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AI Platform Basics

A basic introduction: what an AI product platform is made of and why demos do not become production by themselves

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Speaker Context

Technical Director & Fellow, T-Technologies

- Architecture and engineering R&D
- AI adoption in SDLC
- Focus: platform, not chat



Part 1

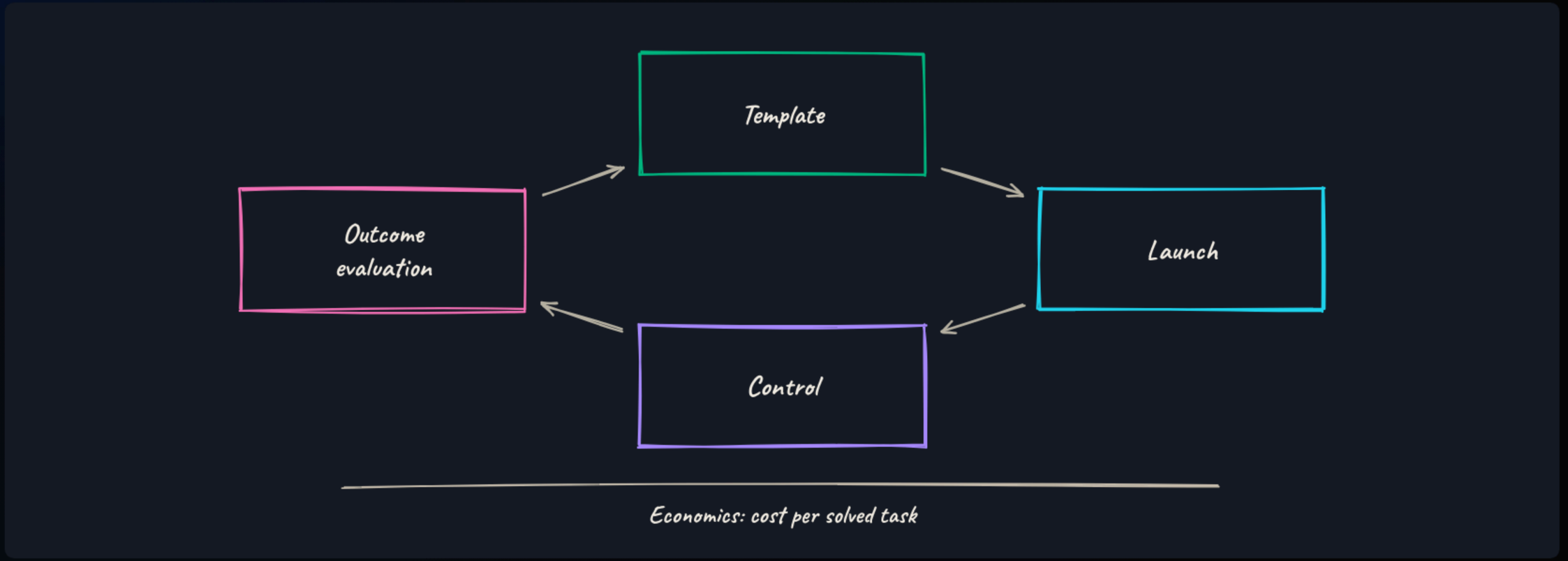
01

Why an AI platform

Moving from impressive demos to a repeatable way of shipping AI products

AI features quickly need a production loop

Context Demo to system



Problem Without platform

AI demos do not become products alone

Models do not solve operations

- Teams reselect the stack
- Quality failures are not reproducible
- Rights and knowledge drift
- Cost is detached from value



