



# Integration Suite, advanced event mesh

*September 20th, 2022*  
*Scott Dillon*

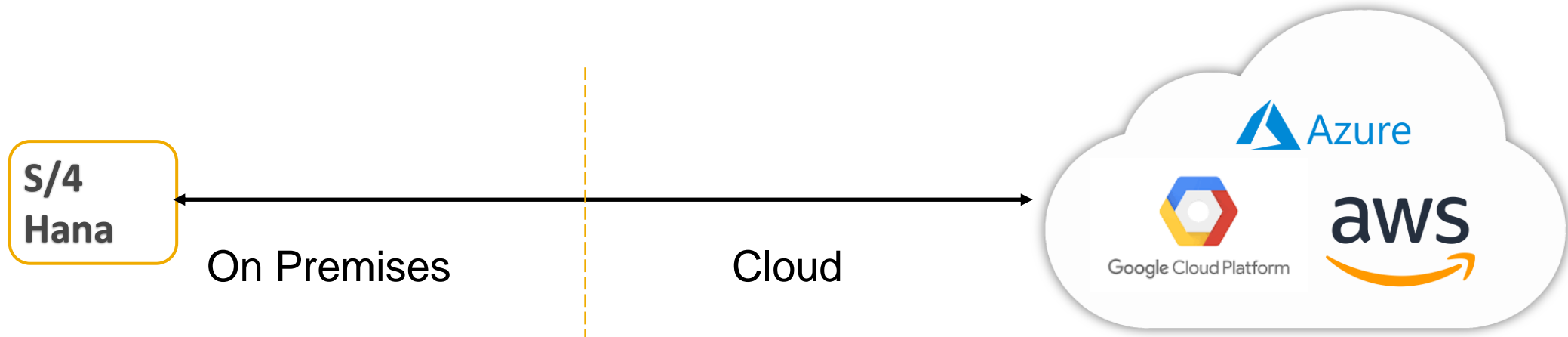
CONFIDENTIAL

# Typical Customer

**Challenge:** Every customer would like an easier, faster and more flexible way to integrate/interconnect across the myriad of applications, systems, microservices that now compose an enterprise landscape.

## Key Criteria

- Integration artifacts are decoupled for future upgrades (e.g. Luggage Carousel )
- Step closer to real time where possible ( e.g. Amazon package delivery )
- Push not pull where possible (e.g. Instant Message)
- A wide range of technical connectivity options (e.g. HDMI, USB-C, DVI, etc..)
- Less duplication for via 1:Many scenarios (e.g. LinkedIn Videos)

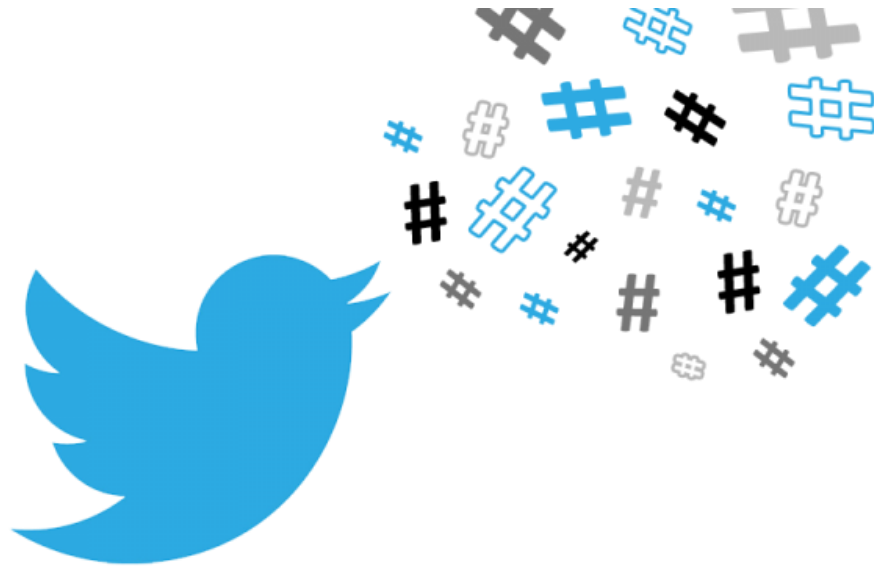


# Can we take this concept to the enterprise?

entanglement....



