

Cloud Native Meetup

Kong's Service Connectivity Platform

18th of October, 2022 Linz, Austria



Who am I? Why should you listen to me?



Marco Marquez Solutions Engineering Manager

8+ yrs working with APIs & building API programs





What is Kong?



Kong: The Cloud Connectivity Company

500+ Enterprise Customers







Zillow°



VOLVO



Standard Chartered





Panasonic

Nasdaq

TELUS

NORDSTROM



IKEA

FOX



Business

Verifone

Cargill



Canon



Honeywell









crv







ANZ ?

2017

2022

The Most Adopted API Gateway in the World

Over Trillions of Transactions Per Day

300M

Downloads

1.5M+

Active monthly instances

28k

Stars on Github

Unicorn Valuation \$1.4 B

ANDREESSEN

HOROWITZ

Index Ventures

TIGERGLOBAL

Other Accolades:









Premier Partner Status & Advanced ISV



CUSTOMERS



All Sizes and Industries Trust Us

2100 Self-Service **500**SMB & Enterprises

170 >\$100K ARR 100+ Global 2000







SIEMENS

Honeywell Panasonic







ELSEVIER

HEALTHCARE

Thermo Fisher SCIENTIFIC







TELECOMM & ENTERTAINMENT









FINANCIAL SERVICES



JPMORGAN Chase & Co.









U NOVARTIS







RETAIL







Basics



The Future of Software is **Distributed**

APIs & Microservices Are Increasing Exponentially

65%

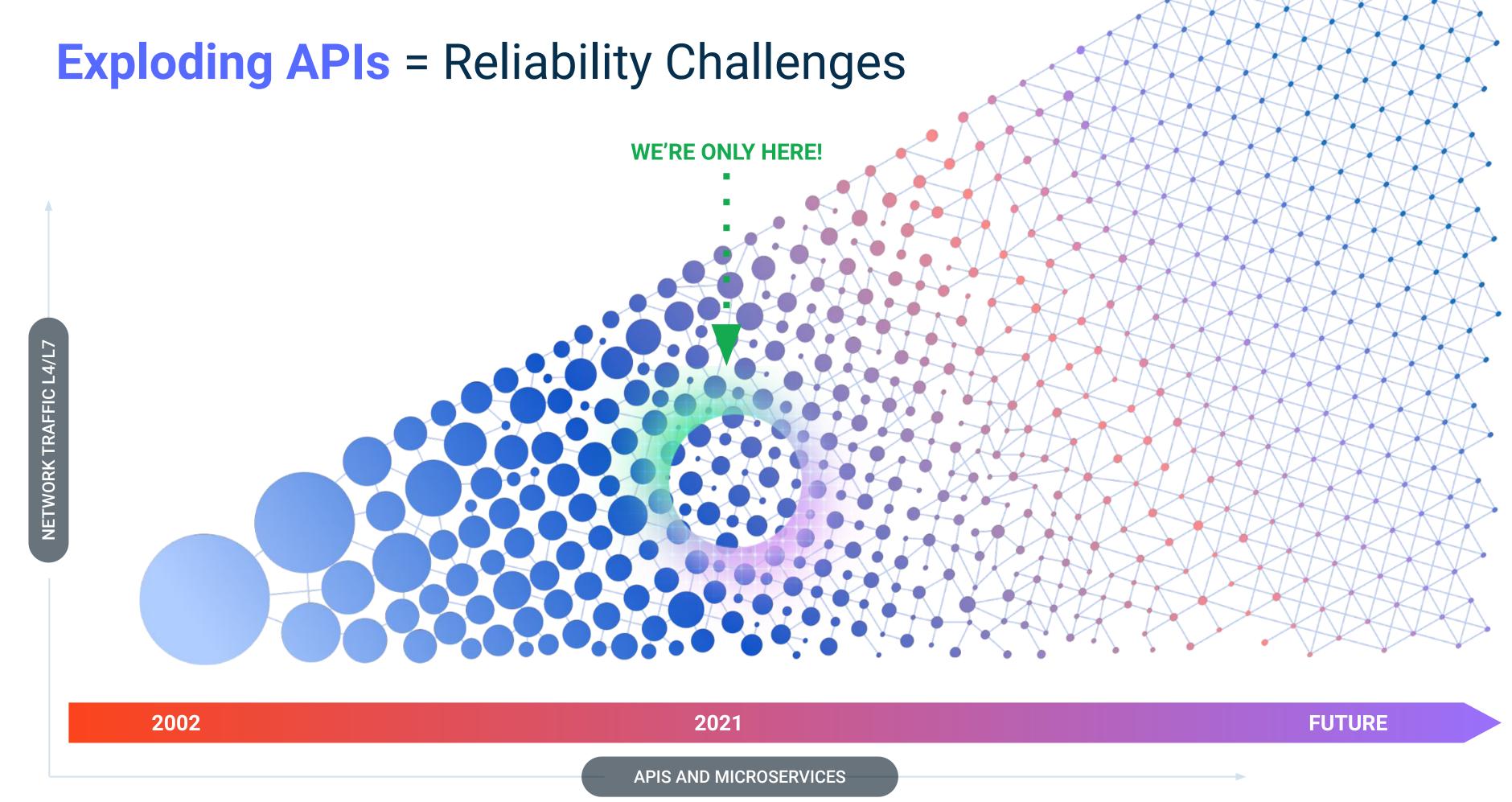
Increasing investment in APIs and Microservices¹