Part 2

02

AI platform components

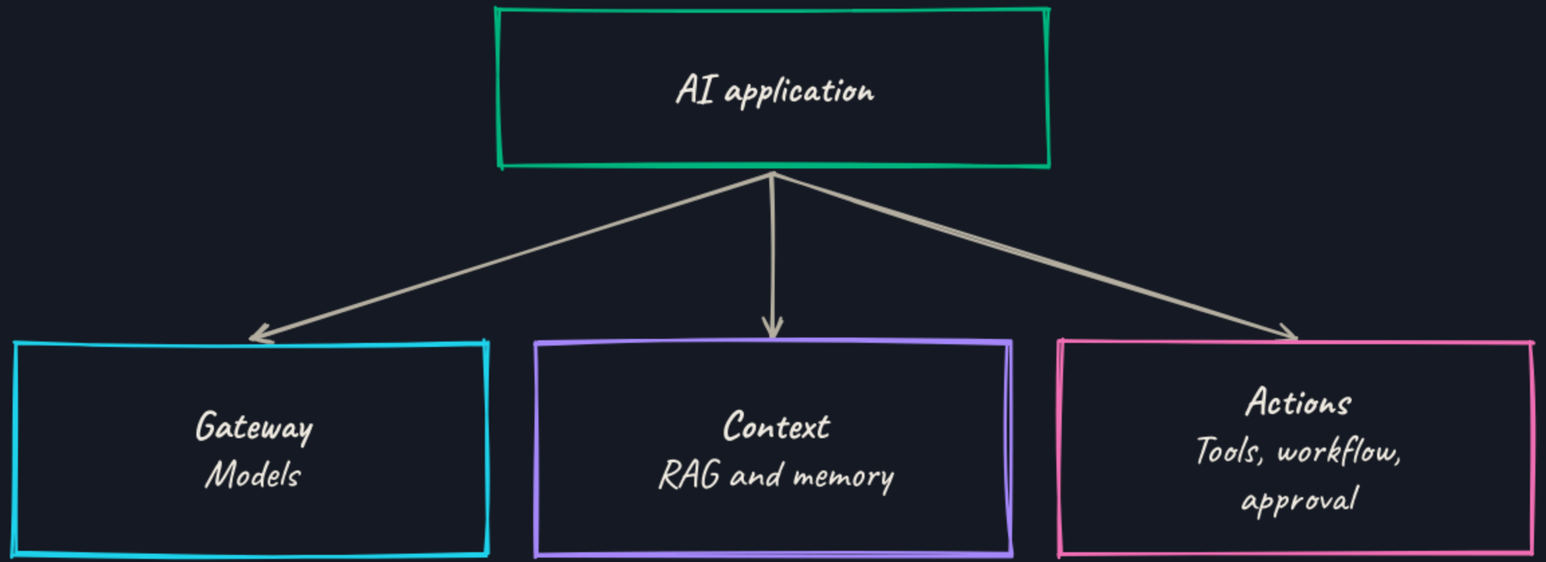
Model layer, context, tools, security, evals, observability and economics