# What if... you could “Tune in” to the events in your enterprise in *Real Time across clouds*



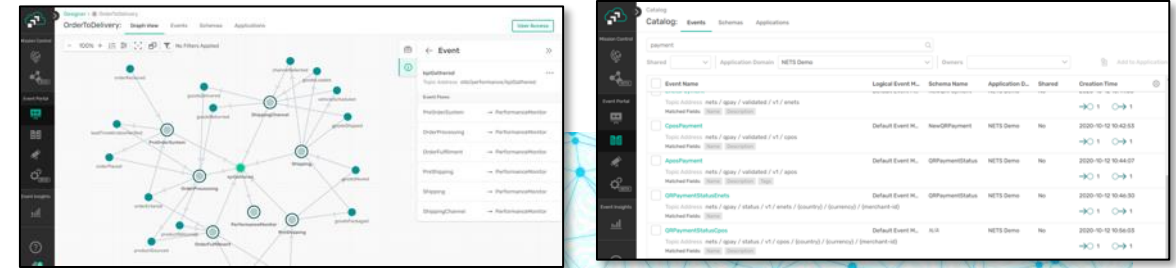
#sap

#music

#dogs

#selfie

**Hashtags**



**SAP Integration Suite,  
Advanced Event Mesh &  
Event Portal**

pay/init/v1/corp/us

order/shipped/v2/sku123/eu

