



# Real-Time Data for Autonomous Networking

What has to be true about the data before the network can decide for itself.

FOR NETWORK OPERATORS, NEP ARCHITECTS & SI TEAMS

- 11 in-depth interviews
- Tier 1 and 2 operators
- Global NEPs
- BSS/OSS providers



THE DETAIL GAP

## The detail agents need is being *sampled away*.



Sampling hides the spikes, retries, and correlated failures an agent needs to tell a genuine anomaly from noise.

THE GAP

## Operators and their architects are facing *the same gap from different sides*.

FOR OPERATORS

- Anomalies hide inside 5-minute averages, not trends
- 1-in-100 sampling misses the spikes and correlated failures that matter
- By the time a batch report lands, the network has already moved on
- Explainability requires the full event stream, not a sample

FOR NEP / SI ARCHITECTS

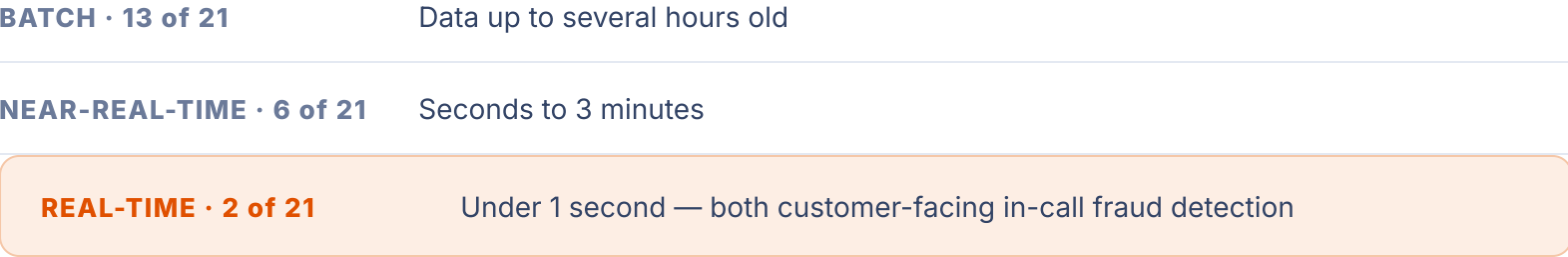
- Agentic AI is only as safe as the data it is evaluated against
- Sampled telemetry cannot feed a decision layer that must act in milliseconds
- Historical memory and real-time decisioning are different systems, different guarantees
- No complete trail from observation to decision undermines trust in autonomous action

The shared root cause: full-fidelity data exists — the decision layer that can act on it in time does not.

MWC 2026 FINDINGS

## 21 live agentic AI deployments. *Two run on real-time data.*

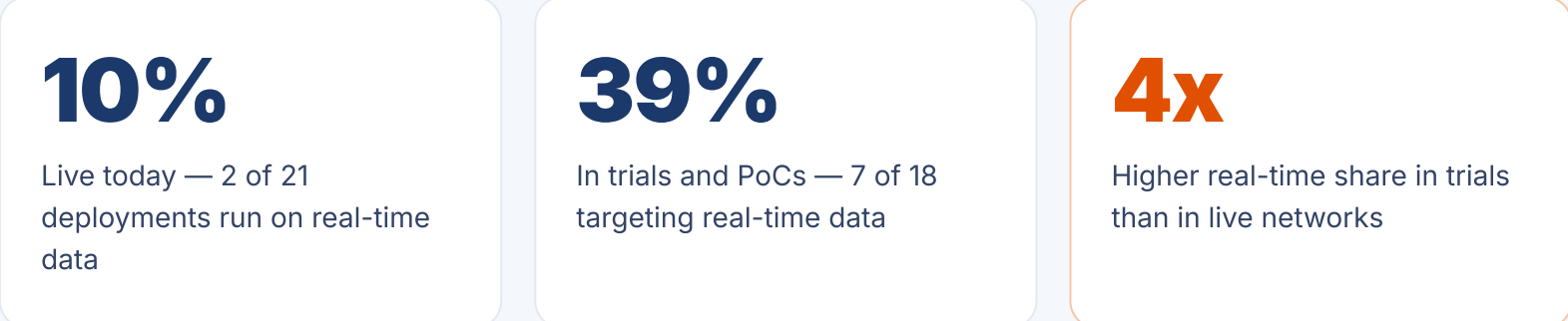
Look at the data they run on.



That zero from the top of the page? This is where it comes from — live network operations deployments running on sub-second data: **zero**.