What layers make up an AI platform

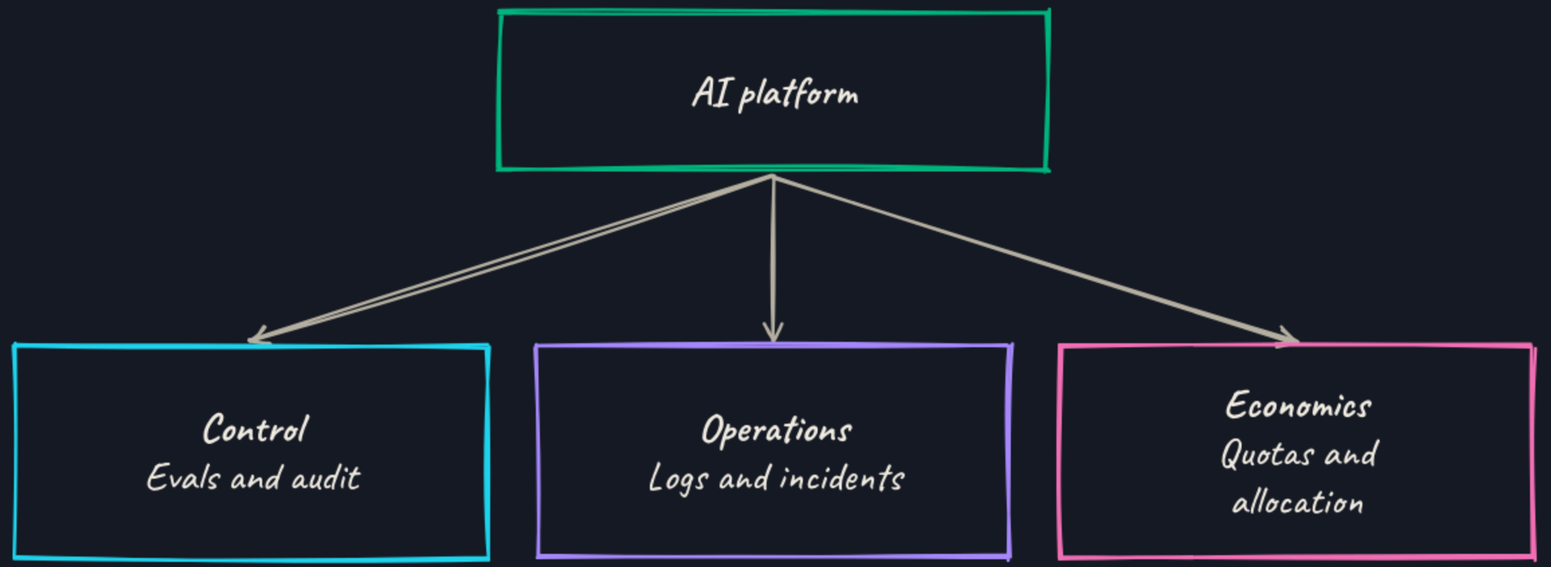
Layers | Layer cake



Runtime: models, context and actions



Govern quality, operations and cost



The gateway is the control point

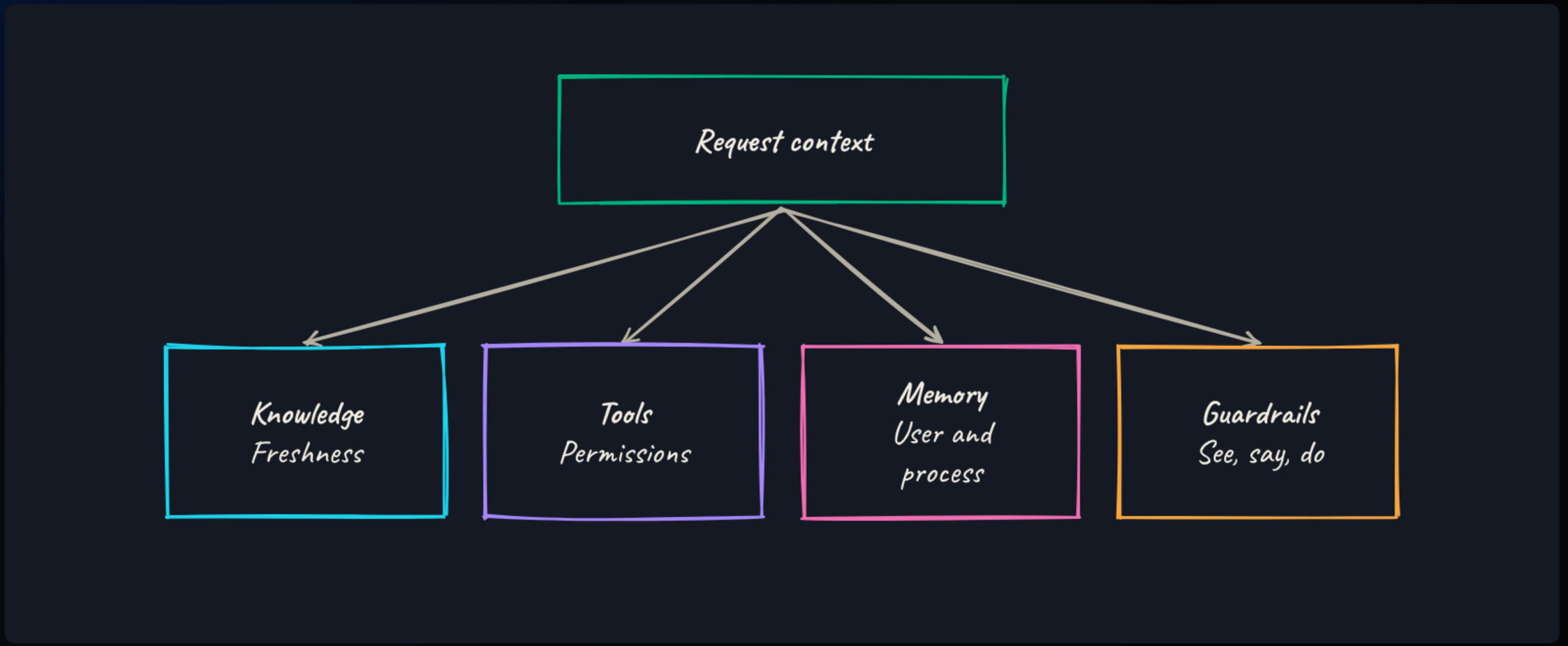
Gateway Models



The product defines quality, latency and fallback