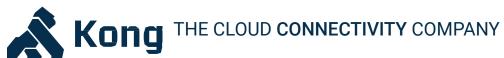
87%

Will fall behind if they fail to adopt APIs and Microservices²

100%+

YoY growth of APIs and Microservices worldwide³





Go Cloud Native

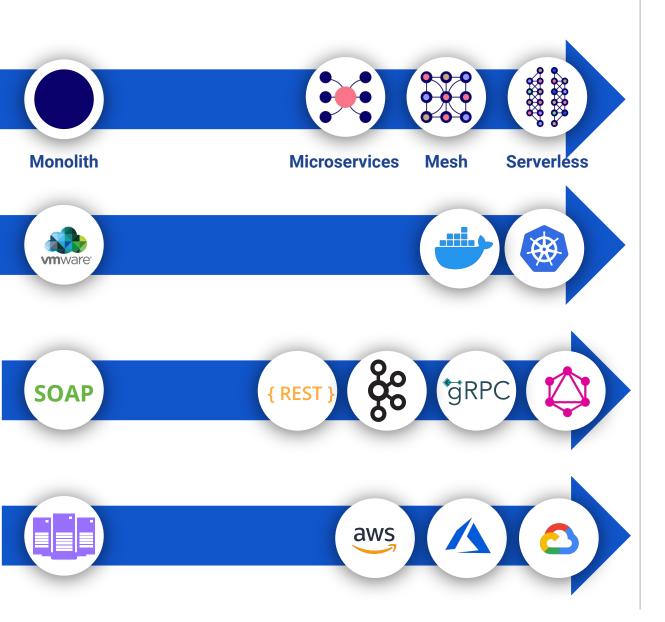
Modernize & Migrate

Become Agile

DevOps, GitOps, CI/CD, IaC

Unlock New Use Cases

Real-time, IoT, and beyond





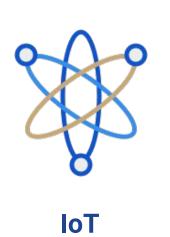
















Real-time Omnichannel



AI/ML





Mobile

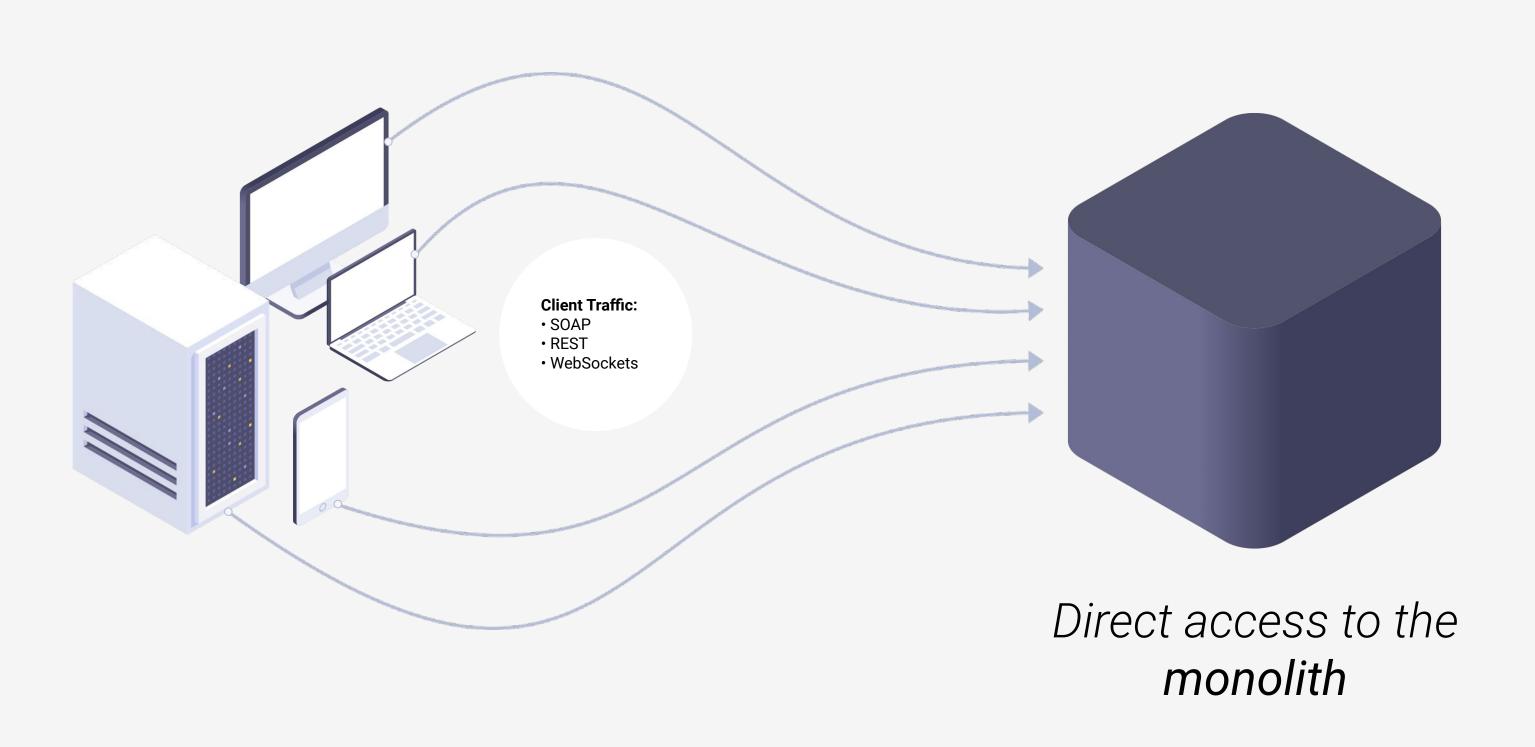
Customer 360



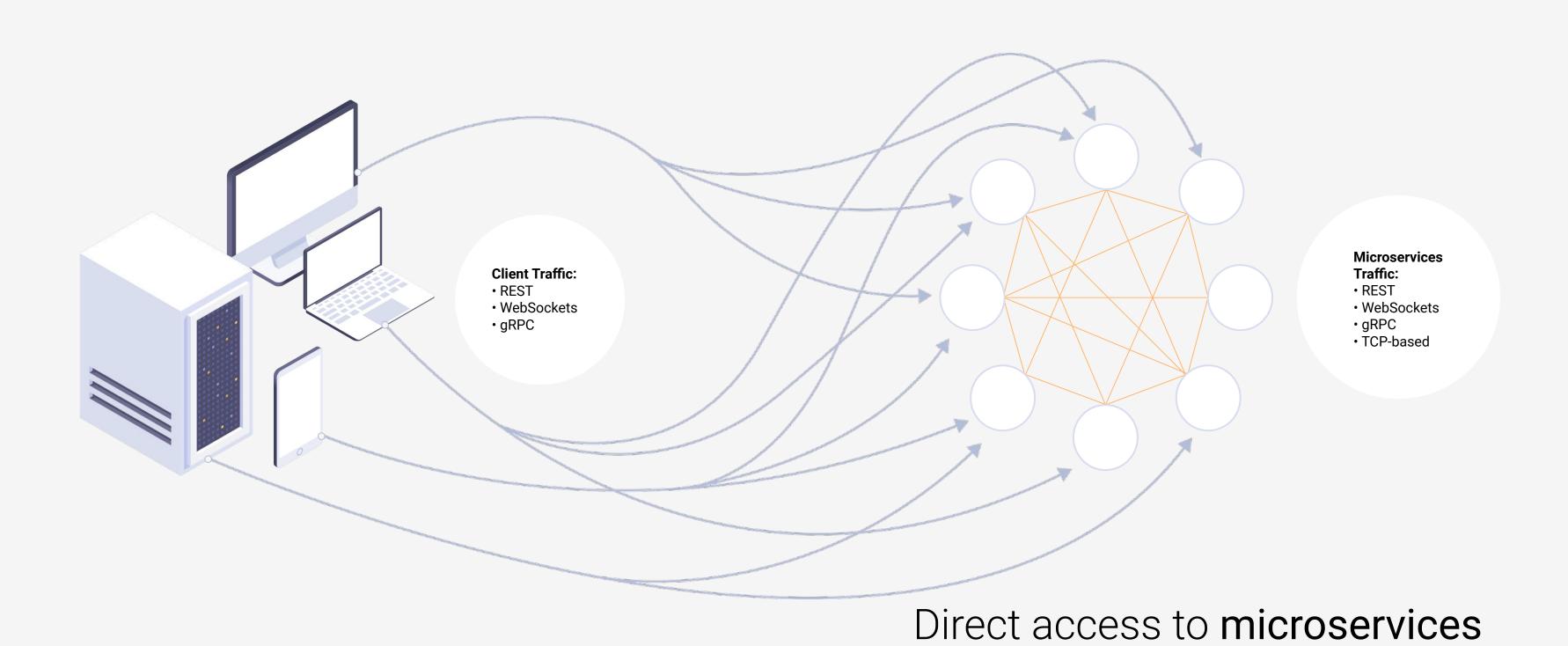
Architecture



Who works for a company that has an architecture similar to this?



