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AI Agents

Beyond the prototype

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Introductions

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17 YoE in Data+AI

Focus areas:

- Public sector / digital sovereignty
- GenAI
- Data+AI governance
- Angel investing

Cloud Data+AI platform

> 20.000 customers

> 4B ARR of which >1B in AI

> 100B valuation

The rise of AI agents: Transforming work and society

The rise of the AI manager

e high-performing digital teammates, the professionals who

AI agents will do the grunt work of coding

How AI Agents Are Changing the Way We Learn

Agent hype is everywhere

AI agents: from co-pilot to autopilot

Can one person build a billion-dollar company now with AI agents?

The Rise Of The Hybrid Workforce: Humans And AI Working Together

INNOVATION

The Rise Of AI Agents And The Future Of Data

An agent workforce could be on the horizon

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Decoding AI ROI Paradox: Why 85% of Projects Die in Production

88% of AI pilots fail to reach production but that's not all on IT

The tough task of making AI code production-ready

Between 70-85% of GenAI deployment efforts are failing to meet their desired ROI

Reasons Why Generative AI Pilots Fail To Move Into Production

CIOs' lack of success metrics dooms many AI projects

But, agents could still be easier

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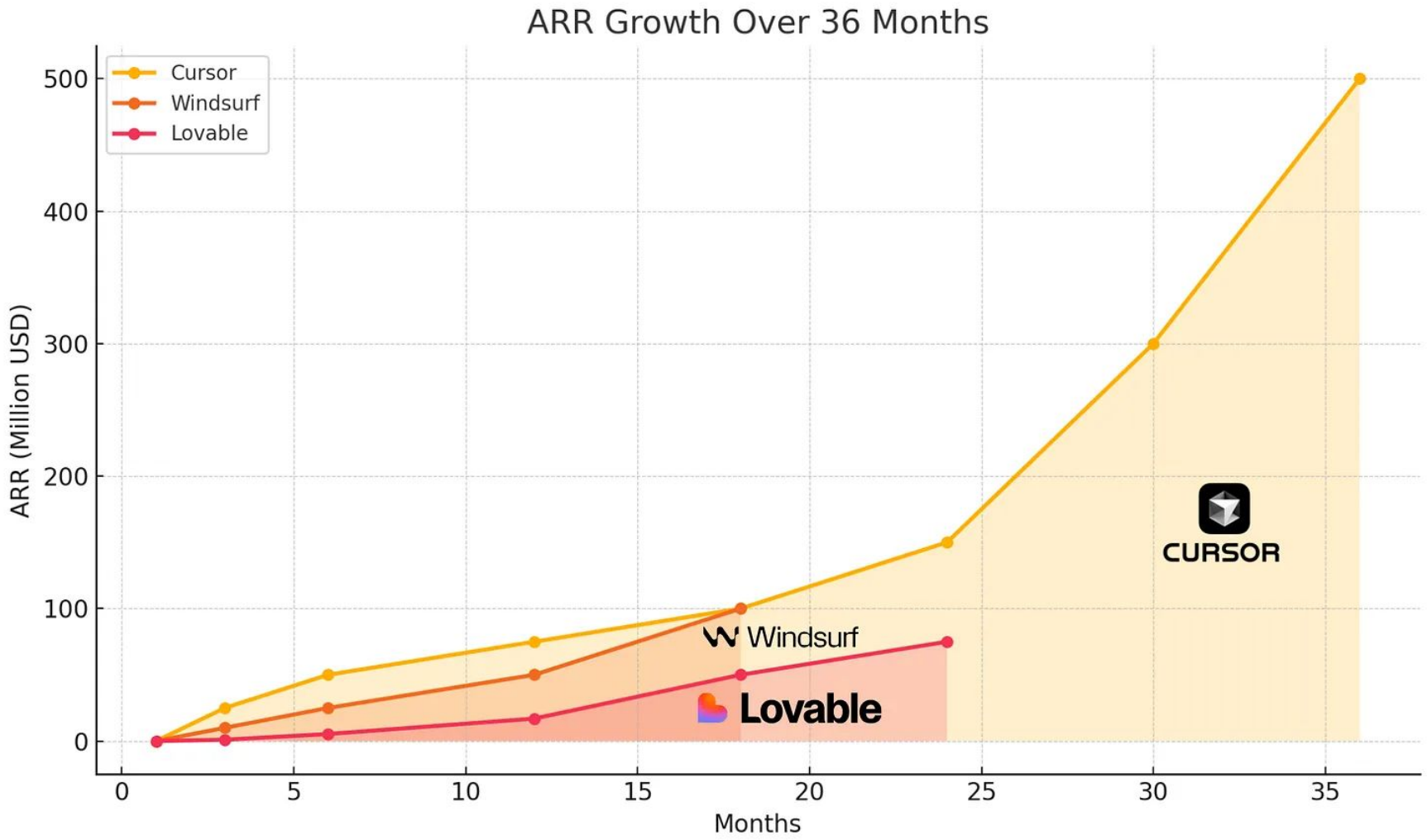
Agentic AI can clearly be very successful and productive



