



I Came for the Kubernetes. The AI Did the Kubernetes.

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Out of Scope

Tokenmaxxing, Gas Town, OpenClaw etc

Full blown AI harness with 100s of steps and branches

AI adoption in Enterprise

AI in Software Engineering

In Scope

Simple enough use-case to get started

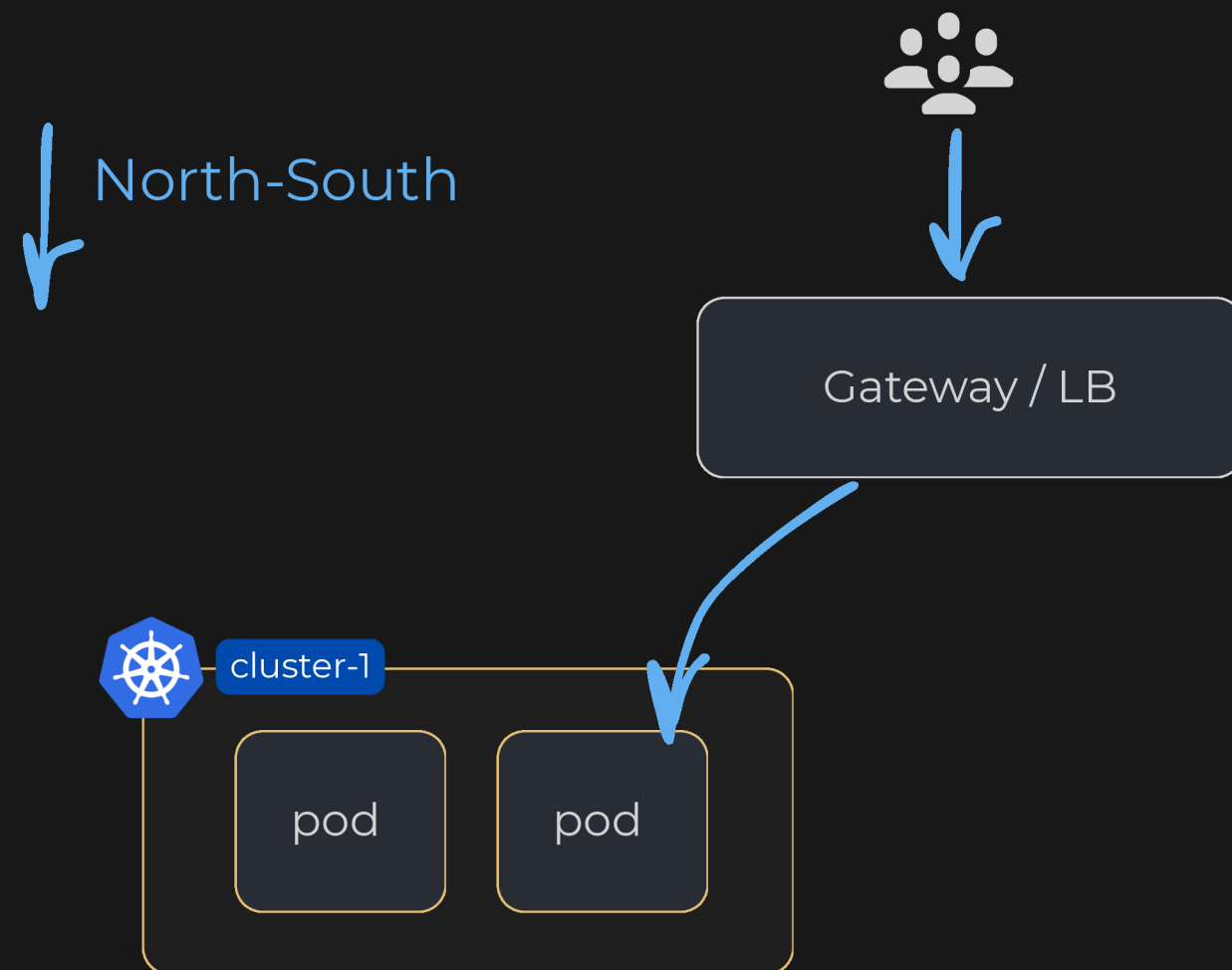
Understanding AI workflows through OTEL

But still works in Enterprise

AI in Platform Engineering and SRE

Q & (👉) A, discussions.