Who works for a company that has an architecture similar to this?



So what's the problem?



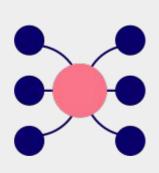
From monolith to microservices



MONOLITH

Endpoints: 1

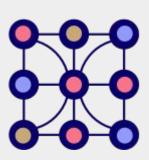
Connections: 0



SOA

Endpoints: 10+

Connections: 50+



MICROSERVICES

Endpoints: 100+

Connections: 5,000+



SERVICE MESH

Endpoints: 1000+

Connections: 500,000+

Reliability
Security
Performance
Discoverability
Complexity
Visibility

From reliable function calls to unreliable network calls.

From **secure** processes to **unsecure** networks.

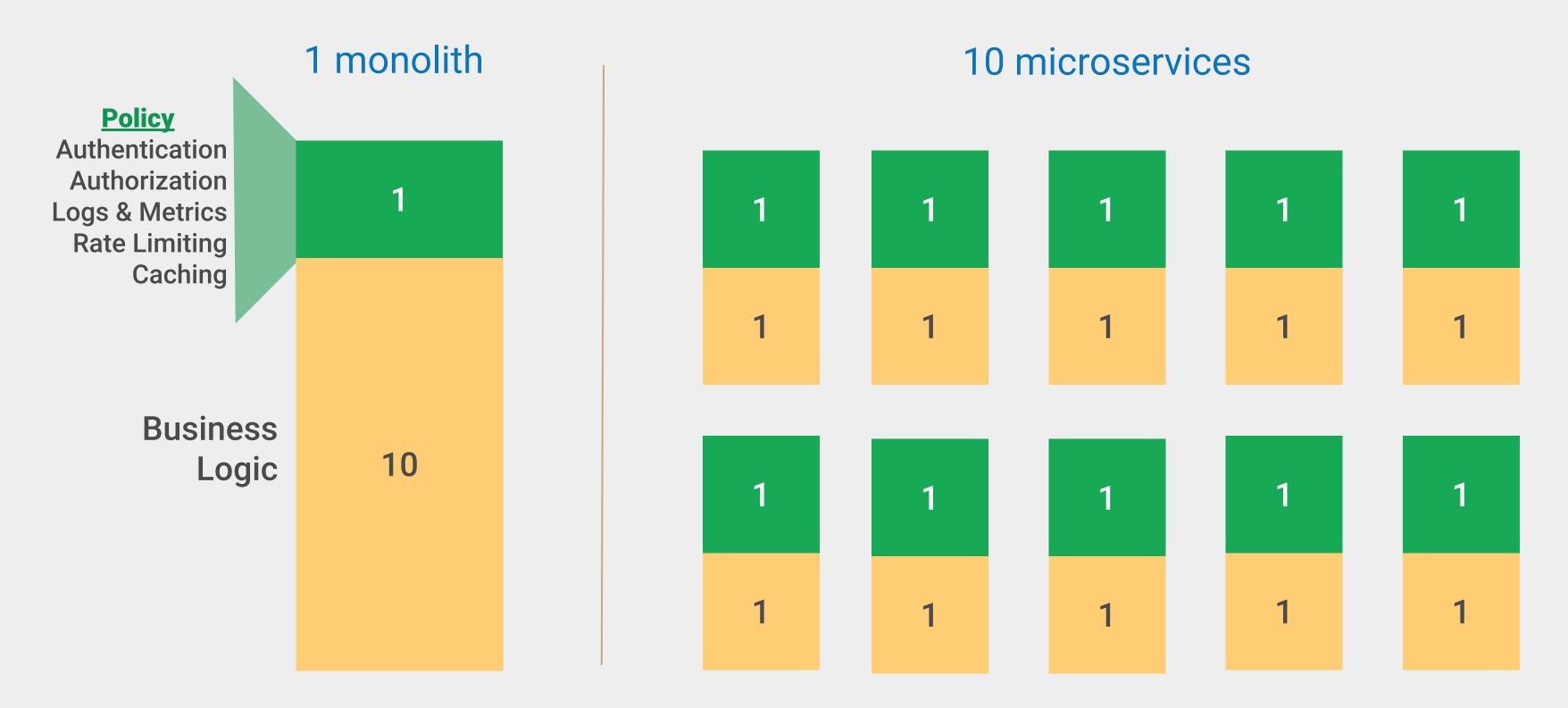
From **fast** CPU to **slow** network.

