

# Service Mesh Up and Running in 5 minutes



You might be  
thinking...

5 minutes ≠ 35 minutes



@chzbrgr71

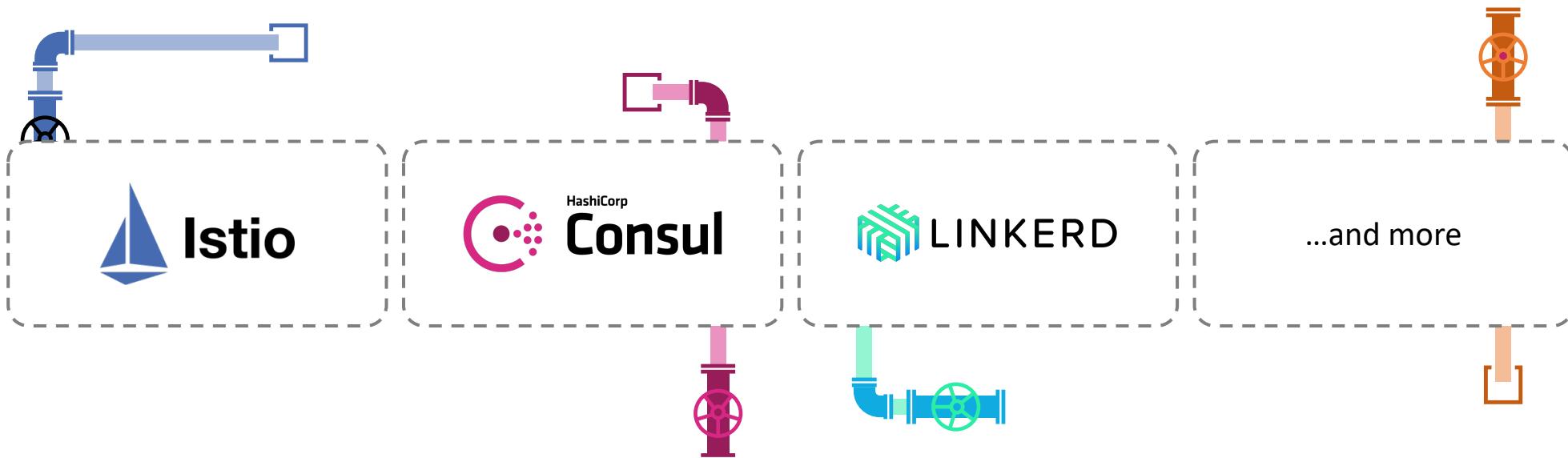
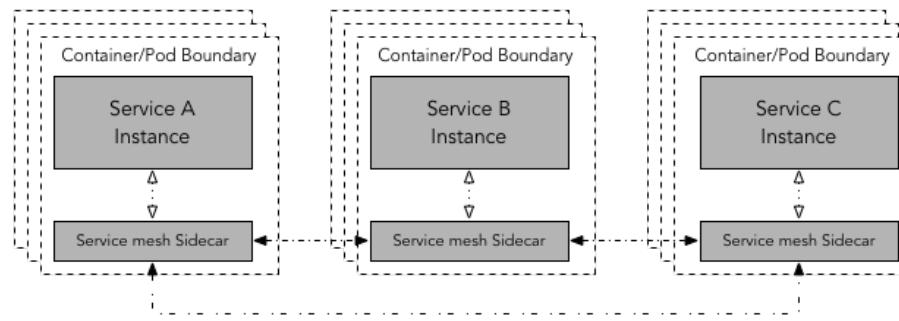
# Brian Redmond – Who am I?

