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Phil Scanlon

Events are all around us...

OT Update

Employee Onboarding
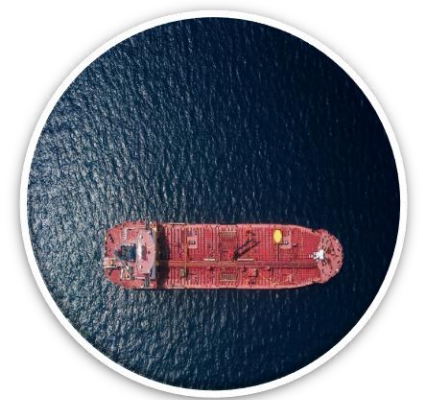
Inventory Update

Events
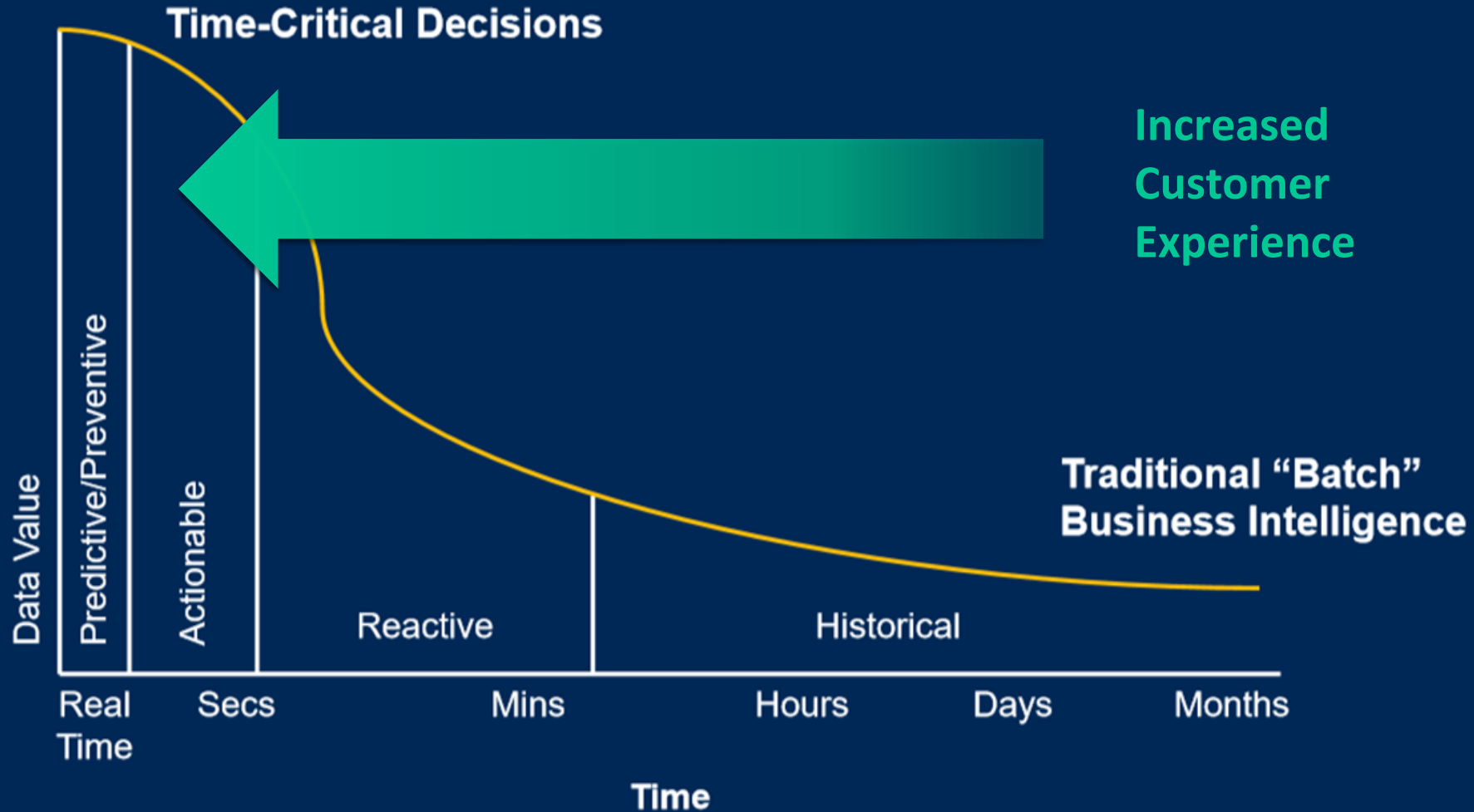
Customer Feedback

Location Update

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The Need for Speed

Time Value of Data

Time-Critical Decisions

Increased Customer Experience

Traditional "Batch" Business Intelligence

Data Value

Predictive/Preventive

Actionable

Reactive

Historical

Real Time | Secs | Mins | Hours | Days | Months

Time

Gartner.

Business Challenges – Real Time Use Cases

Master Data Management should push changes, rather than be pulled from

My Service Technicians can only download their schedule every Monday. I'd like to push service requests to them in real time

Employee onboarding is a long arduous process – what if I could have multiple applications "listen" to the employee onboarding initiation request and act?

My warehouse staff waits for the trucks to arrive, can't I optimize labor wait times with a real time update on the truck?