From **few** APIs to **many** APIs.

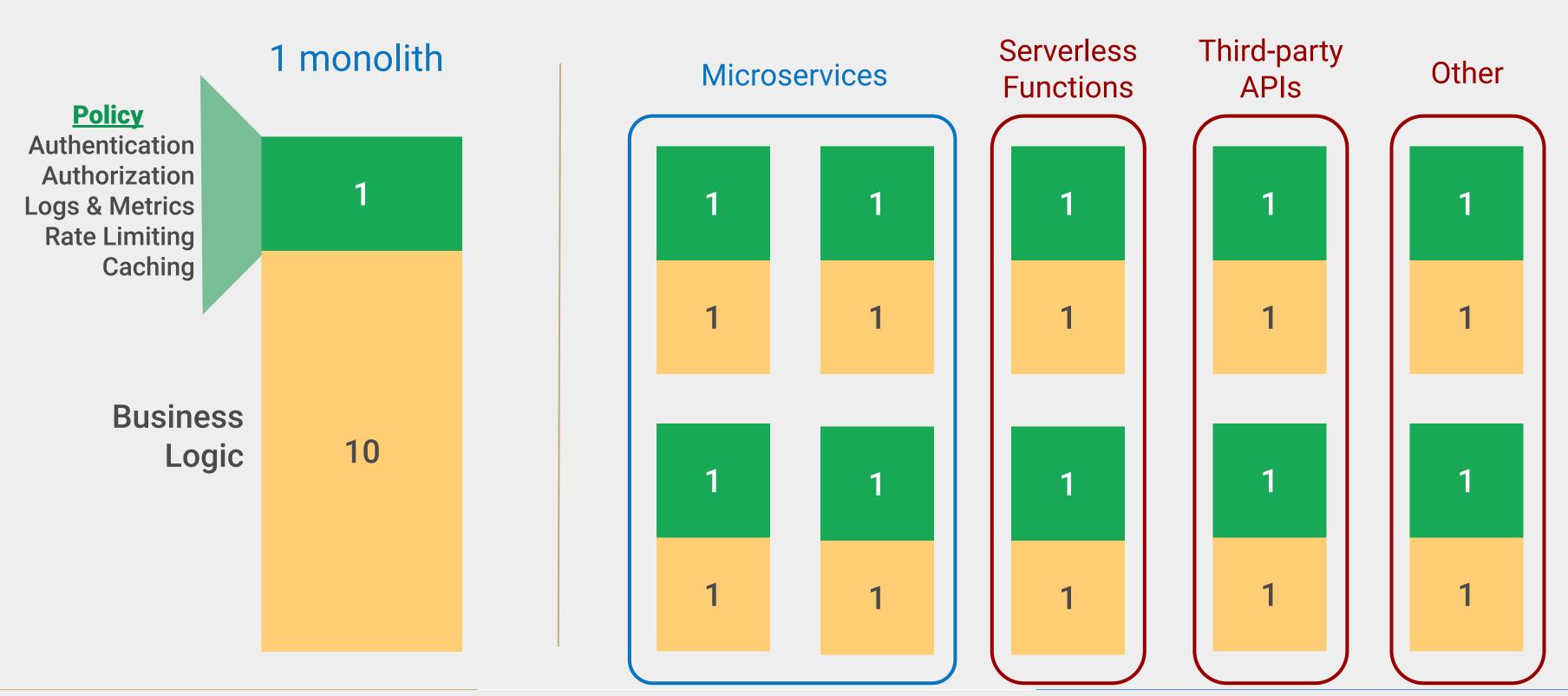
From homogeneous technology to heterogeneous technology.

From **few** deployment units to **many** deployment units.