pay/init/\*/\*/sg

order/shipped/\*/sku123/>

em/bpass/DXB/\*/scan/>

order/cancel/>

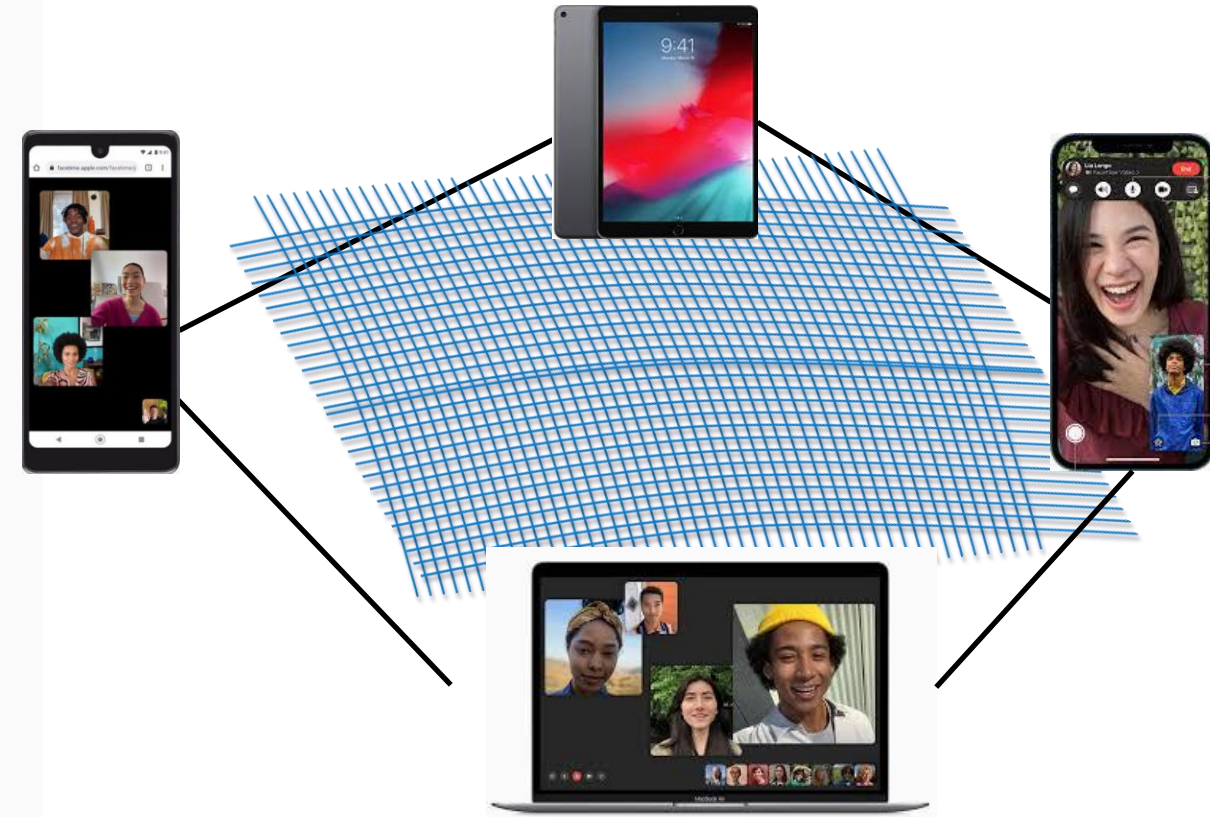
**Events and Topics**

**Event Mesh – Twitter of the Enterprise – Data Mesh Foundation**



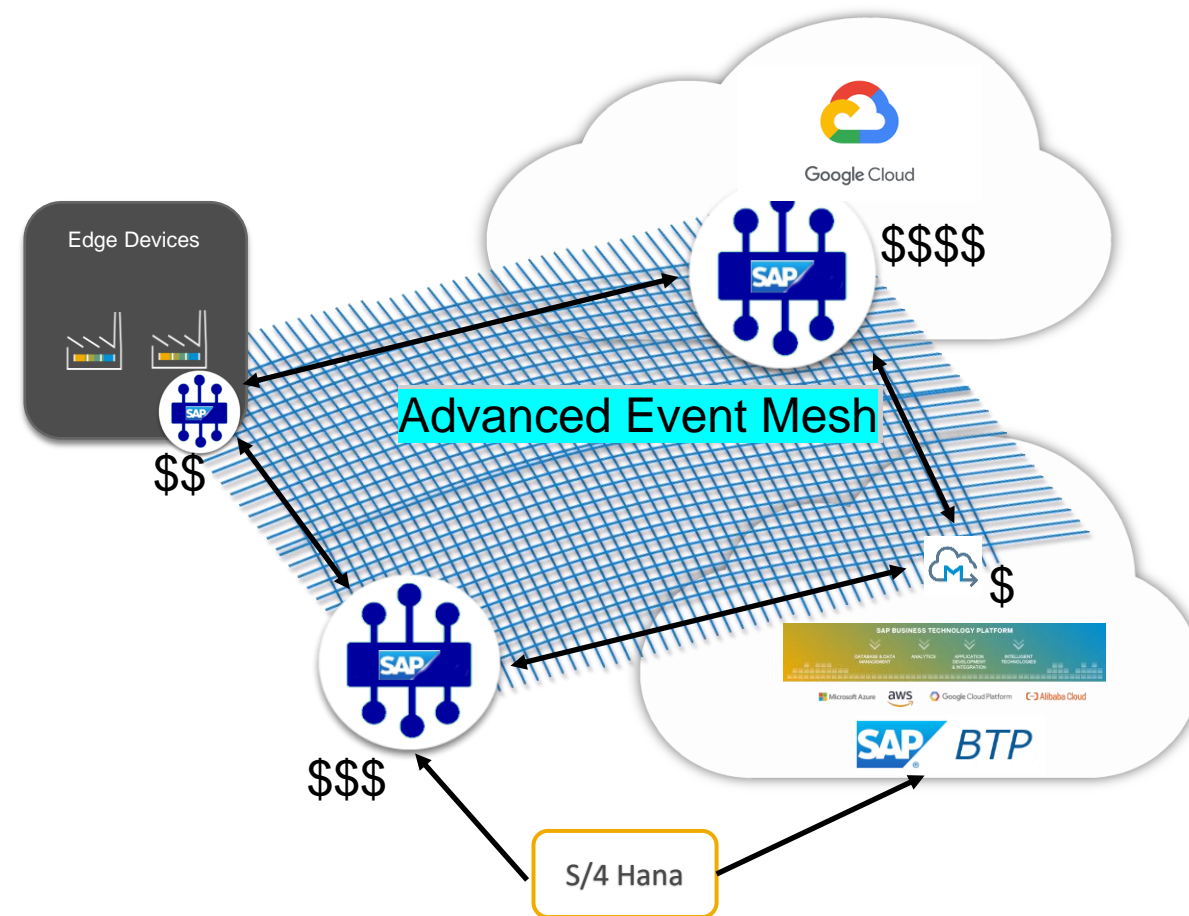
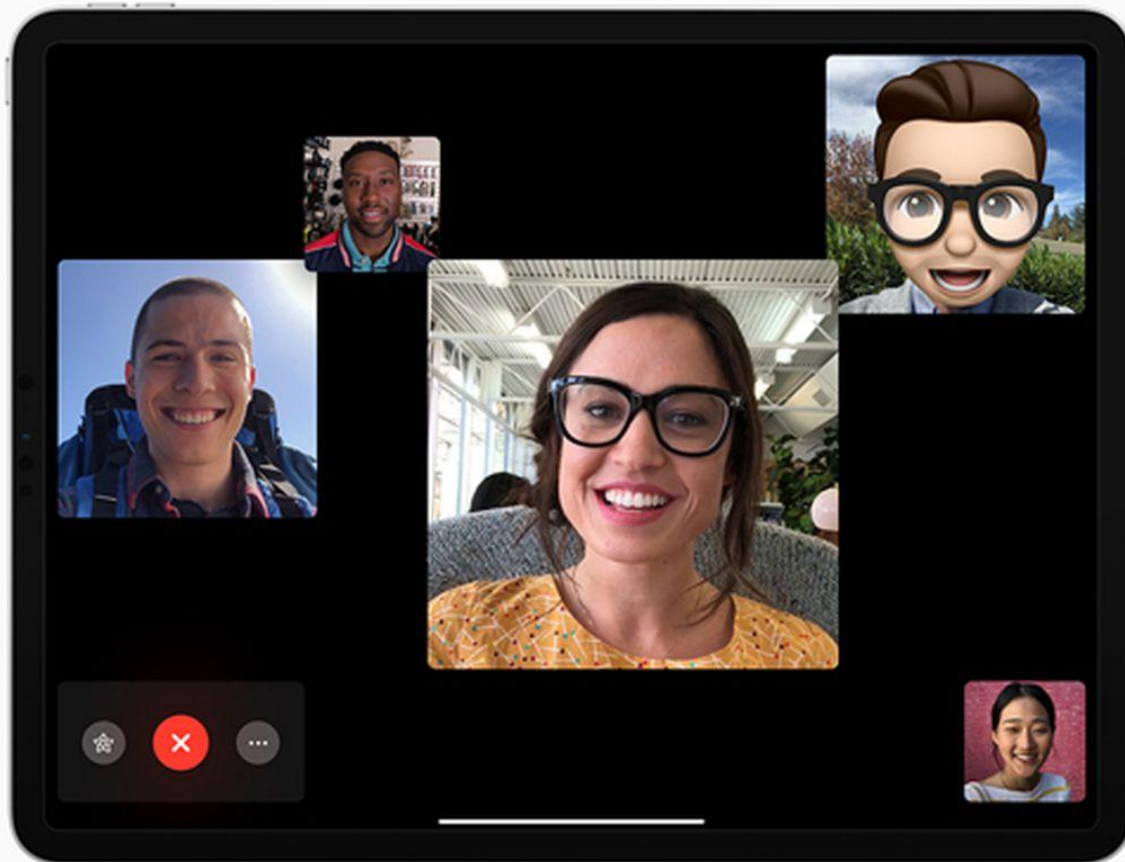
# HOW!!