Quality starts with context

Context RAG / Tools





Part 3

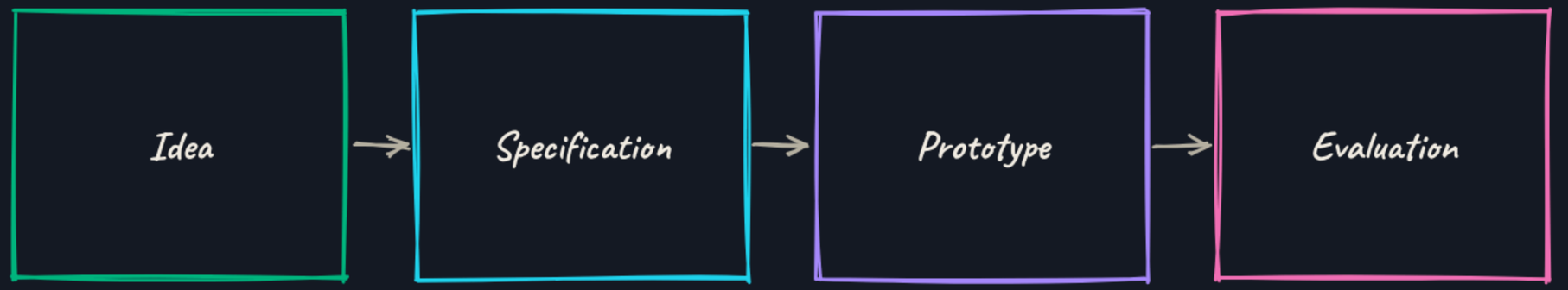
03

AI product lifecycle

From idea and spec to eval, release, monitoring and improvement

AI product lifecycle

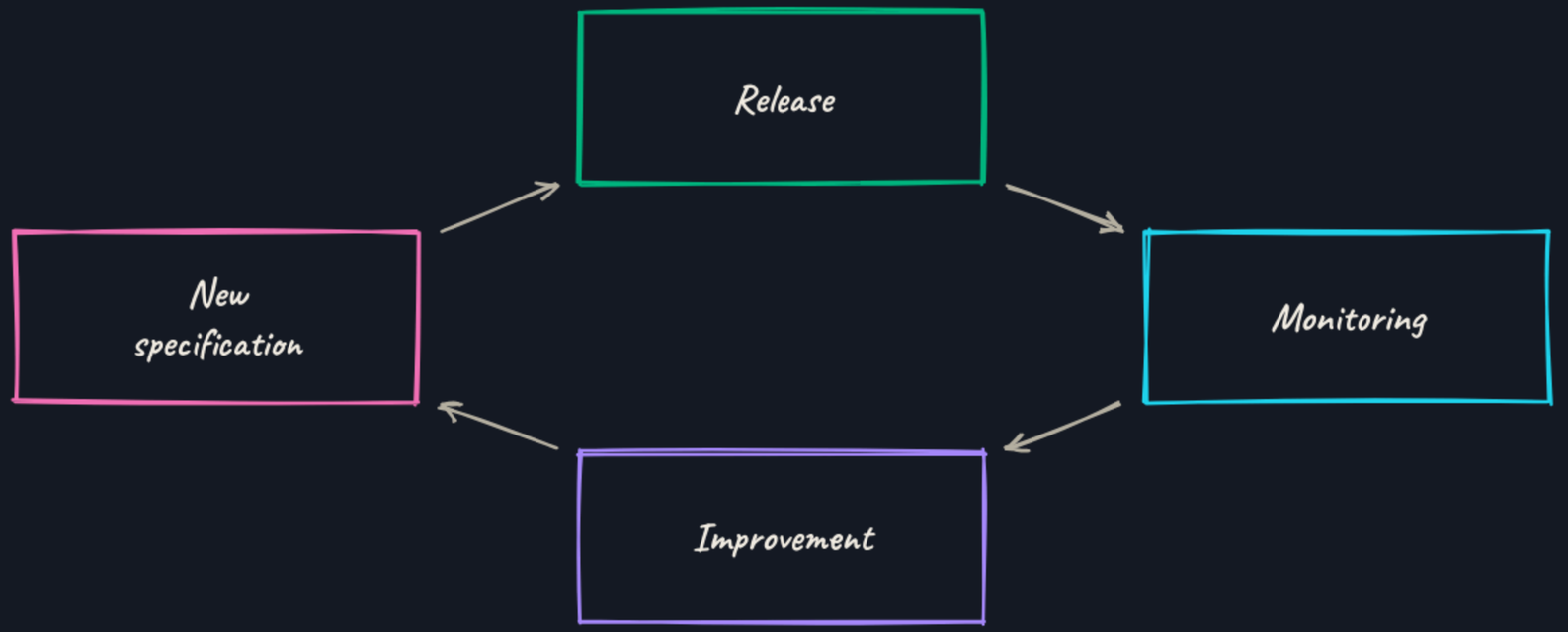
Lifecycle Loop



Every step leaves a reproducible artifact

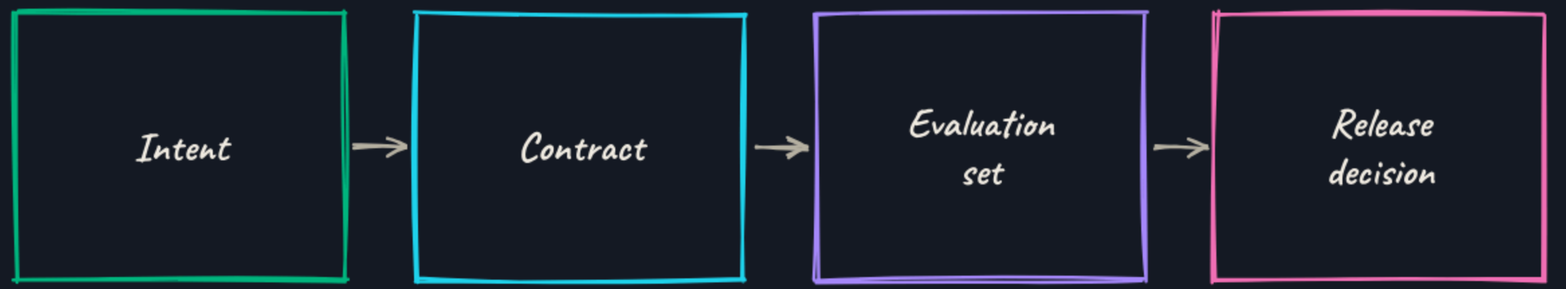
