



1983



1986



1991



1996



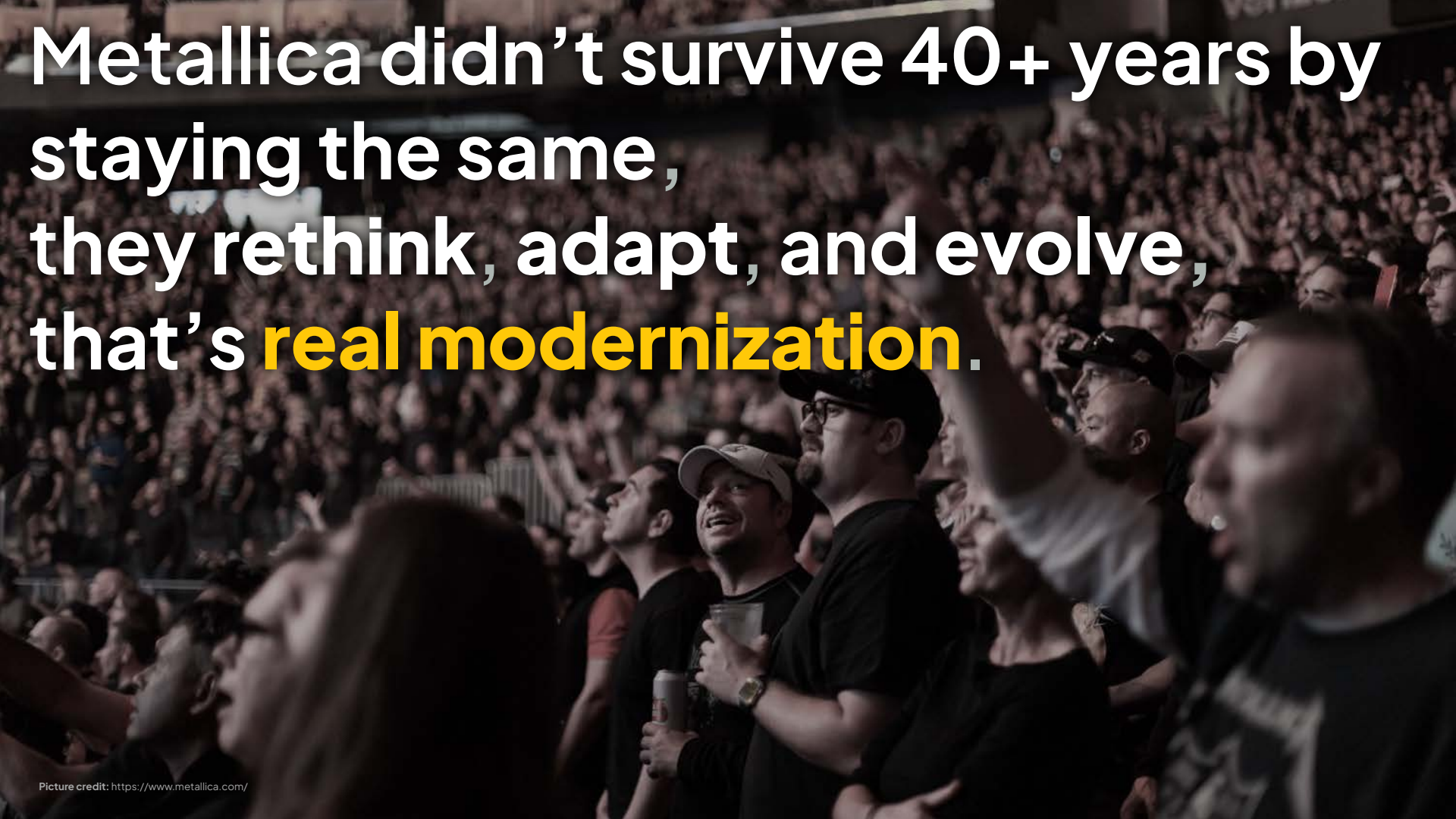
2016



2017



2023



Metallica didn't survive 40+ years by staying the same, they rethink, adapt, and evolve, that's **real modernization**.

WSO2CON2025

The Modernization Mindset – Rethink, Adapt, Evolve.