About the Demo Project, aka

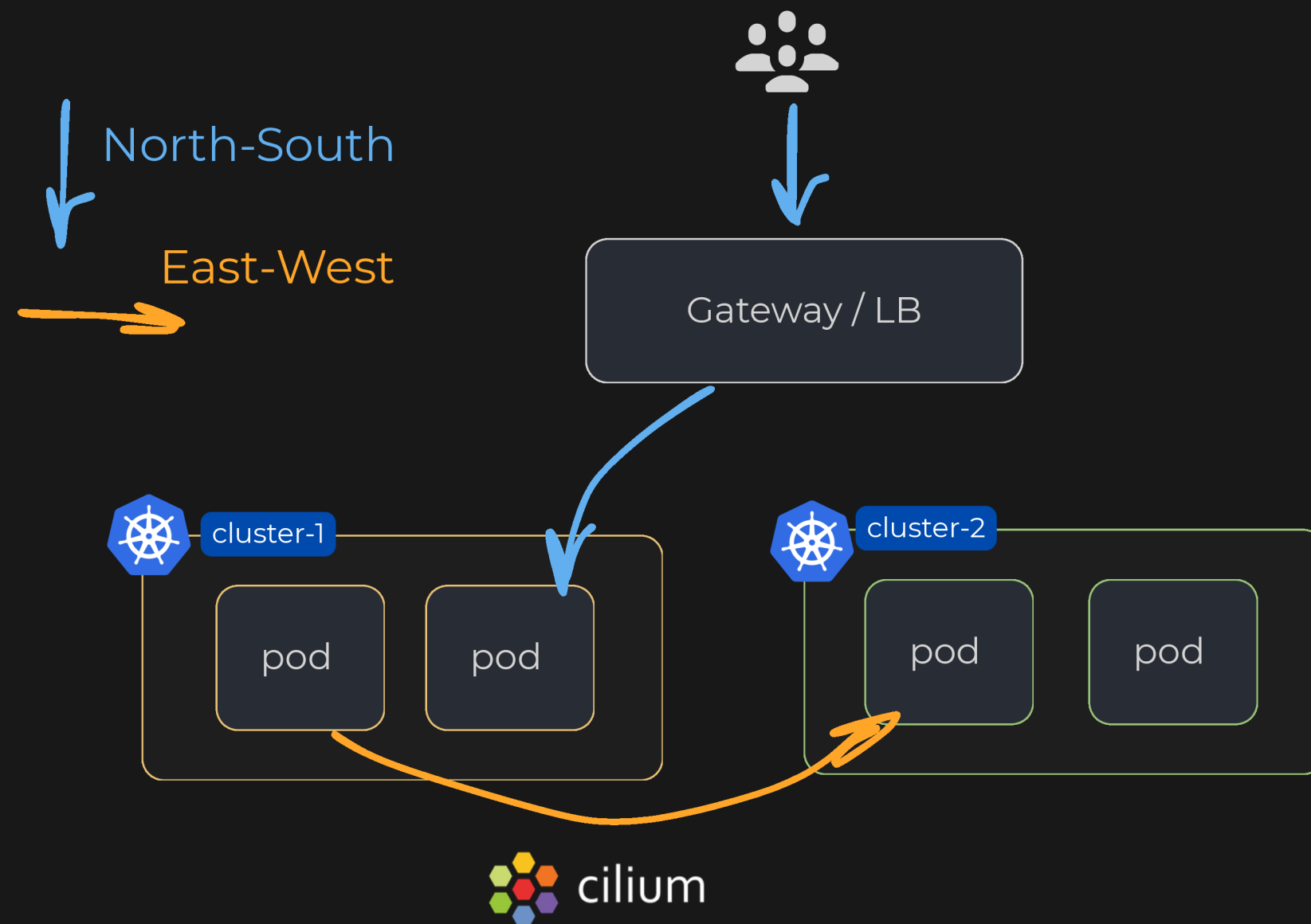
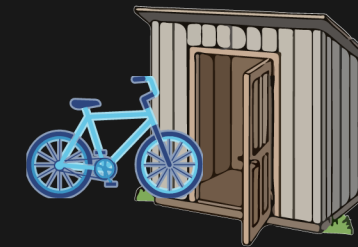


2014: k8s open sourced

2016: My first professional experience with k8s

2017: EKS announced at re:Invent

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2017: EKS announced at re:Invent