The lifecycle continues after release

Lifecycle Loop



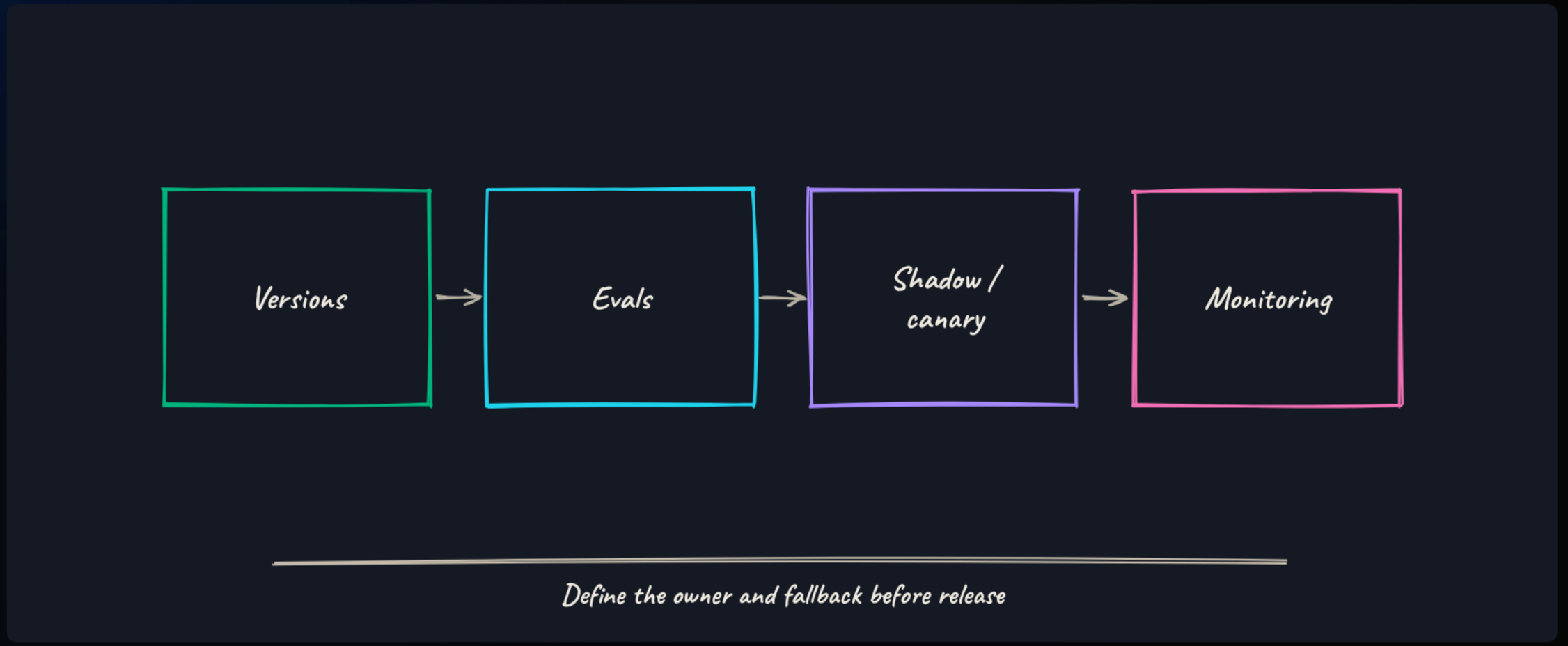
Spec and eval anchor behavior

Build Spec + Eval



AI features ship as changes

Release `Safe release`





Part 4

04

Platform operating planes

Build-time, run-time, control-plane and cost-plane as four separate management tasks