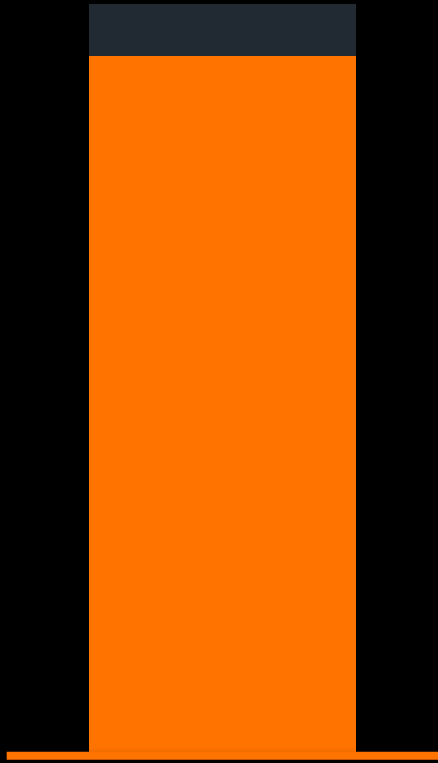


Asanka Abeysinghe
CTO
WSO2

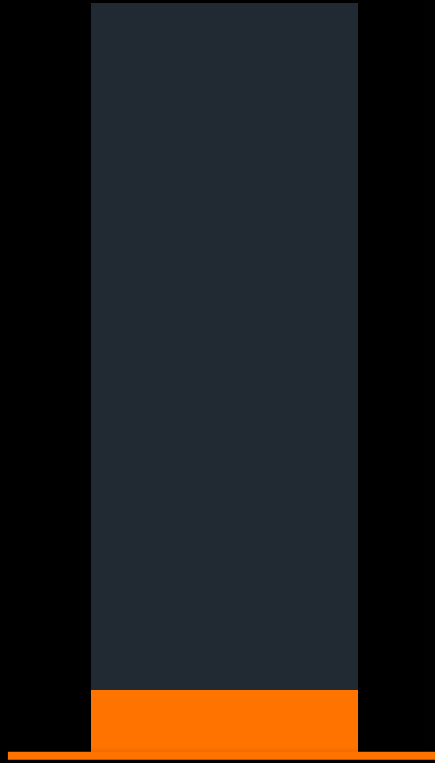


Looking back... .





Cognitive load



Energy



3 things to focus on

• **Mindset** (*approach*)

• **Architecture** (*structure*)

• **Value** (*purpose,  nothing else matters*)



Mindset



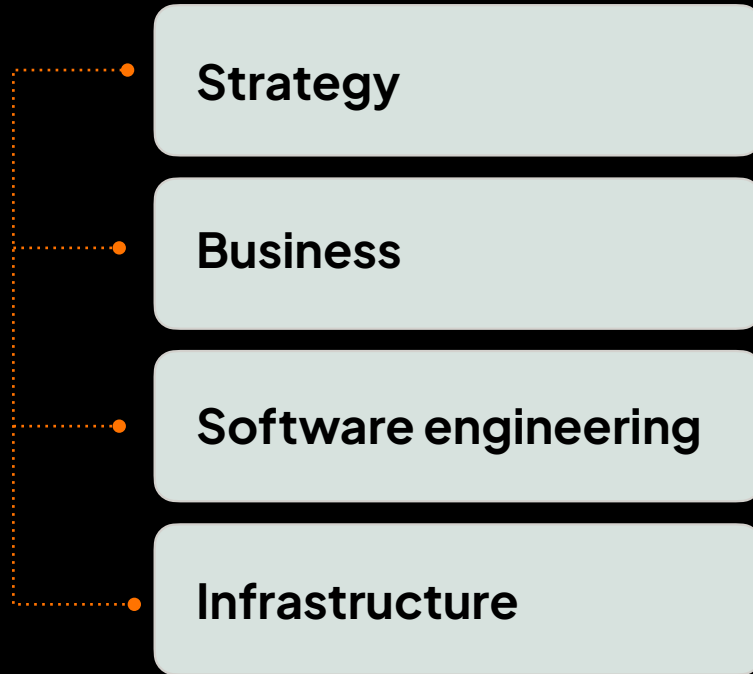
Execution





Photo by Dean Bennett on Unsplash

Multi-level approach to modernization



Modernization **styles**

Re

- host
- platform
- architect
- build
- place

Architecture



Decentralized

with federated
governance.





