AWS re:Invent

DEM42-S

Go event-driven with Event Mesh & AWS Lambda

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AWS re:Invent

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aws

Our lives are
event-driven . . .



A credit card is swiped…





Available credit?

Fraud?

In-store offers?

A flight is delayed…





Notify passengers?

Rebook missed connections?

Notify partner hotels?

A hotel keycard is used in an elevator…





Floor correct?

Offer for the bar?

Personalization?

Customers expect instant gratification

Organizations must react to events in real time to satisfy customers!

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An event is…

- A message sent by an app or device to signal the occurrence of an action
- A change in state

Today, we have *many distributed* environments!





And we use *a lot* of technologies!

- Over 100 AWS services
- Hundreds of programming languages & frameworks
- Proprietary & open-source libraries
- Many communications protocols
- New SaaS services everyday
- API gateways
- Specialized data stores
- And more…

This makes enterprise event distribution complicated

Public cloud



AWS Lambda

aws



Amazon S3



Amazon SQS



Amazon SNS



Amazon Kinesis

PaaS

OpenShift

Kubernetes

Pivotal Platform

iPaaS

SAP

Salesforce

Dell Boomi

Mulesoft

Concur

1. How do you achieve “uniform” connectivity and general event distribution?
2. How do you automate and federate across hybrid environments?
3. How do you scale, govern, make robust, and secure?