https://corpwaters.substack.com

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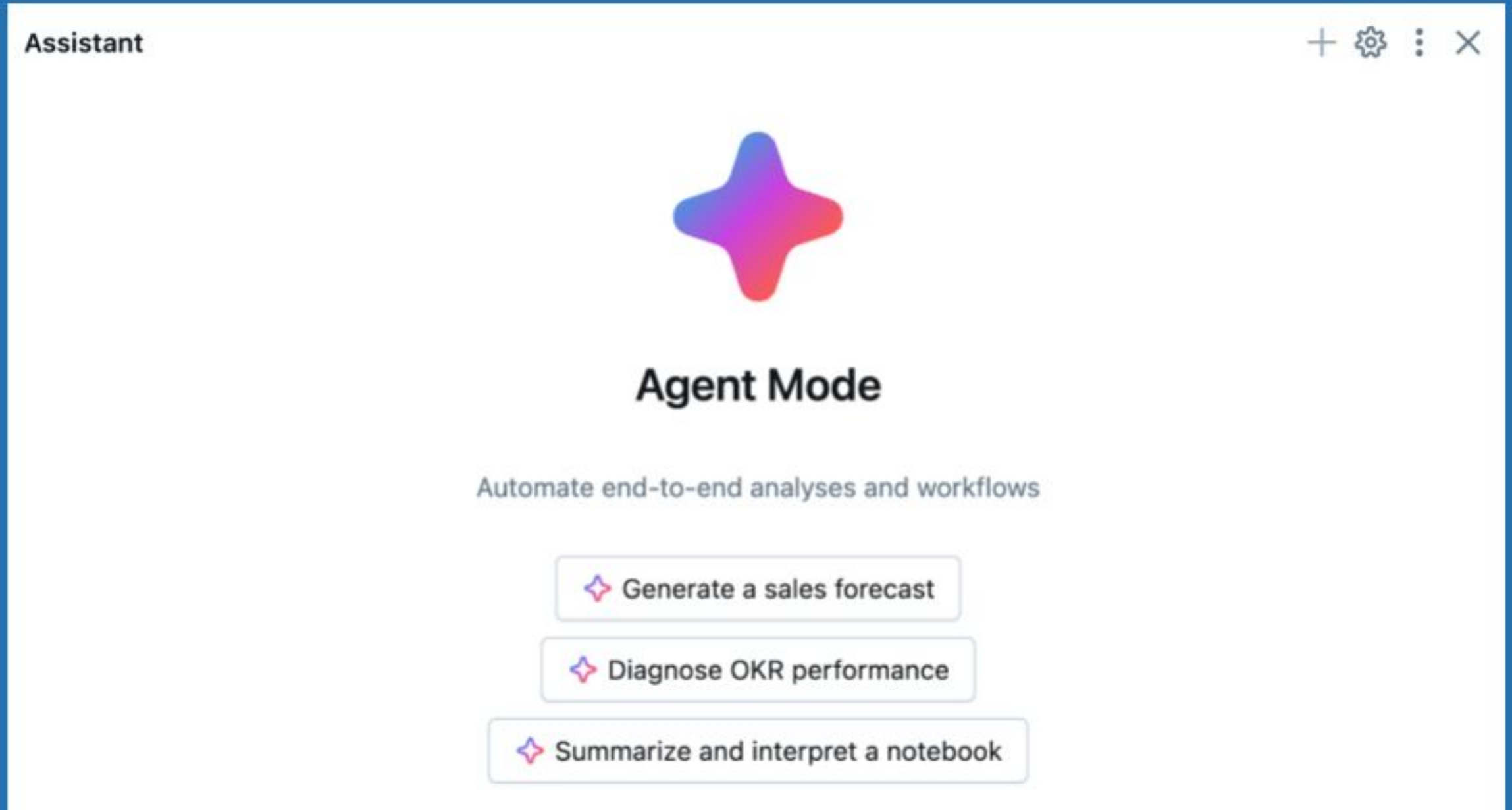
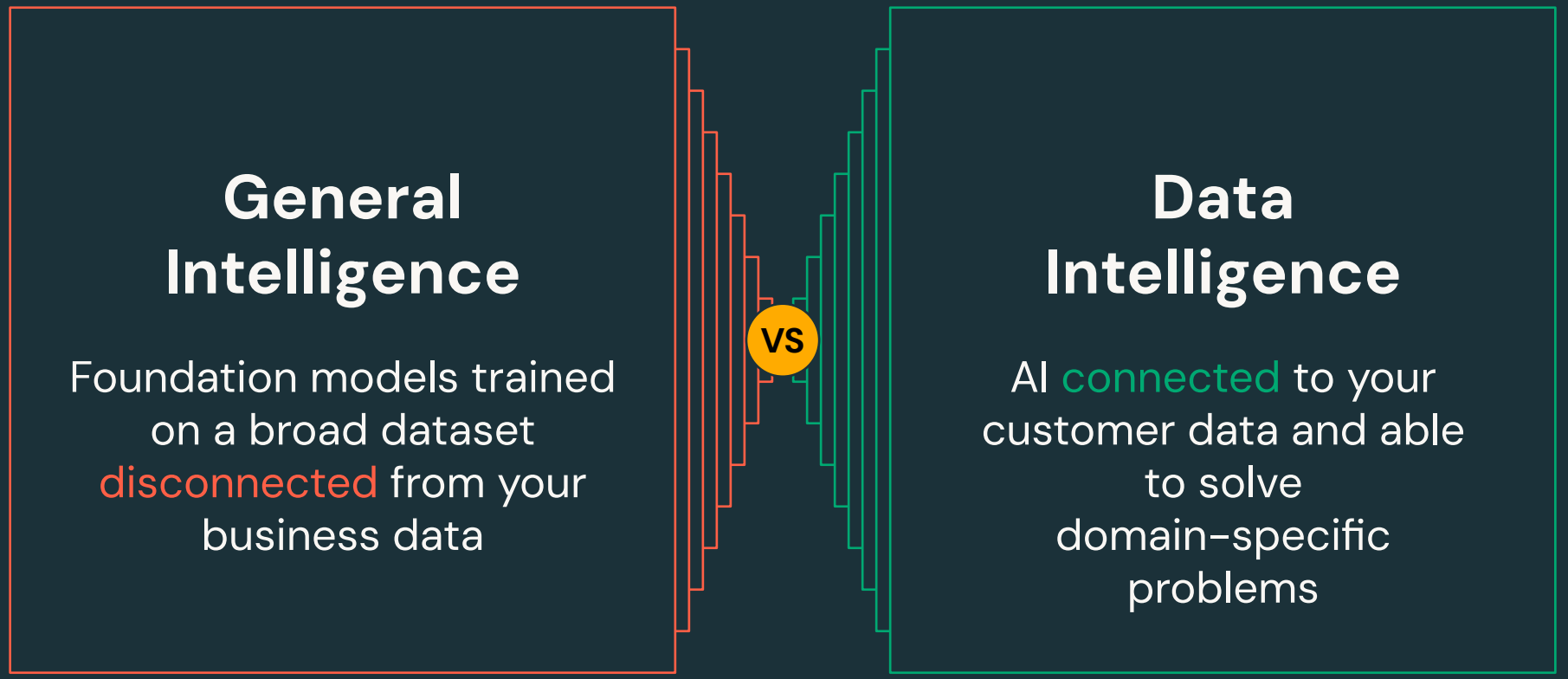

