

20<sup>TH</sup> ANNIVERSARY EDITION

**WSO2CONASIA**

— PLATFORMLESS MODERNIZATION

# WSO2 API Manager Roadmap and Vision



Christopher Davey  
VP & GM - API Management  
WSO2

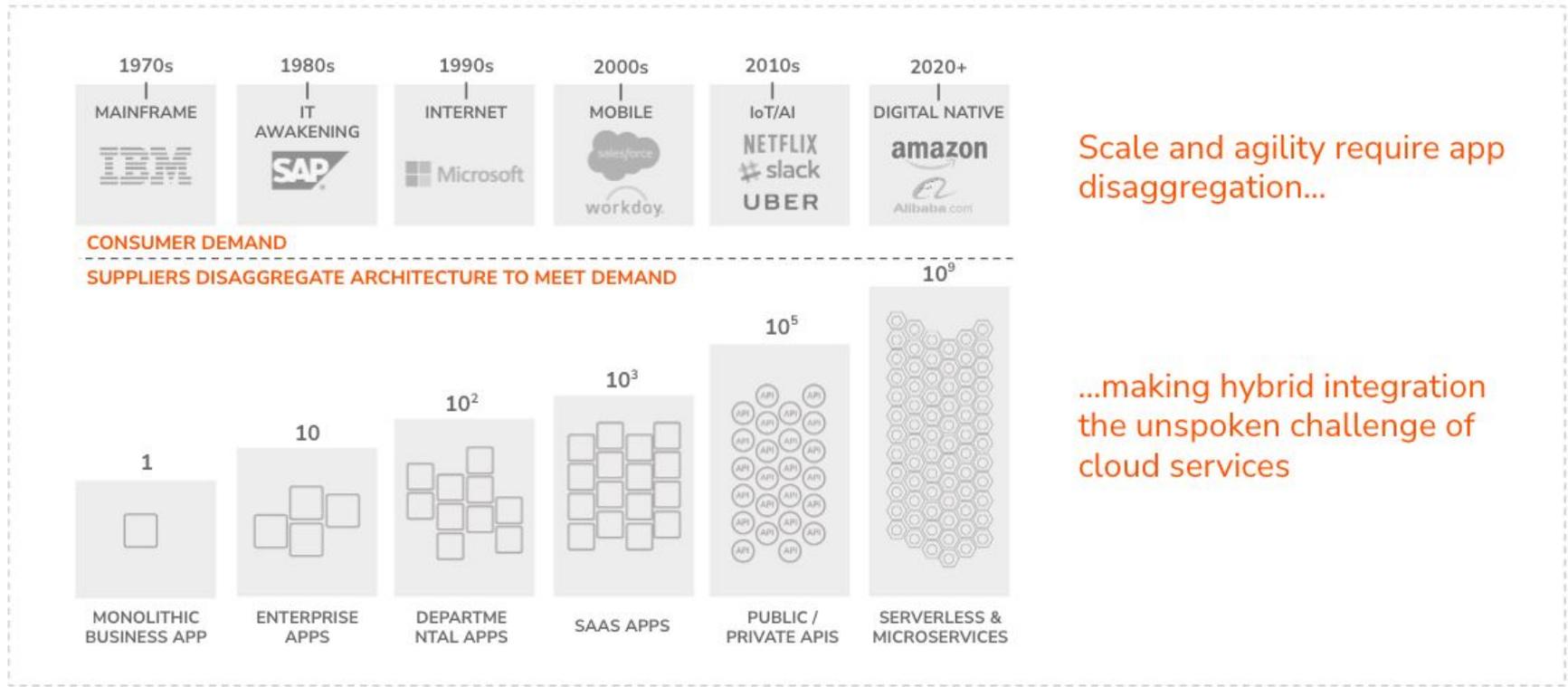




# From Complexity to Control

# The Integration Imperative is Growing

Disaggregated architectures drive 50 billion endpoints to grow >1 trillion



\*Slide from WSO2 presentation in 2019



# Challenges



API Visibility , Governance  
and Security across the  
enterprise

Duplication, limited reuse, policy / security inconsistency, siloed observability



AI service development  
support and governance

Push to find new opportunities to innovate with  
gen AI and agent development plus deliver  
productivity gains, but with new risks



Fragmented deployments  
and environments

M&A, Agile teams, Organisation complexity,  
SaaS adoption, Cloud Native Architectures,  
Distributed deployments, Hybrid Deployments



**How do we prepare for this increasingly API driven world?**

**What are the key capabilities needed to be able to evolve and cope with these challenges?**

# What do you need to address these challenges

## API Strategy (This is more important than ever)

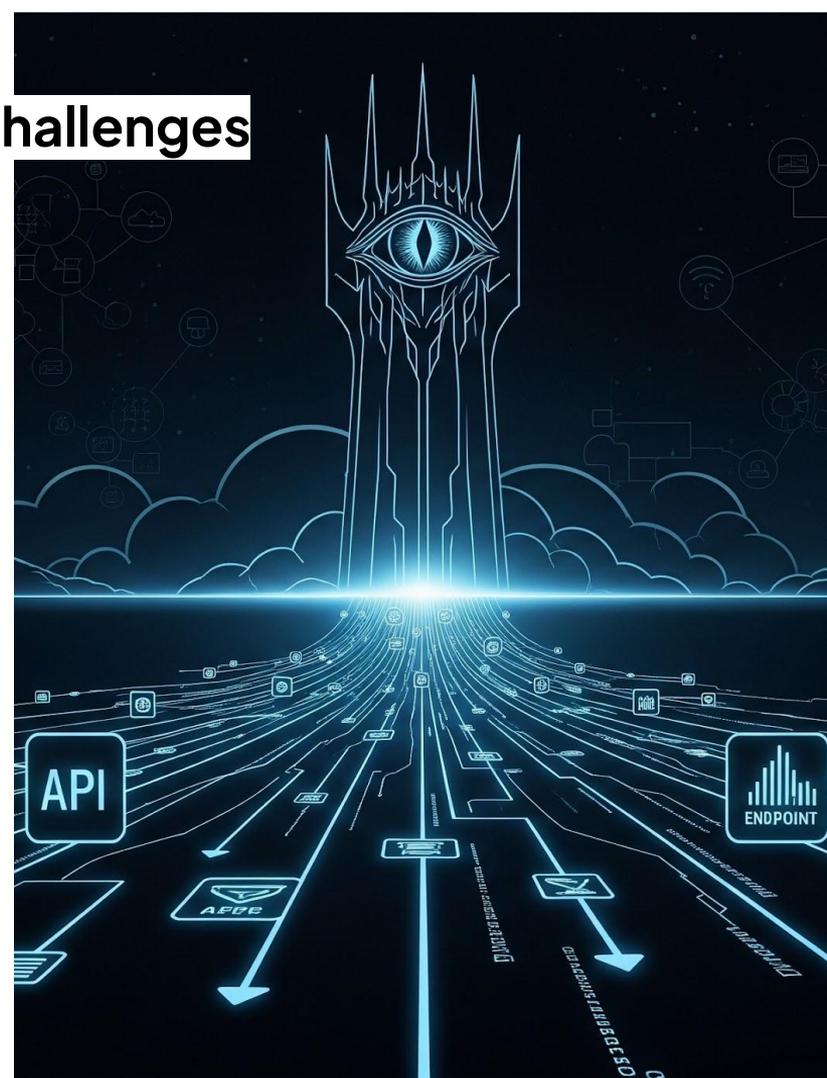
- Transform APIs from isolated technical assets into powerful levers for business growth, resilience, and innovation.

