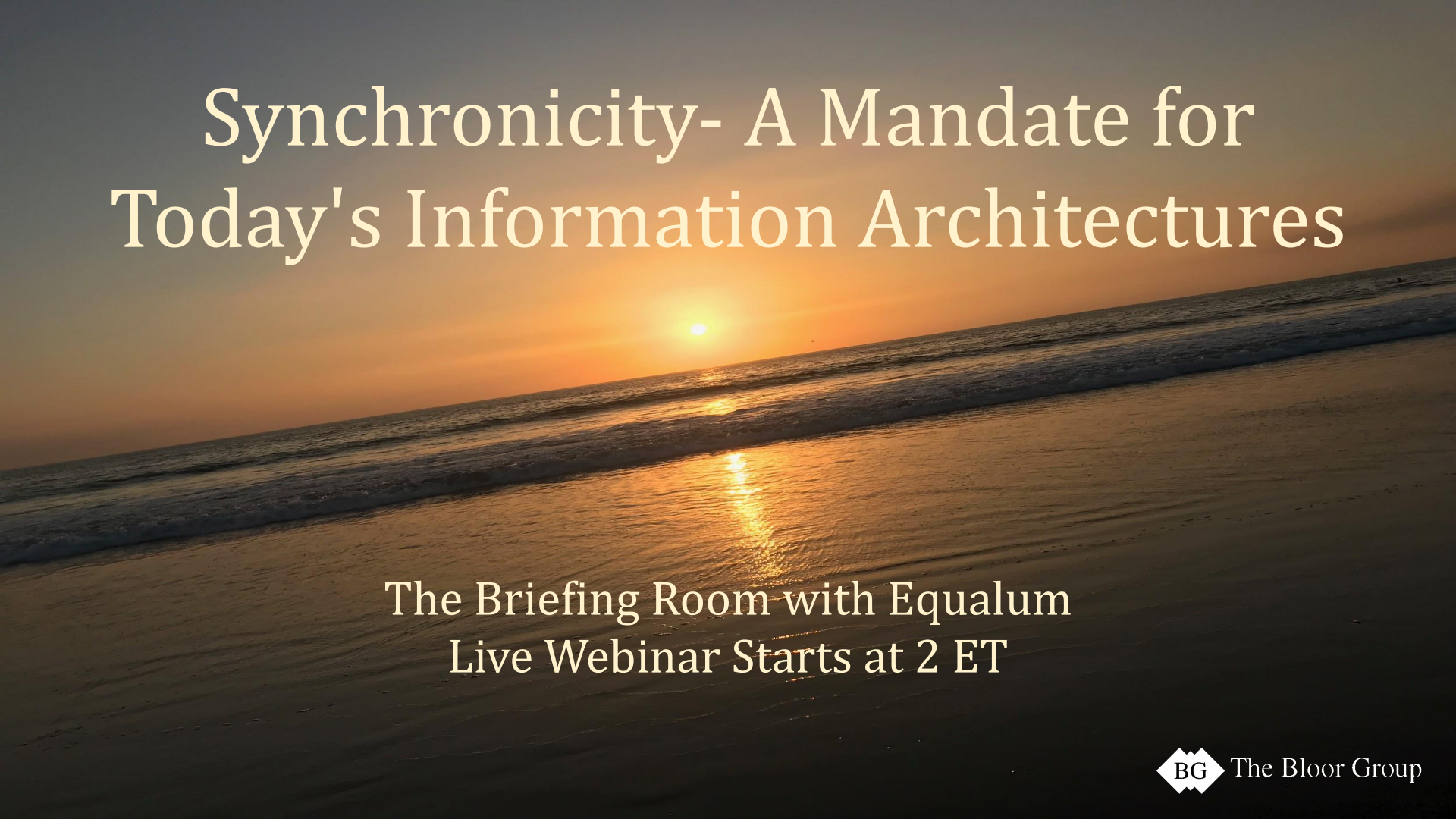
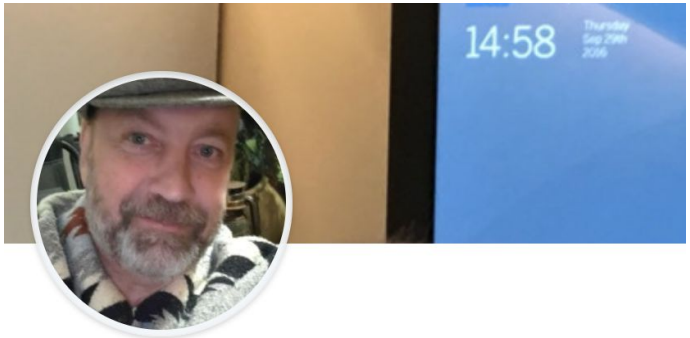