When PLM publishes a new recipe, my factory gets it event if it's not relevant to me and chokes up my PI, just to throw it away – can't I get a filtered feed relevant to me?

Why can't factories be connected on a WAN Optimized "mesh" for IOT, Cloud and SAP integration?

Cars in containers are delayed at customs dues to a lack of visibility of the supply chain. Can we get real time tracking?

Quality Management data is not available in real time, often delayed by 4 hours. Can this be down to seconds for faster fault detection and action?

Why can't retail stores and partners be connected in real time?
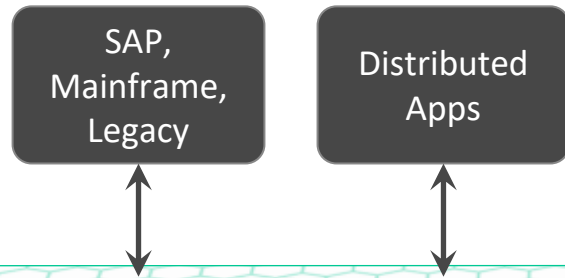
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Convergence

- **Communications**
  - Internet availability to 'Things' is a big deal. Thanks to 5G, NB-IoT, LTE-m, LoRa, SigFox ..

- **Smart Sensor and Control Networks**
  - Remote I/Os, Virtualization, Microservices

- **Decoupled, Real Time Streaming at scale**
  - Embedded EDA in Control systems
  - OT/IT Transformation, ERP Modernization

- **Analytics**
  - ML/AI at Edge, Cloud, Multi-Cloud

- **Cloud**
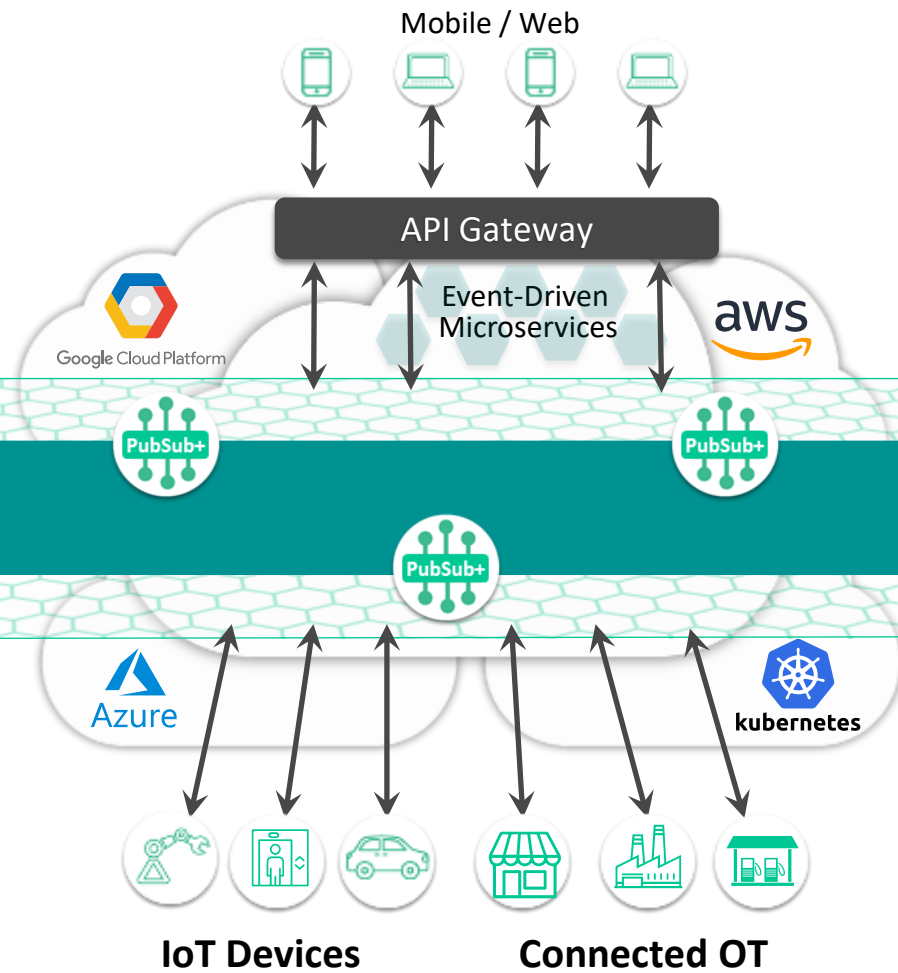 - Distributed components need events