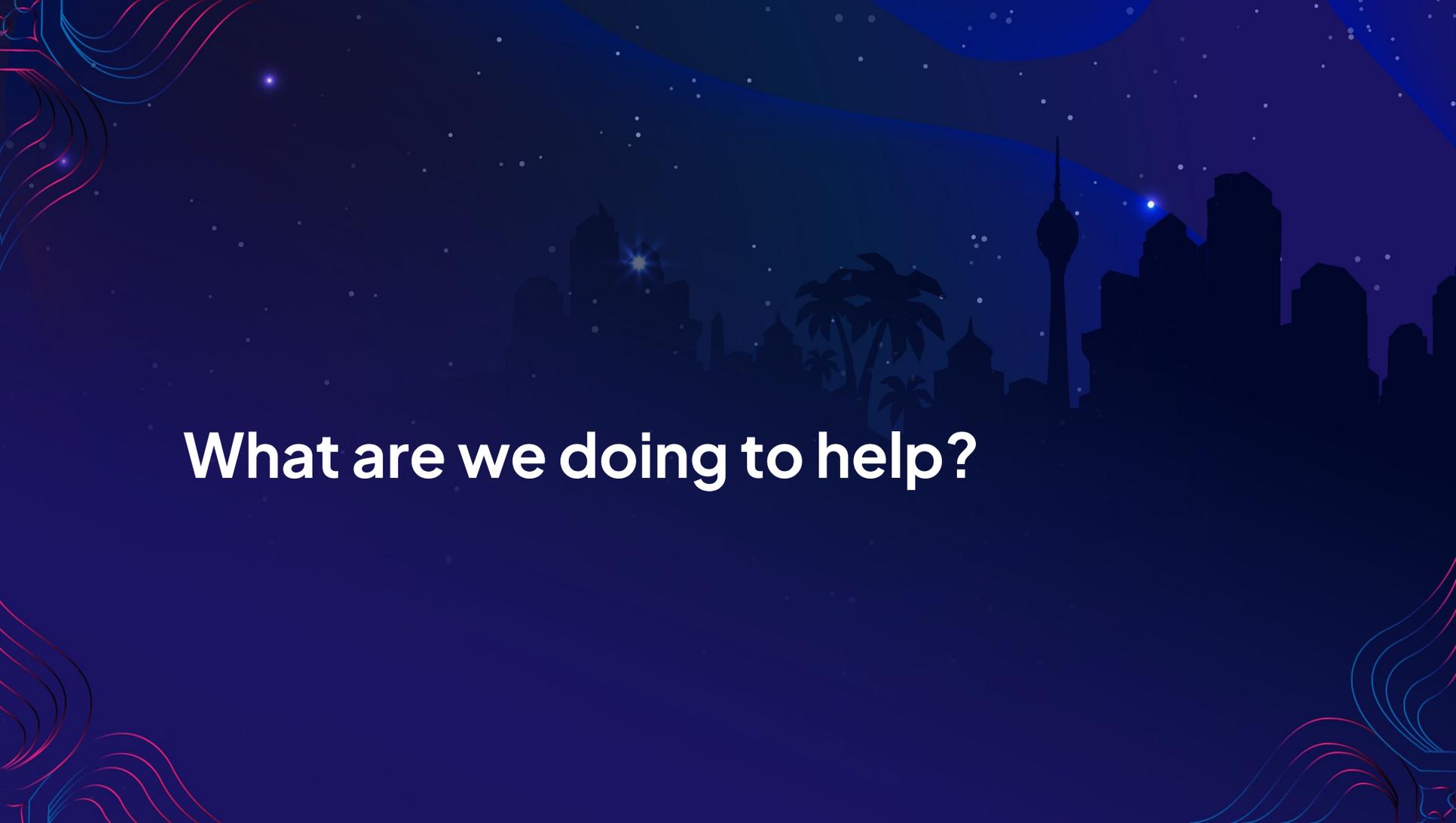


# What do you need to address these challenges

Key capabilities needed:

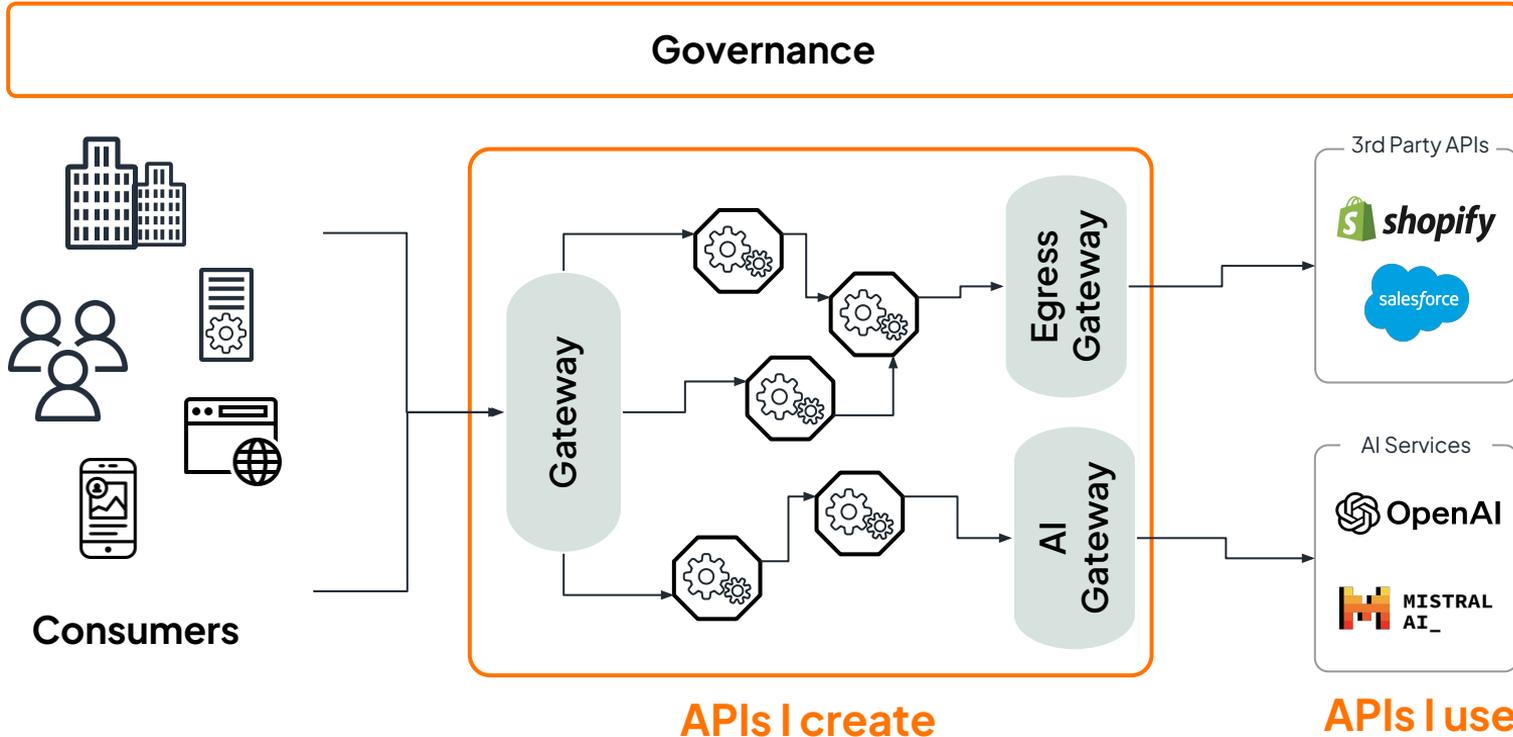
- Centralised Control, Decentralized Execution
  - Governance and Visibility for ALL APIs (and AI)
- Frictionless API development and consumption
- Flexible deployment and interoperability
- AI for APIs + APIs for AI