Deconstructing a monolith

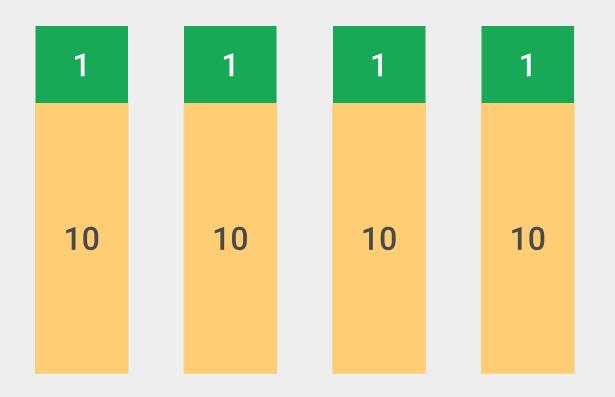


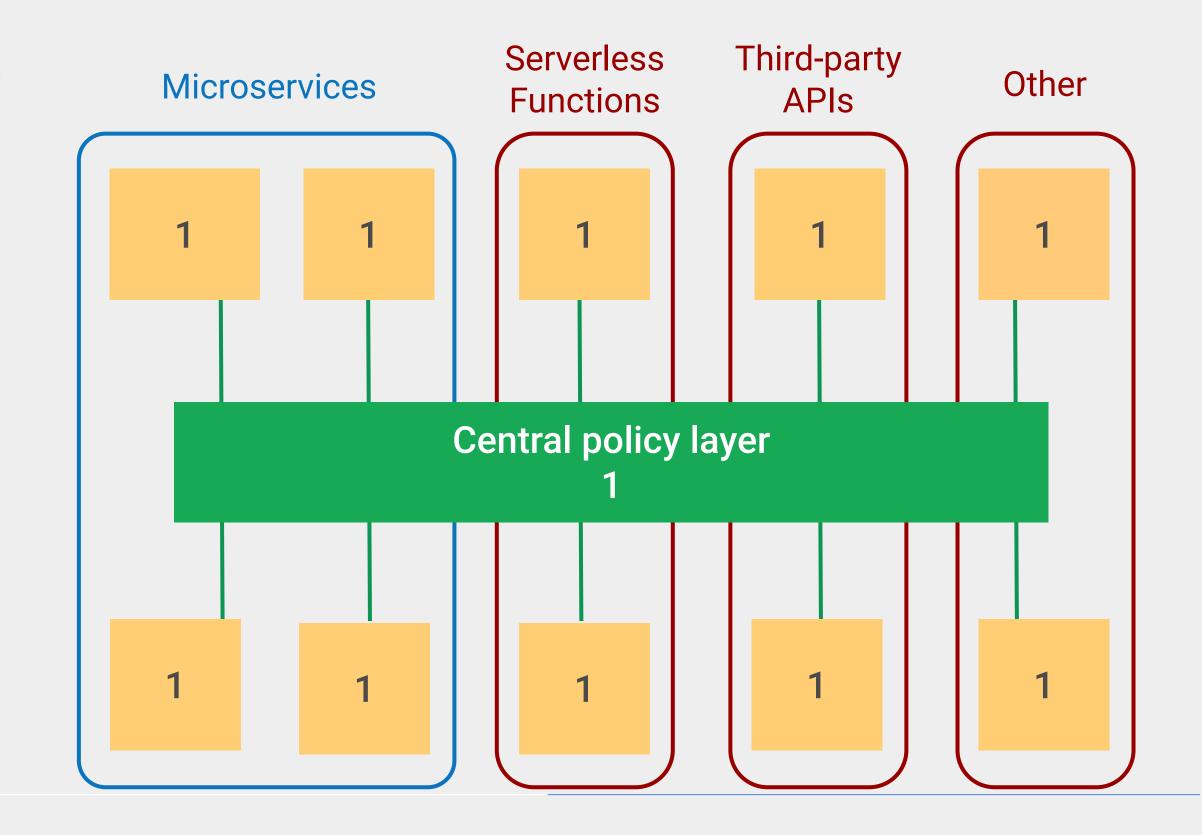
Deconstructing a monolith



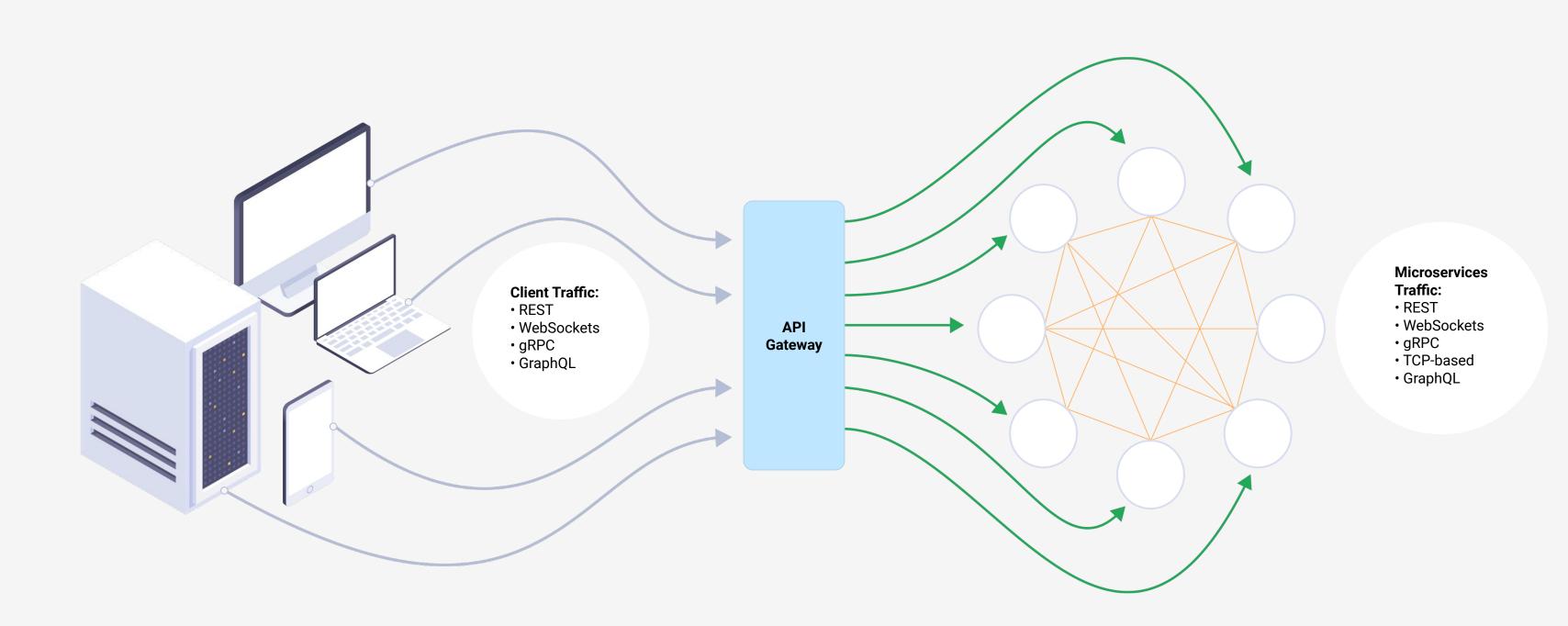
Central policy layer



