



# **Platform Strategies Accelerating AI Initiatives**

Andy Domeier, Sr. Director - Technology

## Agenda

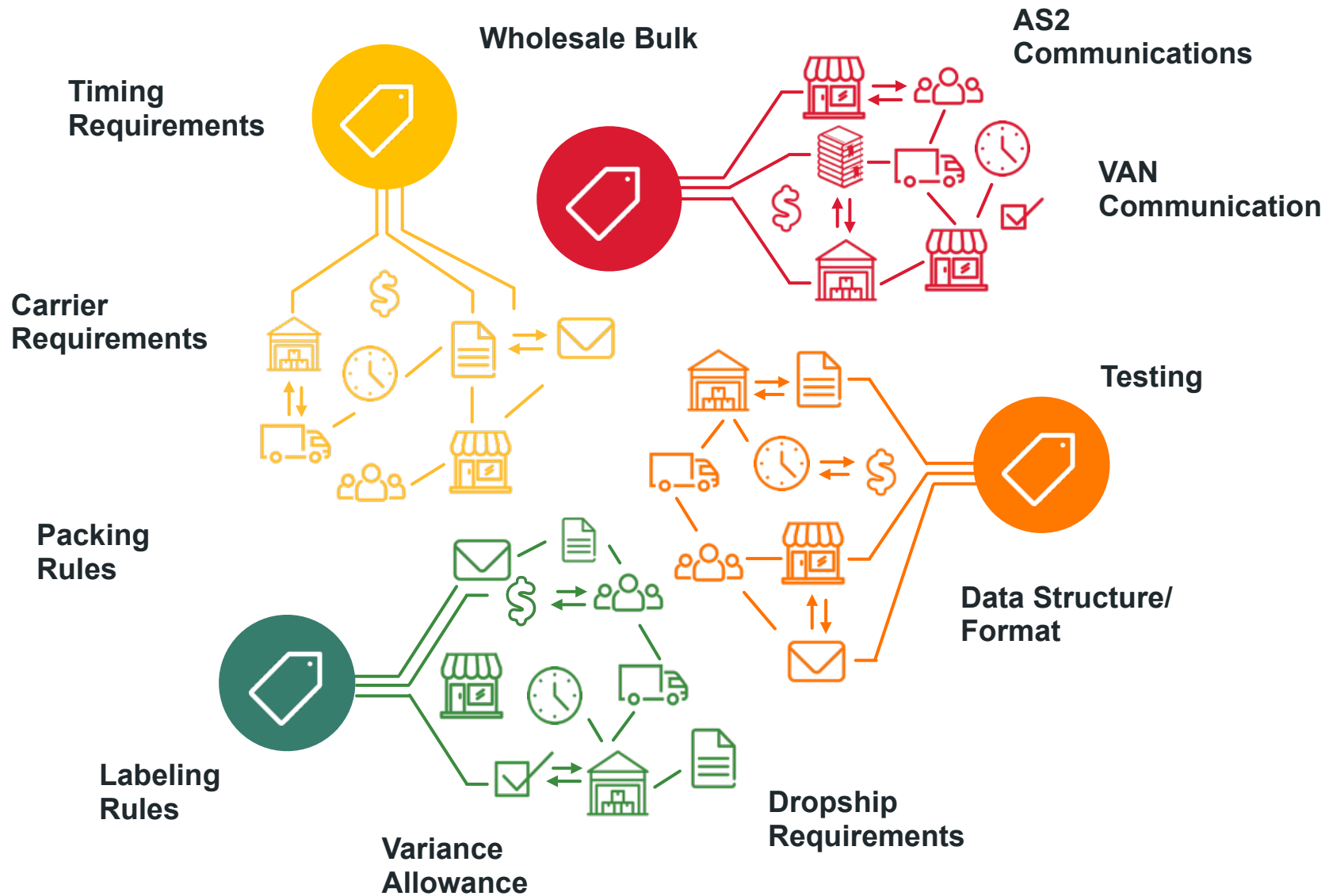
- Introduction
- Movements from our Past
- An Approach to Mobilizing AI
- Wrap up