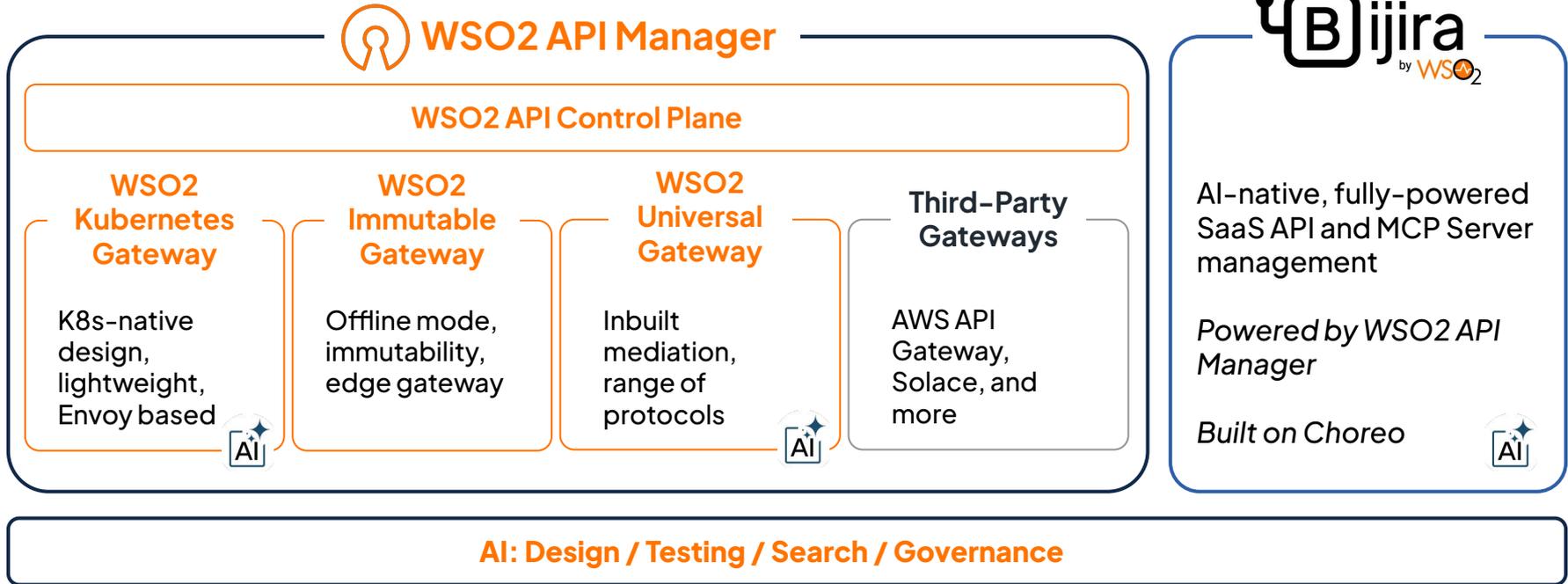
The background features a dark blue gradient with a city skyline silhouette in the center. The skyline includes various buildings and palm trees. The sky is filled with small white stars and a few larger, brighter stars. In the top-left and bottom-right corners, there are decorative wavy lines in shades of blue and pink. The overall aesthetic is modern and digital.

**What are we doing to help?**

# We will manage all digital assets you produce and consume



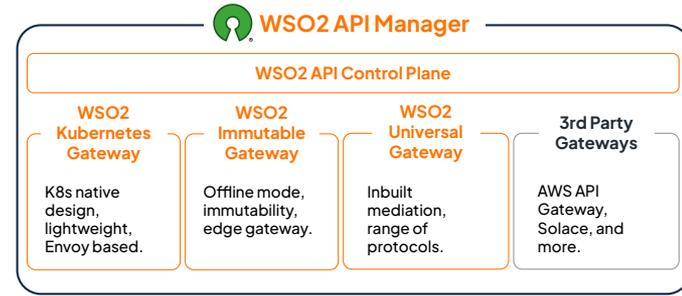
# One product – open source or SaaS



# Unified Control Plane + Federation

For all your APIs:

- Federated gateway architecture to onboard any API gateway
- Consistent API governance and security
- Visibility of full API estate, all gateways and environments.
- Flexibility, use the best gateway for the job, avoid lock in
- Simplify modernisation and cloud migrations
- Single catalog - maximise reuse / discoverability
- Avoid bottlenecks with an APIM C.O.E., utilise federated development teams



# Federation enhancements



WSO2 API Manager

WSO2 API Control Plane

**WSO2  
Kubernetes  
Gateway**

K8s native design, lightweight, Envoy based.

**WSO2  
Immutable  
Gateway**

Offline mode, immutability, edge gateway.

**WSO2  
Universal  
Gateway**

Inbuilt mediation, range of protocols.

**3rd Party  
Gateways \***

AWS API Gateway, Solace.

**API discoverability for external gateways,** allowing existing APIs to be auto-registered in the control plane for centralized governance, lifecycle management, and analytics.