Synchronicity- A Mandate for Today's Information Architectures
The Briefing Room with Equalum
Live Webinar Starts at 2 ET
BG
The Bloor Group

Today's Speakers



Eric Kavanagh

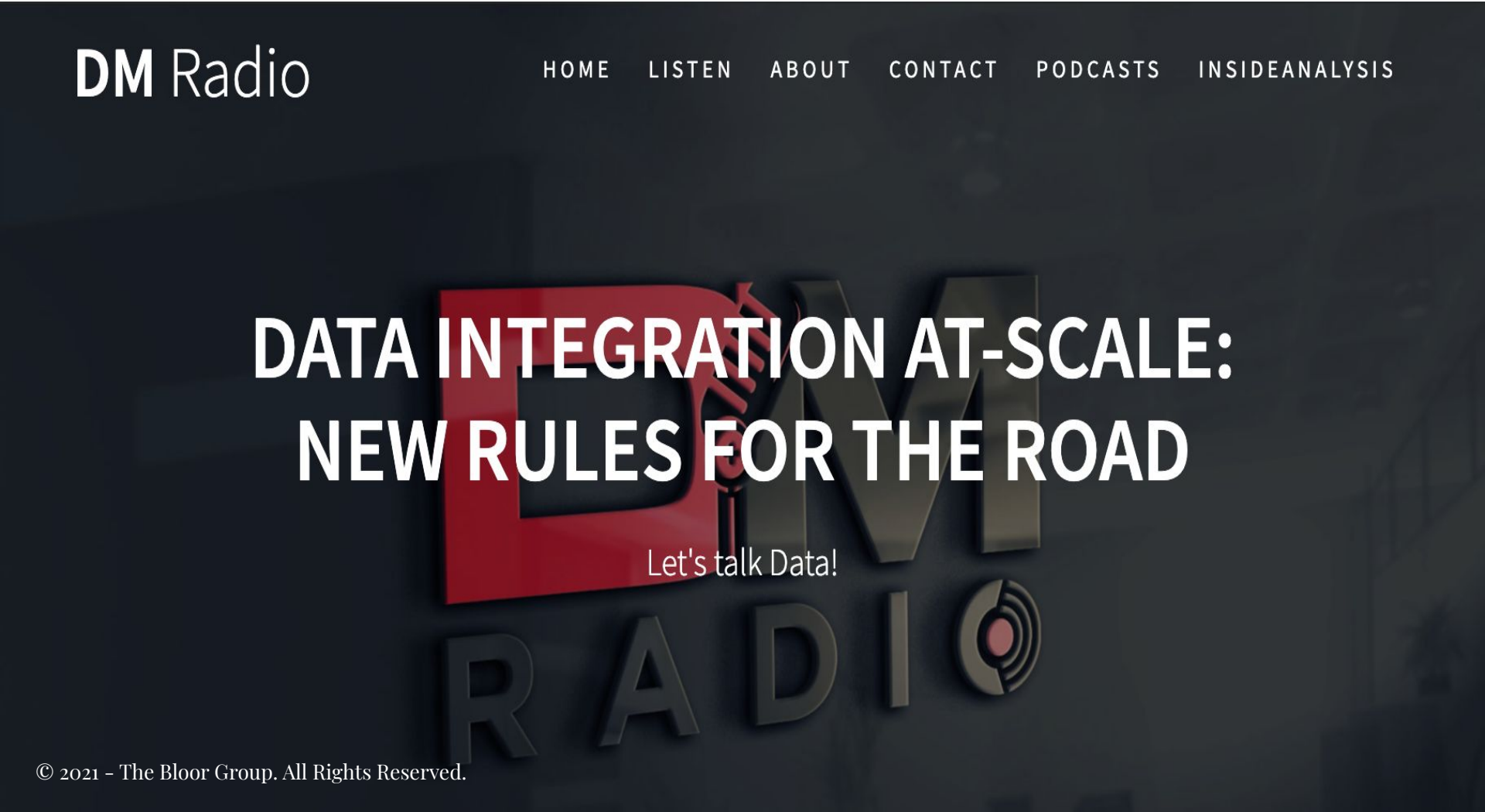
AI Evangelist, Big Data Influencer, Media Innovator

Wimberley, Texas · 500+ connections · Contact info

Erez Alsheich · 2nd

Entrepreneur. Executive. Technical Evangelist

Israel · 500+ connections · Contact info



The Move to Modernization

What is the role of batch? Is it alive and well?