2019: Cilium + GKE Multi Cluster Services

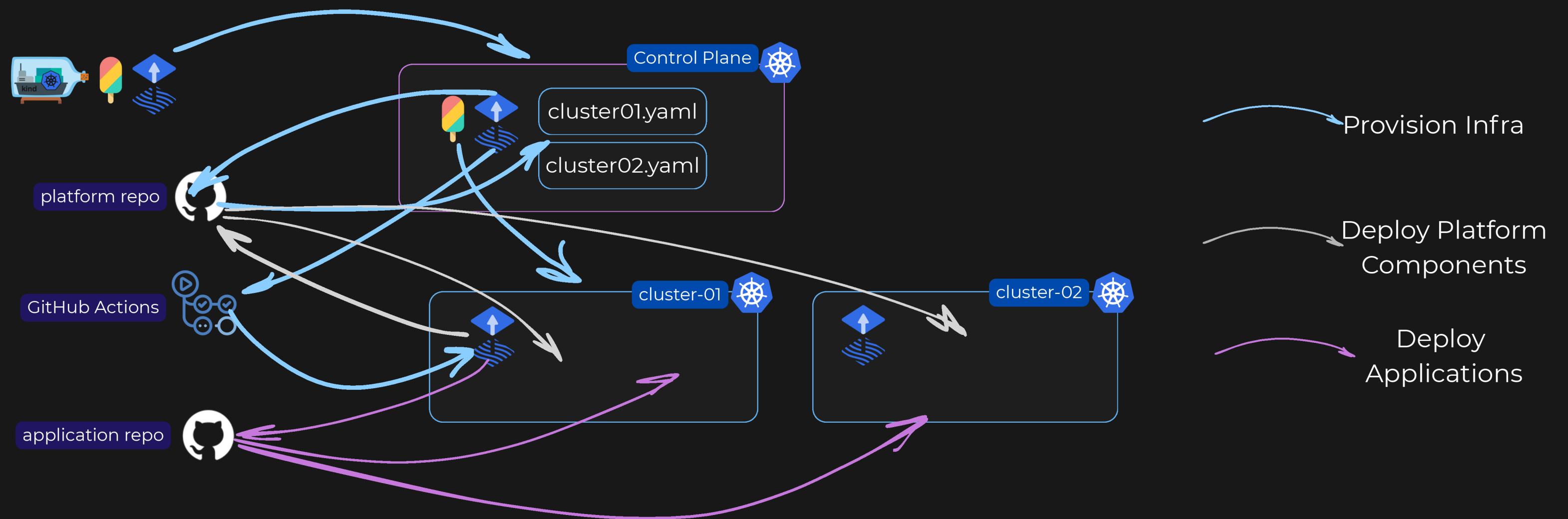
2021: `k8s-my-way` AWS k8s cluster (v1.20)

2021: `k8s` single cluster. tf, eksctl, gcloud, ClickOps

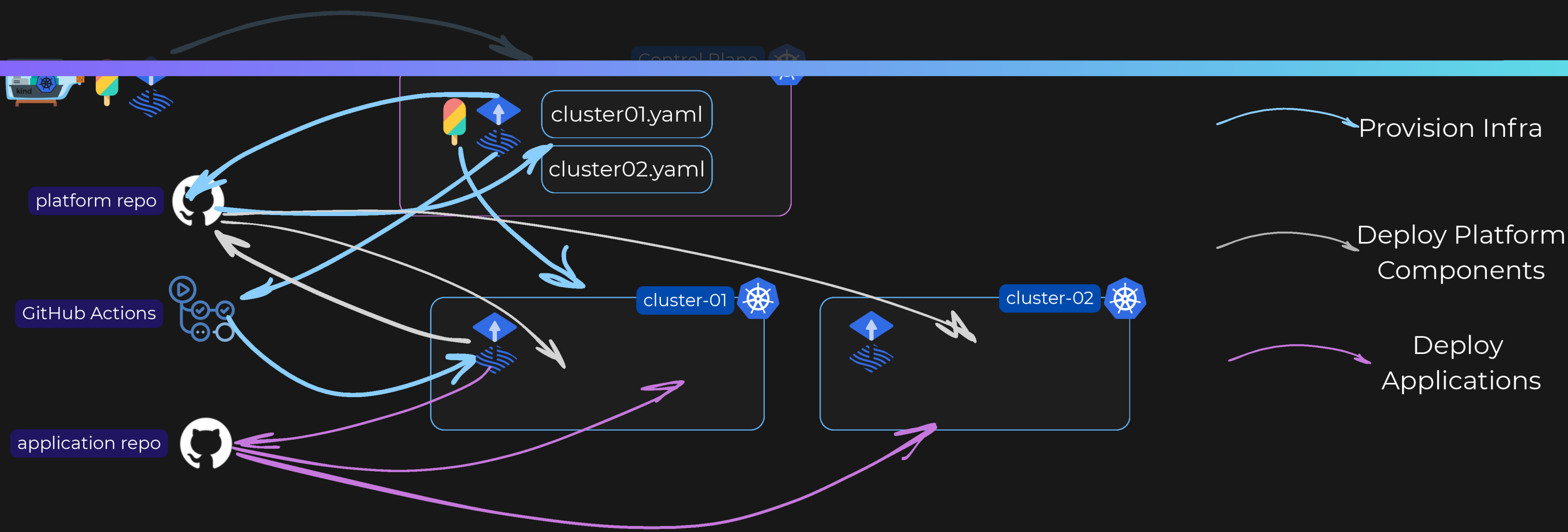
2022: `k8s-multi-cluster` Cluster API + Go provisioner