Assistant
Agent Mode
Automate end-to-end analyses and workflows
Generate a sales forecast
Diagnose OKR performance
Summarize and interpret a notebook

Code is *unambiguous*
100% verifiable
Human-in-the-loop
Fast feedback cycles

Beyond code...

General Intelligence fails for enterprise use cases



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What is an Agent?

An Agent making actions by retrieving your data and calling your API … an Agent is a LLM acting if it has a brain

"Can you help me return my last order?"

"Done! Here is your shipping label…"

Agent

Reason about what to do

I should look up the recent order and our return policies.

Find information

1. *Look up the user's last order*
2. *Query our policy documents*

Reason about what to do

The return policy is <…>, order <id> fits within this policy.

Take action

Start our return process

Reason about what to do

I should let the user know I've started their return & send the shipping label.

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Common Agent Design Patterns

By now, these can all be procured 'as-a-service'

AI/BI Genie **Agent Bricks**

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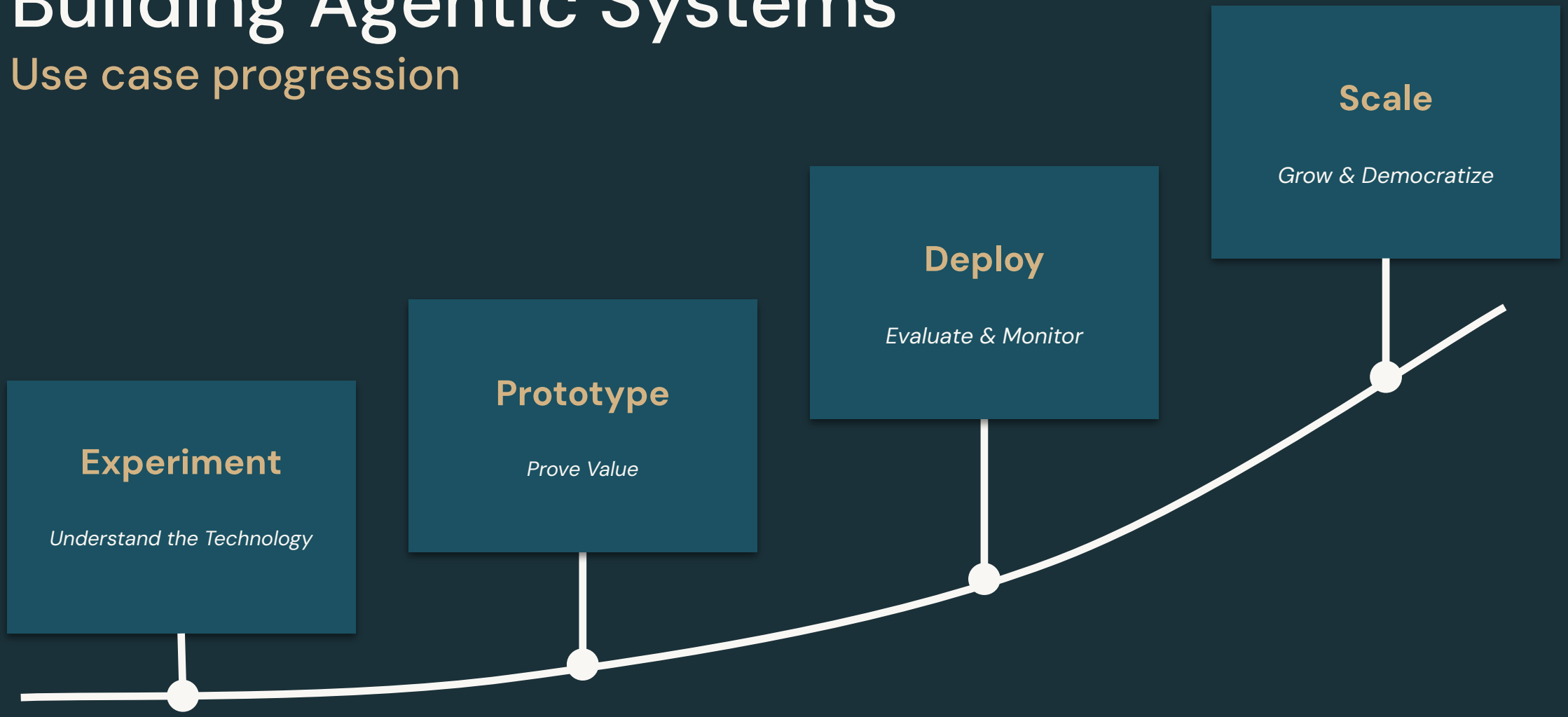
Building Agentic Systems

Use case progression



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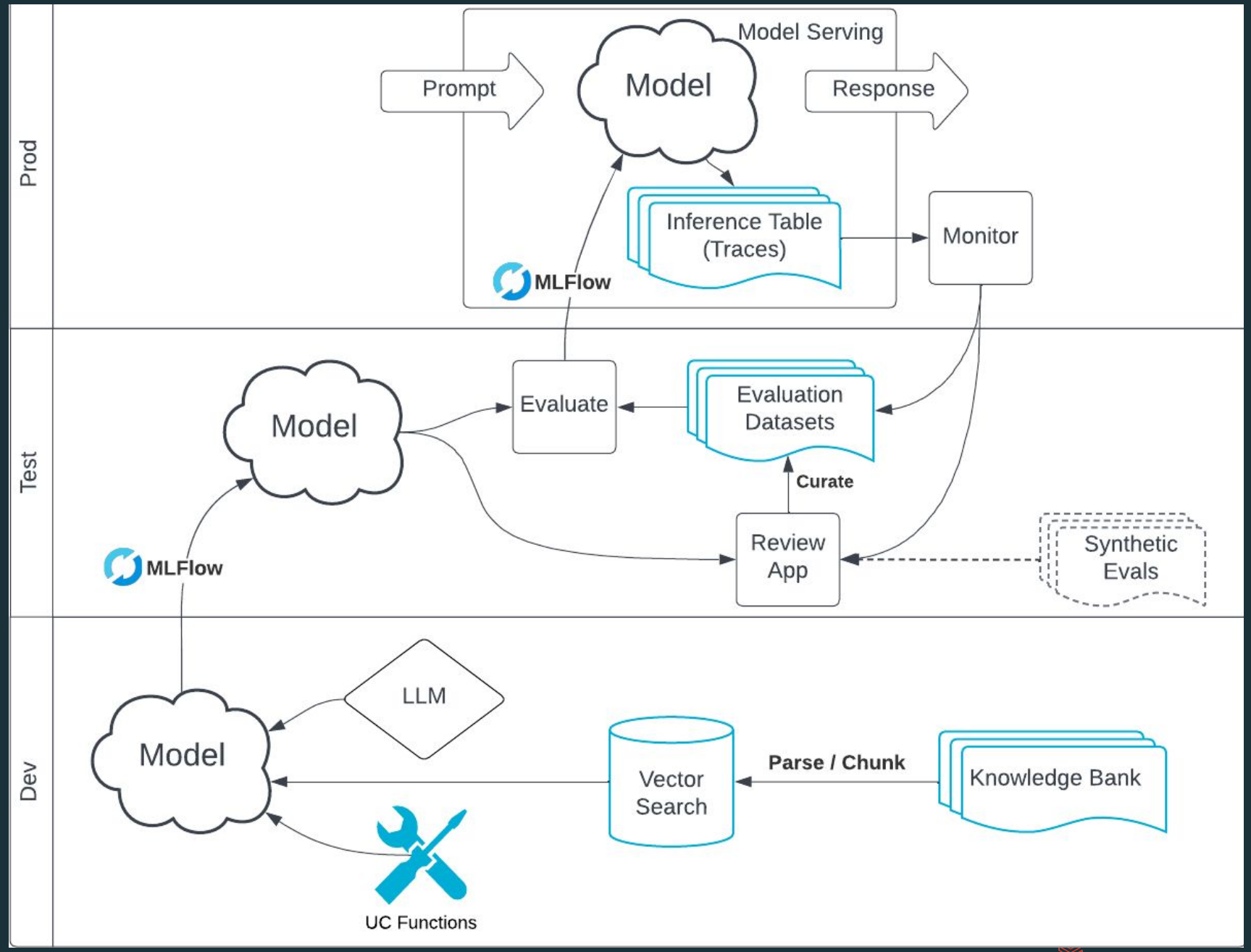
AI Pipeline