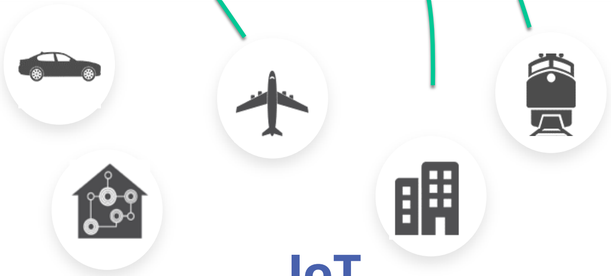




Runtimes

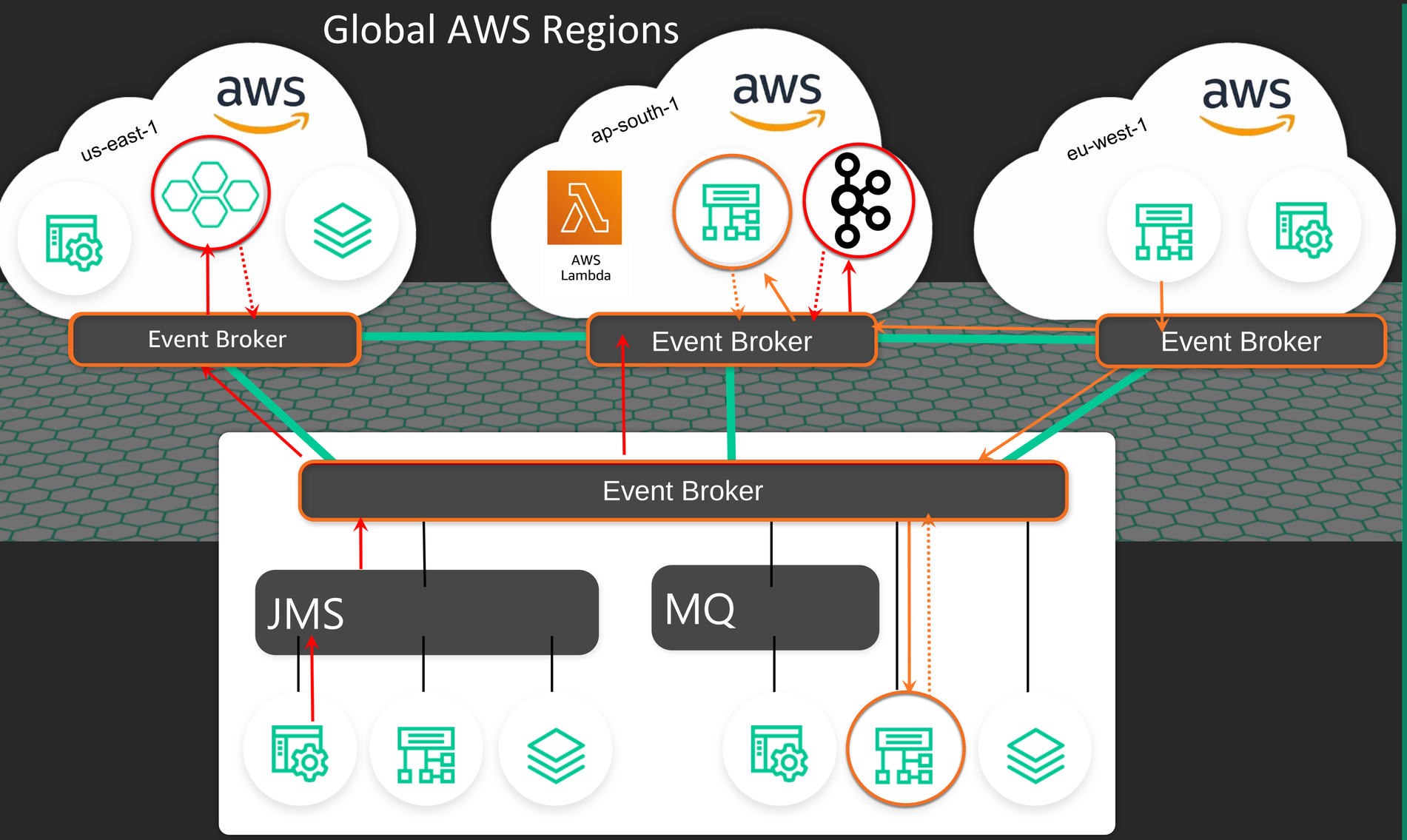
IBM SAP TIBCO Oracle

Legacy application infrastructure



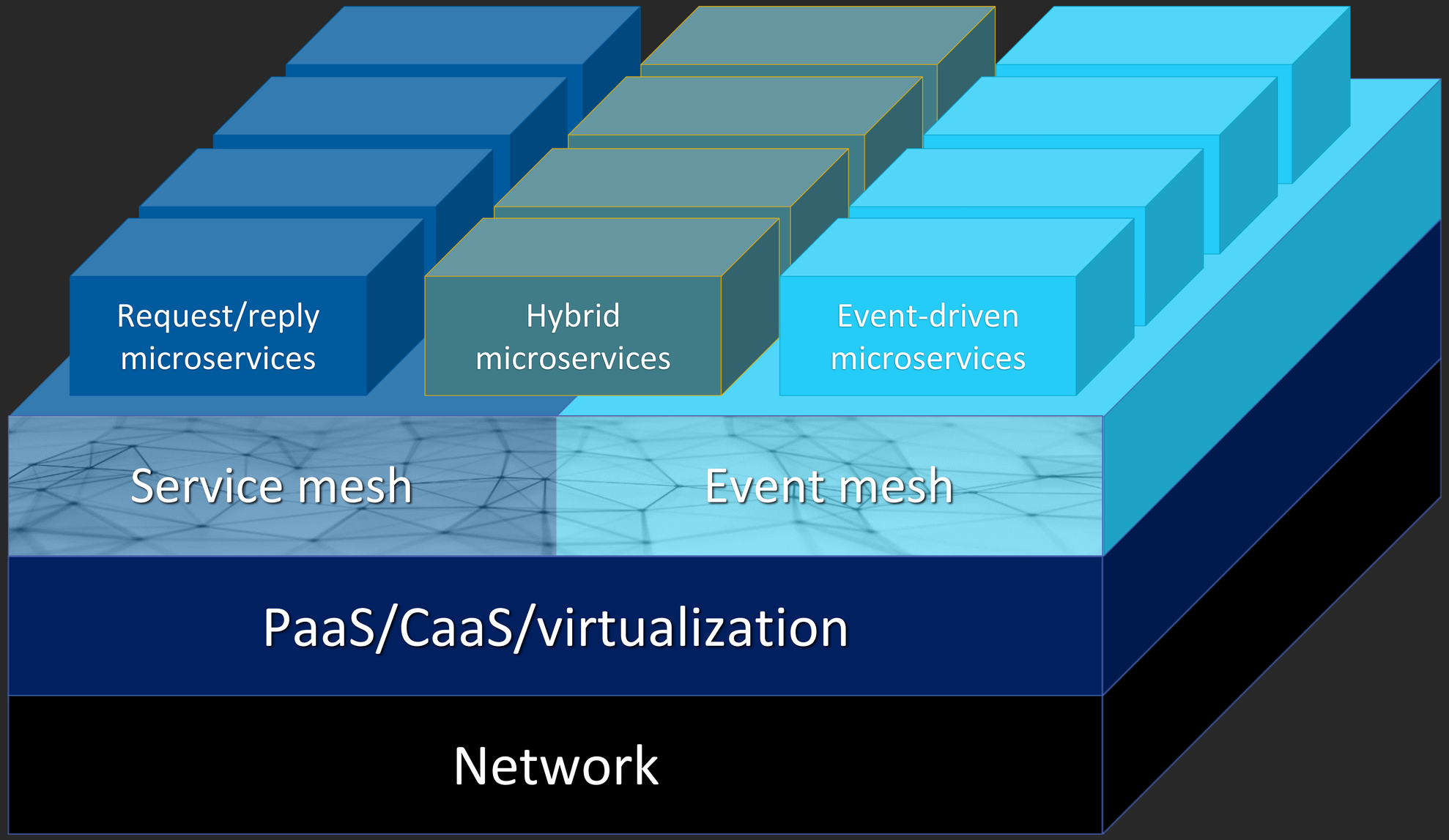
IoT

Event mesh is the data plane



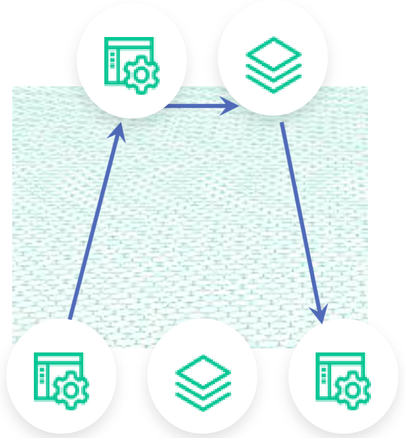
- Uniform connectivity
- Dynamic routing