2025: `playground` Crossplane + GitOps (v1.35)

In the Beginning was the Kubernetes



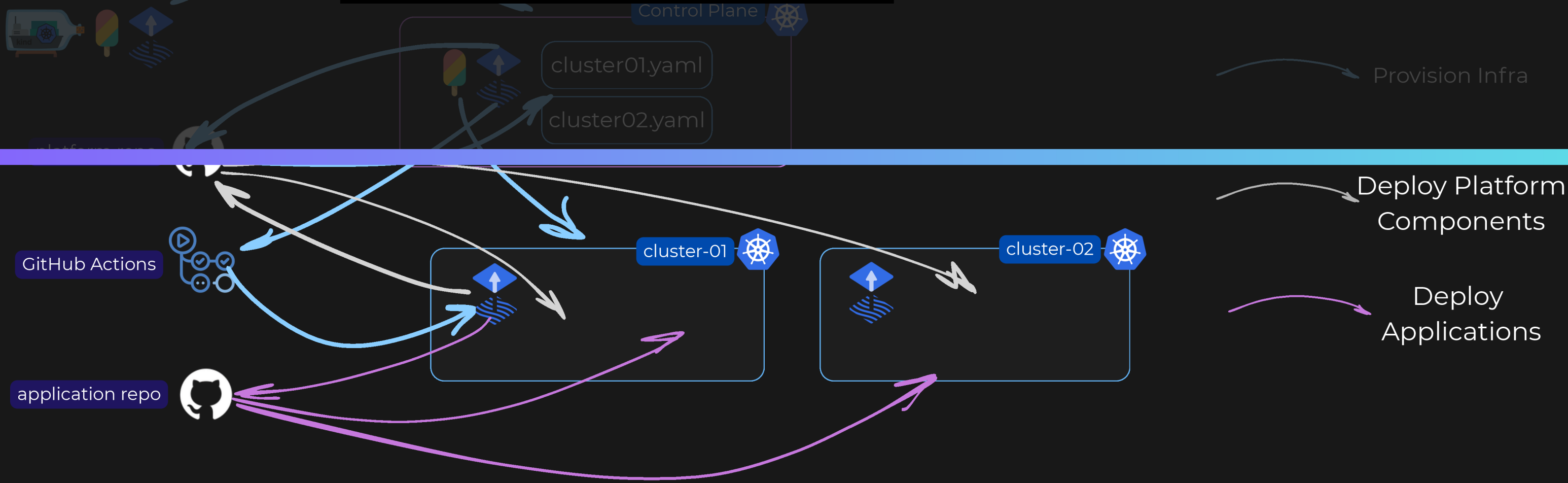
I have this error, can you please explain? ➔



I have this error, can you please explain? 