Control Plane



Data Plane



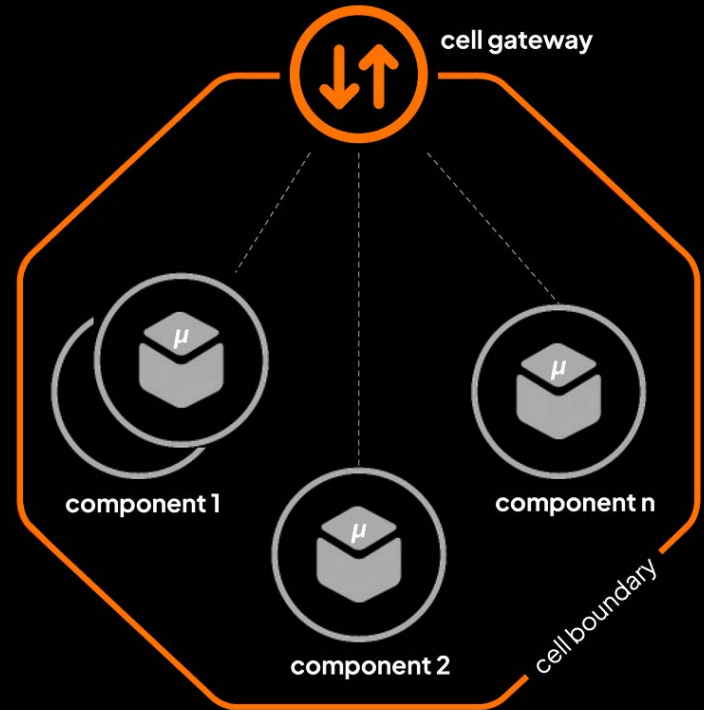
Cells give structure to life, just like the foundation of modern software systems. Without them, everything would be a “**big blob of mush**”! – Paul Fremantle



Cell: units of enterprise architecture

A **cell** is a collection of **components**, grouped from design and implementation into deployment.

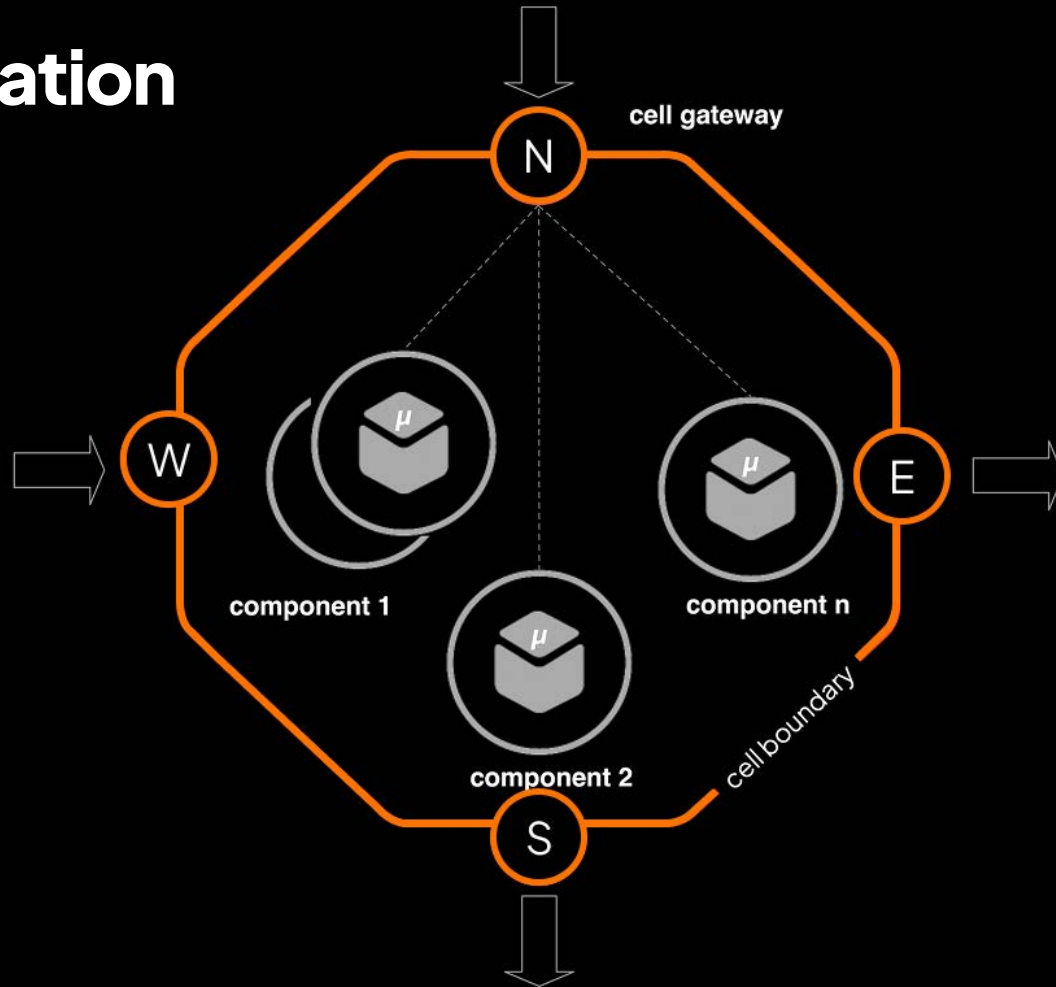
A **cell** is independently **deployable**, **manageable**, and **observable**.