- WAN optimization
- High performance
- High availability
- Security and governance

Event mesh complements service mesh



Ways you can use an event mesh

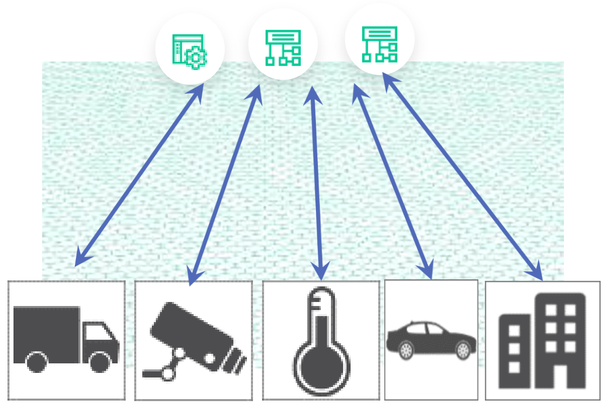
Connect and Choreograph Microservices



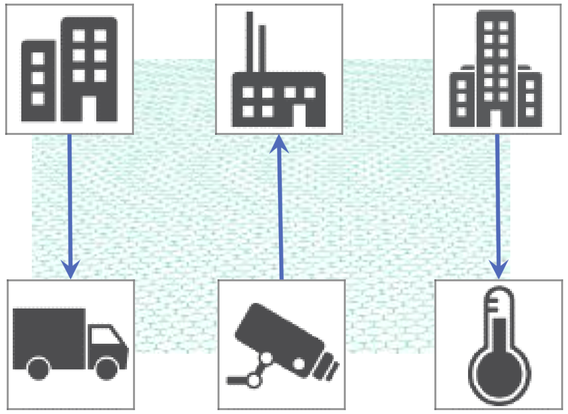
Push Events from On Premises to the Cloud