# Supplier Business Needs are Complex

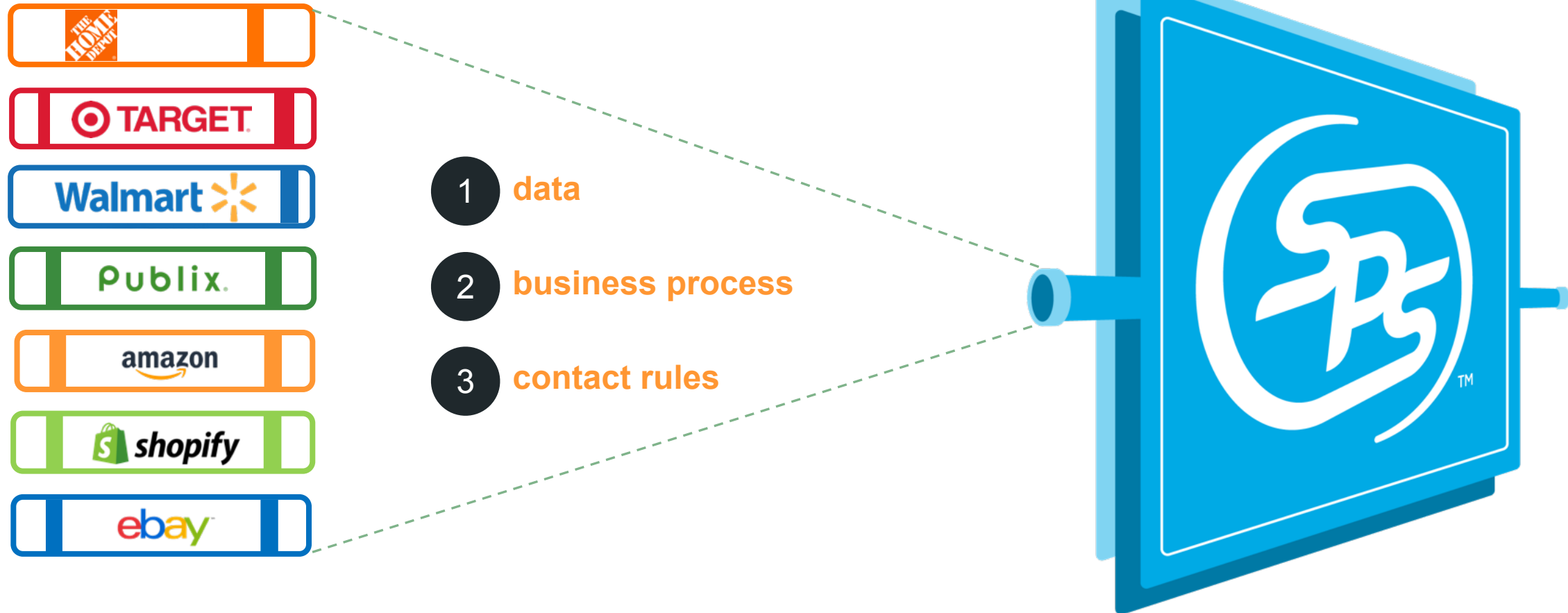


# Every Retailer Has Unique Rules and Expectations



- 1 Data/Information Exchange
- 2 Business Processes
- 3 Contacts

# Prebuilt All Retailer Expectations into a Single Connection



**Gen AI – We've seen similar movements in the past....**

**We've seen similar with  
cloud computing...**



\*AI prompt used to generate this image:  
Create a funny picture depicting cloud computing





\*AI prompt used to generate this image:  
Create a funny picture depicting microservice architecture

**We've seen this before with  
Microservices Architecture**



## What did we learn from past movements?

Infrastructure as Code & Repeatable Deployment Patterns

Managed Services Offer Incredible Scale & Availability

Observability is a Requirement

API Strategies are Necessary to Scale Access to Data Securely

Advanced Scaling & Scheduling is Important (Kubernetes)