Communication

Event Driven Architecture

Data Science

Sensor Instrumentation & Control
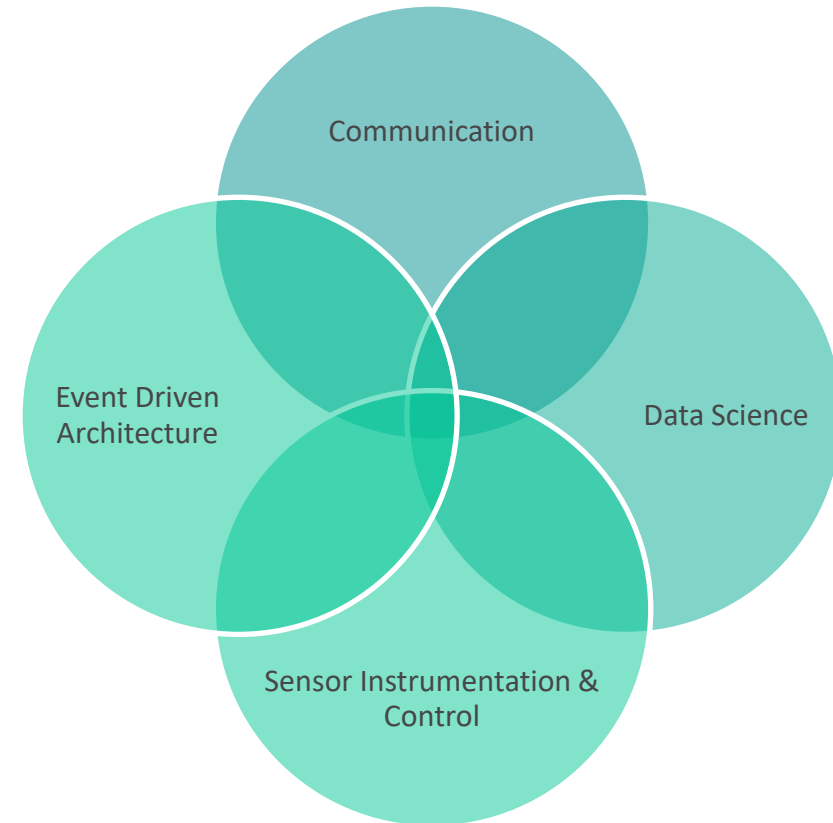
Operational Efficiencies are creating New Business Models