**Support for Kong and Azure API Management Gateways.**

Enable API creation and deployment  
Apply centralized governance, access control, and monitoring across federated APIs

\* 3rd Party Gateway Federation coming to Bijira soon

Modern enterprises increasingly adopt federated architectures for API management, distributing APIs across multiple gateways for scalability, resilience, and localized autonomy. Operating across diverse cloud regions, data centers, or business units each with its own gateway often leads to fragmented API ecosystems, operational silos, and governance challenges. This distributed approach, while beneficial, presents significant hurdles in maintaining consistent API governance, streamlining lifecycle management, and ensuring unified operational visibility.

Explore the challenges, strategies, and best practices for effectively managing APIs within federated gateway ecosystems using a unified control plane to enable centralized governance, seamless policy distribution, and cohesive developer experience. Join us to learn how to bring order to distributed API environments while balancing control, agility, and autonomy.



**Thilini Shanika**  
Associate Director and Head of Engineering, APIM  
BU



Thilini is an Associate Director at WSO2, leading the engineering team for the API Manager Business Unit. She drives the technical strategy and execution of WSO2's API management product line.

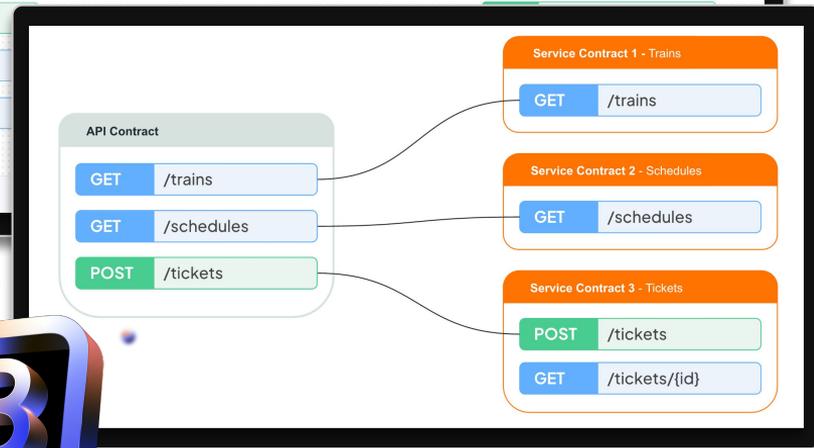
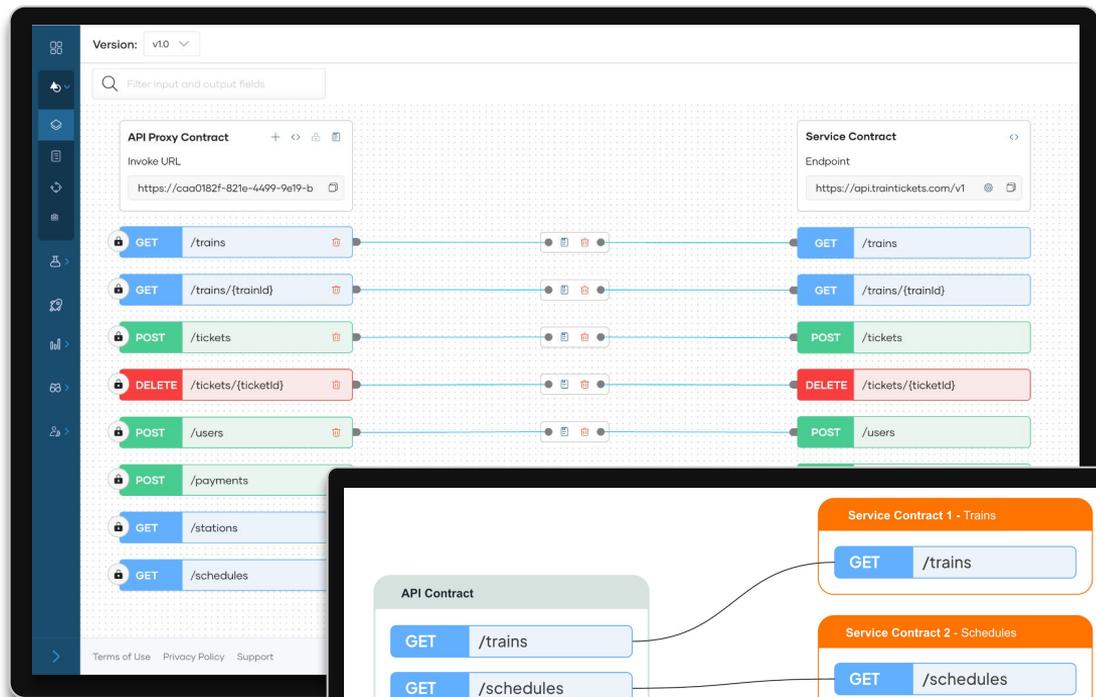
With over a decade of experience at WSO2, Thilini has extensive expertise in API management, particularly in security, API design and governance. Her leadership drives product development, fosters innovation, and ensures solutions align with evolving customer requirements. She empowers her team to consistently deliver high-quality API solutions that meet the needs of diverse industries while advancing the future of API management.



## AI-native, scalable SaaS API management!

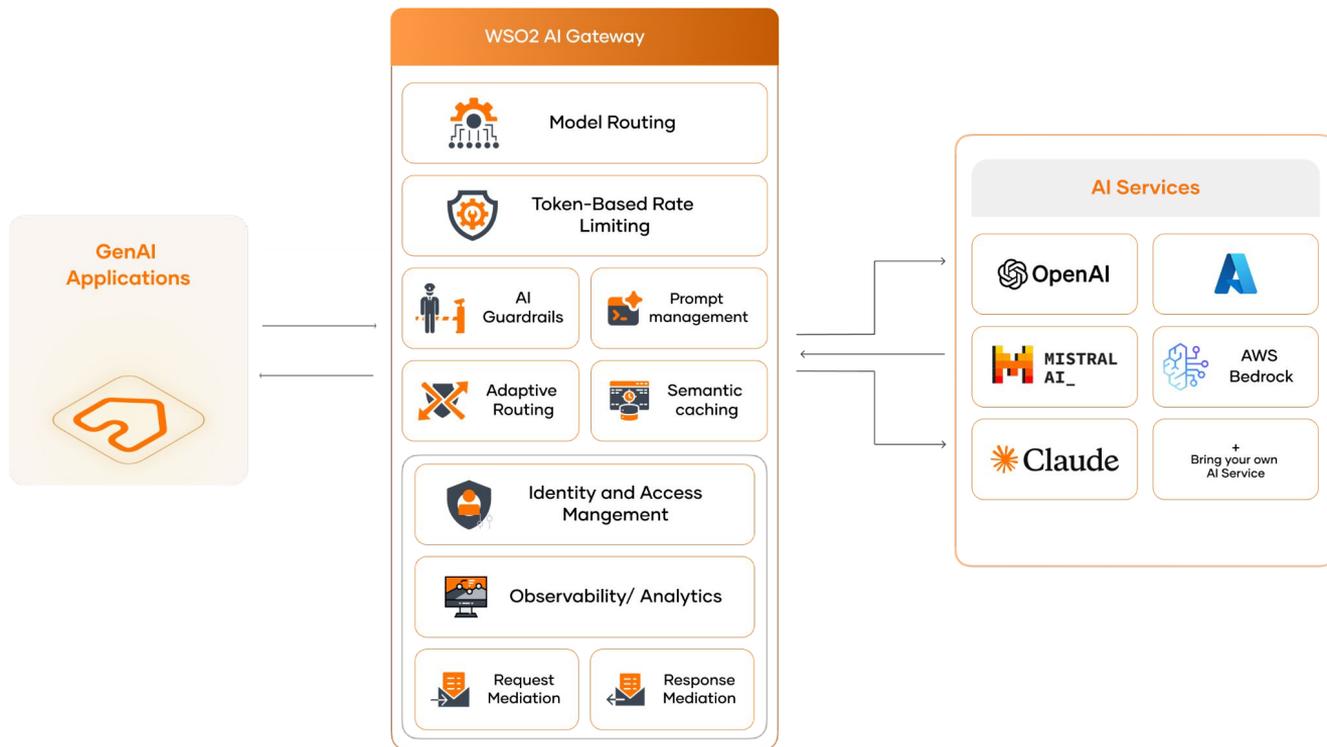
A complete, **cloud and AI-native**, and **scalable API management** platform