Agent Framework

- Rapid Development
- Evaluation Datasets
- Human Feedback
- Automated Evaluation
- Deployment
- A/B Testing
- Auditing/Tracing
- Monitoring



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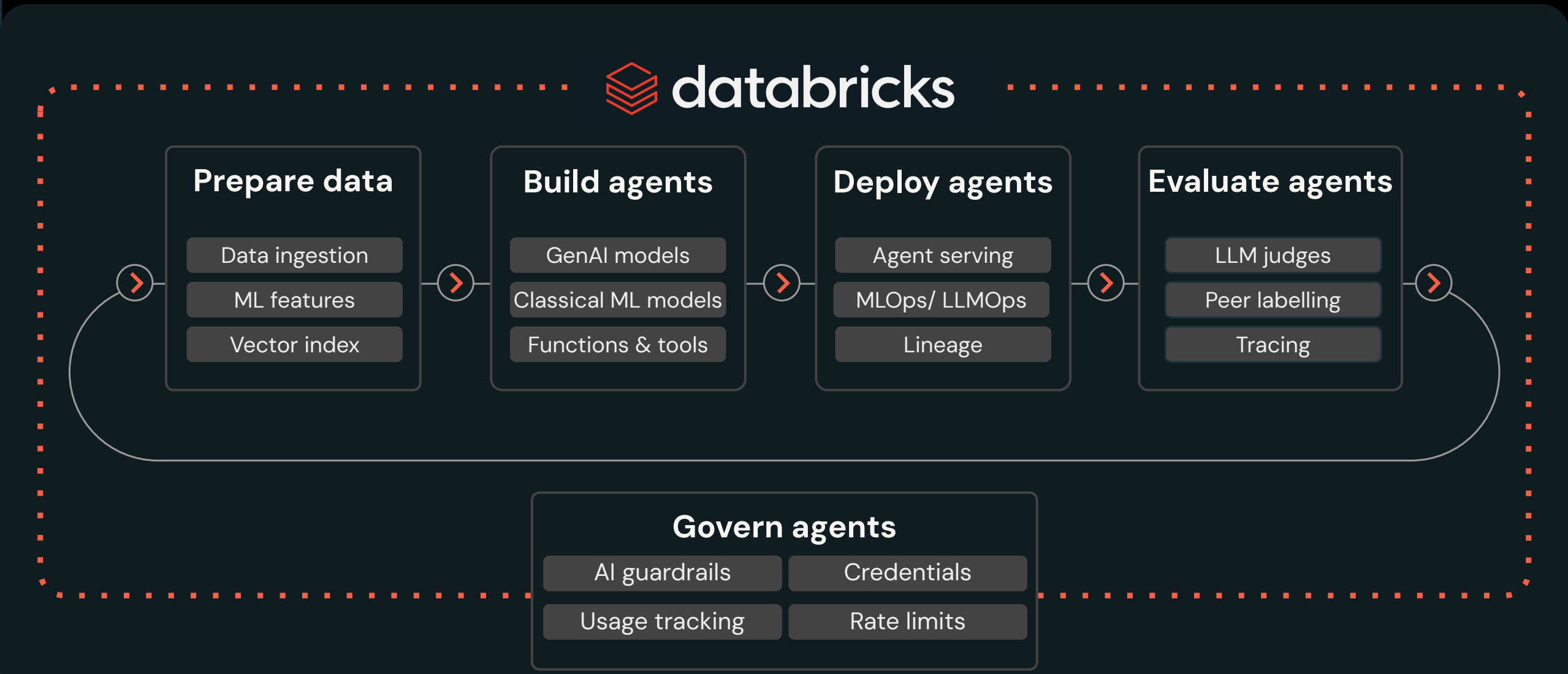
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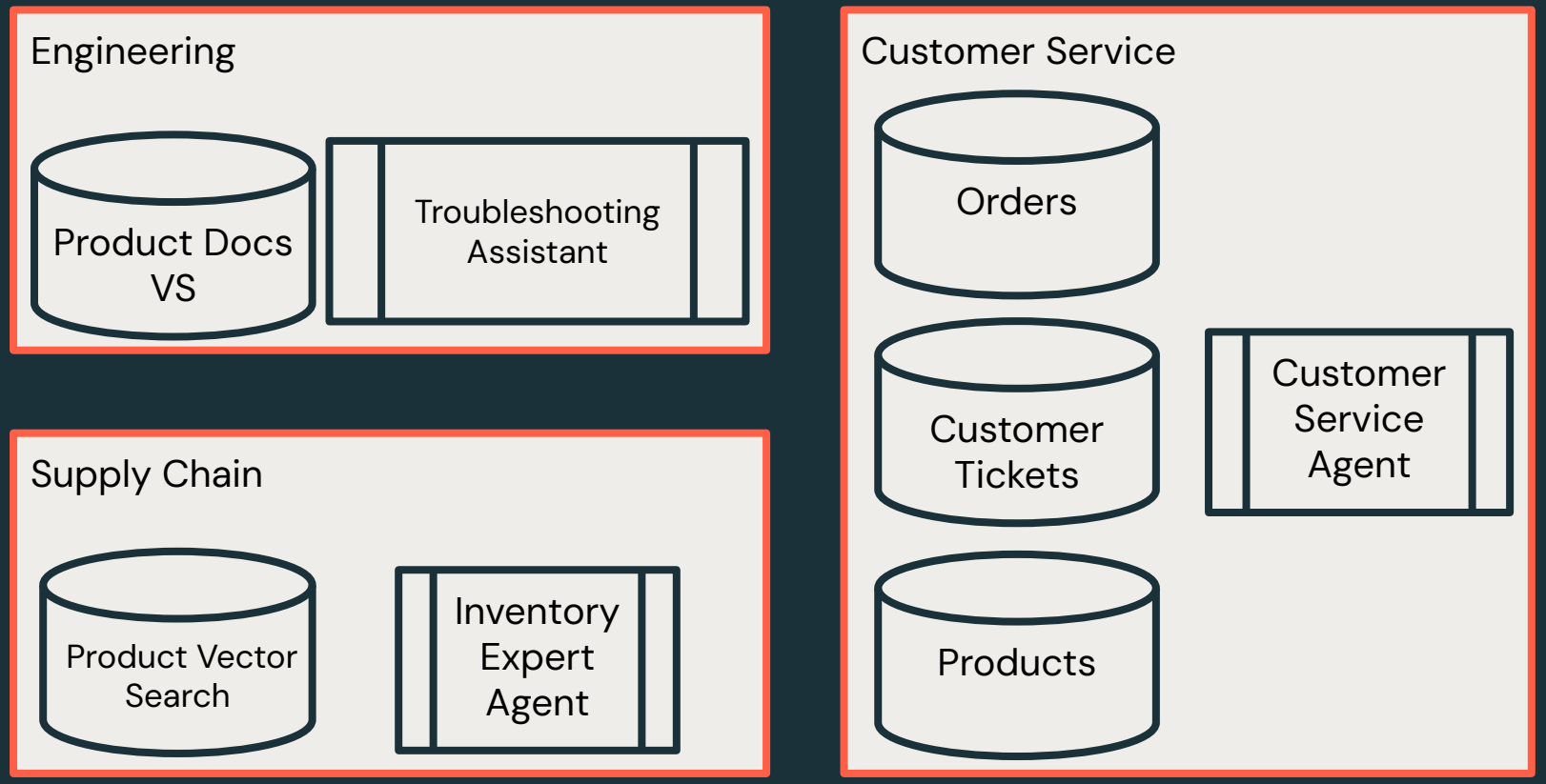
Prepare data
Data ingestion
ML features
Vector index
Build agents
GenAI models
Classical ML models
Functions & tools
Deploy agents
Agent serving
MLOps/ LLMOps
Lineage
Evaluate agents
LLM judges
Peer labelling
Tracing
Govern agents
AI guardrails
Credentials
Usage tracking
Rate limits