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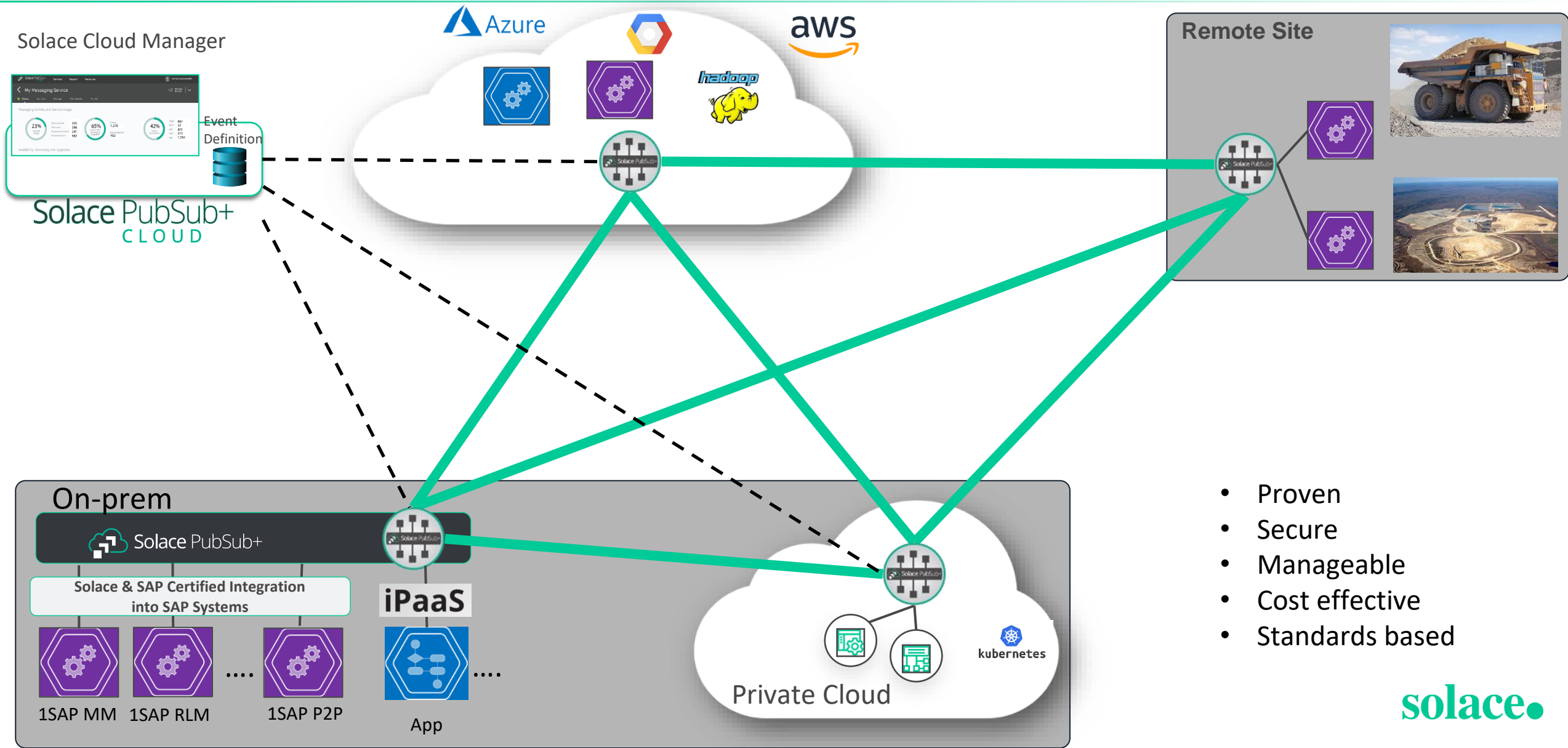# The Steps to Becoming an Event-Driven Enterprise

Liberate Your Data

Modernize Your Platform

Alert & Inform

Mobile / Web

SAP, Mainframe, Legacy

Distributed Apps

Partners

Customers

API Gateway

Event-Driven Microservices

Google Cloud Platform

aws

Mesh Management, Event Governance and Developer Tools

PubSub+

PubSub+

PubSub+

PubSub+

PubSub+

PubSub+

PubSub+

PubSub+

PubSub+

Systems of Record

Legacy Messaging

Azure

kubernetes

Lines of Business

IoT Devices

Connected OT

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Event Mesh across an organisation

Learn More

- **https://solace.com/wp-content/uploads/2019/08/Resource-Sector-The-Business-Case-For-An-Event-Mesh.pdf**

- **Value of an Event Mesh**
- **IT/OT Convergence**

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That's Possible

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