When to move to real-time? Is it an inevitability?

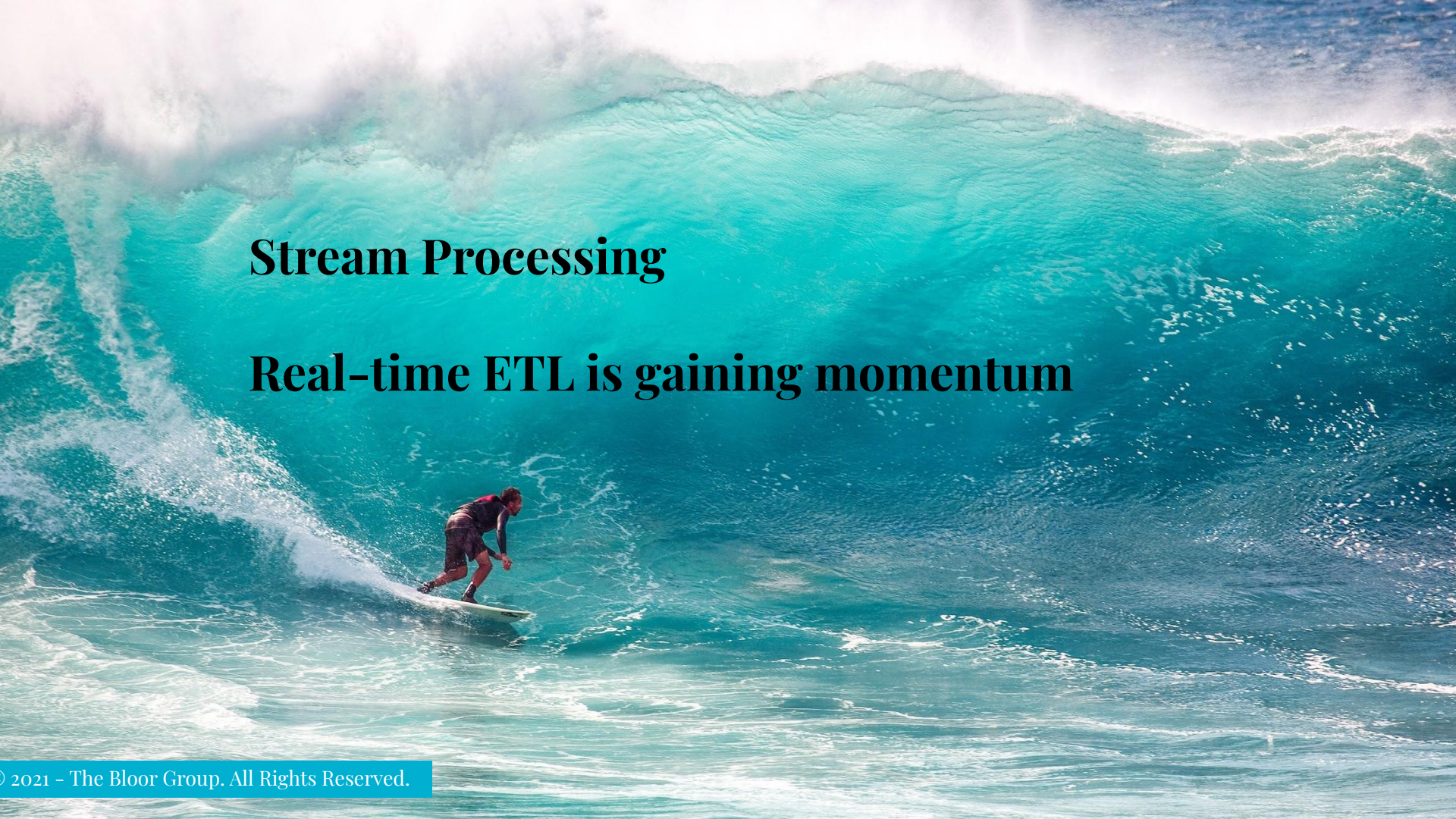
Or... should you virtualize instead?

