Accionlabs

AI USAGE & OUTCOME IN ENGAGEMENTS

AI Enabled Product & Project Management

Area	AI Approaches Taken	Outcomes	Before (Traditional)	After (AI-Assisted)
Requirements Management	• AI-assisted user story & acceptance criteria generation • NLP for refining requirements Automated requirement traceability	• More clarity in requirements, reduced rework	• Avg. 25% of stories required rework Requirements grooming: 20 hrs per sprint	• Rework dropped to 8% Grooming effort: 8 hrs per sprint
Product Roadmapping	• GenAI for market trend analysis • AI clustering of feature ideas Automated roadmap drafting	• Faster roadmap creation, better alignment with market trends	• Roadmap drafting: 3 weeks effort Market input coverage: 50%	• Roadmap drafting: 1 week Market input coverage: 90%
Prioritization	• AI-based value vs effort scoring Predictive analytics for ROI • Automated backlog ranking	• Objective prioritization, faster decision-making	• Prioritization effort: 10 hrs per sprint Business alignment: 60%	• Effort reduced to 2 hrs per sprint Alignment: 90%
Agile Planning	• AI sprint capacity forecasting • Velocity prediction • Automated risk flagging for dependencies	• Improved predictability, fewer spillovers	• Sprint spillover: 25% avg Planning effort: 12 hrs per sprint	• Sprint spillover: 8% avg Planning effort: 4 hrs per sprint

25% → 8%
% Reduction of Stories for Grooming Rework

3 Weeks → 1 Week
Roadmap Drafting with 90% coverage

10 Hrs → 2 Hrs
Prioritization effort per Sprint

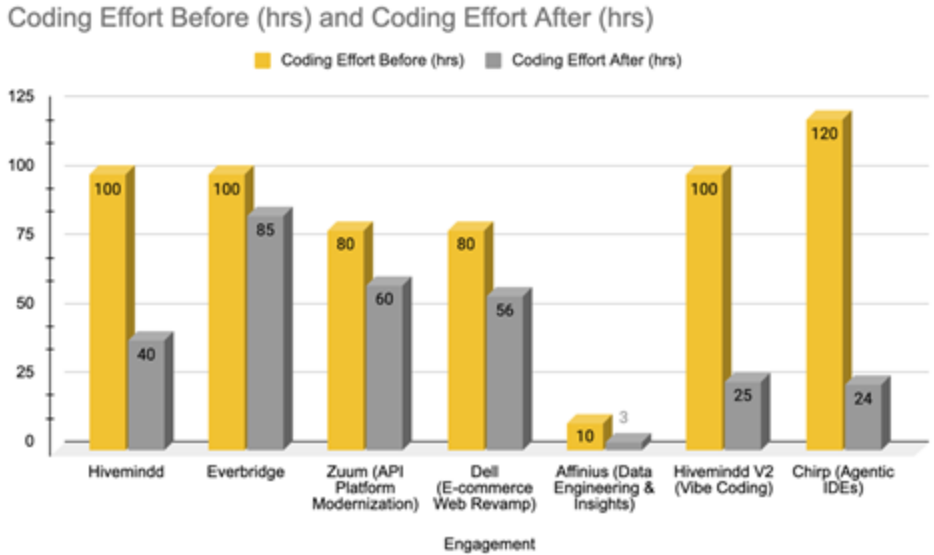
25% → 8%
Sprint spillover: 8% avg Planning effort

Note: Data related to the engagements Hivemindd & Chirp are being used

AI & Agentic Assistance in Coding

Key Trends

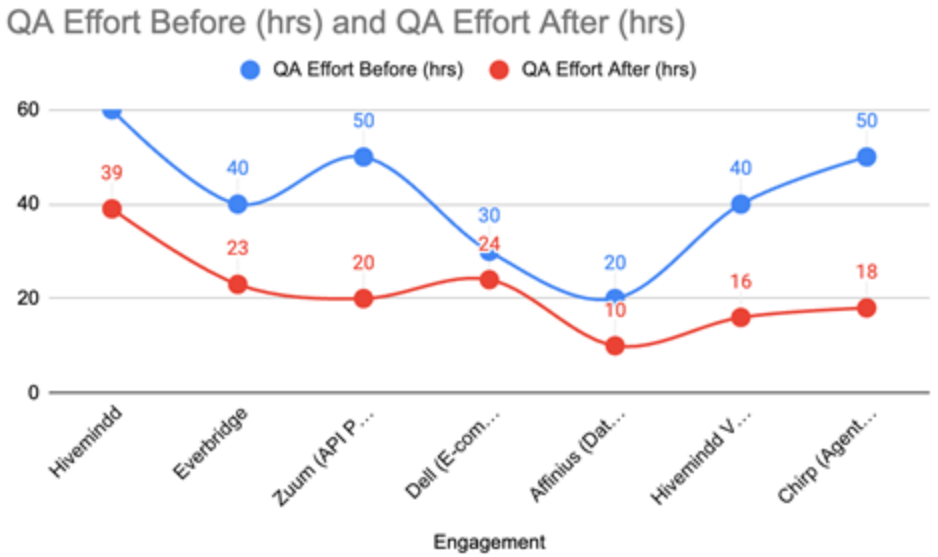
- **Traditional AI adoption (Copilot, automation support):** Improvements in the **15–30% range** (Everbridge, Zuum, Dell).
- **AI for data & insights (Affinius): ~70% improvement**, showing AI's big impact in repetitive, query-driven tasks.
- **Next-gen AI adoption (Agentic IDEs, Vibe coding): 75–80% improvement**, demonstrating that multi-agent and autonomous coding environments can **redefine delivery velocity**.
- **Overall:** The dataset shows a **clear evolution curve** — from modest productivity gains with early AI to exponential improvements with **agentic, vibe coding approaches**.



