



IT TALKS

TVHOL[®]



Integration of event driven architecture

Kris Feys - CIO mateco holding



My Future **Business**

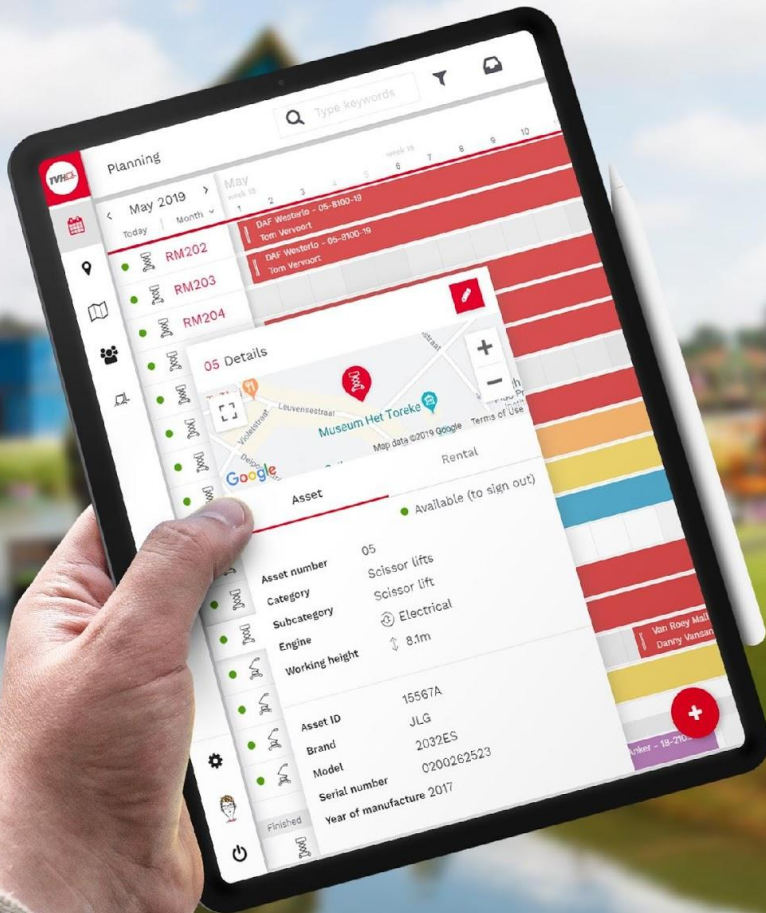
My (Intelligent)
Machine

My Intelligent Machine

Document full fleet

Optimize fleet

Grow towards 'Learning'
Fleet



My Future **Business**

My (Intelligent)
Machine

My (Intelligent)
Yard

My Intelligent Yard

Machine Learning and AI

Make machine self-aware

Fleet uptime

Let the machine decide



My Future **Business**

My (Intelligent)
Machine

My (Intelligent)
Service

My (Intelligent)
Yard

My (Intelligent) Service

Any technician on the job
can execute the work

Intelligent discovery of
issues

Augmented training

Augmented service job
execution



My Future **Business**

My (Intelligent)
Machine

My (Intelligent)
Service

My **Transparent**
Administration

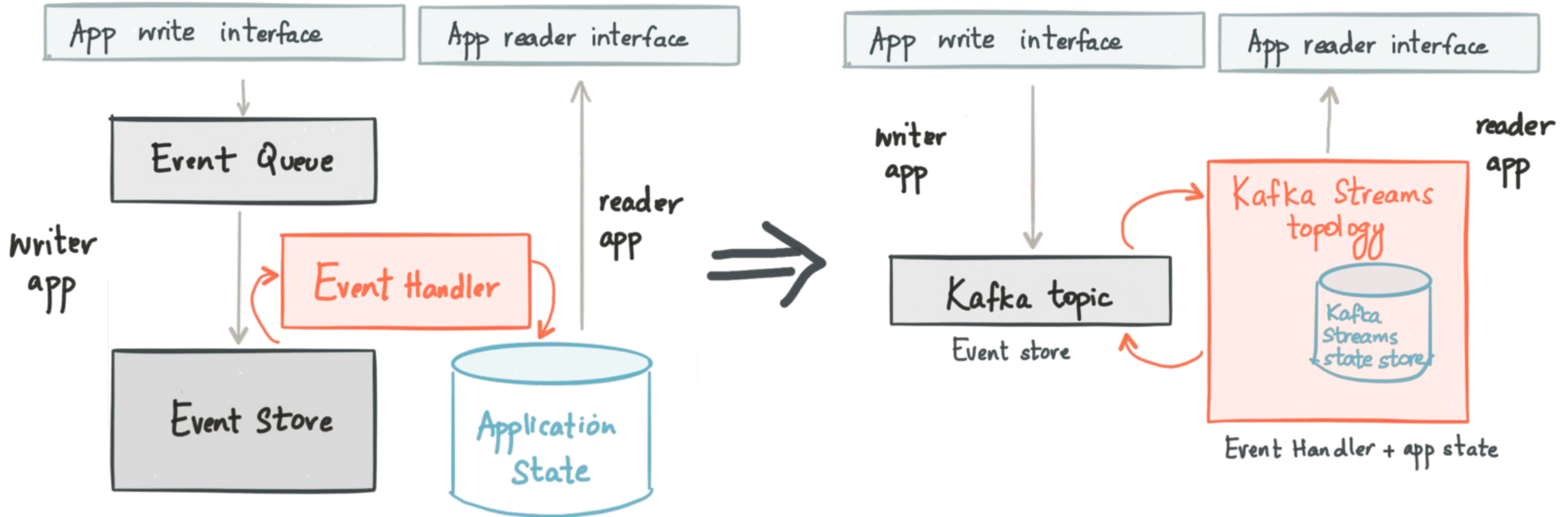
My (Intelligent)
Yard



My Transparent **Administration**

- Visibility from the planning till completion.
- Receiving all events happening and showing it in the correct context to the user
- Re-using old information to help the new administrative tasks
- Automate quoting, contracts, planning of machines for type of projects based on historical ones

Publish/subscribe and event logging



Event driven architecture – Why ?



The Central Challenge

Connecting applications with data

ETL / Data integration

What **happened**
in the world

Messaging

What is **happening**
in the world

The Central Challenge

Connecting applications with data

ETL / Data integration

-

Batch
Expensive
Time consuming

+

Highly Scalable
Durable
Persistent
Ordered

Messaging

+

Fast
(Low Latency)

-

Difficult to scale
No persistence after
consumption
No Replay

ETL/Data

essaging

Event Streaming Paradigm

-

Batch
Expensive
Time consuming

+

Highly Scalable
Durable
Persistent
Ordered

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Fast
(Low Latency)