# What did our learnings produce?

- A lot of them produced concepts found in Platform Engineering:
  - Cloud Implementation Strategies
  - Network & Service Mesh
  - Scalable Compute: Kubernetes & Serverless
  - Deployment & Immutable Artifacts like Containers
  - Observability: Metrics, Logs, & Traces
  - API Gateway Strategies
    - Identity & Authentication
    - Authorization
    - Entitlements
- Outcome of these Learnings:
  - Enable product engineers to focus as much of their time as possible on the customer problem to be able to deliver value quickly and securely by solving “differentiated engineering” centrally

**GenAI – It's Coming..... It's mostly already here....**

### 3 Perspectives for Applying GenAI



Leverage Vendor  
Features



Corporate or Internal  
Services & Tooling



Customer Facing  
Feature

# Leverage Vendor Features

- SaaS Organizations are well positioned to offer meaningful value via GenAI technologies with lower friction than running your own services



\*AI prompt used to generate this image:  
Create a funny picture depicting customers waiting in line  
to pay a service provider for an easy button



# Corporate/Internal Implementation (an SPS Story)



- Corporate/Internal implementations of GenAI are a great opportunity to explore GenAI safely with business benefits:
  - Securely control access with standard corporate authentication and networking
  - Easily govern appropriate data
  - Quick & engaged feedback loops
  - Potential for quick efficiency wins
- #TeamSPS Sparky
  - Accurate Internal Information:
    - Company Policies & Benefits
    - Helpdesk & Technical Troubleshooting
    - Developer Platform Documentation
    - Retailer Rulebooks
  - Marketing & Sales Assistance
    - Style & Branding
    - PowerPoint & Image Creation
    - Personas for Training

\*AI prompt used to generate this image:  
Create a picture depicting an internal AI assistant named Sparky, intended to help improve business efficiencies

# Customer Facing Features

- AI Product Features have the Potential to Increase:
  - Customer Satisfaction
  - Market Perception
  - Sales Close Rates
  - Revenue

But.....