The platform works across four planes

Planes `Build / Run / Control / Cost`



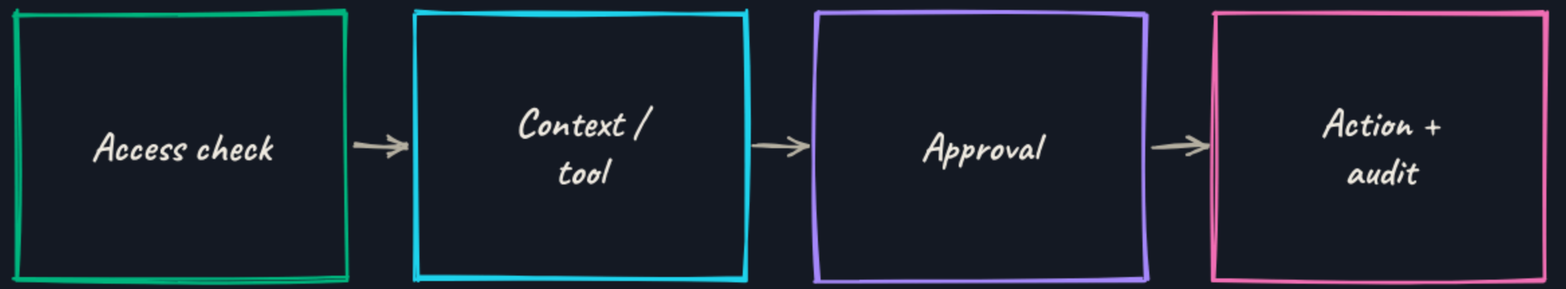
Accountability | Platform vs Product

Platform rails, product accountability

Platform	Product
Gateway · RAG	Use case and UX
Evals · audit	Knowledge and quality
Golden path	Readiness and risk

