good - Template-driven approach with examples	 Limited - Method definition paper with examples
Getting Started Time	 15-30 minutes - Comprehensive setup with agent configuration	<input checked="" type="checkbox"/> 5-10 minutes - Quick CLI init and start proposing changes	 10-15 minutes - CLI init and constitution creation	 15-20 minutes - Manual setup of rules and steering files

Advanced Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
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Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Brainstorming Support	☑ CIS Module - Carson (Brainstorming Coach), Dr. Quinn (Problem Solver), Maya (Design Thinking)	✗ Not Included - Use external tools	⚠ /speckit.clarify - Structured clarification of underspecified areas	⚠ Question-Driven - AI asks structured questions to clarify intent
Innovation Workflows	☑ CIS Module - Victor (Innovation Strategist), Caravaggio (Presentation Master), Sophia (Storyteller)	✗ Not Included - Focus on implementation	✗ Not Included - Focus on quality and testing	⚠ Rapid Prototyping - Fast iteration for innovation
Design Thinking	☑ design-thinking Workflow - Maya guides design thinking process	✗ Not Included - Use external tools	✗ Not Included - Not part of methodology	⚠ Integrated - Domain-driven design principles built-in
UX Design	☑ Sally (UX Designer) - Creates wireframes, user flows, design systems	⚠ Manual - Include in change proposals	☑ /speckit.create-ux-design - Generate UX designs from specs	⚠ Manual - Create as part of design phase
Research Workflows	☑ research Workflow - Structured research with documentation	⚠ Manual - Research as needed	⚠ Manual - Research during planning phase	⚠ Manual - Research during inception phase
Risk Management	☑ Murat (TEA) - Risk assessment and mitigation strategies	⚠ Manual - Identify risks in proposals	⚠ Manual - Risk assessment during planning	☑ Built-In - Risk assessment in inception phase

Experimental Features

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Experimental Workflows	⚠ In Development - New workflows being tested	☑ OPSX - Fluid, iterative workflow with hackable templates (Claude Code only)	✗ Not Applicable - Stable methodology	✗ Not Applicable - Research-backed methodology
Custom Artifacts	⚠ Limited - Can create custom workflows	☑ OPSX - Define custom artifacts with schemas and dependencies	✗ Not Supported - Fixed artifact structure	✗ Not Supported - Fixed artifact structure

Feature	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Telemetry	✗ Not Included - No usage tracking	☑ Optional - Anonymous usage stats (opt-out available)	✗ Not Included - No usage tracking	✗ Not Included - No usage tracking

Summary Matrix

Feature Coverage Score

Category	BMAD Method	OpenSpec	Spec-Kit	AI-DLC
Core Methodology	5/5	5/5	5/5	5/5
AI Integration	5/5	4/5	3/5	5/5
Workflow & Process	5/5	4/5	5/5	4/5
Quality & Testing	5/5	2/5	5/5	4/5
Documentation	5/5	3/5	4/5	2/5
Collaboration	5/5	2/5	2/5	3/5
Extensibility	5/5	1/5	2/5	1/5
Integration	5/5	5/5	3/5	2/5
Project Support	5/5	5/5	4/5	4/5
Learning & Support	5/5	4/5	5/5	2/5
Advanced Features	5/5	1/5	2/5	3/5
TOTAL	55/55	36/55	40/55	35/55

Key Differentiators

BMAD Method Unique Features

- **Party Mode** multi-agent collaboration with 19+ specialized agents
- **BMad Builder (BMB)** for creating custom agents and modules
- **Creative Intelligence Suite (CIS)** for innovation and brainstorming
- **Comprehensive workflow library** with 50+ guided workflows
- **Scale-adaptive tracks** (Quick Flow, Method, Enterprise)

OpenSpec Unique Features

- **Tool-agnostic approach** supporting 25+ AI platforms
- **Delta-based change management** with explicit spec evolution
- **Three-stage workflow** (Proposal → Apply → Archive)
- **OPSX experimental workflow** with hackable templates
- **Universal integration** through slash commands and AGENTS.md

Spec-Kit Unique Features

- **Constitutional framework** with Nine Articles of Development
- **Mandatory test-driven development** as non-negotiable principle
- **Library-first architecture** as constitutional requirement
- **Quality-first approach** with exceptional validation gates
- **GitHub institutional backing** and support

AI-DLC Unique Features

- **AI-initiated conversations** reversing traditional interaction patterns
- **Domain-driven design integration** as core methodology
- **Adaptive phase selection** based on project complexity
- **Rapid iteration cycles** (hours/days vs weeks)
- **AWS institutional support** and research backing

Conclusion

Each framework offers distinct feature sets optimized for different use cases:

- **BMAD Method:** Most comprehensive feature set with unmatched extensibility and collaboration
- **OpenSpec:** Best tool integration and change management with minimal overhead
- **Spec-Kit:** Strongest quality gates and constitutional governance
- **AI-DLC:** Most advanced AI-native approach with rapid iteration

Choose based on your team's priorities: comprehensiveness (BMAD), simplicity (OpenSpec), quality (Spec-Kit), or AI-first innovation (AI-DLC).

This feature comparison was compiled through comprehensive analysis of official documentation, repositories, and methodology implementations.