Participants are on a call using different devices, different OSs from different locations all communicating seamlessly in real time. If only we could build systems like that?



# HOW!!

With EDA, systems are the participants, and the phones get replaced by the SAP AEM agent referred to as the “broker”. Brokers can be placed in store, in warehouses, in clouds like GCP, DCs or near your ERP system to enable simple enterprise connectivity.





# EDA allows your business to operate in real-time with Digital Decoupling



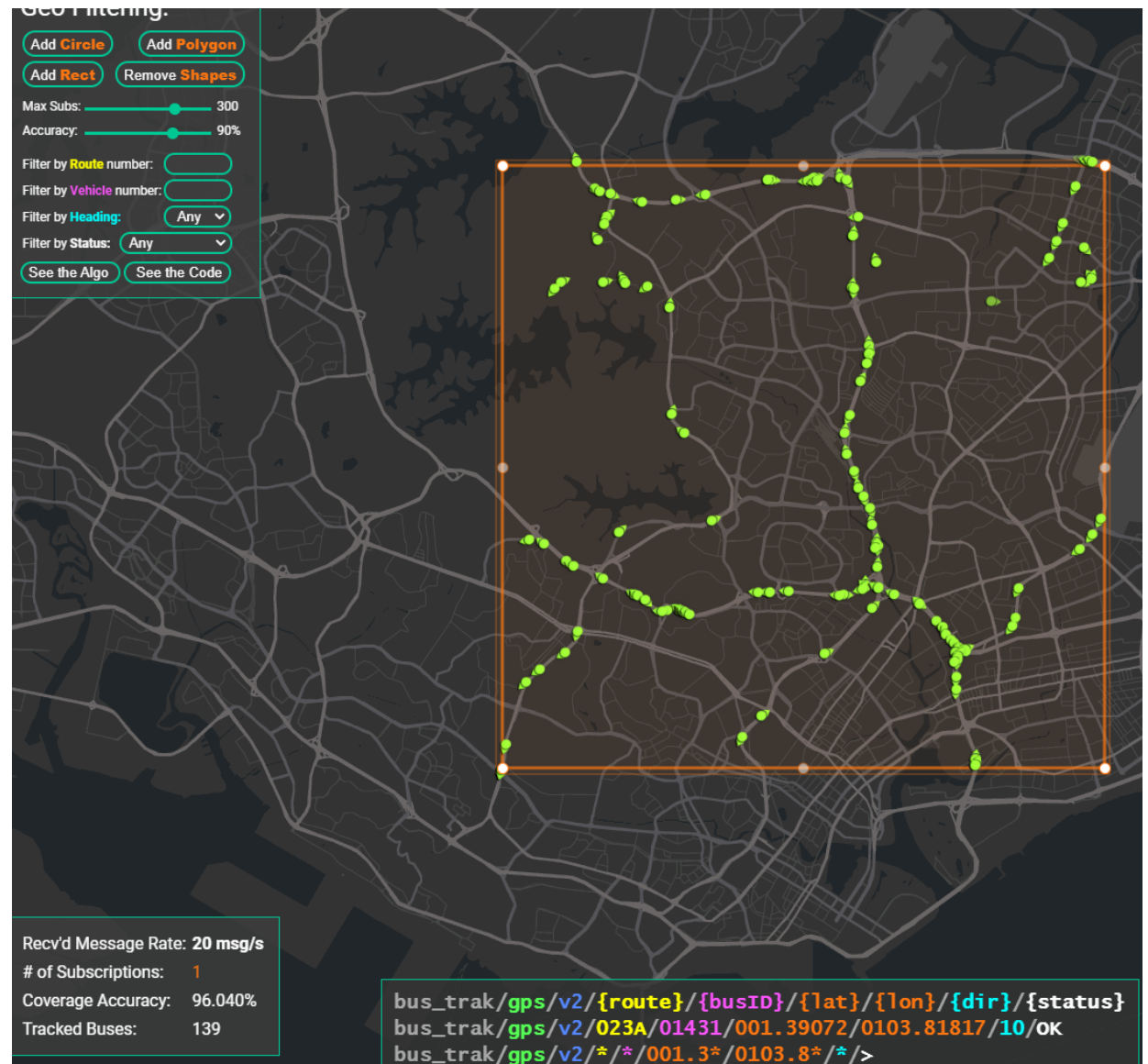
# Quick Demo – I wonder how they construct those ride sharing services?

Topic:

Bus\_track/gps/v2/route/busID/lat/lon/dir/status

Questions:

- Is it possible to filter the data dynamically?
- Are there vehicles in my area?
- Are there vehicles broken down?
- Which vehicles are on route # 9X?
- Which buses are broken down?







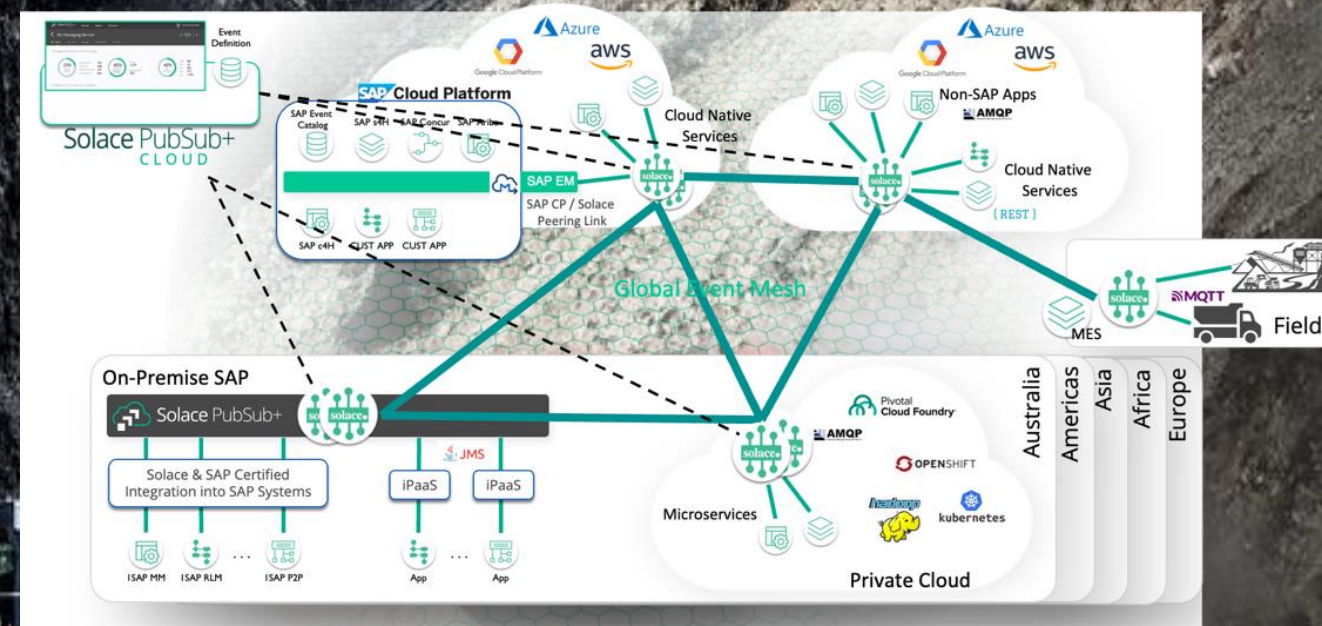
## Enterprises in All Industries are Embracing EDA





