



Data Automation for AI-Powered Autonomy

Foretellix delivers the trusted development toolchain for training and validating AI-powered autonomous vehicle stacks. The Foretify™ platform enables OEMs and AV developers to build next-generation AV technology (AV2.0) with measurable efficiency, safety, and scale. From L2++ to L4, Foretellix's industry-leading verification, validation, and scenario generation capabilities are accelerating the shift from rule-based automation to intelligent AI-driven autonomy.

Foretify Evaluate

ODD Coverage

Measuring the ODD coverage for the SUT and identifying the specific gaps in the scenario coverage

- ✓ Aggregate data from physical and virtual drive logs and extract meaningful and actionable information
- ✓ Avoid costly and inefficient development and testing by focusing on specific performance, quality and safety gaps

Safety Evaluation

Measuring testing completeness and assessing performance and safety to contribute to the safety case

- ✓ Provide evidence for your safety case, for internal and external customers

Performance & Quality

Exposing high priority bugs (edge cases and unknown-unknowns) that would have taken years to encounter in the real-world

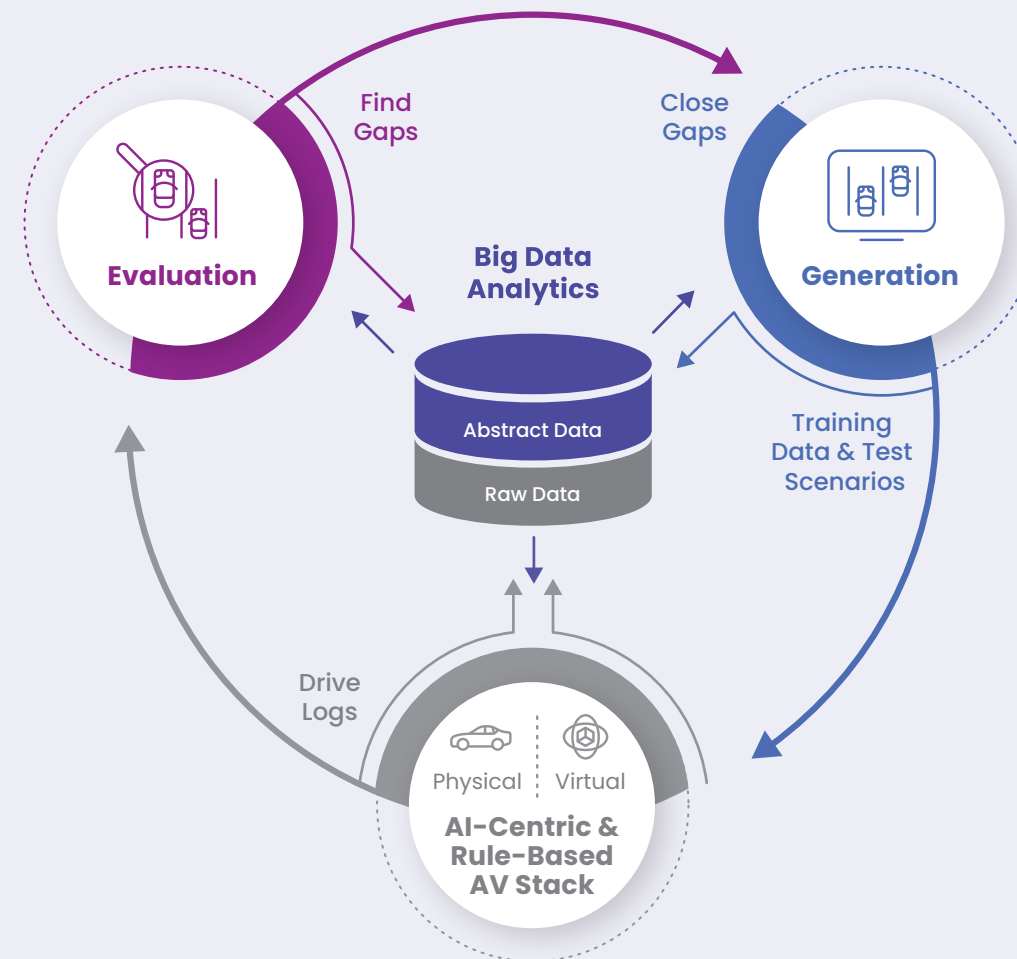
- ✓ Focus on resolving critical issues, leading to faster development cycles and improved safety readiness for launch