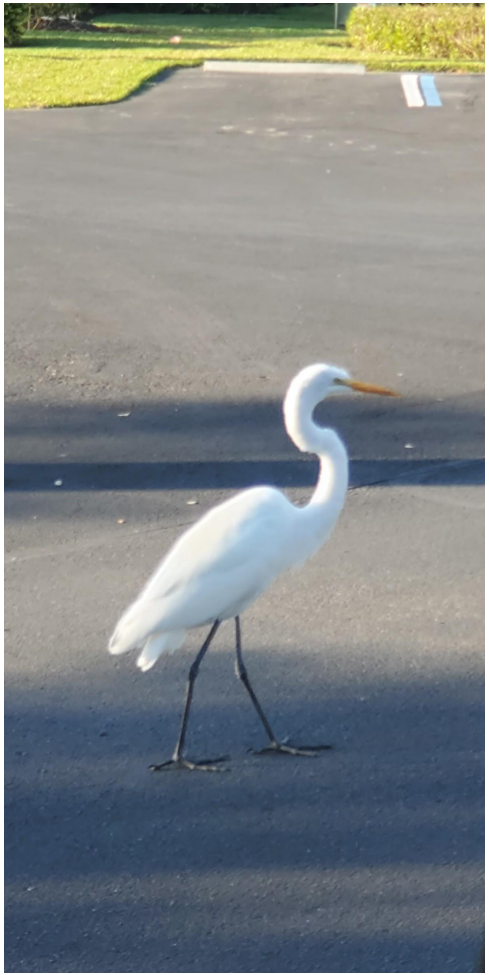
Extract, Transform, Load!

The mantra of data movement since the 1990s.

Stream Processing

Real-time ETL is gaining momentum





Data Virtualization

Clever caching strategy!

Very effective in certain complex use cases.

But there's a reason only the largest enterprises used this approach: It's expensive, and can be rather difficult to maintain over time.

Data Ingestion vs Data Virtualization

Triple Bullseye?

Batch

Advantages:

- Is well understood by both business and IT
- Can handle very large data sets
- Suitable for easily defined, repeatable data frameworks

Limitations:

- Latency with data = stale data
- Slows source systems | usually executed after hours
- Operational nightmare that gets worse
- Another batch window? Think straw & camel

Challenges:

- Scaling out to accommodate growing data

Streaming

Advantages:

- Low Latency and near real-time = fresh data & better insights
- Easier to operate from Operational standpoint

Limitations:

- Processes in increments so not a full data set

Challenges:

- To facilitate real-time streaming, you need a system to detect changes in source systems
- How do you join data in real-time?
- How do you aggregate data in real-time?

Change Data Capture

Advantages:

- Low latency data extraction
- Non-intrusive on operational systems
- Only processing changes to data

Limitations:

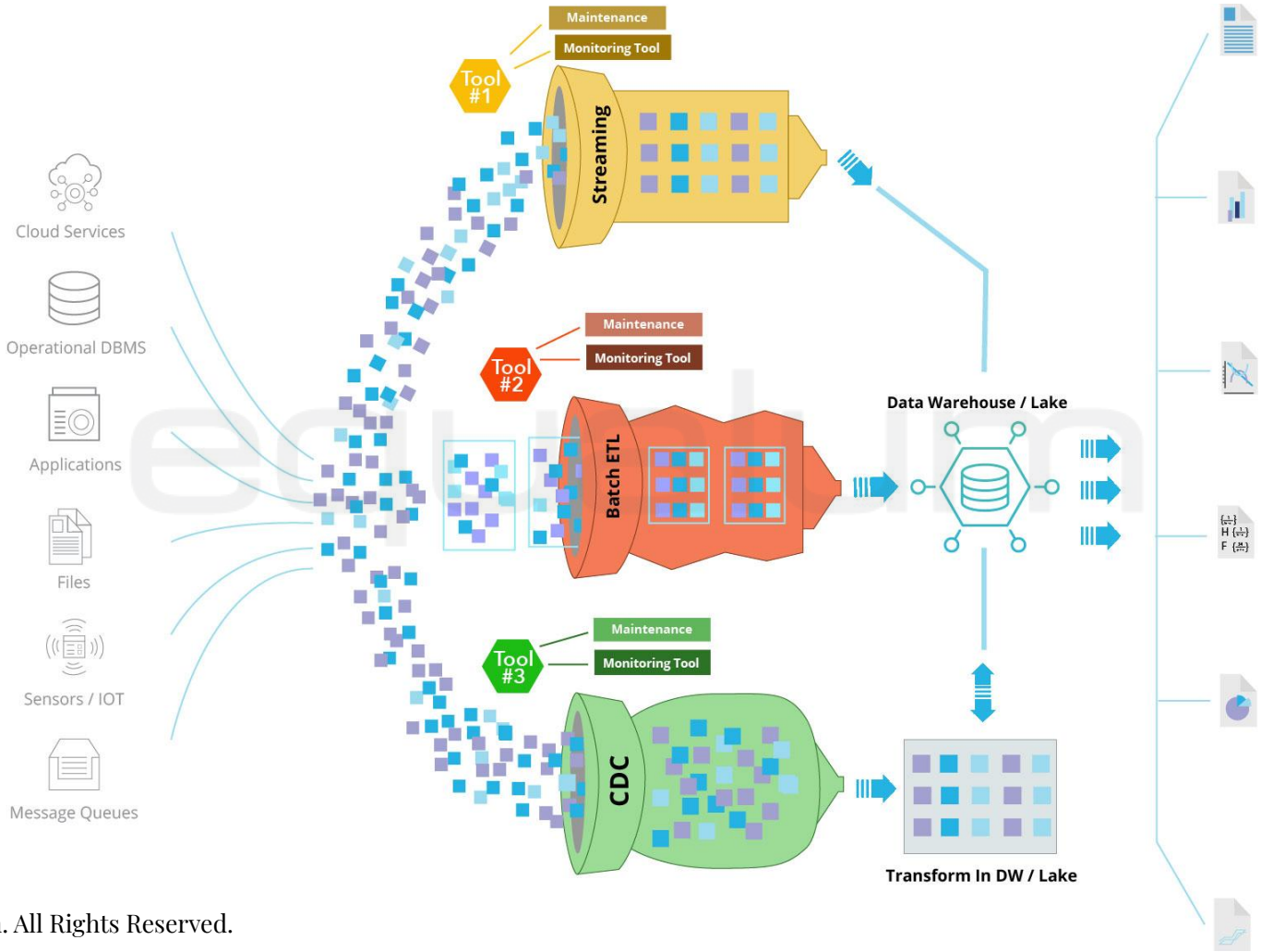
- Not all source systems support CDC
- Usually facilitates data replication only
- Requires careful orchestration across systems

Challenges:

- CDC should be very efficient to handle extreme loads on source systems
- Support a wide variety of technologies : databases, files, message queues, APIs etc..

For a full solution, you need all 3 capabilities:

- **CDC**
- **Streaming ETL**
- **Batch**



Choosing the First Real-Time project

#1 -Why?

What are the mission critical objectives for your Data Architecture?
How will a Streaming-First Data Architecture expedite business value?