- Best-in-class UX
- Egress / ingress gateways



# WSO2 AI Gateway - Now available in Bijira

Governs, secures, and enhances the use of Generative AI APIs.



# WSO2 AI Gateway

WSO2 AI Gateway governs, optimizes, and secures Generative AI API usage with flexible deployment and multi-provider support for seamless AI integration.

- Multi-provider support
- Token-based rate limiting
- Adaptive request handling
- AI-specific analytics
- AI guardrails
  - 3 types: Regex based, AI Inbuilt, 3rd Party
  - PII, Content Safety, and more
- Semantic Caching \*

**WSO2 Kubernetes  
Gateway**



**WSO2 Universal  
Gateway**



**Bijira**  
by WSO2

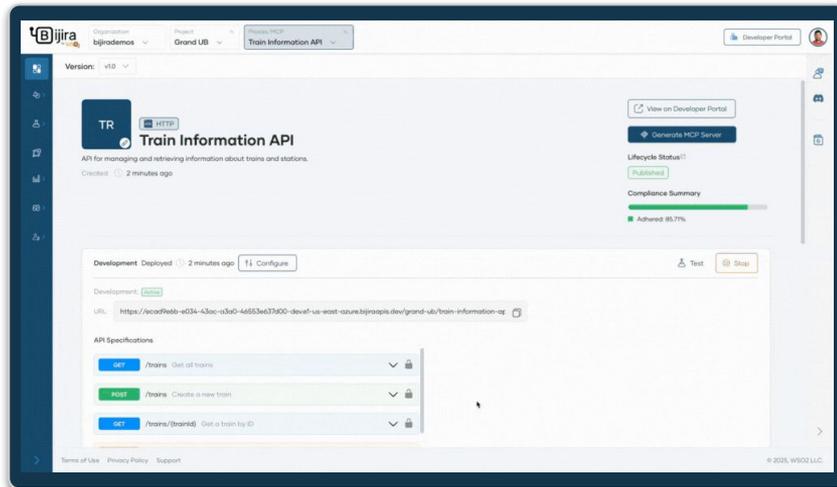
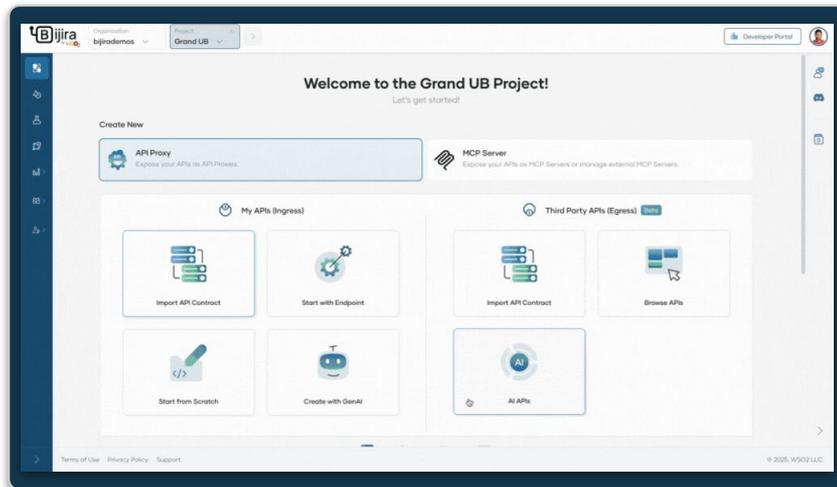


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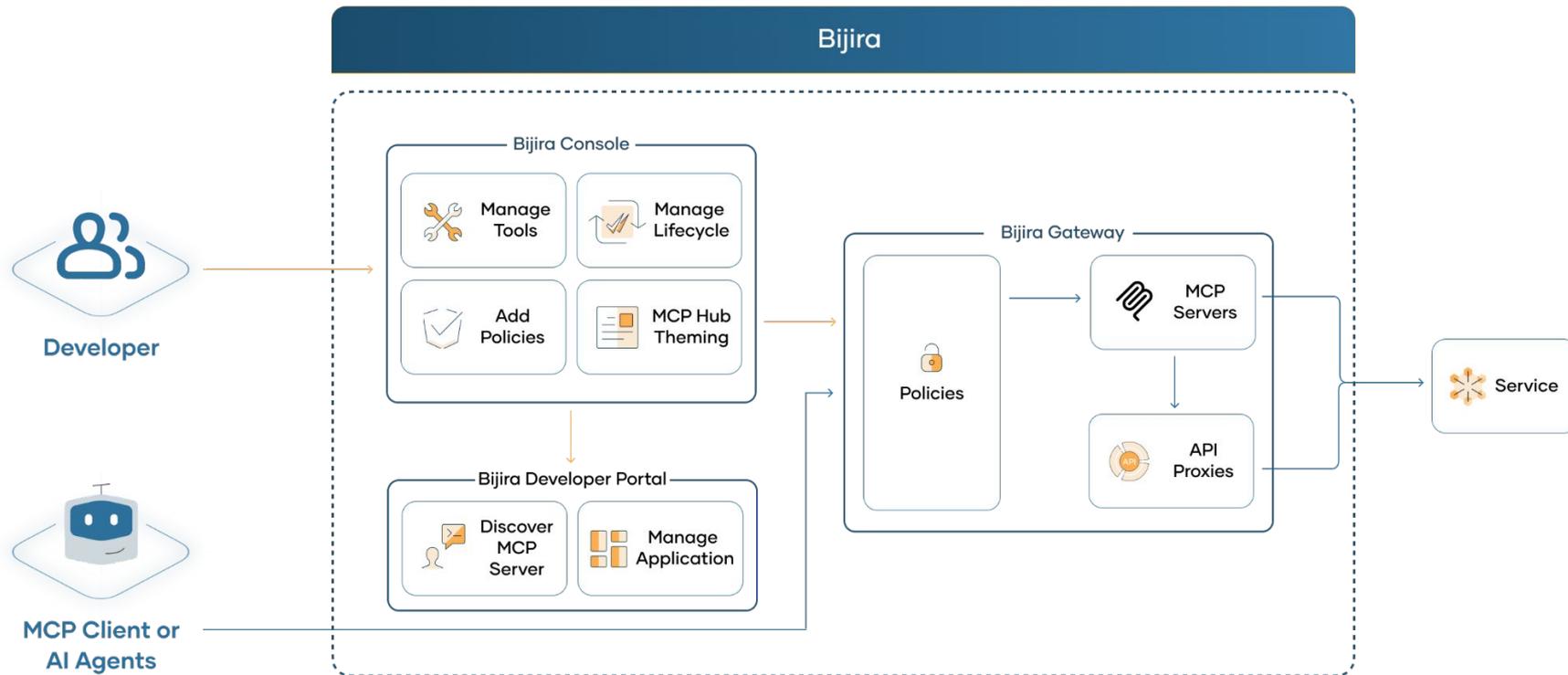
## Expose APIs as MCP Server Tools