- Cloud Architect @ Microsoft (18 years)
- Azure Global Black Belt Team
- Live in Pittsburgh, PA, USA
- Avid marathon runner and outdoors enthusiast
- World traveler

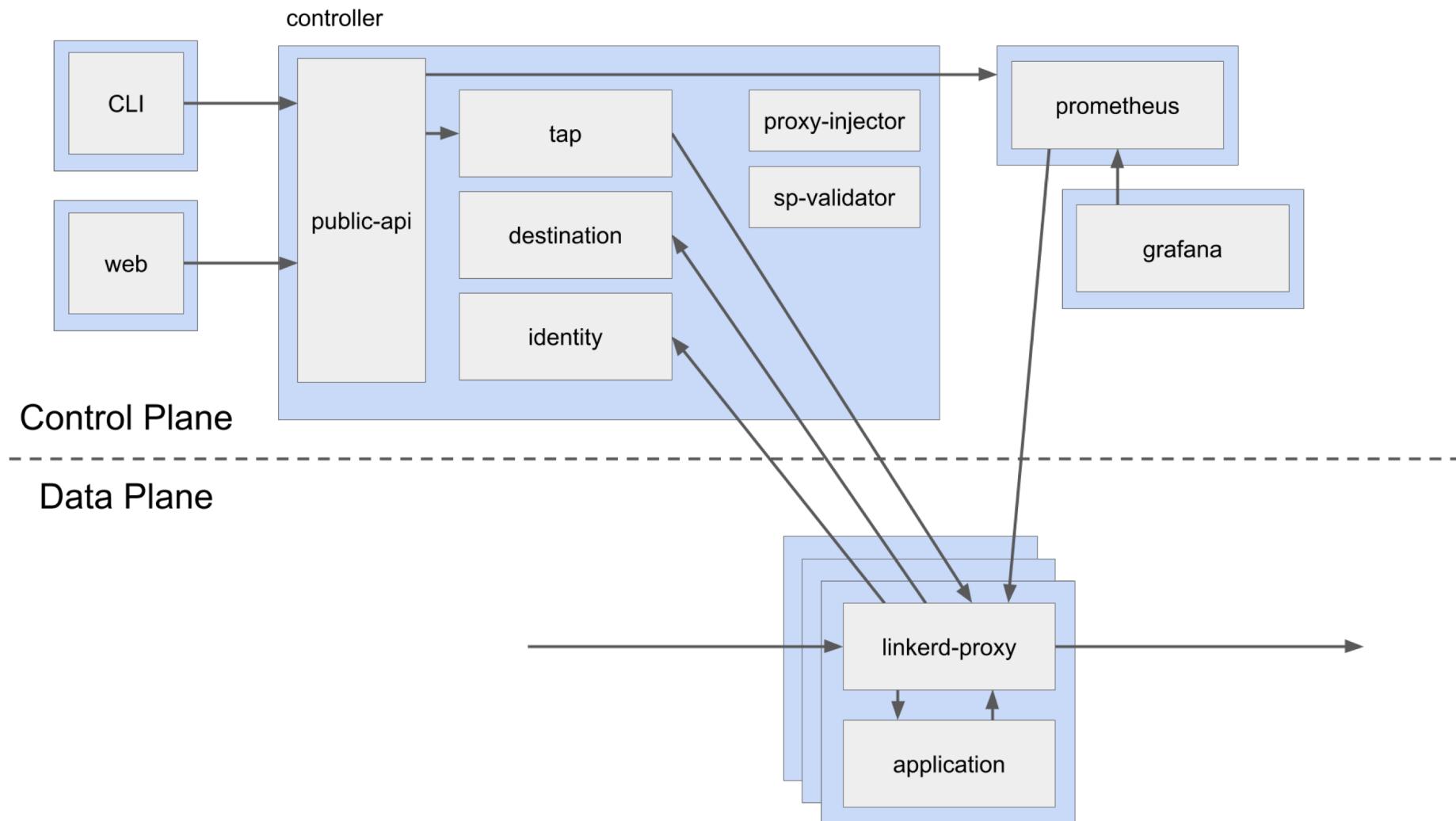


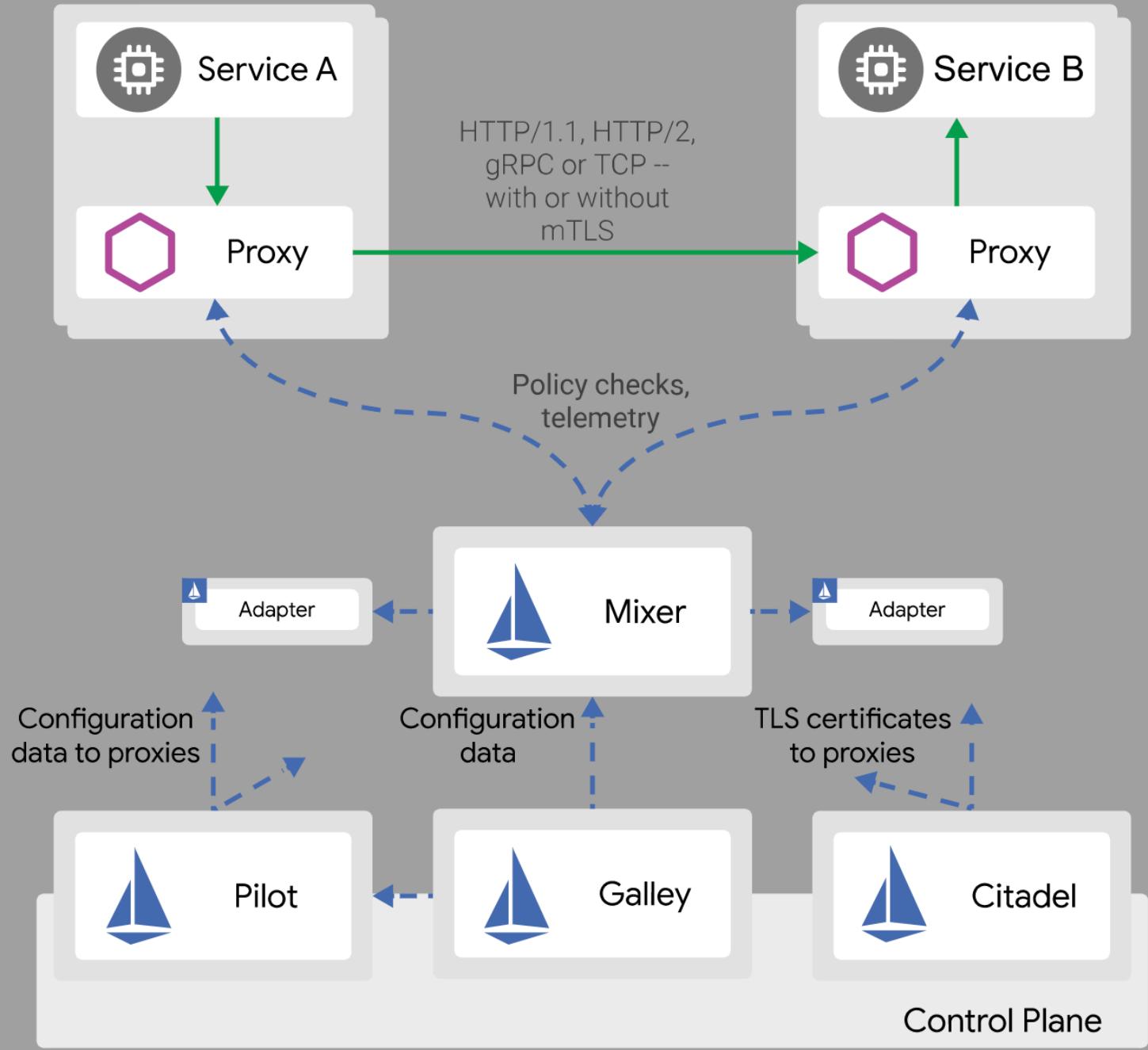
# Service Mesh – Smarter Pipes

- “A service mesh is a dedicated infrastructure layer for making service-to-service communication safe, fast, and reliable” William Morgan (Buoyant)
- What you get:
  - Observability
  - Latency aware load balancing
  - Traffic shaping
  - Security (authorization, encryption, etc.)
  - Retries & circuit breaking
  - Distributed tracing