-

Difficult to scale
Persistence after
consumption
No Replay

What happened

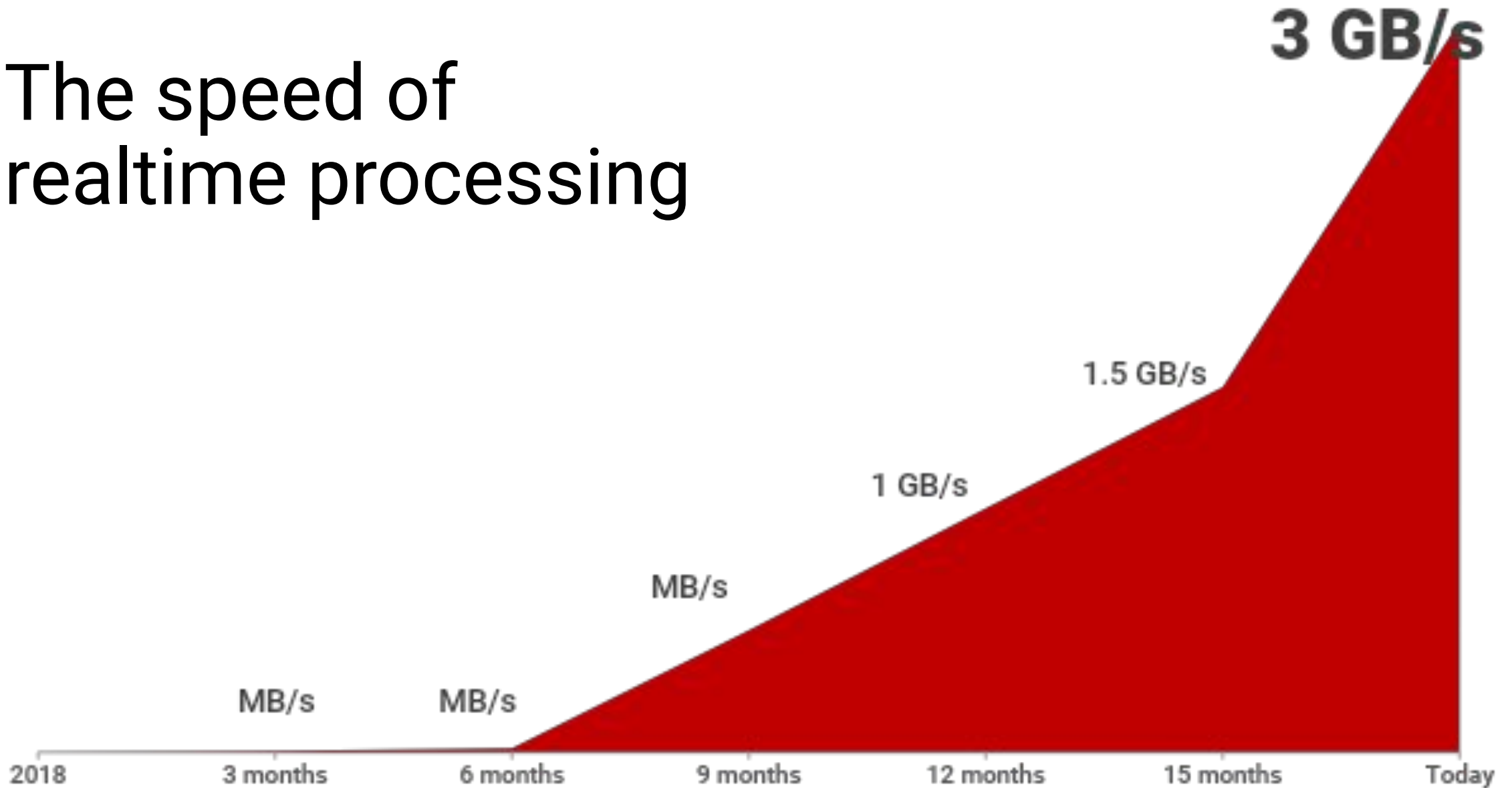
What is happening

in the world

in the world

What is **contextually** happening in the world?