Enable Smart/IoT Services by Linking Apps and Devices



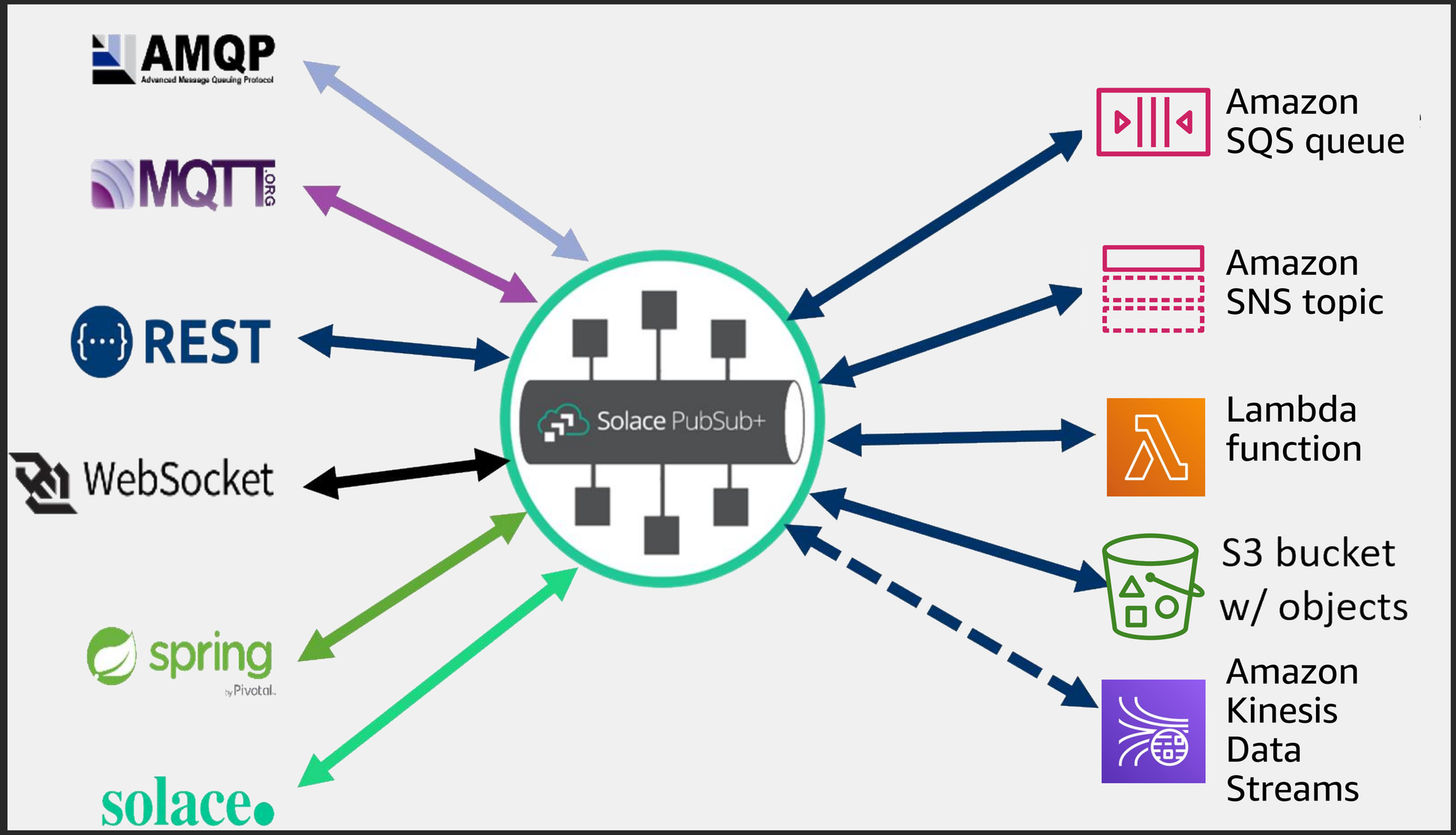
Enable Data as a Service Across Lines of Business