Beyond the single agent…

Governance Risk of Current Methods

Isolated Implementations



- Duplication of Efforts
- N Sources of Truth
- Change Management

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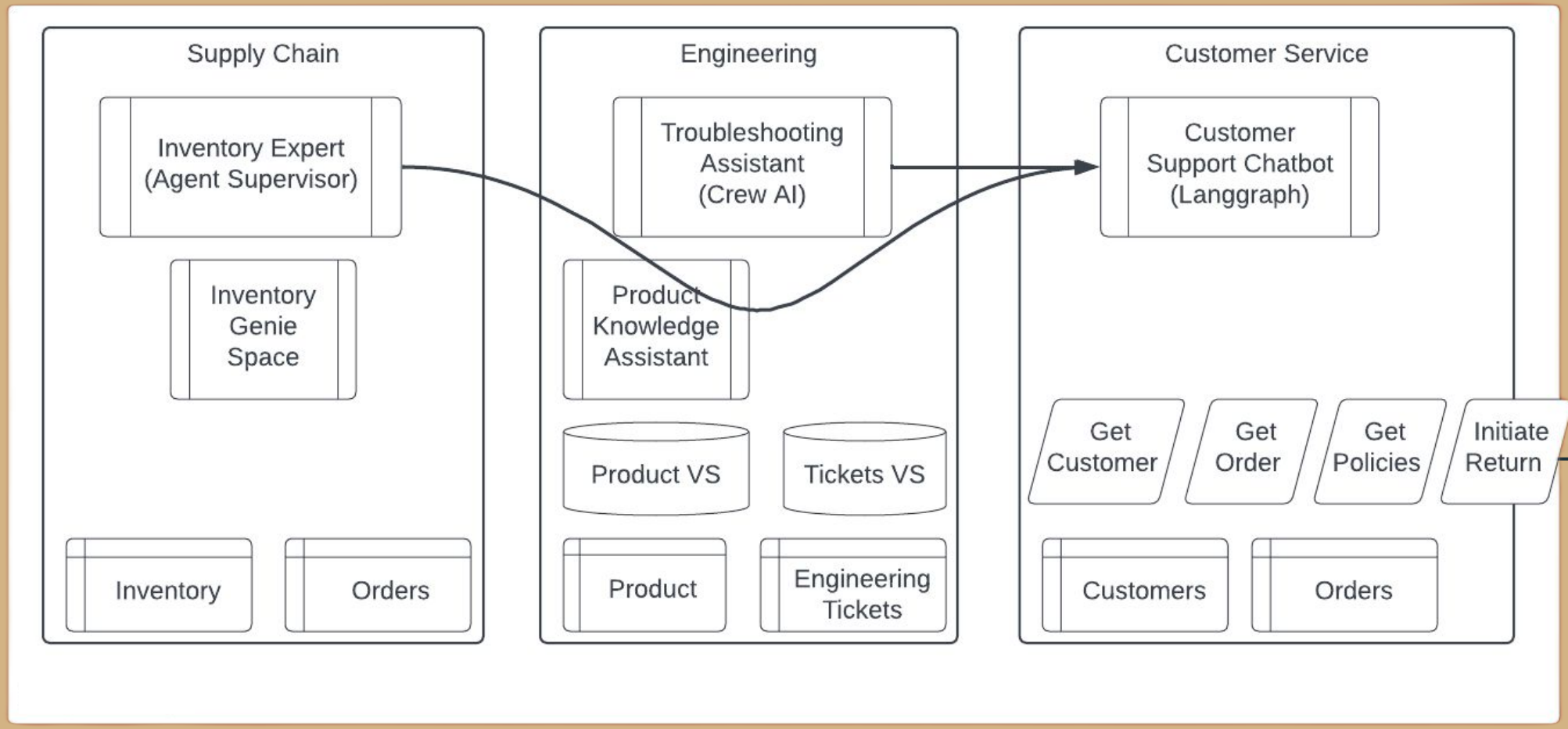
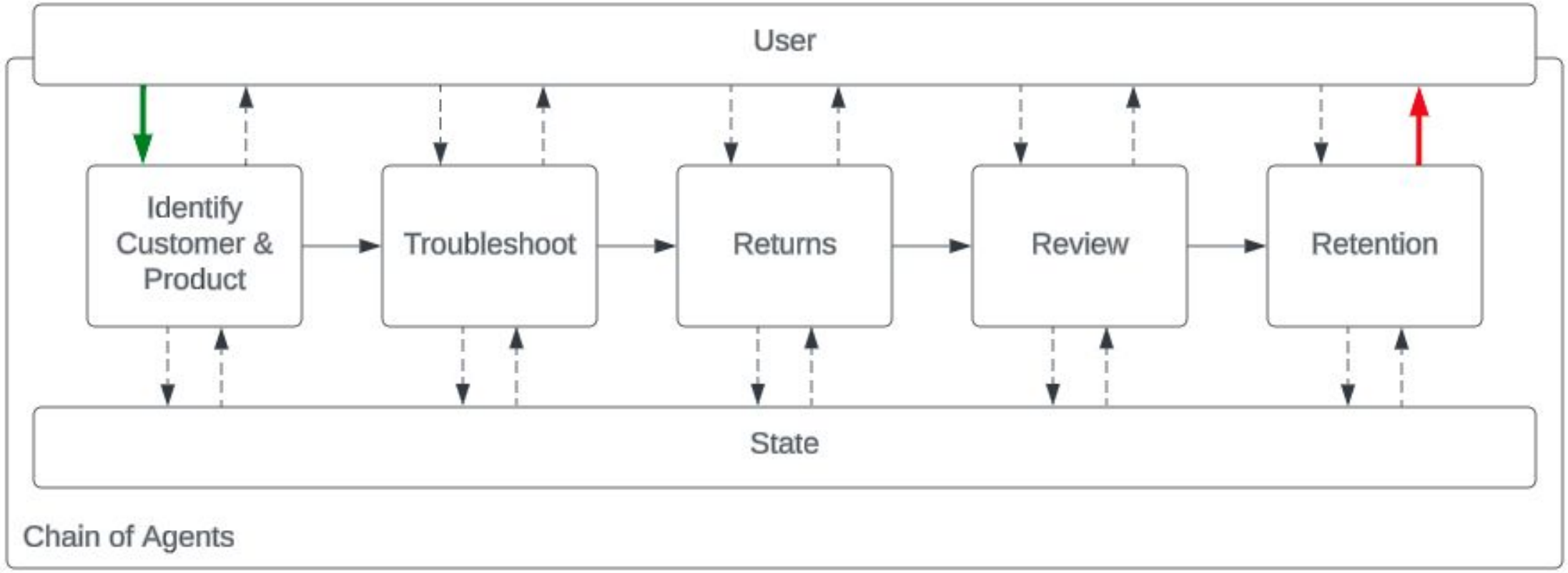
Data and Agent Reuse