The speed of realtime processing



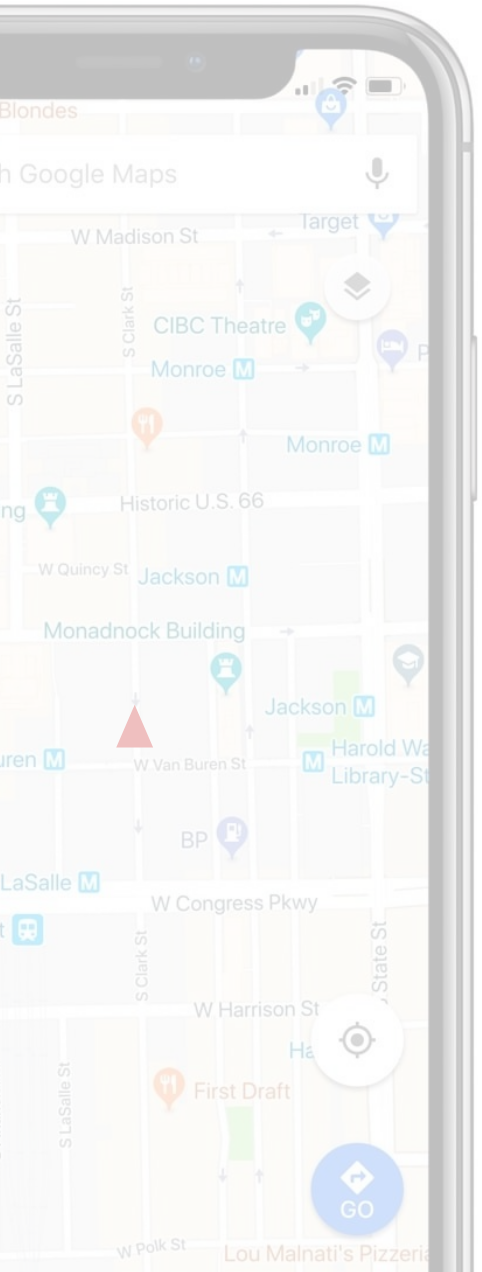
Transparency and real-time insights

Event driven architecture provides real-time **insight** on how the company is performing

Changes in the business, like weather changes, machine changes, failure triggers, new action events based on historical, and real-time information



Why combine real time with historical context?



Event-Driven App

Only Real-Time Events

Messaging Queues and
Event Streaming Platforms
can do this

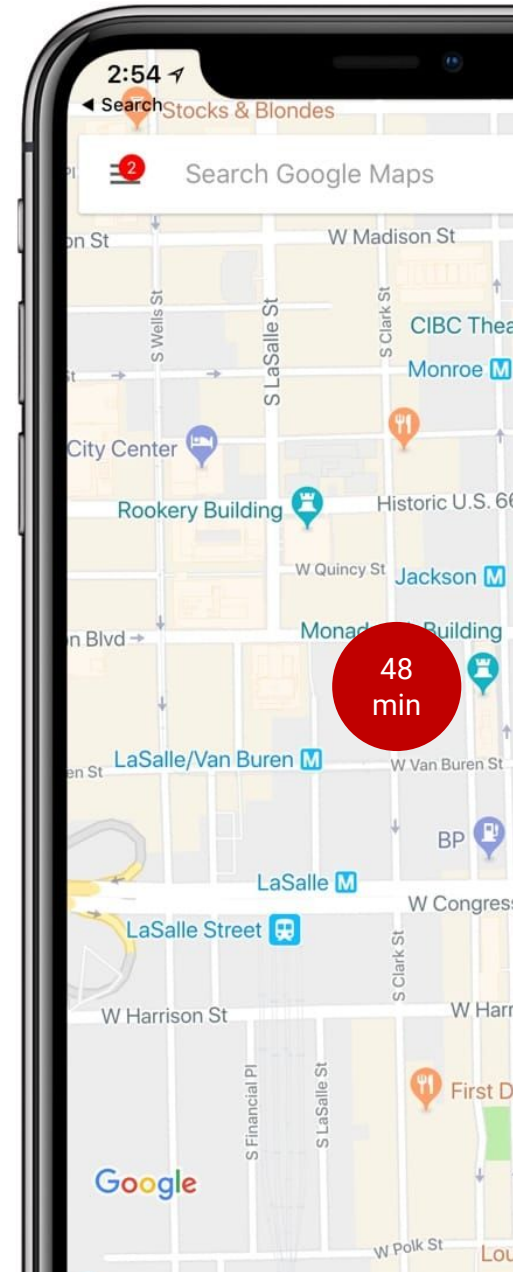
Where is my machine?

Contextual Event-Driven App

Real-Time combined with
stored data

Only Event Streaming
Platforms can do this.

When will my machine get here?



My Future **Business**

My (Intelligent)
Machine

My (Intelligent)
Service

My (Intelligent)
Planning

My **Transparent**
Administration

My (Intelligent)
Maintenance

My (Intelligent)
Fleet User

...

Future Business



- Deliver before demand solutions
- An always deliver to promise world



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