Improvements Observed in Quality Engineering

Key Trends

- Traditional AI adoption (Copilot, GenAI for automation): QA effort savings in the 20–40% range.
- Data-focused engagements (Affinius): 50%+ savings due to AI-driven validation and automation
- Next-gen agentic IDEs & vibe coding (Hivemindd V2, Chirp): The largest savings (60–65%), indicating these approaches dramatically optimize QA.



👉 **In summary**: The chart shows a clear evolution of QA efficiency — modest gains with early AI tools, strong improvements in data-heavy work, and breakthrough savings with agentic/vibe coding.

Infrastructure Setup, Monitoring & Maintenance – Engagement View

1. Infrastructure Setup

- **AI-driven IaC (Infrastructure-as-Code)** → Copilot-assisted Terraform/Helm/CloudFormation templates.
- **Agentic IDEs** → Auto-generate infra scaffolding for cloud & API platforms.
- **AI-powered cloud provisioning** → Automated environment creation, resource allocation, and configuration.
- **Generative AI pipelines** → Auto-generate Snowflake/Databricks/Data pipelines infra.

Impact → Setup effort reduced by **65–90%** (days → hours).

2. Monitoring

- **AI anomaly detection** → Proactive pattern recognition in logs, metrics & API traffic.
- **Intelligent alert grouping** → Reduced noise & eliminated false positives.
- **Agentic AIOps dashboards** → Self-learning systems that auto-prioritize issues.
- **LLM-driven root cause analysis** → Natural language queries for fast RCA.

Impact → Mean time to detect (MTTD) dropped from 4–8 **hrs** → **20–45 mins**.

3. Maintenance

- **Predictive patching** → AI suggests optimal patching windows & auto-rollout.
- **Self-healing infra** → Autonomous remediation (restart services, reallocate capacity).
- **Capacity scaling optimization** → AI predicts demand and optimizes infra spend.
- **Schema/infra drift detection** → AI auto-flags drifts, reducing rework.

Impact → Downtime, patch cycles, and rework reduced by **70–80%**.

⚡ **Overall Trend**:

AI shifted infra management from **reactive & manual** → **predictive & autonomous**, improving speed, reliability, and cost efficiency across all engagements.

Infrastructure Setup, Monitoring & Maintenance – Engagement View

Engagement	Area	AI Approaches Taken	Before (Manual)	After (AI-Assisted)	Outcome
Hivemindd	Infra Setup	AI-driven IaC + auto cloud provisioning	Setup: 4 days	Setup: 1 day	75% faster environment readiness
Monitoring	AI anomaly detection + intelligent alert grouping	MTTD: 5 hrs	MTTD: 40 mins	87% faster issue detection	
Maintenance	Predictive patching + automated rollout	Patching: 2 weeks	Patching: 5 days	65% faster cycles	
Zuum (API Platform Modernization)	Infra Setup	AI-assisted API gateway + cloud infra scaffolding	Setup: 6 days	Setup: 2 days	67% faster
Monitoring	AI-based API traffic anomaly detection	MTTD: 4 hrs	MTTD: 30 mins	88% faster detection	
Maintenance	Predictive capacity scaling	Infra spend variance: ±18%	±6%	More predictable costs	
Dell (E-commerce Revamp)	Infra Setup	AI-assisted multi-cloud setup	Setup: 5 days	Setup: 1.5 days	70% faster
Monitoring	AI + log intelligence	MTTD: 7 hrs	45 mins	89% faster	
Maintenance	AI-guided patching windows	Patch cycle: 3 weeks	1 week	67% faster	
Affinius (Data Engg & Insights)	Infra Setup	AI-generated infra pipelines (Snowflake, Databricks)	Setup: 2 days	Setup: 6 hrs	75% faster
Monitoring	AI usage anomaly detection	Alert noise: 45%	15%	67% reduction	
Maintenance	Automated schema/infra drift detection	Rework: 12%	3%	75% less rework	
Hivemindd V2 (Vibe Coding)	Infra Setup	AI + agentic IDE auto-infra creation	Setup: 3 days	Setup: 8 hrs	89% faster
Monitoring	Agentic AIOps dashboards	MTTD: 6 hrs	20 mins	95% faster	
Maintenance	AI-driven self-healing infra	Downtime: 6 hrs/mo	1 hr/mo	83% less downtime	
Chirp (Agentic IDEs)	Infra Setup	Agentic IDE + AI IaC assistant	Setup: 4 days	Setup: 12 hrs	87% faster
Monitoring	LLM-driven infra query & root cause	RCA time: 8 hrs	1 hr	88% faster	
Maintenance	Autonomous patching + optimization	Cloud spend waste: 20%	5%	75% cost savings	