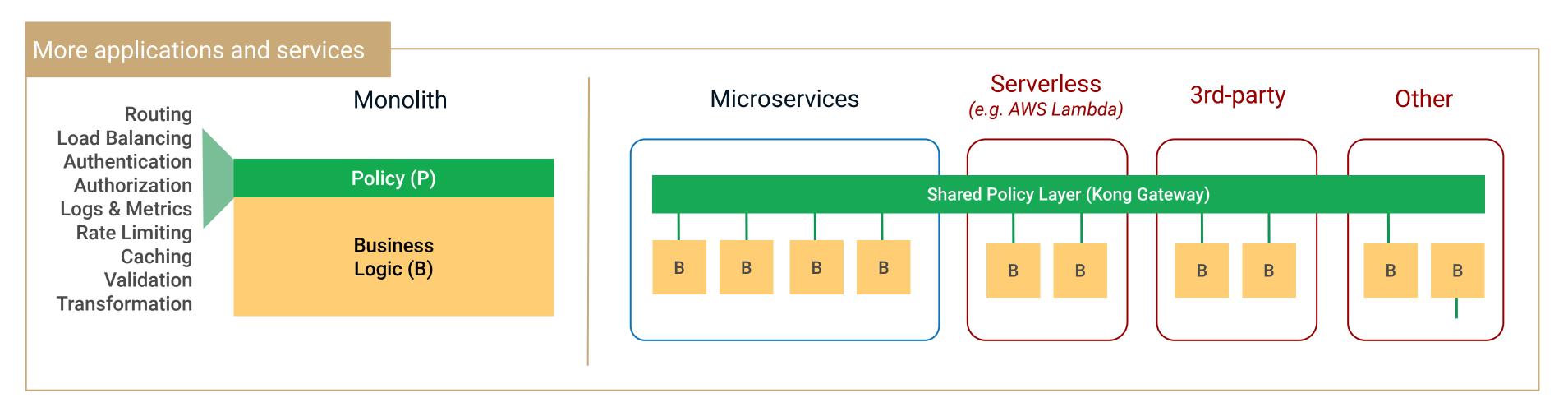


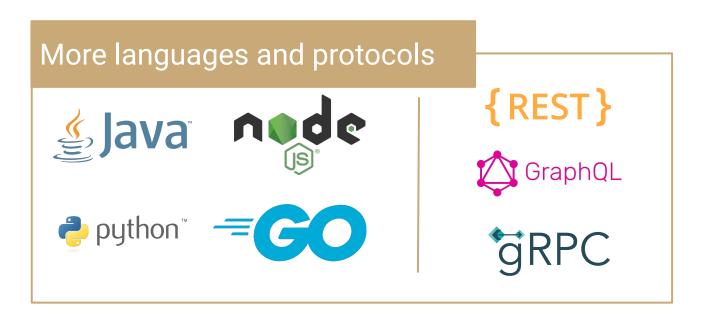


API Gateway for unified ingress and control



A Shared Policy Layer is a Necessity





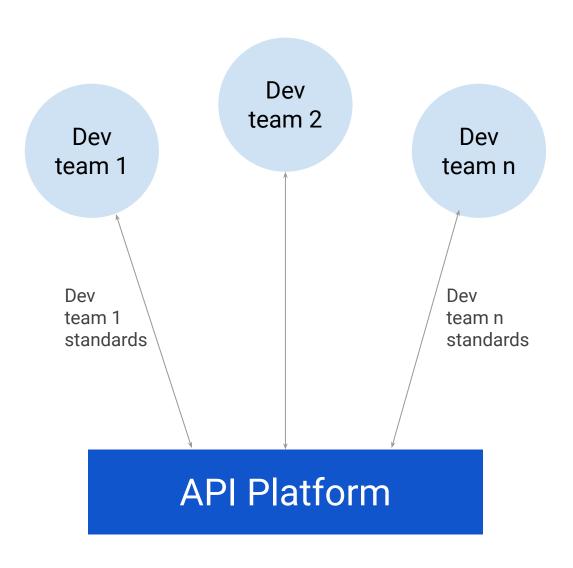


So what's the problem NOW?