#2 -Consider a Green Field Project | Think Ahead

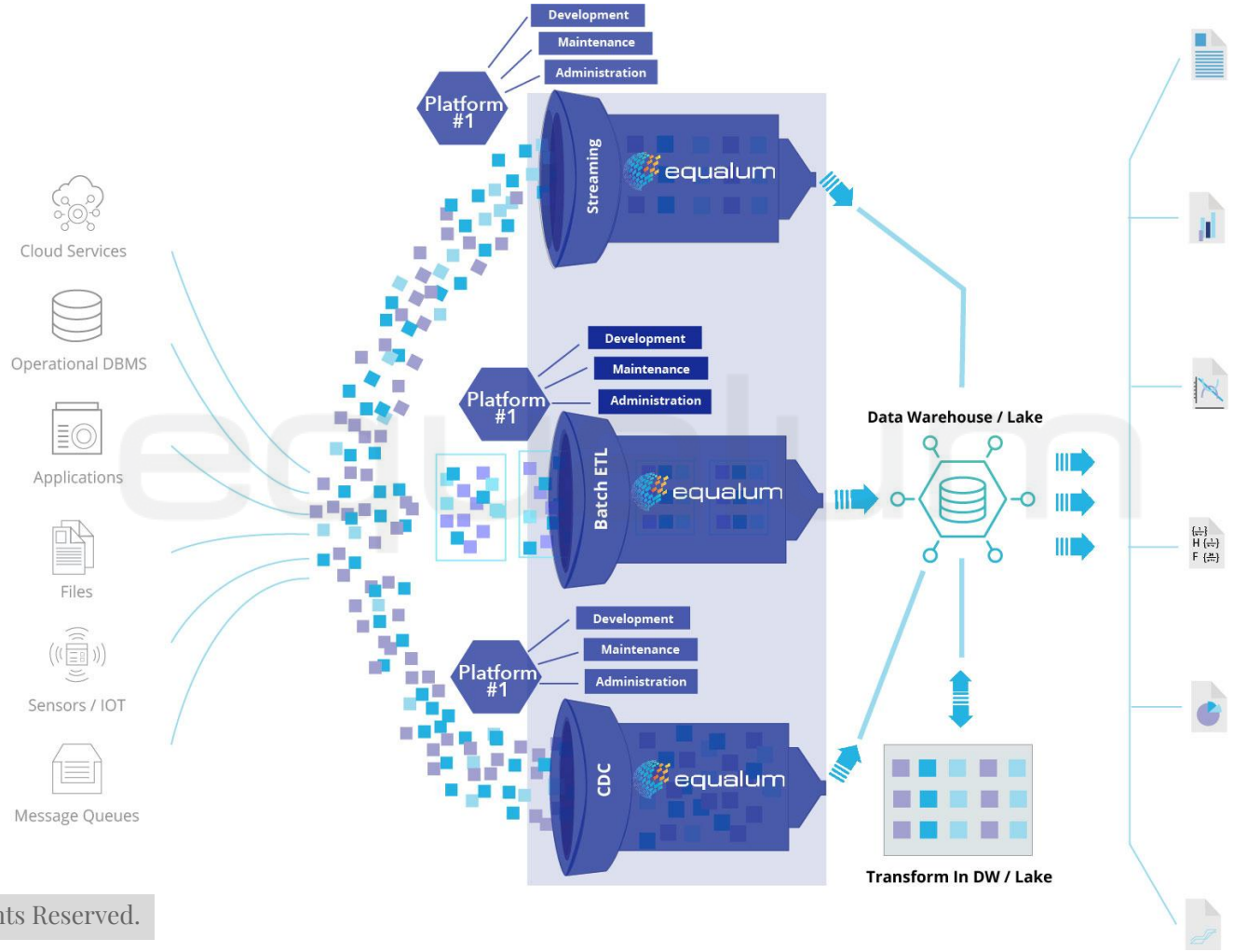
Transforming your Data Architecture can be both a technical lift and a cultural one. Explore new revenue opportunities where a Streaming-First Architecture can be tested. Once the results are proven, then extend to other areas of your organization.