Claude sub-agents
~/claude/agents/crossplane-expert.md

```
Claude Code v2.1.19  
Welcome back  
  
Opus 4.5 · Claude Team · Saucelabs  
~/Coding  
Tips for getting started  
Run /init to create a CLAUDE.md file with ins  
Recent activity  
No recent activity  
Can you please just fix this thing?  
? for shortcuts
```



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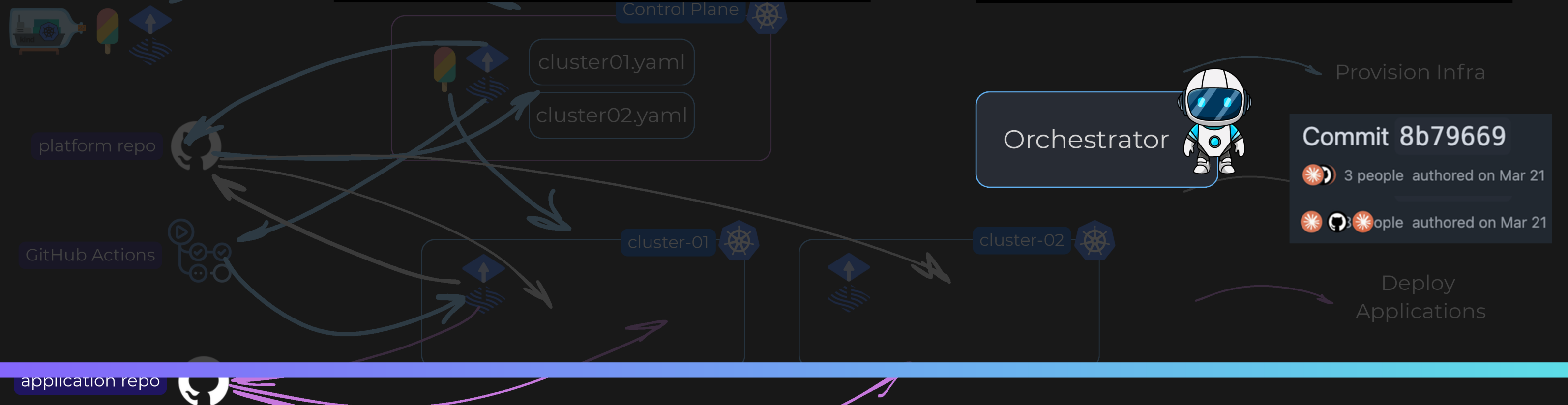


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Skills, scripts, Taskfiles

```
Claude Code v2.1.19  
Welcome back Jarek!  
Opus 4.5 · Claude Team · Saucelabs  
~/Coding  
Tips for getting started  
Run /init to create a CLAUDE.md file with ins  
Recent activity  
No recent activity  
? for shortcuts  
"refactor <filepath>"
```



AI in Software Engineering vs Platform Engineering

```
process.runtime.description: "Node.js"  
process.runtime.name: "nodejs"  
process.runtime.version: "25.9.0"  
programming_language: "yaml"  
service.name: "gemini-cli"
```

Parallelism

- GitOps sync branch
- Dependencies
- Underlying dependencies - subnets, IP ranges

Tests complexity in infra

- no unit test
- long running process
- cost

70,000 SLOCs vs 70,000 lines of yaml

- Every line of yaml is someone else's SLOCs

Knowledge vs Experience

- LLMs *know* Istio, but how it fails at scale, what design is best for you?

Running Slower to Run Faster

Starting with some of the very first versions of Codex CLI and the Codex Mini model turned out to be a useful constraint - there was quite a visceral feeling to **asking the model to build a product feature and watching it simply fail** to assemble the pieces together.

That failure defined a core mindset: whenever the model just cannot, you double-click into it, and **build smaller building blocks** that you then **reassemble into the broader objective**.

Painful, yes - the first month and a half ran about **ten times slower than working alone**. But because that cost was paid up front, the result was something far more productive.

Paraphrased from
Latent Space podcast interview with
Ryan Lopopolo - Member of Technical Staff (MTS)
OpenAI

<https://www.latent.space/p/harness-eng>

Building Blocks

`.claude/agents/*.md`

- purpose-built for specific workflows
- execution isolation: context, permissions
- coupled to runtime - depends on execution model and runtime assumptions of the framework
- Not adopted in other tools

+

SKILL.md

portable, reusable units, encoding knowledge or procedure, stay in parent context