Drive efficiencies with  
Real Time Events

Correlate Equipment  
and People Events  
with Business Events



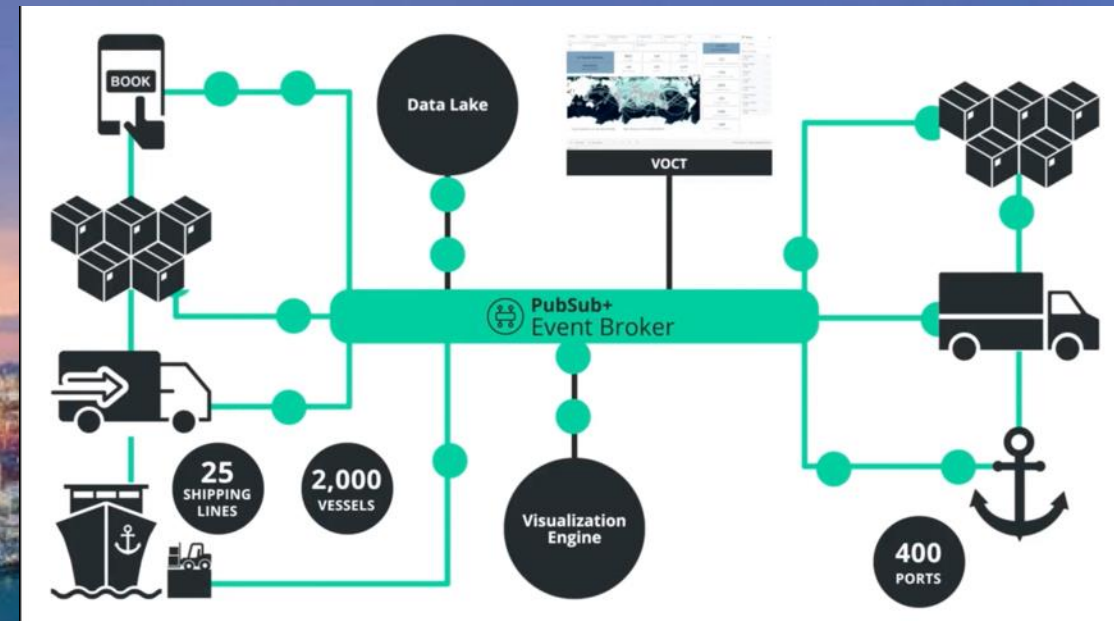
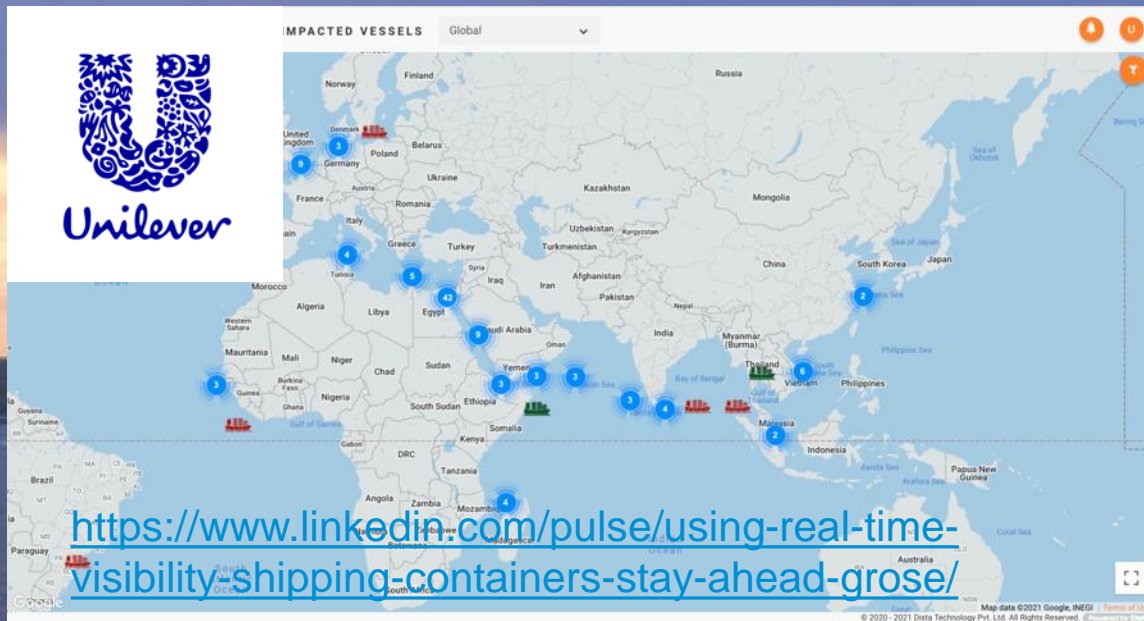
## Global Mesh