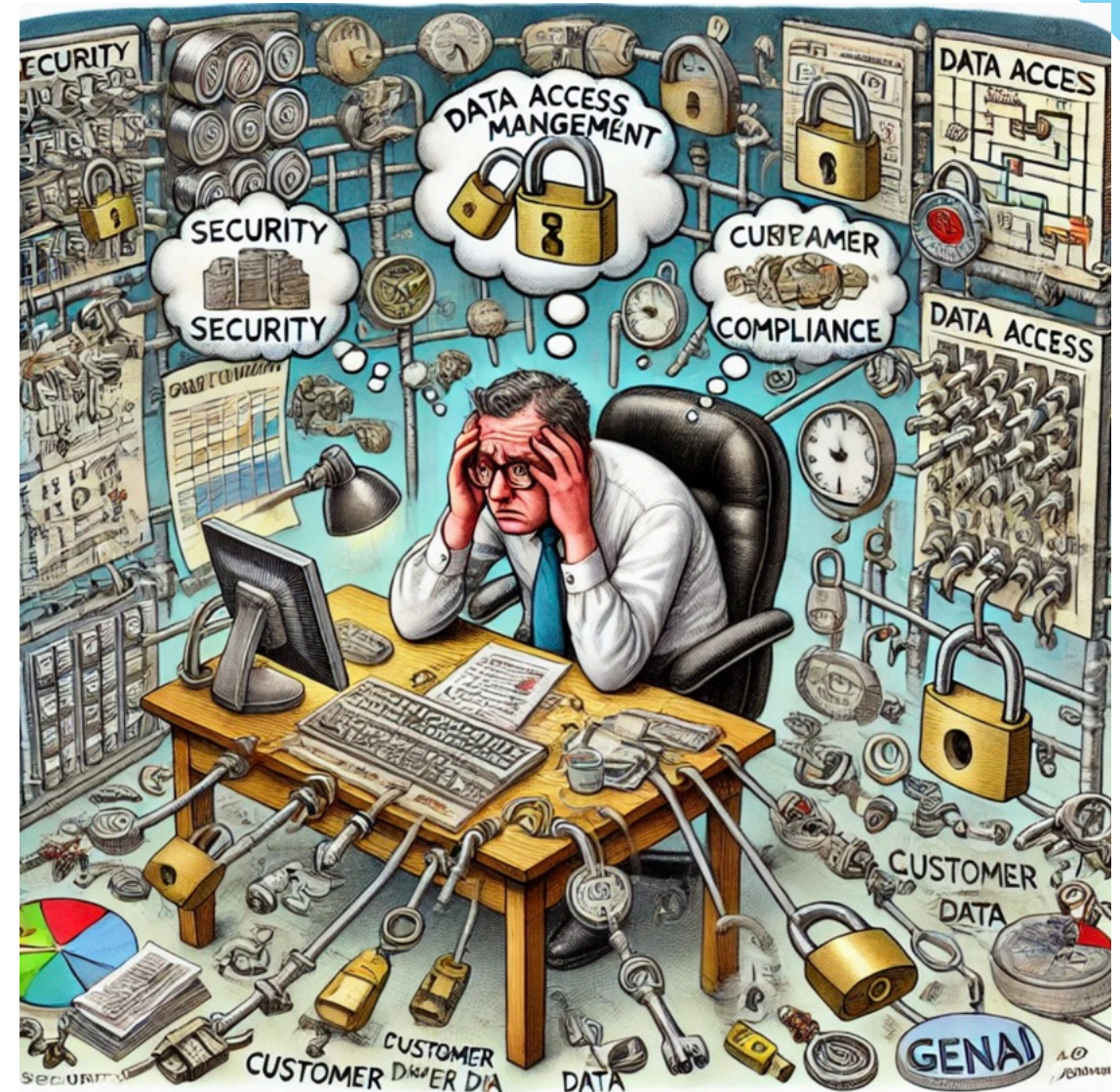


\*AI prompt used to generate this image:  
Create a meme in the spirit of the Oprah "You get a" meme  
with a "you get an AI Tool" theme