16 Oct 2025 - Announcement Skills in Claude Code

18 Dec 2025 - Anthropic published open Agent Skills standard - <https://agentskills.io>

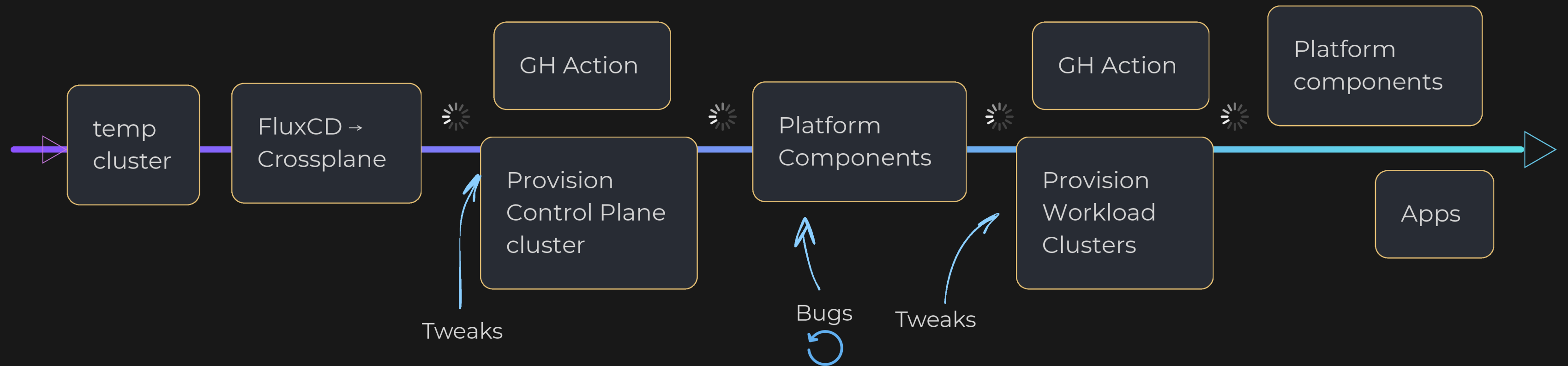
Dec 2025 - Skills support in VSCode => fast adoption

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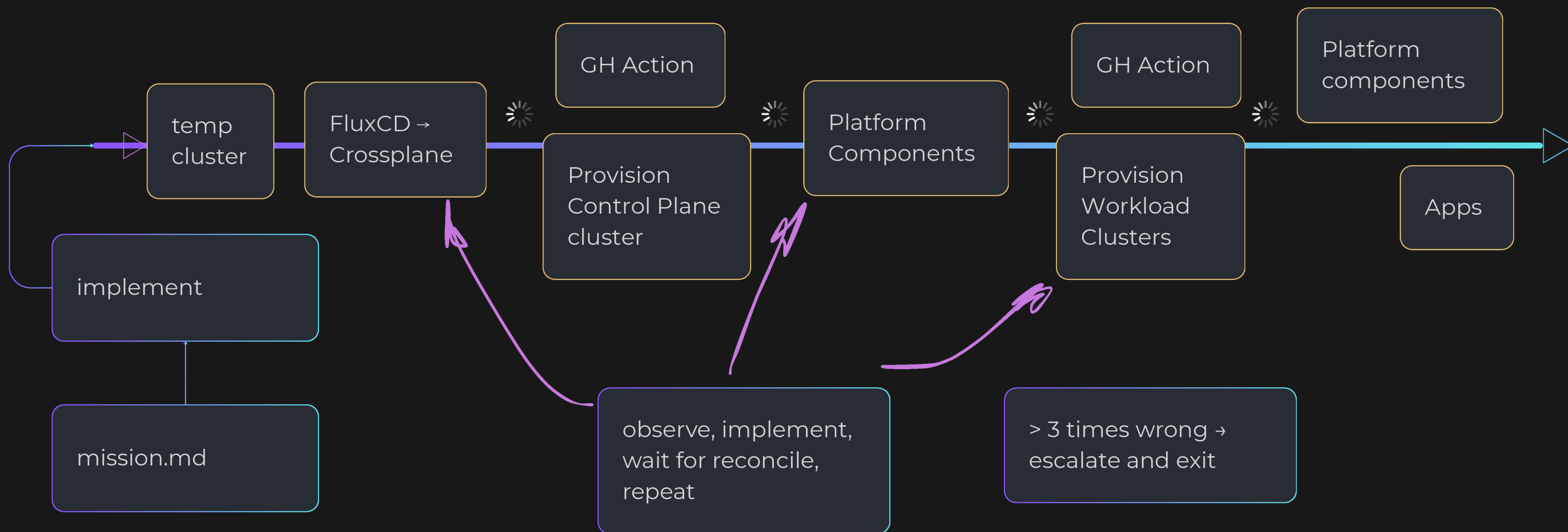