- Transform APIs or API Proxies as Tools
  - Turn existing APIs into reusable, callable functions for AI agents.
- Add Structured Metadata
  - Include descriptions and other metadata
- Apply Policies
  - Enforce security, rate limiting, and other governance policies on tools.
- Publish MCP Servers to the MCP Hub
  - Make your APIs discoverable as tools for AI agent developers.

\*Coming to API Manager next release



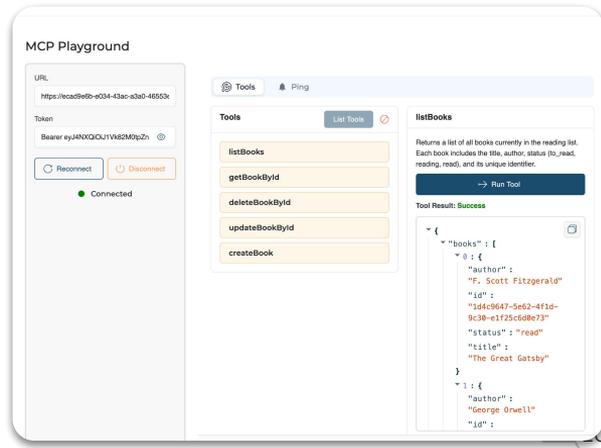
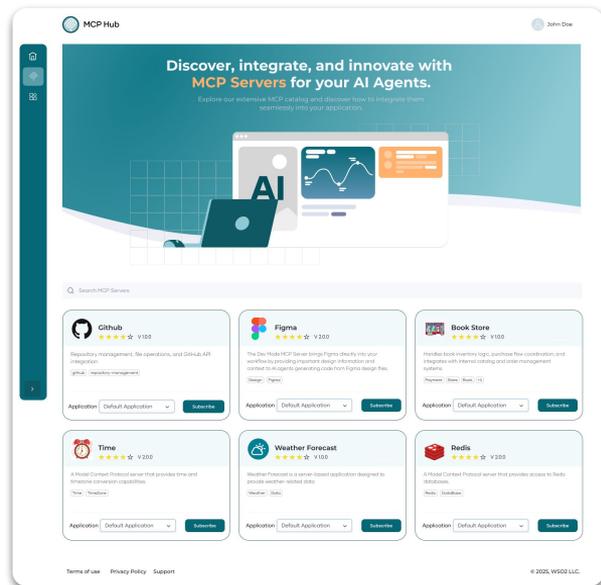
# MCP Server Management



# MCP Hub — A Dedicated Discovery Portal for AI Agents

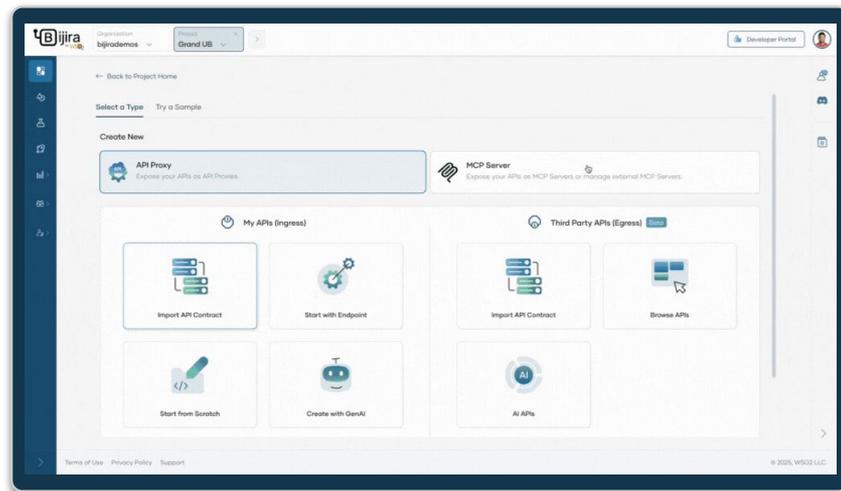
A curated and clutter-free marketplace within Bijira's developer portal, purpose-built for discovering MCP Servers.

- **Focused Experience:** Only MCP tools, no REST/GraphQL noise
- **Agent-Friendly Docs:** Clear capabilities, parameters & usage
- **Custom Theming:** Tailor the look & feel of your hub
- **Built-In Playground:** Try out MCP server functionality instantly



# Govern Access to Remote MCP Servers

- Bring External Tools to Your Control Plane
  - Connect AI-ready tools hosted outside your environment.
- Register with Metadata
  - Provide tool descriptions, endpoints, and capabilities to enable AI agent usage.
- Policy Enforcement
  - Apply centralized security, rate limiting, and access controls
- Discover via MCP Hub
  - Expose remote MCP servers through the hub for AI agent developers



# Dedicated EU deployment region

- Both the Bijira Control Plane and Data Plane are deployed 100% in Europe (Ireland)
- What it means
  - Data residency and sovereignty
  - GDPR compliance
  - Better performance
  - Improved security



## Bijira: API PaaS for the Cloud and AI-Native Era

The rapid evolution of cloud-native architectures and AI-driven applications demands a new era of API management. This session introduces Bijira, a cutting-edge, AI-native, and scalable SaaS platform built to revolutionize API operations. Bijira streamlines governance, significantly boosts developer productivity through integrated AI, and offers robust Model Context Protocol (MCP) management.