Cloud | On Prem  
Edge (Mines)  
Event Mesh over slow  
connectivity

# Connected Mines

Mine Events, People Events, SAP Events





**10M\$**  
Annual Savings in  
Detention and  
Demurrage

**55K**  
Event Processed  
per Day

**10K**  
Container Records  
per Day

**500**  
Port congestion  
records per day

**1.6K**  
Vessel Position  
Records per Day

**Suez Canal Blockade**  
Handled in <2hrs

**CO2 Alerts**  
Sustainable Logistics

# Event Streaming in Real Time Supply Chain





Hot Day?

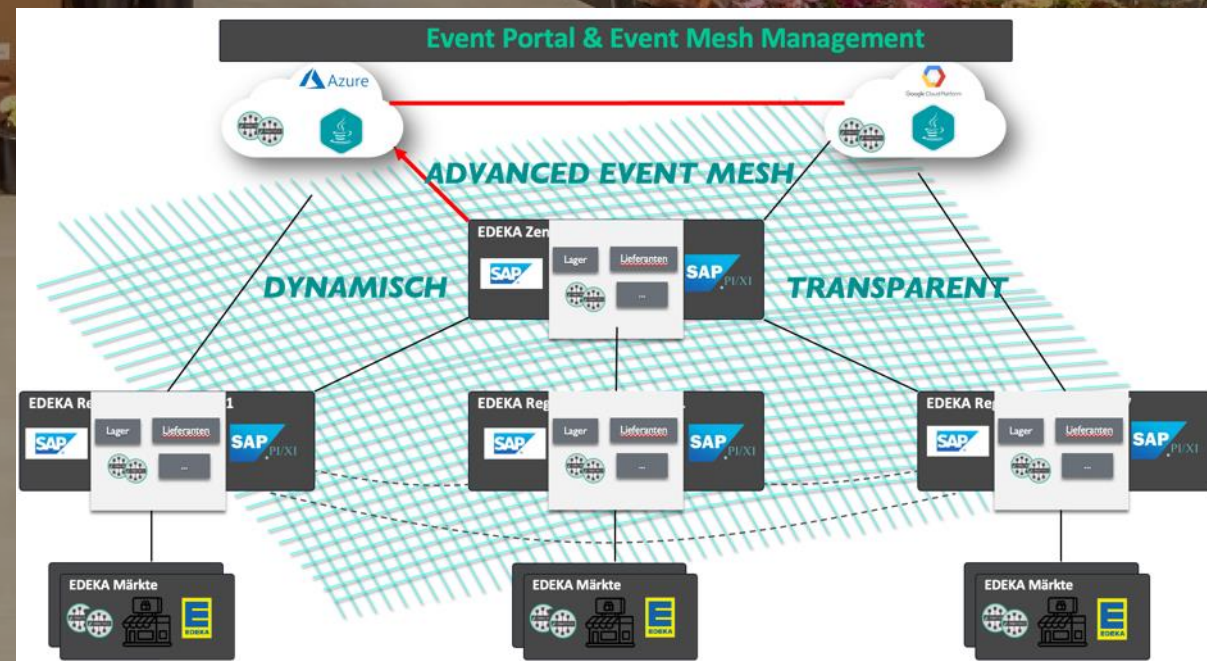
Apples may perish

Drop the price

Update price in SAP Master Data

Push to stores in near real time

Price across 6000 stores updated in near real time!