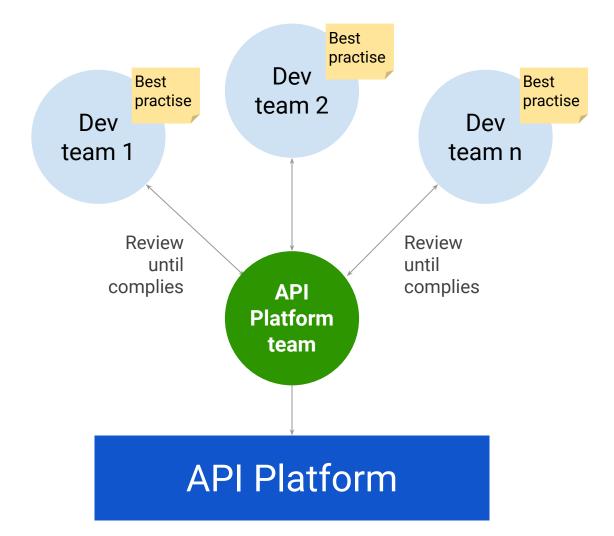


Decentralised

Centralised



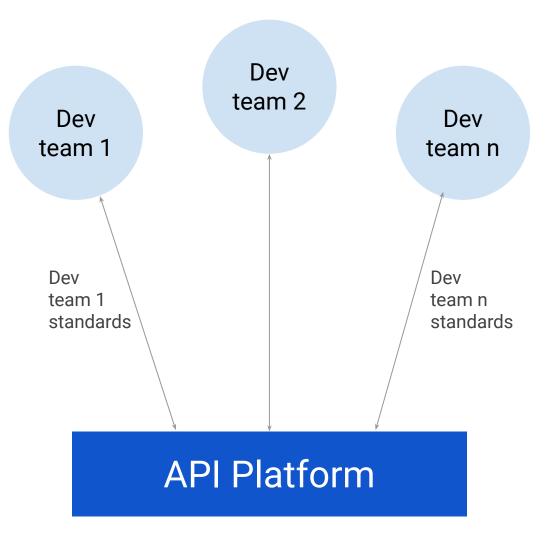
- SPEED
- BEST PRACTICES
- CONSISTENCY
- RELIABILITY



- SPEED
- BEST PRACTICES
- CONSISTENCY
- RELIABILITY



Decentralised

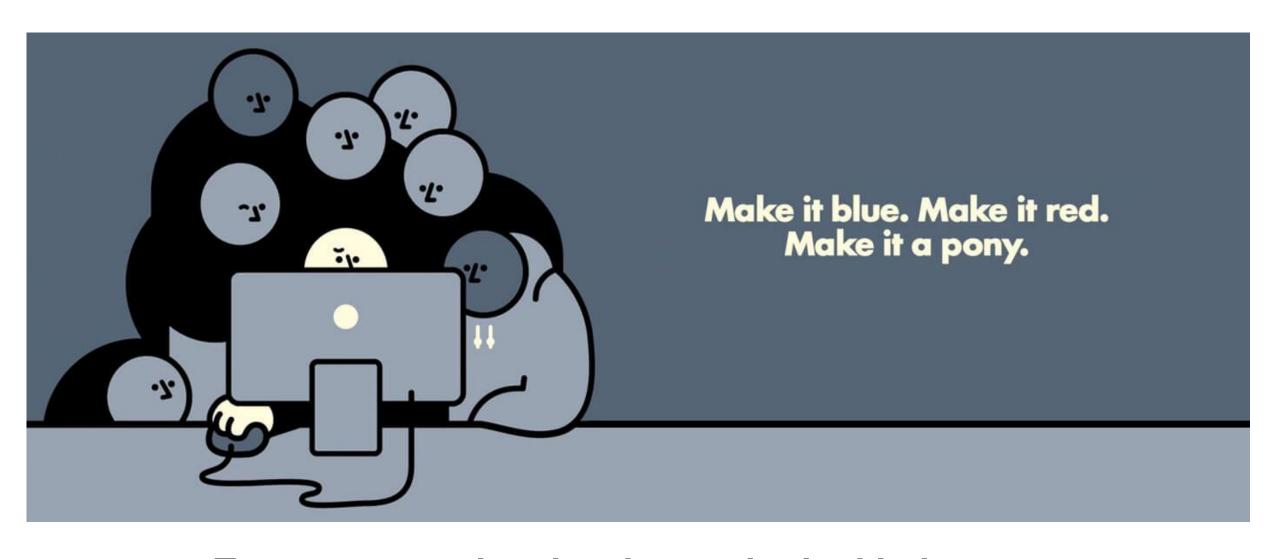




BEST PRACTICES

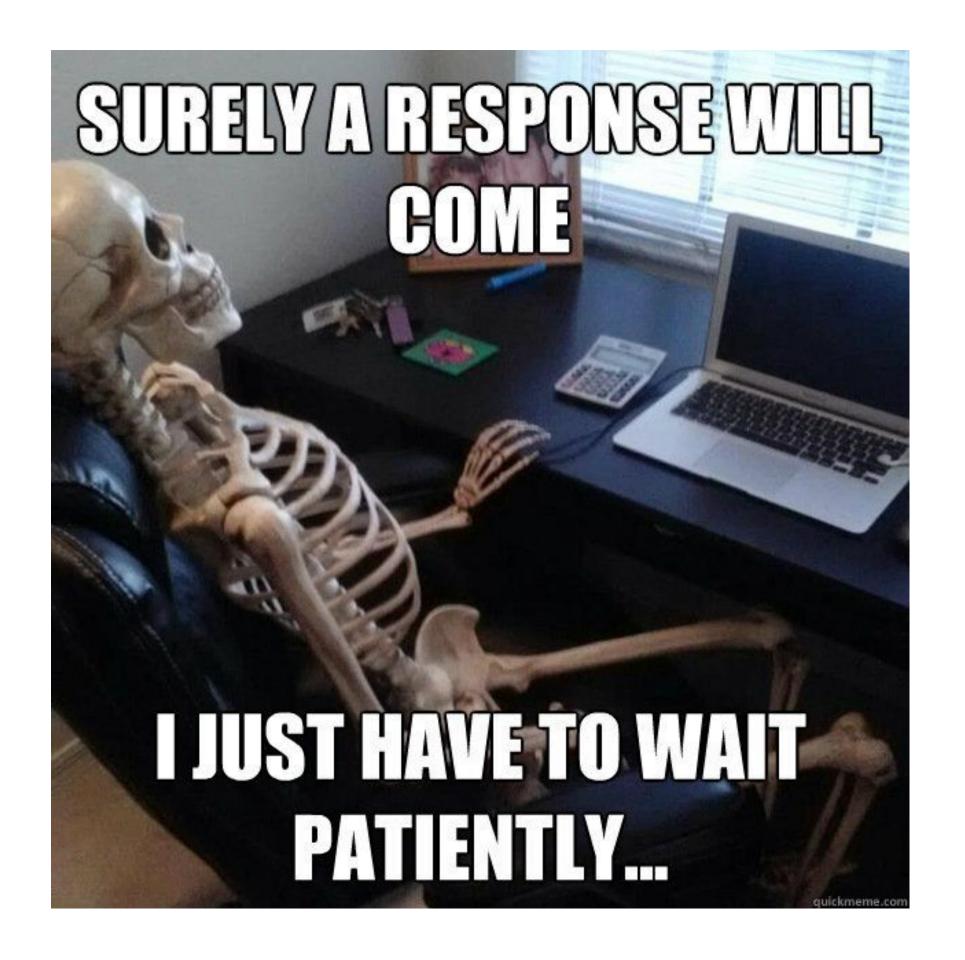
CONSISTENCY

RELIABILITY

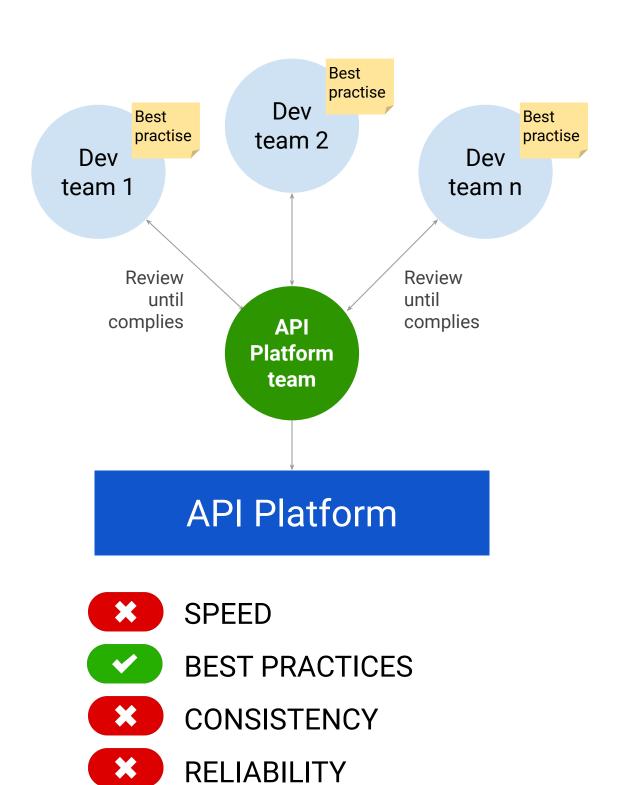


Too many -cooks developers in the kitchen





Centralised





What are the Barriers to an efficient API Delivery?

"Some organizations – typically those at the very beginning of an API program – give developers free reign to deploy, manage and publish their APIs without quality gates. This allows them to move at speed; however, with distributed development teams following different processes, the end result is an API platform full of inconsistency." Melissa Van Der Hecht

- Consistency of different development teams, processes, and output
- Speed in a complex environment with increasing demands
- Best Practices across a distributed ecosystem
- Reliability in delivering products to different environments

So what's the solution?