Guardrails live in the platform

Security Guardrails





Part 5

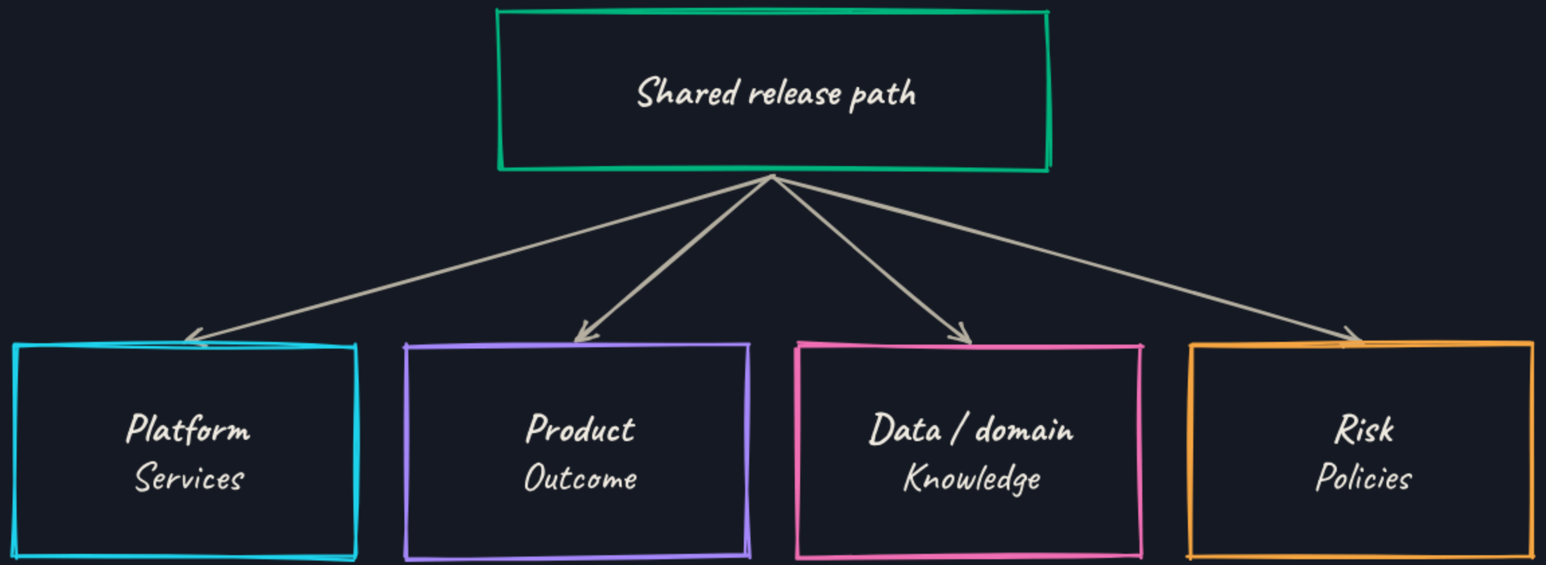
05

Operating model and maturity

Who owns the platform, scenarios, data, risk and economics

AI platform accountability model

Model Ownership



How to measure AI platform maturity

Metrics | Maturity

Speed	Quality	Reliability	Economics
First AI feature in <2 weeks	Scenarios with evals >80% Exceptions via review	Fallback coverage >90% End-to-end traces	Cost per task measured

What we take into AIOps / LLMOps

Summary Bridge

Next: operations, agents, evals, economics

- Platform = repeatable AI launch
- Minimum: gateway, context, evals
- Platform provides rails
- Product owns quality and risk

- Next step: manage the AI system as a working product

Materials

For further reading

Sources References

- OpenAI, Claude, Gemini, Yandex docs.
- LangChain platform concepts.
- Cloud/Data Platform/DataOps lectures.