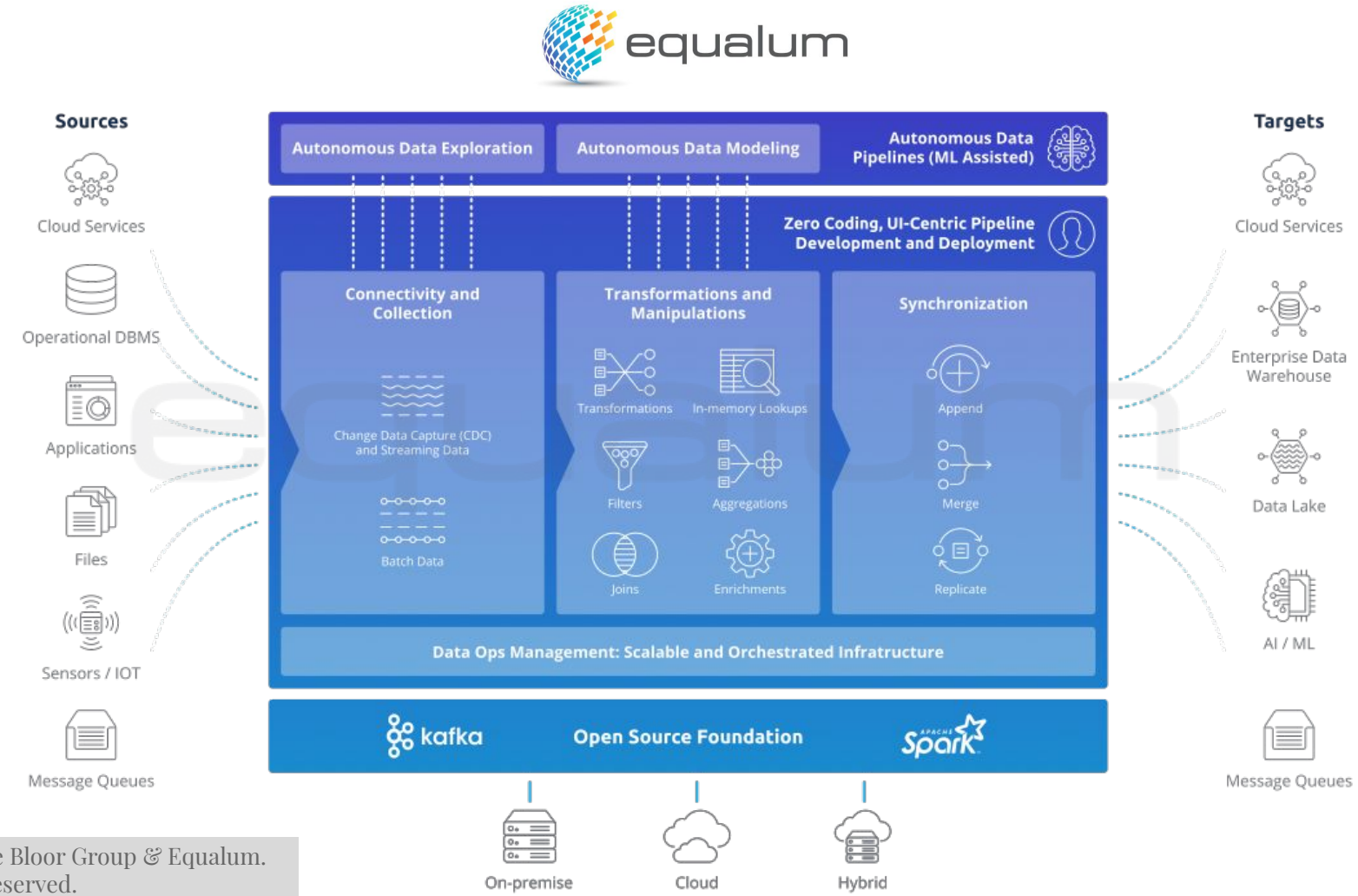
#3 -Integrate Streaming to Complement Batch

There can be well defined roles for both types of data in your architecture. When you understand your strategic objectives, you can put these two approaches to work in tandem.