WHAT THE TRIALS SHOW

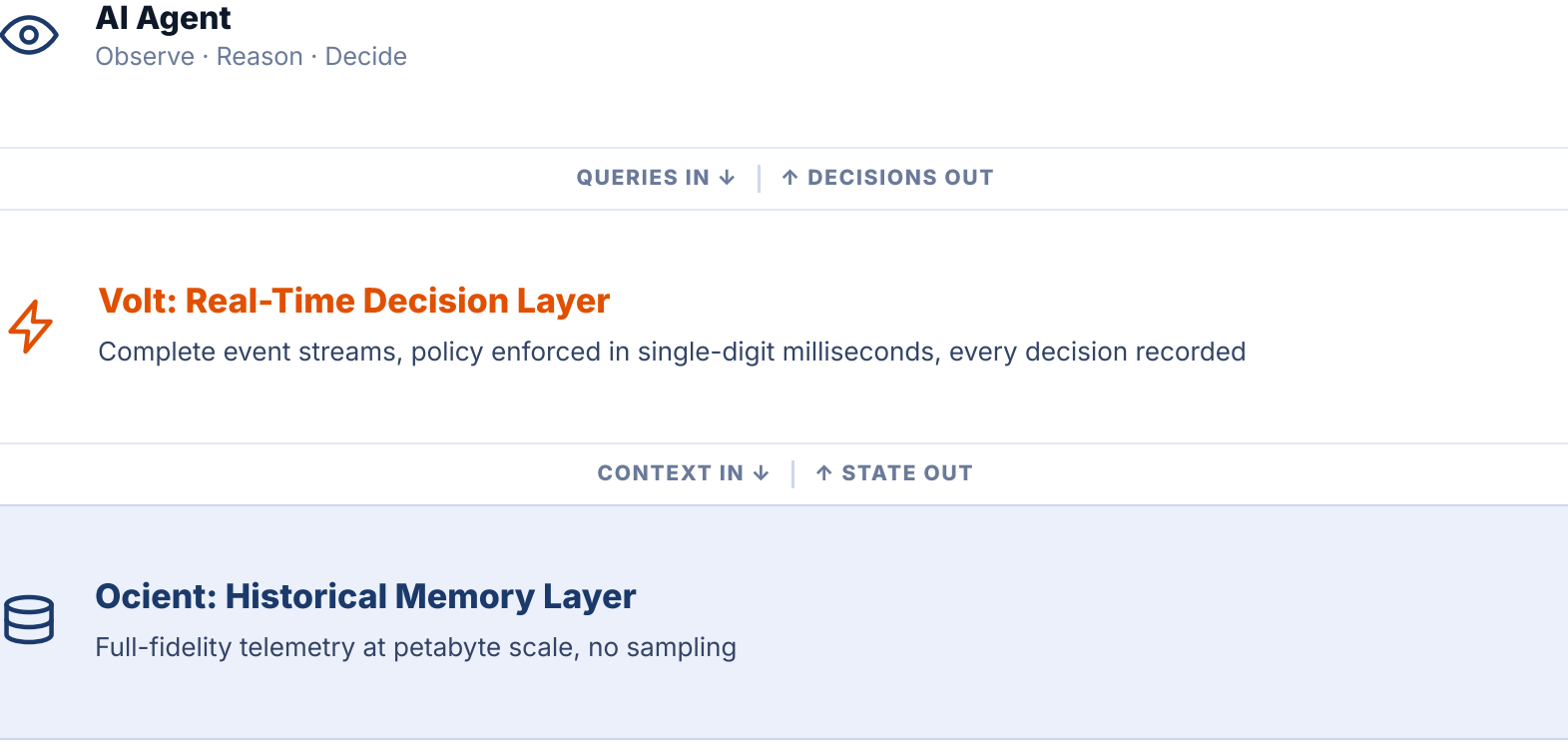
## The next wave is *real-time*.



Derived from STL Partners report, Figure 4.

THE ARCHITECTURE

## One foundation. *Two layers*.



One knows what is happening now. One knows what it means.

“

Access to a common data platform and tooling across domains is key for consistency and scalability.

Principal Strategy Manager, global Tier 1 operator  
STL Partners interview, 2026

**Already live:** a European Tier 1 operator runs Volt as the decision layer in its 5G mediation stack, on complete event streams, at national scale.

## Read the Data. Explore the Architecture.

Two ways in: the report behind the numbers, or the Dev Hub where the decision layer runs live.

- DOWNLOAD THE REPORT
- EXPLORE THE DEV HUB