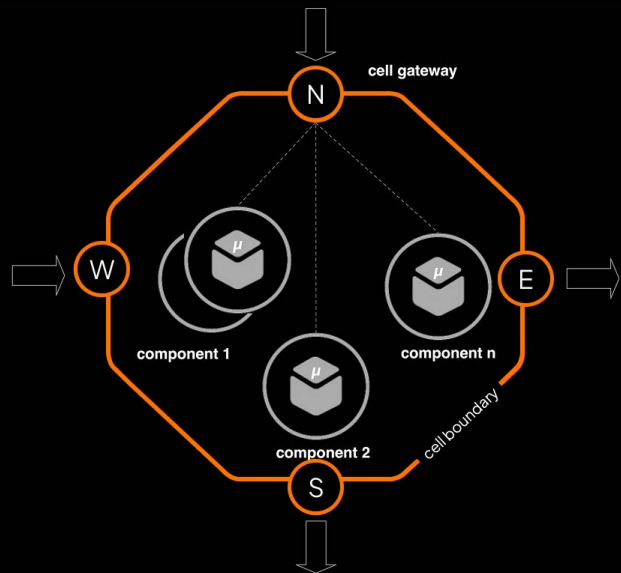
Pattern + Context



Communication



Output



APIs

Invocation styles

- Request/Response
- Event-driven
- Streaming

Content types

- Data (incl. AI outputs)
- Business logic (incl. AI decisions)
- Events

Protocols

REST, gRPC, GraphQL, MCP
Kafka, MQTT, AMQP, Webhooks
WebSockets, SSE, gRPC streams