Governed, provisioned and secured



Agent Chain

Agentic System



CNBC DISRUPTOR 50

Databricks is buying database startup Neon for about $1 billion

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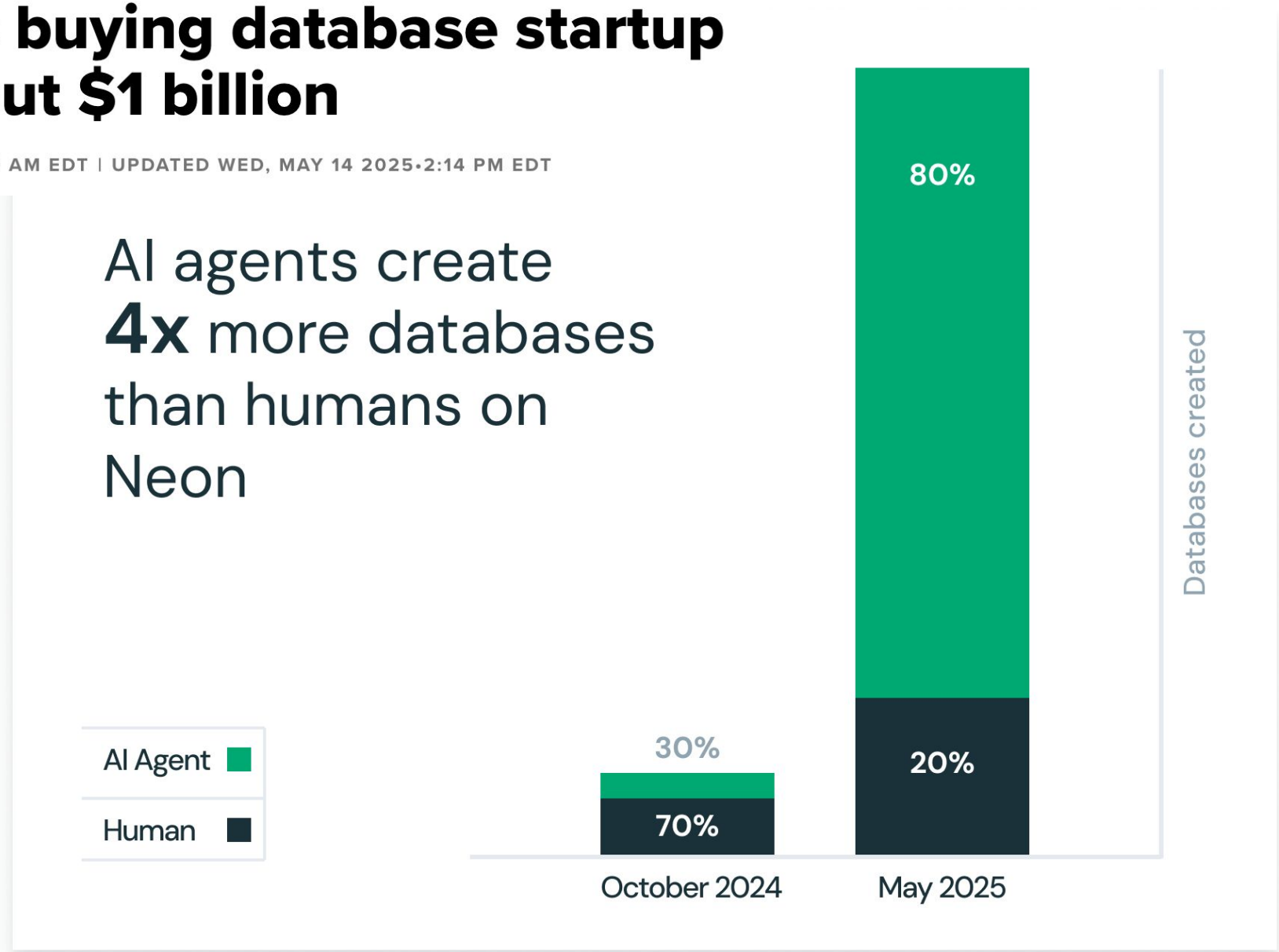

Multi-agents, now you need to...

- Integrate auth/SSO
- Define governance and access controls around data and models
- Manage app infrastructure/containers
- Integrate into a VPC
- Deploy a database to manage agent state
- Integrate with observability tools
- Configure audit/access logs
- Upgrade packages/models

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Unified governance is key
to making AI agents
(and multi-agents)
successful at scale

(And you can do all of this on Databricks today)

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