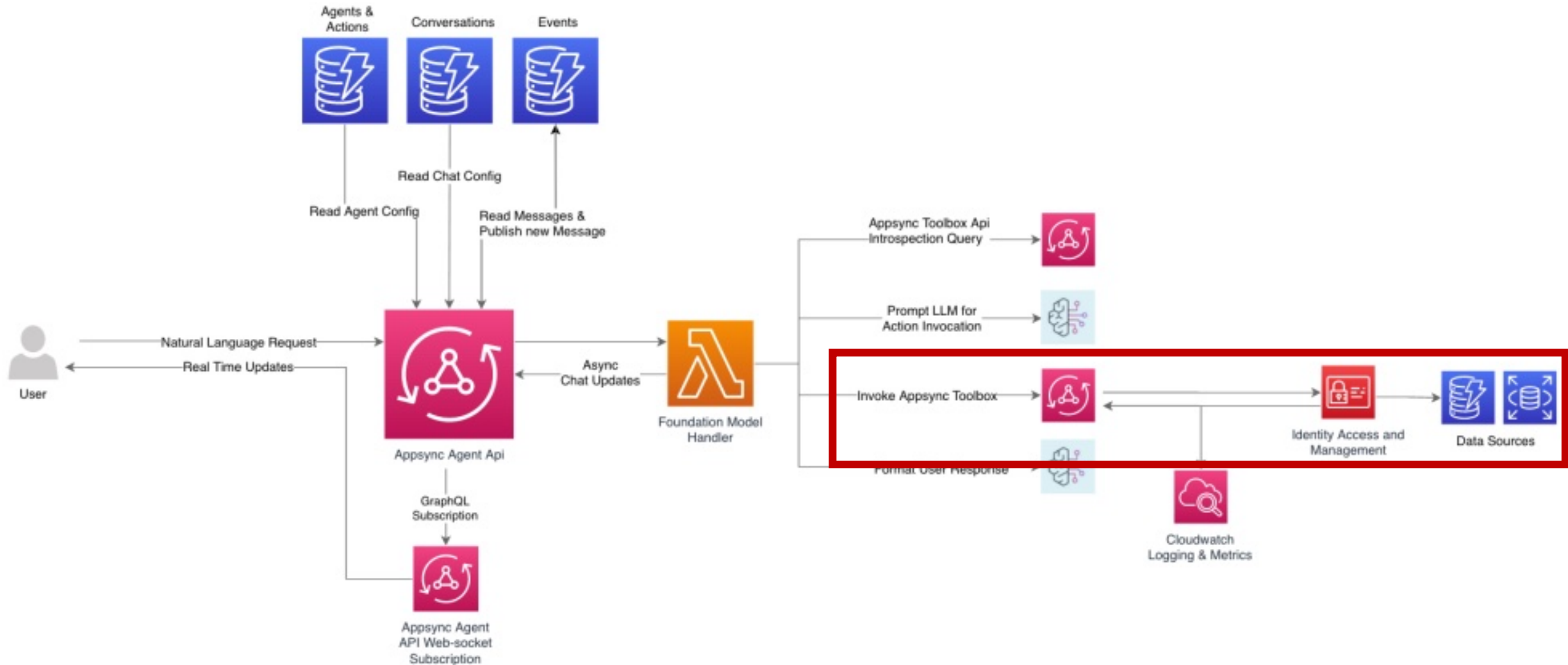
# Customer Facing Features

- But..... It's publicly available and associated with customer expectations now. How do you:
  - Ensure it's highly available?
  - Resolve performance issues quickly?
  - Have the utmost confidence in your security and data access?