+ settings.json + guardrails + OTEL

The Process - Manual



The Process - AI



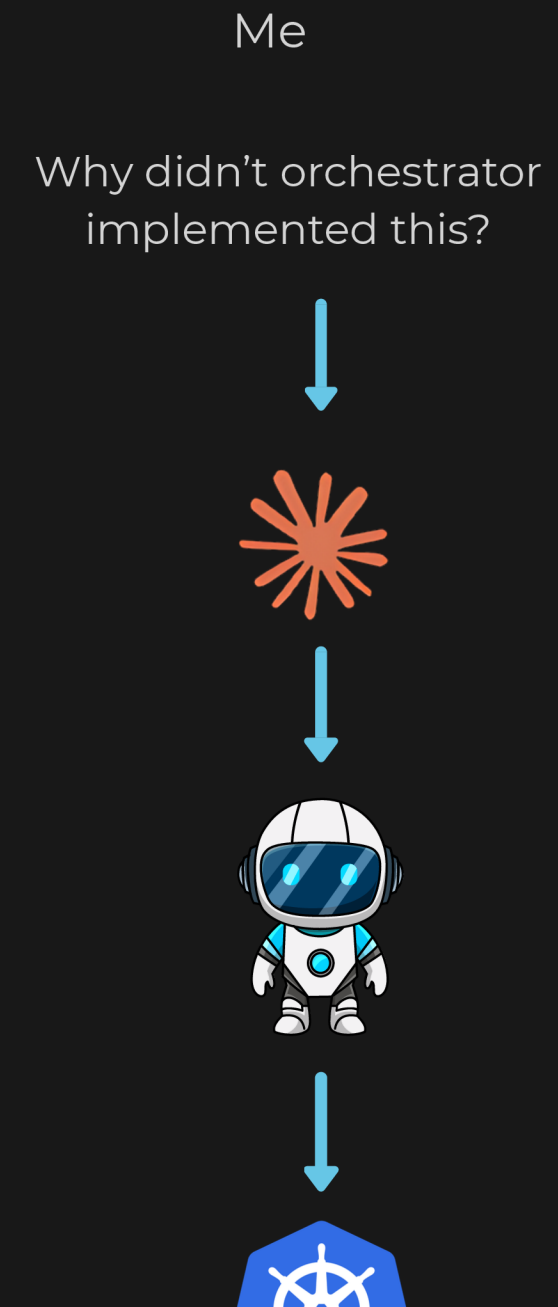
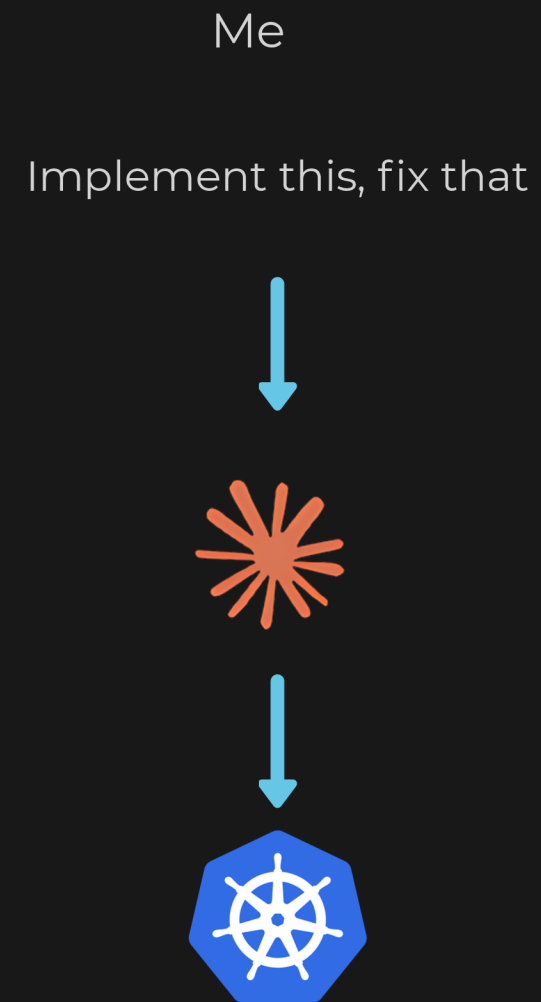
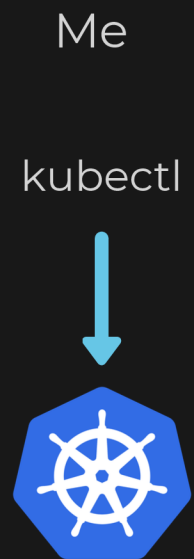
Observability Enabled by OTEL



Demo



Object → Subject



Which Camp Are You In?