Evaluation Libraries

Applying a library of scenarios, KPIs and coverage definitions to automatically detect and classify the ODD coverage and performance from the drive logs

- ✓ Kick-start your AV development and testing

Data-automation development toolchain



Foretify gives AV developers the tools required to:

- 1** Evaluate and find gaps and unknowns in the AV stack's performance, quality and safety, by applying AI and big-data analytics to millions of miles of real-world and simulated drives.

- 2** Close the gaps and expose unknowns, by automatically generating variations of real-world drives and synthetic scenarios at scale, for training and advanced verification and validation (V&V).

Foretify Generate

Real-World Variations

Create new and relevant variations of the recorded real-world drive logs, removing the need for costly physical driven miles

- ✓ Improved variability and coverage while maintaining a high-level of realism

Synthetic Scenarios

Automate generation of any number of concrete, meaningful, valid and critical test scenarios with attributes that are randomized, including locations, orientations, lanes, NPCs and speeds

- ✓ Improve productivity with automatic generation of realistic test scenarios
- ✓ Explore rare and dangerous scenarios without physical risk
- ✓ Efficient ODD expansion

Unknown Scenarios

Generate unscripted tests that expose high priority, critical bugs that would have taken millions of driven miles to encounter

- ✓ Identify critical bugs early in the development process

Abstract Scenario Libraries

Over 200 abstract scenarios for urban driving, highways and more, that generate millions of concrete scenarios

- ✓ Kick-starting AV development while benefiting from significantly increased productivity

Value for Development

Shift Left and Close the Gaps

- ✓ Find and close gaps in the AV stack's performance, quality and safety, early in development
- ✓ Reduce the total cost of testing leveraging synthetic scenario generation
- ✓ Train the AI stack perception and behavior with generated realistic scenarios
- ✓ Kick-start AV development and testing with a content library of over 200 abstract scenarios

- ✓ Enhance the Verification and Validation (V&V) process with unified coverage of physical and virtual drive logs
- ✓ Create alignment between the product requirements and the tests runs
- ✓ Shorten the long-tail by exposing unknowns that would have taken years to encounter in the real world
- ✓ Maintain investments in existing tools with an open platform and extensive APIs

Value for Launch

Data-Driven Safety Case

- ✓ Provide measurable evidence for the safety case
- ✓ Know when you are done, with ODD coverage metrics
- ✓ Ensure maximum ODD coverage
- ✓ Achieve closure faster by using a metric driven approach

Value Post-Launch

Expand to New Geographies

- ✓ Reduce the effort require to expand into new geographies with automated generation of ODD relevant training data and test scenarios
- ✓ Optimize ODD expansion with abstract scenarios that are map agnostic and are able to be customized and localized (right/left-side driving) through a dedicated API

Team of Experts

The Foretellix team has decades of verification and validation (V&V) experience, extensive automotive expertise and AI competence. Foretellix is the leader and main contributor of the ASAM OSC DSL standard for scenario-based testing. Foretellix has 10 regional offices in the US, Europe and Asia.

20+ Customers Including



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Our Partners



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Notes

About Foretellix

Foretellix is the gold standard for data-driven autonomy development toolchains. Foretellix's Foretify™ toolchain enables a fast, a measurable, efficient and trusted path to safe and scalable autonomy that helps you launch with confidence. Building on its industry leading verification and validation (V&V) technology, Foretellix is enabling the AI autonomy revolution. Foretellix has offices in the US, Europe, and Asia.

For more information, visit www.foretellix.com