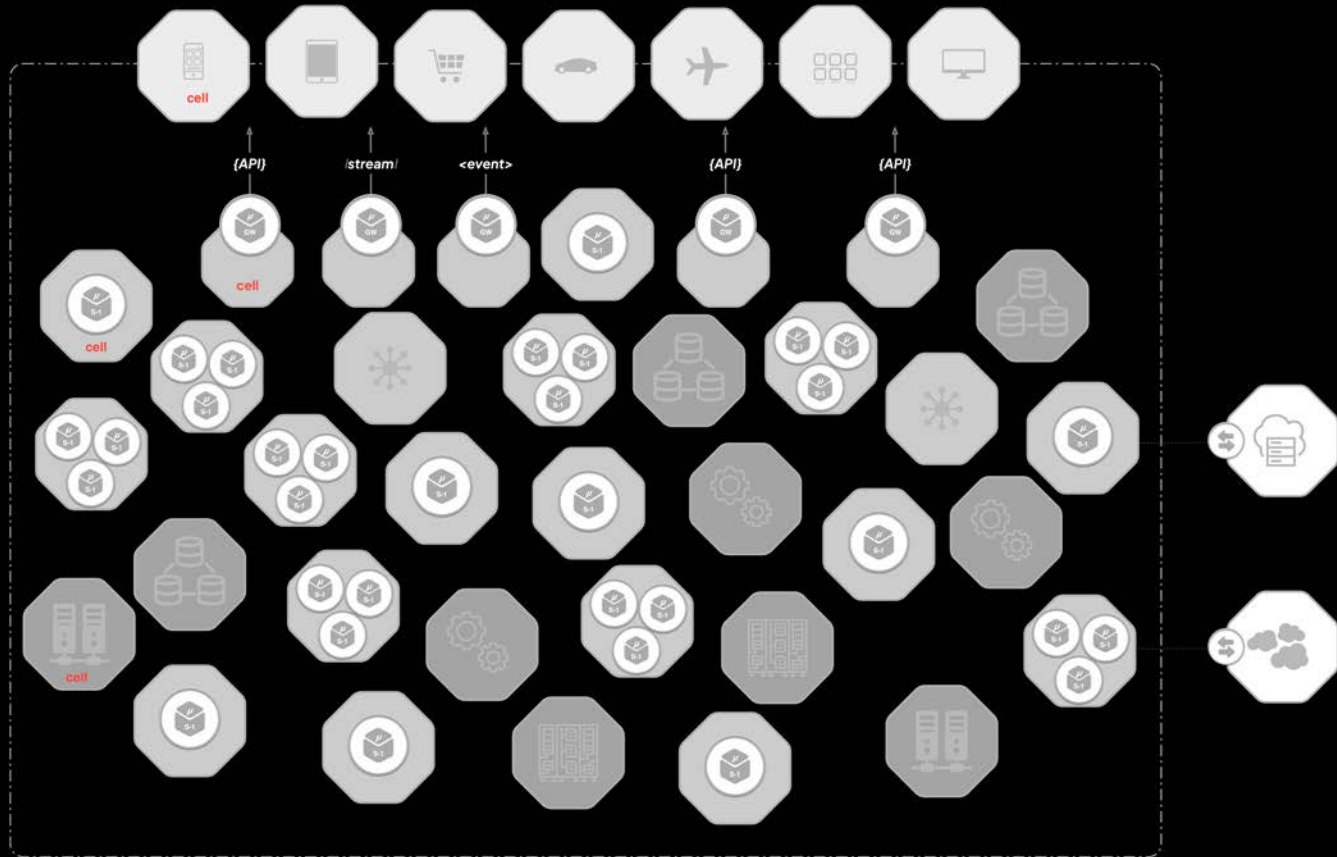


Seamless infrastructure modernization with **CBA**

- **Blue-green & canary deployments** (seamless, risk-free releases)
- **Zero trust security** (built-in, not bolted on)
- **Policy-driven autoscaling** (adaptive resource allocation based on demand)
- **Scale to zero** (optimize cost and efficiency)
- **Multi-cloud & hybrid support** (run anywhere, seamlessly move workloads)