We'll explore Bijira's transformative approach to API management across diverse environments. Discover how its Unified Control Plane, AI-powered governance, comprehensive ingress and egress API management, and specialized LLM API controls for secure AI API consumption facilitate seamless API creation, lifecycle management, and policy enforcement. Furthermore, Bijira provides robust hybrid cloud support, enabling flexible deployments.

A core focus will be Bijira's unique MCP Management capabilities. This empowers organizations to expose APIs as tools through MCPs and manage them as first-class entities, complete with defined QoS policies and robust governance.

Join us to understand how Bijira's AI-native foundation, scalable architecture, and advanced Model Context Protocol capabilities are redefining API management for today's dynamic enterprise landscape.



**Pubudu Gunatilaka**  
Associate Director & Head of Architecture, APIM  
BU



Pubudu Gunatilaka is an Associate Director at WSO2, leading the product architecture for WSO2 API Manager. With over 9 years of experience in API management and cloud-native architectures, he has played a key role in advancing WSO2's API management solutions. A recognized thought leader in the industry, Pubudu has shared his expertise at global conferences such as APIDays, Nordic APIs, and Conf42, along with various tech meetups. He is dedicated to driving innovation in API management, Kubernetes-native API gateways, and API security to help enterprises build scalable and future-ready API strategies.

## What You Can Do with the AI Gateway

As generative AI moves from experimentation to enterprise adoption, organizations must rethink how they integrate and govern AI capabilities across their systems. The AI Gateway emerges as a critical architectural component that bridges the gap between foundation models and real-world applications, offering centralized governance, security, and operational control. In this session, we unpack what you can achieve with an AI Gateway and why it's essential in today's AI-powered ecosystems. You'll learn how it simplifies model integration, enables dynamic model routing across providers, enforces zero-trust and usage policies, and brings observability to prompt and token flows. We'll also explore how it supports multi-tenant environments, aligns with enterprise identity and access control, and provides guardrails to ensure responsible AI usage.

Whether you're building internal copilots, enhancing customer experiences, or scaling AI across your organization, this talk will help you understand how the AI Gateway can transform your AI adoption strategy, from scattered prototypes to governed, production-ready deployments.



**Arshardh Ifthikar**  
Technical Lead



Arshardh Ifthikar is an expert in API Management, Generative AI application development, and enterprise integration, specializing in building scalable API architectures and optimizing egress control for AI and SaaS applications. As a technical lead of the API Manager team, he has played a key role in helping numerous customers successfully deploy and integrate advanced API management solutions. With a strong focus on AI-driven innovations, Arshardh brings deep expertise in shaping modern API ecosystems.

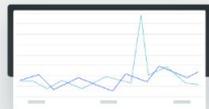
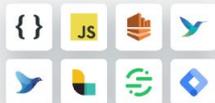
# AI-Powered API Observability that fits your stack



## AI and API Products



## Custom Events



## API Analytics

- API Product Analytics
- API Logs & Metrics
- API Monitoring
- Custom Dashboards



## API Monetization

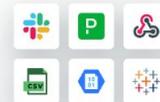
- Usage-Based Billing
- Quotas & Governance
- Product Catalog
- Prepaid Credits & Balances



## Customer Guidance

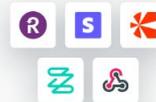
- Developer Portal
- Embedded Metrics
- Behavioral Emails
- Behavioral Cohorts

## Data & Alerts

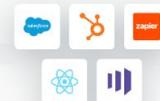


## Quotas & Governance

## Billing Platforms



## Sales & Support



2:00 p.m.

## Monetizing APIs Effectively

Monetization of APIs requires a thoughtful plan to ensure the cost of API access is aligned with customer value. This talk walks through usage-based billing models and how to apply them to create additional revenue streams. We'll also discuss some of the gotchas and requirements when charging for API access vs providing for free.

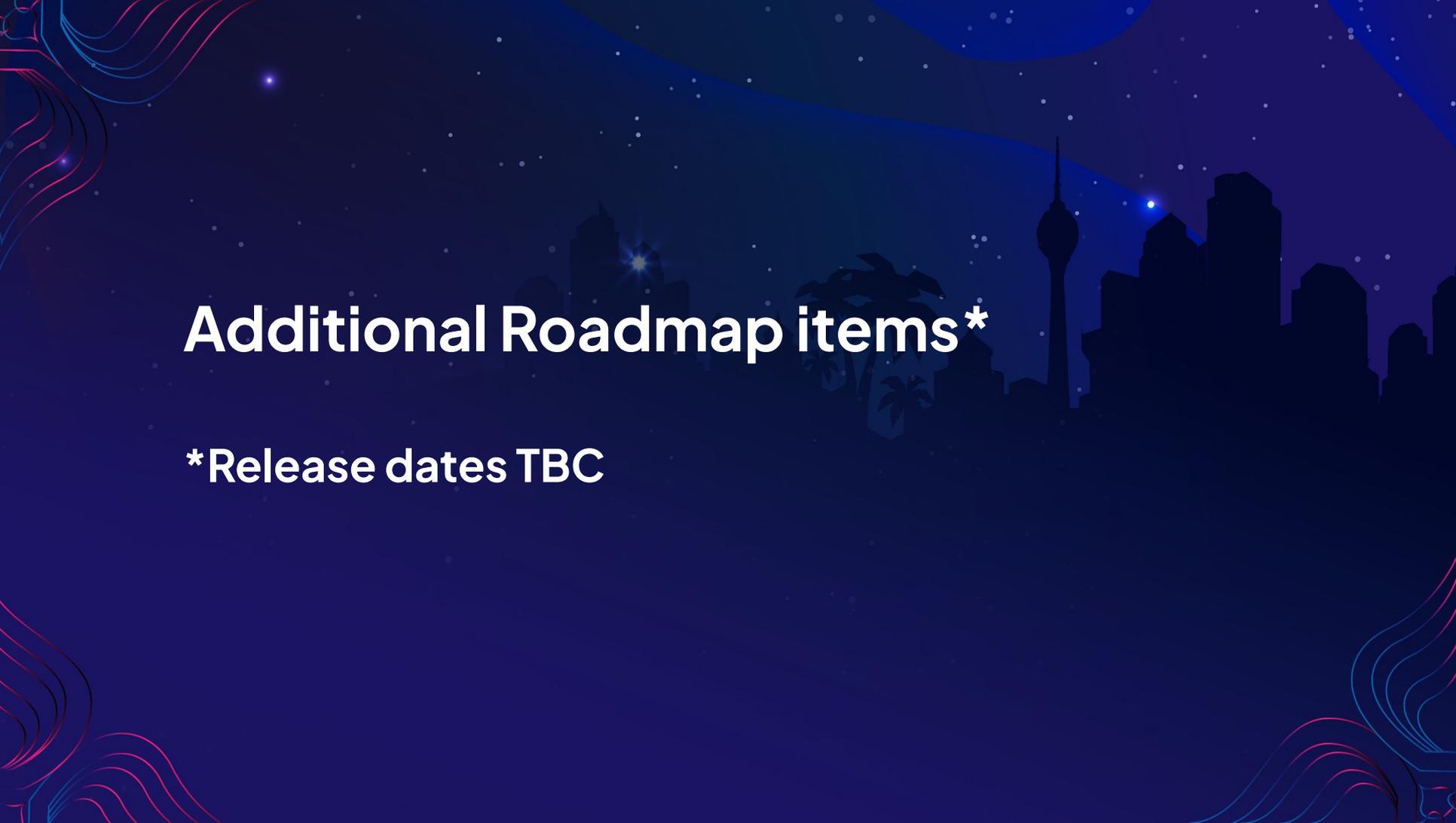


**Derric Gilling**

Founder and CEO, Moesif (A WSO2 Company)