  - Accurately meet the legal requirements for you and your customers?



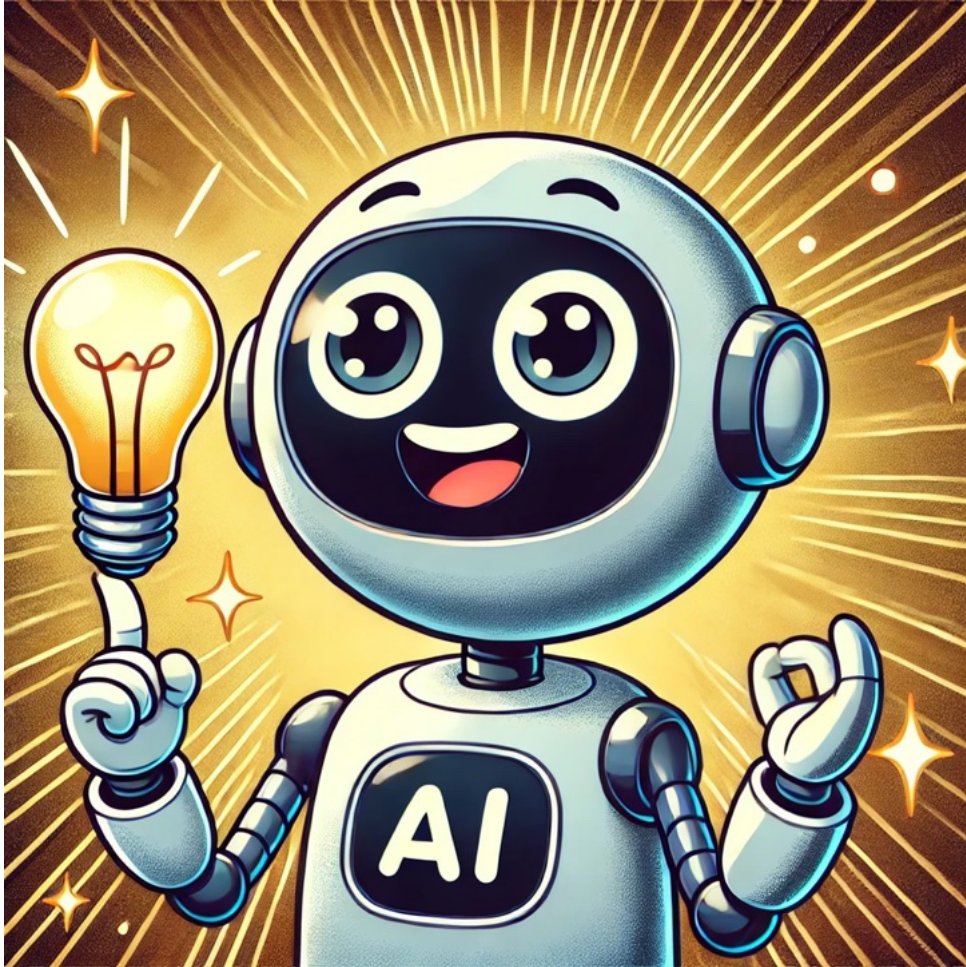
\*AI prompt used to generate this image:  
Create an image that depicts the anxiety associated with figuring out data access management for a production customer facing GenAI feature