Cell-based enterprise architecture



Value







Value moves upward

Strategy

Enables cost savings, business agility, and innovation

Architecture

Create a scalable, cost-efficient, reusable enterprise backbone

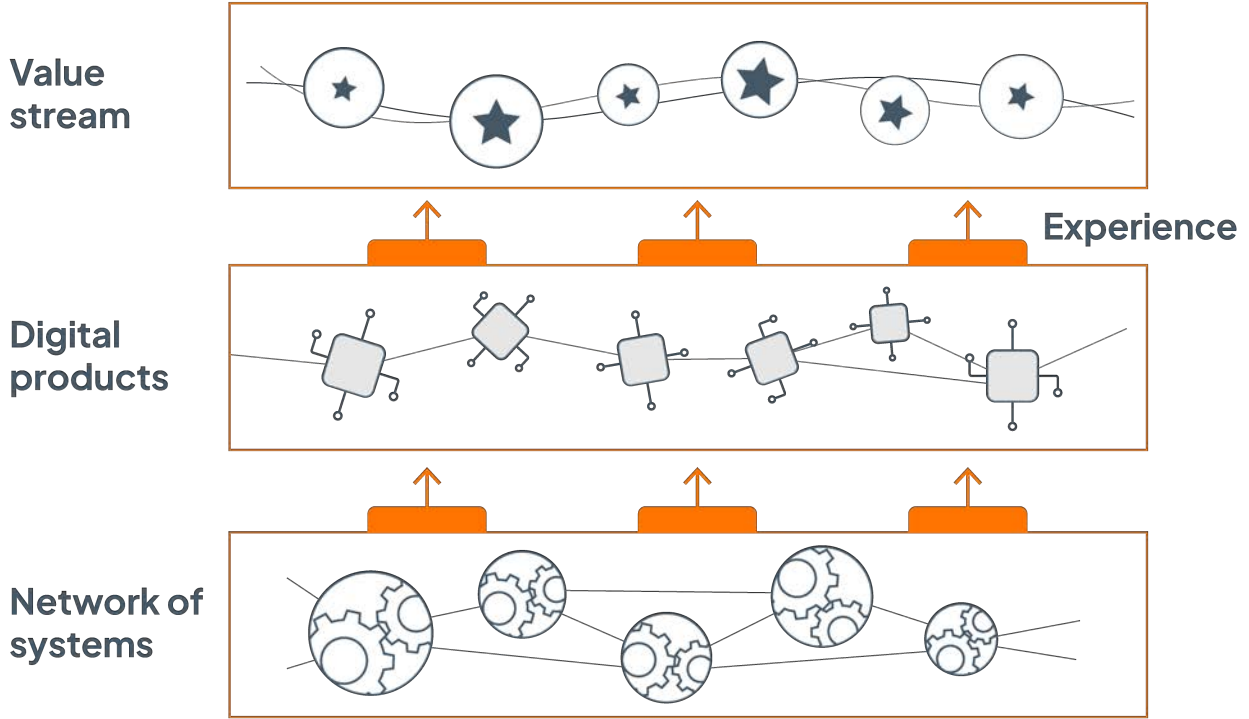
Product

Accelerate delivery, improve developer efficiency

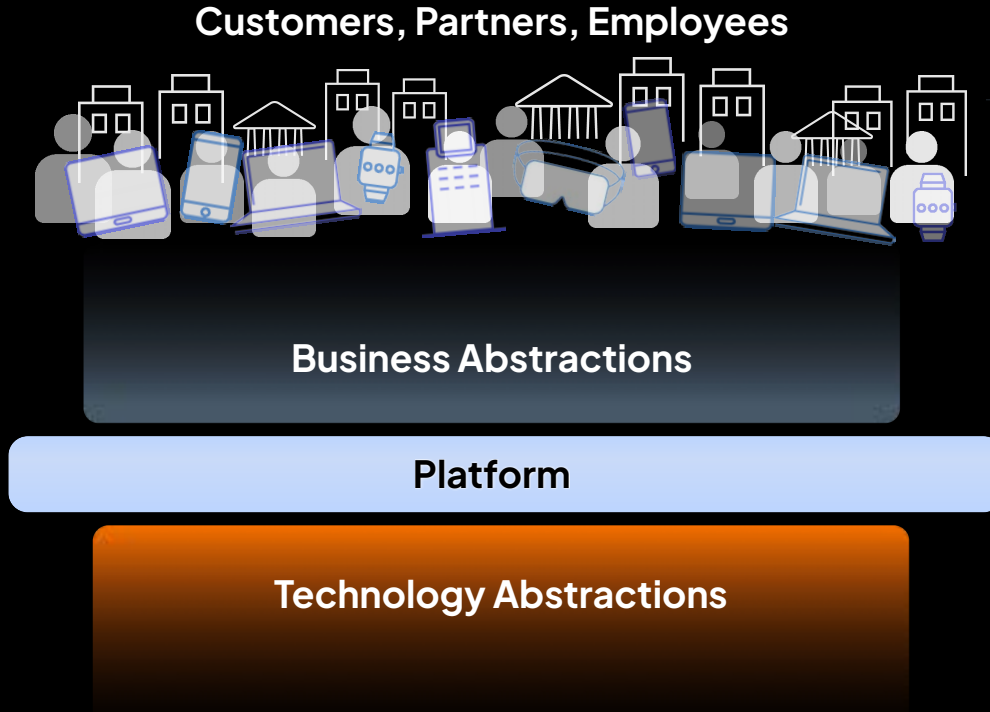
Business Agility, Cost Efficiency & Competitive Advantage



At the end of the day, it all comes down to **creating value**



Platformless modernization for value creation



This is what differentiates you from your **competitors** and **where your focus should be.**

This layer should disappear from focus and deliver a **platformless experience.**

WSO2 product portfolio, the modernization toolkit



API Management



Identity & Access
Management



Internal Developer
Platform as a Service



Integration



your **technology partner** in the
modernization journey.



Modernization

is a **mindset**—one that drives us to **rethink, adapt, and evolve.**