Derric Gilling is the CEO of Moesif, the leading API analytics and monetization platform recently acquired by WSO2. He enjoys helping enterprises better productize and monetize their APIs. Gilling is a frequent speaker on API strategy, API analytics, and usage-based billing at developer conferences, including API World, Developer Week, Collision, APIDays and has published a report with O'Reilly, API Strategy for Decision Makers.



# Additional Roadmap items\*

\*Release dates TBC

# AI for API Management

## Planned Improvements

- AI-powered SDK Generator
- Automatically generate and maintain documentation from OpenAPI specs, examples, and descriptions using AI.
- GraphQL AI Testing Assistant

# API Management for AI

## Planned Improvements

- AI API Gateway Enhancements to support multi provider model catalog (Model Hubs, ex: Azure foundry, Bedrock)
- Route API requests dynamically across AI models from different vendors based on use case or performance needs.
- AI Policy Support for Prompt Engineering(prompt templating and decorating policies)

# Developer Portal & API Consumption

## Planned Improvements

- Integrate New Developer Portal in API Manager

# B2B, Multi Organization and Tenancy Support

## Planned Improvements

- B2B API Development support with API publisher portal
- Organization and sub organization management capabilities for admins
- Organization specific theming for developer portal.



# API Security

## Planned Improvements

- Quantum-safe cryptography for API keys, tokens, and communication
- Deny policy enforcement for explicit access control
- Expand 3rd party integrations for AI based runtime attack detection
- Certification manager support via portals

# API Governance

## Planned Improvements

- Support Governance for API Deprecation and retirement states with API runtime governance
- Extend Governance support for DevPortal (Application governance)
- Enhance AI based governance result explanation and suggestions.
- Extend Governance for other API types (GraphQL, gRPC)

# Event-Driven and Streaming APIs

## Planned Improvements

- Support for AsyncAPI 3.x - Allowing users to import and manage with the latest version.
- In-Gateway Webhook Resiliency - provide guaranteed delivery and resiliency for Webhooks connected to backend brokers like Kafka.
- Firstclass In-Gateway Protocol Mediation - Expand the internal event hub module to handle common, stateless protocol mediation (e.g., Kafka-to-WebSockets) directly within the Gateway.
- Improve API consumption and testing capabilities with new UI tools.



# From Complexity to Control?

# Key Challenges (Have we helped)



API Visibility , Governance  
and Security across the  
enterprise

Duplication, limited reuse, policy / security inconsistency, siloed observability



AI service development  
support and governance

Push to find new opportunities to innovate with gen AI and agent development plus deliver productivity gains, but with new risks



Fragmented deployments  
and environments

M&A, Agile teams, Organisation complexity,  
SaaS adoption, Cloud Native Architectures,  
Distributed deployments, Hybrid Deployments

11:30 a.m.

## Modern Enterprise Architecture with APIs

In an increasingly digital world, many enterprises struggle with monolithic, inflexible systems that hinder innovation and slow down their digital transformation. This talk will reveal how APIs are no longer just an integration tool, but the fundamental backbone of an agile, scalable, and interconnected enterprise.

The first part of the talk focuses on limitations of traditional architectures. It introduces the core principles of modern enterprise architecture, including the pivotal shift towards microservices, domain-driven design, and cloud-native thinking. The heart of the discussion will then center on the ubiquitous role of APIs—whether REST, GraphQL, or gRPC—as the essential glue that connects disparate systems, services, and data streams. We'll explore how adopting an API-centric approach fosters unparalleled agility, enhances scalability, drives innovation, reduces vendor lock-in, and opens new avenues for data monetization.

The latter part of the talk will provide actionable insights into key implementation considerations, including how to use different types of APIs together in an enterprise architecture, establishing robust API gateways, implementing consistent API design principles, ensuring strong API security, and leveraging developer portals for seamless consumption. Furthermore, we'll touch upon the power of event-driven architectures and the necessity of comprehensive observability for managing distributed systems effectively. Join us to understand how strategically embracing APIs can future-proof your organization, enabling it to respond rapidly to market changes and unlock its full digital potential.



**Vidura Gamini Abhaya**  
Vice President, Solutions Architecture



As the Head of Solution Architecture for APIM at WSO2, Vidura is responsible for shaping technical direction with product teams and addressing customer needs. As a Field CTO, he collaborates with global customers to craft strategic roadmaps, offering technical guidance and architecture strategies for digital experiences. With over 25 years of global experience across finance, logistics, aviation, and energy, Vidura brings deep expertise. He holds a Ph.D. in Computer Science from RMIT University, Australia.

12:00 p.m.

## Customer Panel: Journeys in Enterprise Modernization Through API Management

APIs are no longer just technical enablers—they're the foundation of security, compliance, and innovation. Managing these strategic assets effectively is critical, especially in industries where trust, regulation, and scale matter.

In this panel, industry leaders will share their experiences in enterprise modernization through API management. From securing and governing APIs in highly regulated industries to designing scalable solutions, our panelists will discuss real-world challenges, best practices, and how they're preparing for what's next.



**Zakayo Malisa**  
Director Of Technology



Zakayo is a results-driven Technology Director with 15+ years of experience leading IT strategy, digital transformation, and innovative technology solutions. With a strong background in process automations and software engineering, IT systems Architecture and Strategy, product development and innovations, Technology department operations & budgeting, Agile and predictive project management, data processing and reporting. Zakayo has successfully overseen numerous technology initiatives that drive eUiciency, scalability, innovation/value, and business growth.



**Samuel Kahura**  
ICT Manager



**Christopher Davey**  
Vice President & General Manager - APIM



Prior to joining WSO2, Chris worked for one of the largest UK government departments delivering digital platforms and services for its citizens and building critical software and systems. Chris has over 25 years of experience in software design, development, solution and enterprise architecture and operations for large scale enterprises. He works with enterprises across the globe to help them design and implement platforms and API architectures that help these enterprises to produce world class digital experiences.



Thank you!

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