# Use Cases for the CPG

## Personalized Offering

Instant recommendations based on large data volumes, smart segmentation, and business rules



## Sustainability

Real time validation of environmental impact as shipments are being planned in real time.



## Customer Satisfaction

Being able to analyze in real time customer sentiment is key to attracting and retaining customers.



## Real Time Insights

Processing and sharing data in real time provides unmatched decision-making capability when shipping and routing goods (e.g. Suez Canal)



## Real Time tracking of Products

Like consumers, wholesale distributors would like to be better informed of the status of their products.



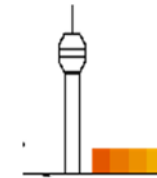
## Supplier Collaboration

Real time notification of purchase order creation and payments improves collaboration and reduces potential disputes.



## Real time Control Tower

The use of real time to track all shipments provides the opportunity to visualize and react in real time to potential disruptions in the supply chain.



## Scalable Order Systems

With the continued growth of online systems, an enterprise grade scalable online system is critical. Peak volumes are handled easily with an event driven approach.



## Master Data Management

The proliferation of side car legacy systems and applications have necessitated the real time dissemination of master data



## IT-OT Convergence

The introduction of IOT has provided huge advances in real time visibility for industrial equipment. The ability to monitor/track and reduce downtime on production lines is crucial.



## Composable Applications

Covid has shown that companies must be able to react and respond in an agile fashion. The ability to access real time data streams allows applications to be created/deploy in weeks.



## Modernization of Legacy Applications

With the widespread availability of technical adapters, legacy applications can easily participate in real time event driven applications while preserving custom code.



# EDA Capabilities required to support outcomes

Real Time  
Response



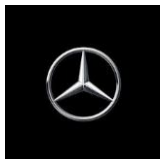
Events  
Discovery



Decoupled  
Connectivity



Dynamic  
Routing



Fan Out  
Calling



Eliminate expense of  
1:M Interfaces

Reduced App  
Development Time

Reduced Egress  
Charges

Reduced System  
Load

Customer  
Satisfaction



# Discovery Centre

[Home](#) / [Services](#)



## Services

Integrate and extend your solutions, optimize your business processes, and create an engaging digital experience using SAP Business Technology Platform services.



[Show Filters](#)

### Categories

#### All (5)

- New & Featured (2)
- Free Tier Services (3)
- Retiring Services (0)

### By Suite

- Extension Suite - Development Efficiency (2)
- Extension Suite - Digital Experience (0)
- Extension Suite - Digital Process Automation (0)
- Integration Suite (3)

### By Capability

- AI & Machine Learning (0)
- Analytics (0)
- Database and Data Management (0)
- DevOps (0)
- Developer Productivity (0)
- Digital Process Automation (0)
- Integration (3)
- Internet of Things (0)
- LOBs & Industries (0)
- Mobile (0)
- Runtimes & Containers (1)
- Security (0)
- User Experience (0)

Showing 5 services

NEW



#### Advanced Event Mesh

Use an event-streaming and management platform for the real-time enterprise.



#### Event Mesh

Learn more about the Event Mesh service for SAP BTP.



#### Kyma Runtime

Develop and run containerized applications and extensions on Kubernetes.

FREE TIER



#### SAP Graph

A new unified API to a connected data graph of SAP business systems.

FREE TIER



#### Integration Suite

Develop and manage enterprise-wide integration across heterogeneous landscapes.

FREE TIER

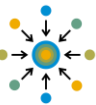


Sort By: None

<https://discovery-center.cloud.sap/>

# Summary

## Integration Suite, Advanced Event Mesh:



- Can provide customers with capability across all 5 Facets of EDA
- Is built into BTP and integrated with SAP Solutions
- Provides connectivity across complex/Hybrid landscapes. (e.g. On premise, Azure, AWS, etc....)
- Availability of an Event Portal for Event Discovery
- Can provide Event Visibility across different Broker Implementations (e.g. Kafka, RabbitMQ etc.)
- Enterprise features built into the offering. (e.g. HA setup is not an afterthought)
- Scale – proven scalability via some of the worlds biggest companies
- Extensive Protocol Support to ensure enterprise connectivity
- Flexible deployment models
- Analytics via Event Insights
- Agnostic nature of events makes consumption and delivery of applications easier and faster

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