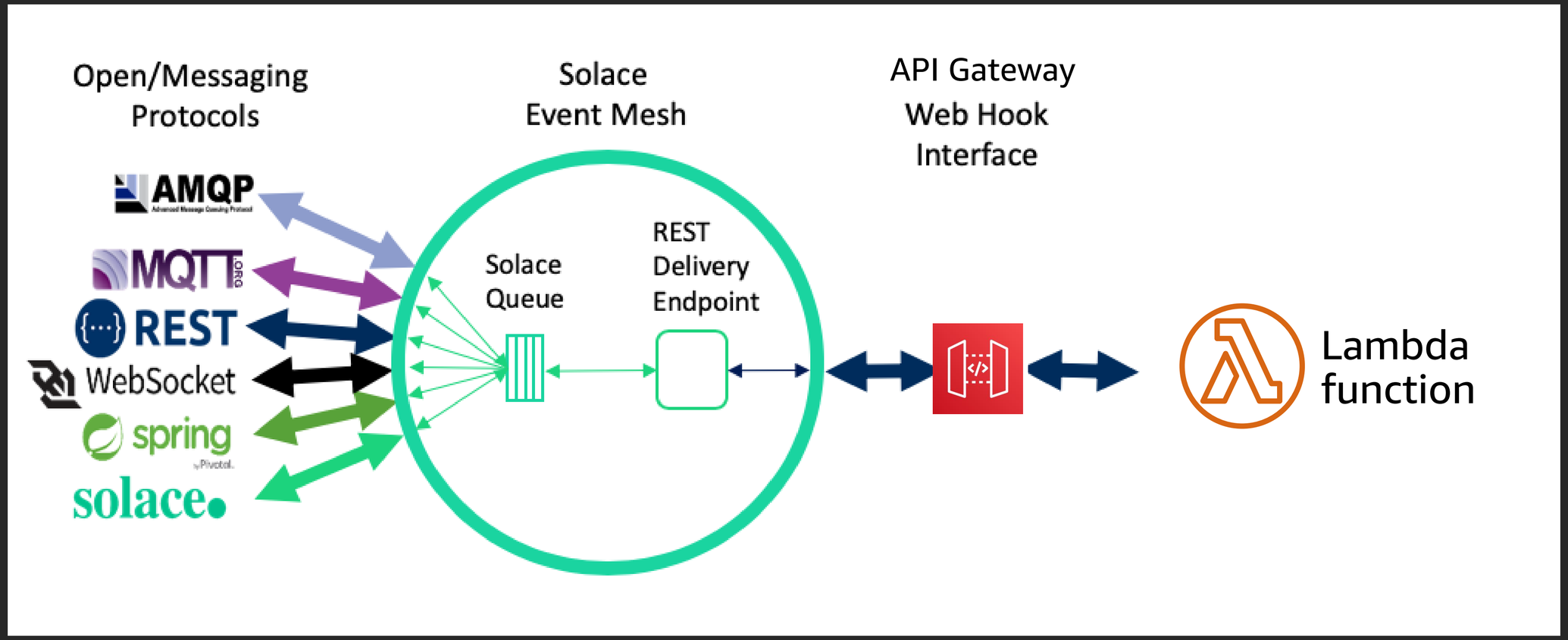
Demo

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No code integration from event mesh to AWS data services



Lambda integration example



Demo

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