# Linkerd 2.x architecture

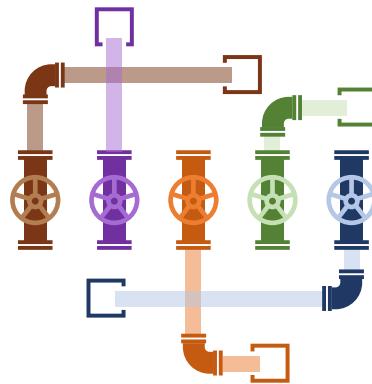




# Demo



# Smart endpoints, dumb pipes



This has worked for the past 25 years

But with so many endpoints today, how do you manage

# Service Mesh Interface (SMI) for Kubernetes

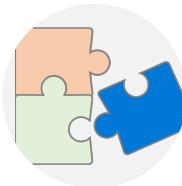
A Kubernetes interface that provides traffic routing, traffic telemetry, and traffic policy



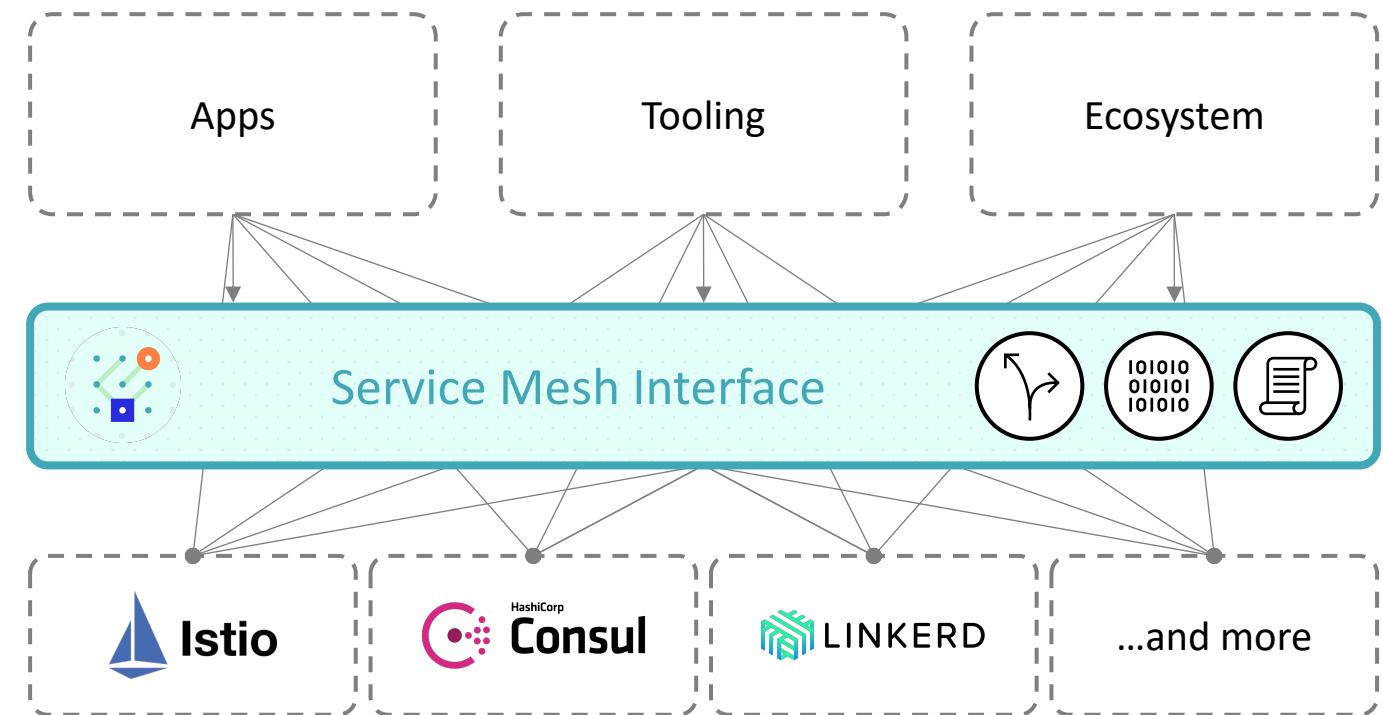
**Standardized**  
Standard interface for service mesh on Kubernetes