# Example: AWS Bedrock + AppSync





## Wait...this sounds familiar!



\*AI prompt used to generate this image:  
Can you use the character you used earlier as "Sparky"  
but put it in an image inferring a moment of having an  
epiphany?

- Ensure it's highly available?
  - We leverage our platform that spans multiple AZs in multiple regions
  - We leverage cloud managed services where possible (OpenAI + Bedrock)
- Resolve performance issues quickly?
  - We leverage observability tools built into our platform for metrics, logs, and traces
- Have the utmost confidence in your security and data access?
  - We leverage our API strategy which includes Identity, Authentication, and Entitlements
- Accurately meet the legal requirements for you and your customers?
  - You're on your own... but you should get started on this in parallel. 😊

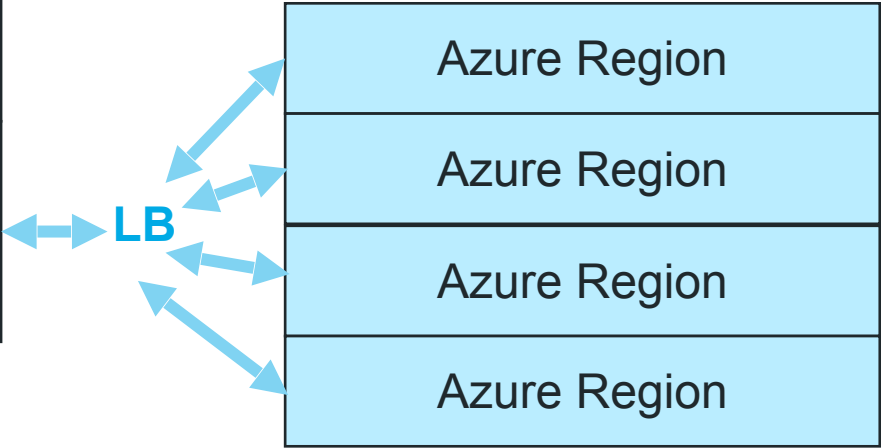


# The Story Visualized

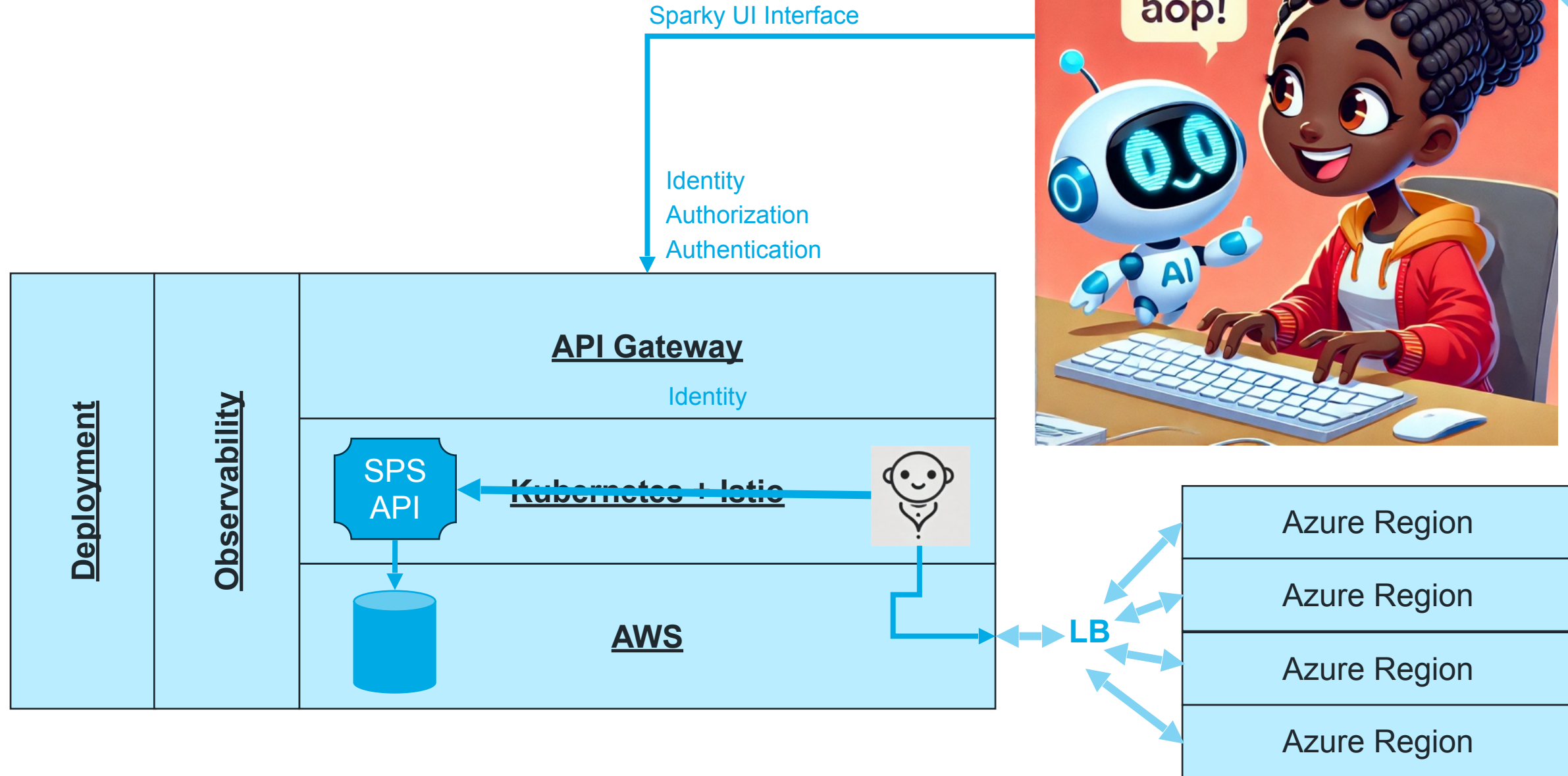
\*AI prompt used to generate this image:  
Create a funny image of a human using sparky



<u>Deployment</u>	<u>Observability</u>	Identity	Authentication
		Authorization	Entitlements
		<u>API Gateway</u>	
		Scalable Compute	Cross Region Custers
		Multi-AZ	
		<u>Kubernetes + Istio</u>	
		Centrally Managed Networking	Multi-AZ
		Automated Policies	Multi-Region
		<u>AWS</u>	
		Multi-Account	



# The Story Visualized



## The Wrap Up



Platform and API Gateway services will help you build, deploy and operate AI services quickly and safely



Consider categorizing implementations of AI so you can accelerate where it's safe or align your efforts to value



GenAI is a movement, we've seen movements before



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**Thank You**

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