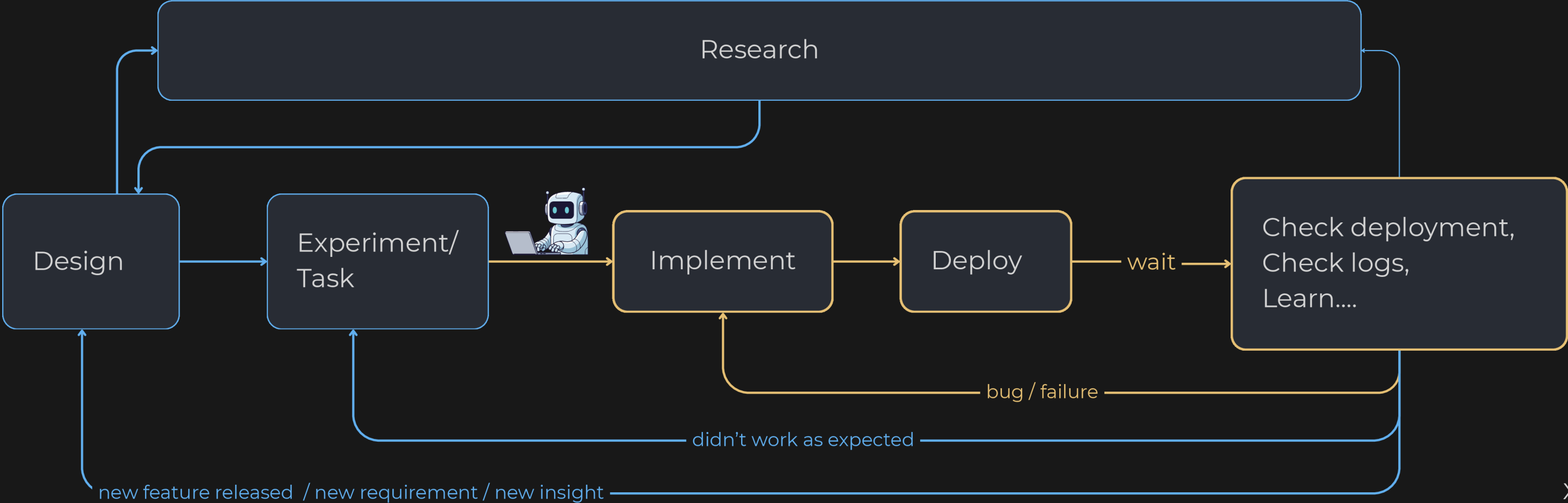
The **beauty** of this is that technology disappears
and you don't need to think about computation,
all that context blends away
nothing's perfect yet, but it's already **feels magical**

Pragmatic Engineer podcast with Peter
Steinberg

The creator of ~~Clawd~~ OpenClaw: "I ship code I
don't read"
(@1h27m)

me: how's your eBPF project going on?
friend: dunno, I lost interest in it. What's the
point? AI can generate all of this.

Bring it Back to Workplace



X weeks later -
design finalised,
the feature released

Don't Wait For AI Enablement Team

If you have one and tools solve your problem - use them first!

What is this talk's approach good for?

- Specific use-case.
- Goldilocks - scoped, long and fragmented workflow.

Benefits

- Cost management - context control, model selection.
- No vendor lock-in, reduced impact when LLM or product change.
- Low friction - no need to choose and learn frameworks
- Headless - less distraction and temptation to jump in

References

<https://newsletter.pragmaticengineer.com/p/the-creator-of-clawd-i-ship-code> - Interview with Peter Steinberger, creator of OpenClaw

<https://www.anthropic.com/engineering/equipping-agents-for-the-real-world-with-agent-skills> - Skills first introduced in Claude Code

https://code.visualstudio.com/updates/v1_108 - VSCode release support skills

<https://code.claude.com/docs/en/monitoring-usage> - Claude OTEL, also supports Cowork.

<https://www.mindstudio.ai/blog/anthropic-billing-controversy-harness-detection> - harness and billing

Connect



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