

Verify Performance Metrics with Motion

Physics-based motion validation, traceable evidence and BoundaryScore™ Verified

AV companies already measure safety, reliability and performance. The issue is whether a reported result can be independently supported by evidence outside the system that generated it.

BoundaryScore™ pairs machine-reported data with independently observed motion. That creates a physics-based check on observable behavior and preserves a separate evidence chain showing what was measured, what was reported and what can be independently verified.



Validate the metric with motion

Where a metric depends on observable behavior, BoundaryScore™ compares machine-reported motion with an independent physical record of position, speed, acceleration, trajectory, braking and timing. Inputs that cannot be independently observed — such as operating mode, intervention state or internal classifications — remain identified as participant-supplied. When the independently observed motion agrees with the machine-reported motion state, BoundaryScore™ Verified directly validates that physical component and increases confidence in the associated machine-state record.

Preserve an independent evidence chain

Machine logs and independent motion evidence are preserved together with timestamps, provenance, methodology, configuration, version and security controls. Because the motion record is generated outside the machine being evaluated, the resulting evidence chain is independently anchored, traceable and auditable, making later alteration or reconstruction easier to detect.

Turn internal confidence into external credibility

The same record strengthens internal engineering, safety, quality and executive review and gives external stakeholders a stronger basis for relying on the result. Regulators, insurers, customers and partners can see what was independently observed, what was participant-supplied and the conditions under which the conclusion is valid.

When applicable verification requirements are met, the metric or claim can be designated BoundaryScore™ Verified: a defined result independently validated against motion evidence and backed by a traceable evidence record.