**Simplified**  
Basic feature set to address most common scenarios

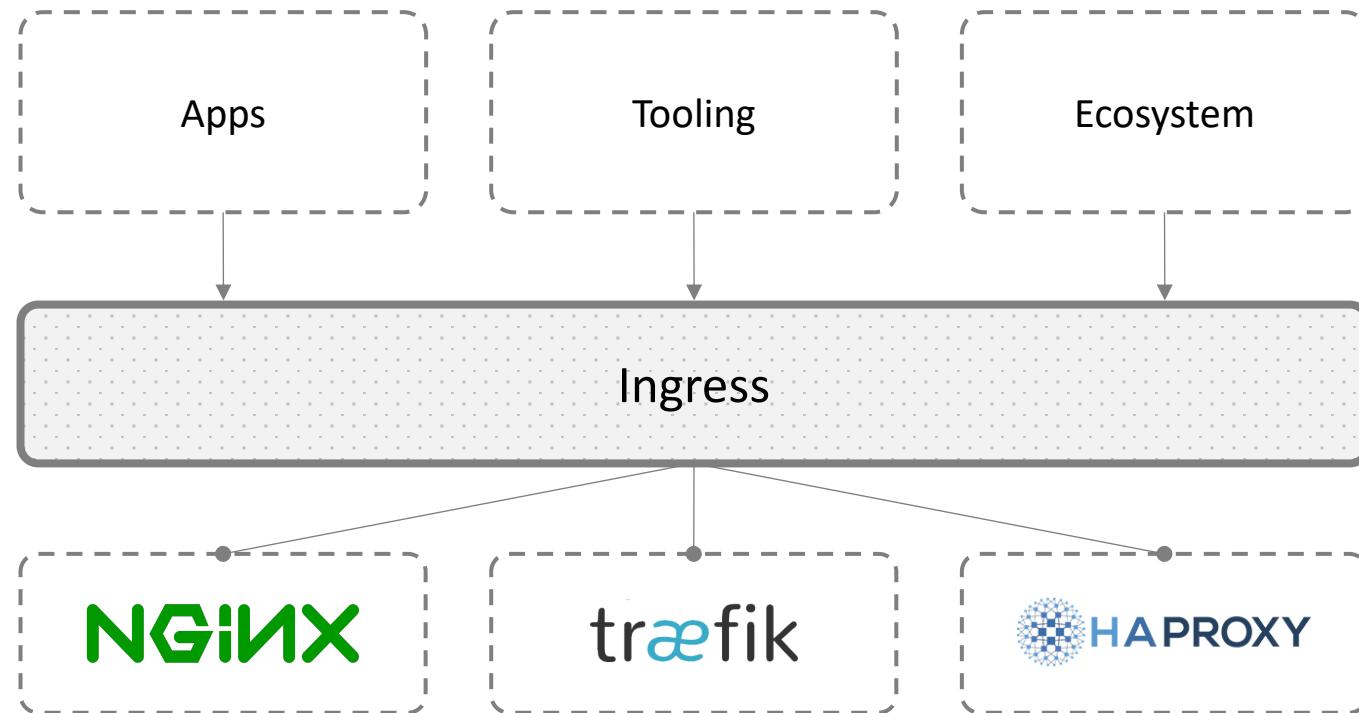


**Extensible**  
Support for new features as they become widely available



# This isn't a new concept

If the SMI concept sounds familiar, that's because it is



# So, why SMI?

Because it's faster, simpler, and friendlier



Get started  
quickly



Simpler is  
better



Ecosystem  
friendly

# Service Mesh Interface (SMI) for Kubernetes

In partnership with



Microsoft



LINKERD



HashiCorp



solo.io



Red Hat



RANCHER<sup>®</sup>



docker



weaveworks



ASPEN MESH

Pivotal

vmware<sup>®</sup>



CANONICAL



kubecost