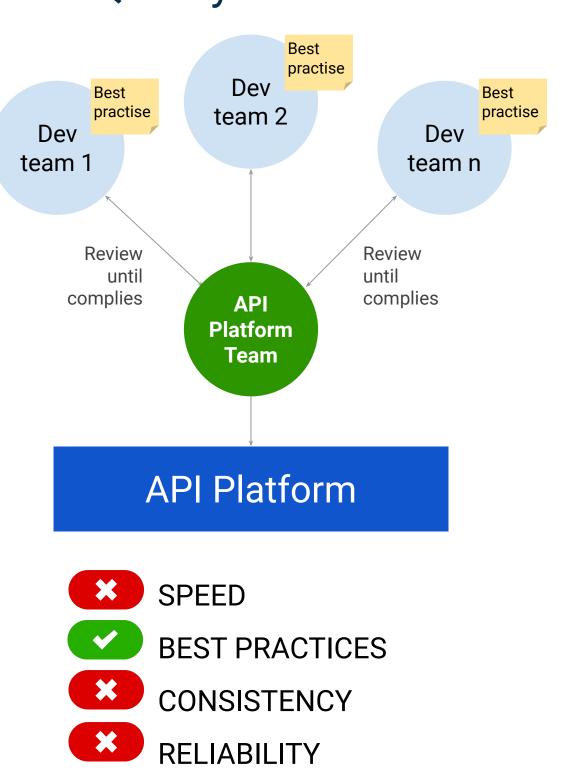


Decentralised Speed oriented

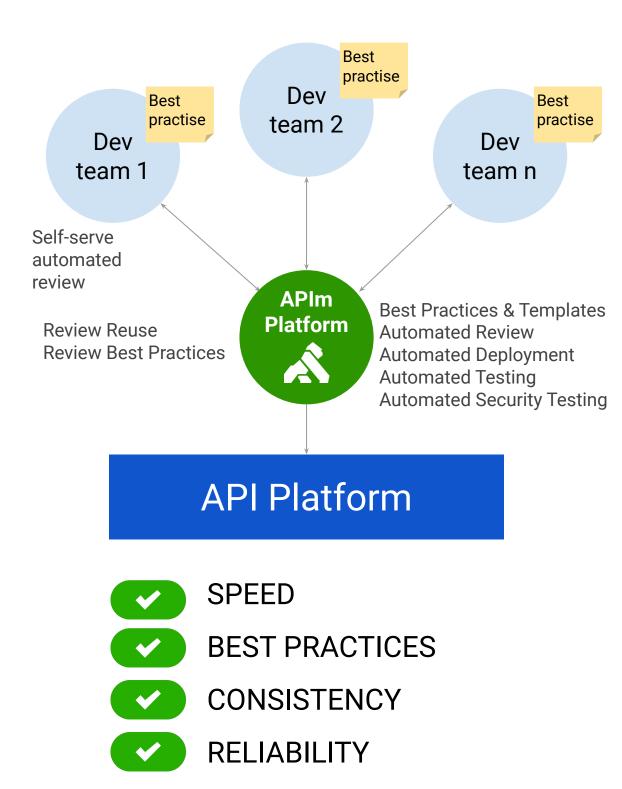
Dev

team 2 Dev Dev team 1 team n Dev Dev team 1 team n standards standards **API Platform SPEED BEST PRACTICES CONSISTENCY RELIABILITY**

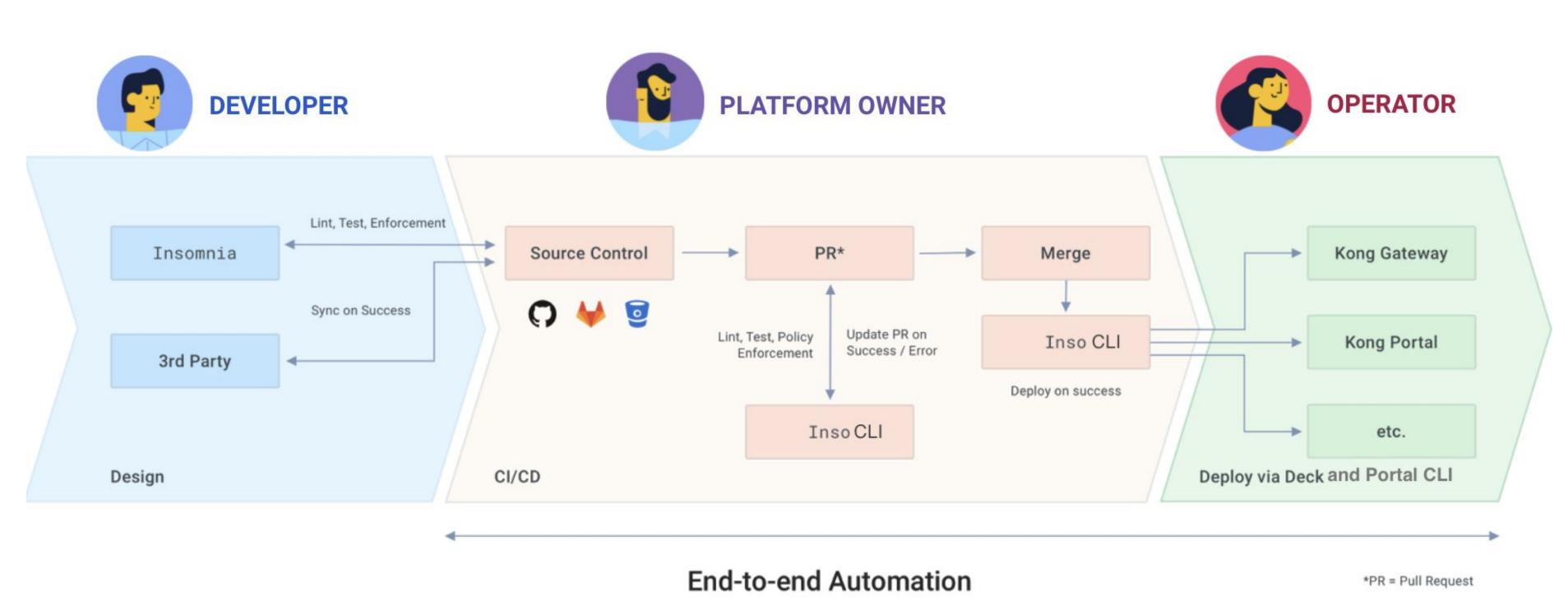
Centralised **Quality oriented**



APIOps



APIOps workflow in Kong



Demo



Thank You!