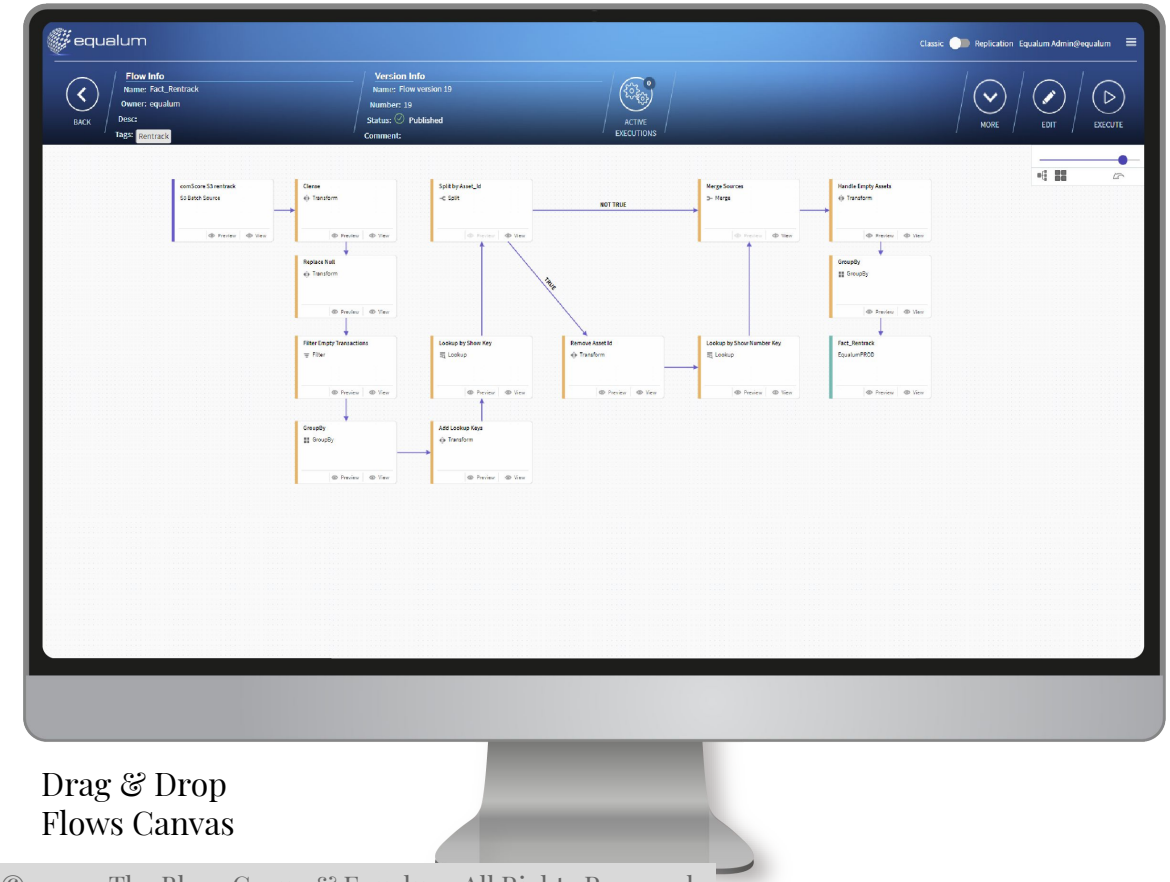
Equalum offers a powerful, native solution for **ALL** of the modern, data ingestion capabilities:

- CDC
- Streaming ETL
- Batch

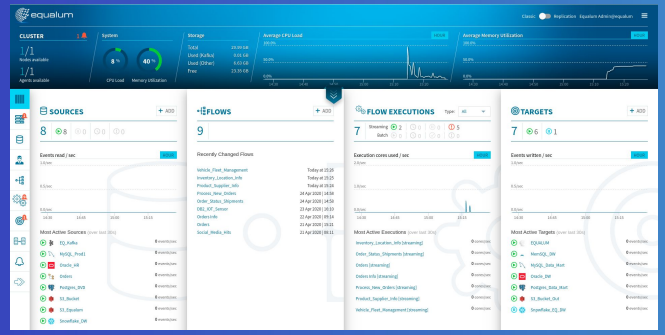




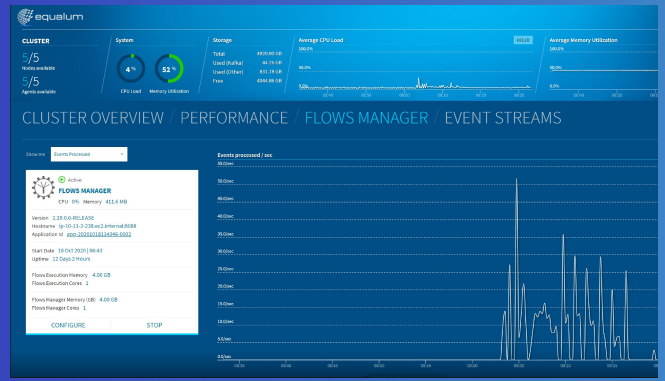
Zero Coding, Self-Service UI



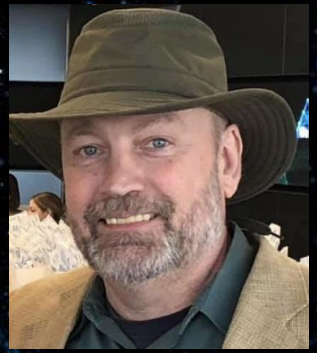
Drag & Drop
Flows Canvas



Main Equalum Dashboard



Cluster Overview Dashboard



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About Me:

Career Entrepreneur
Evangelist for Open Government
Inspired USA Act of Congress:
Federal Funding Accountability and Transparency
New Media Designer, creator of:
- DM Radio
- The Briefing Room
- AOL Government Series on Federal Spending
- InsideAnalysis
- World Matters with Richard Kerby
- #theChainGang with Evren Sel Cakir