



Realism at Scale.

Autonomous Vehicle and ADAS Simulation Platform, Driven by AI

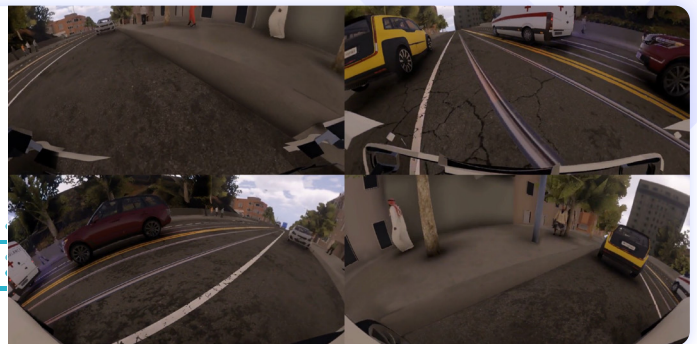
Time, cost, and safety make real-world training and testing of ADAS and Autonomous Driving impossible. Cognata's commercially-deployed platform leverages cutting-edge AI on the cloud to provide realism, at scale.



Use Cases

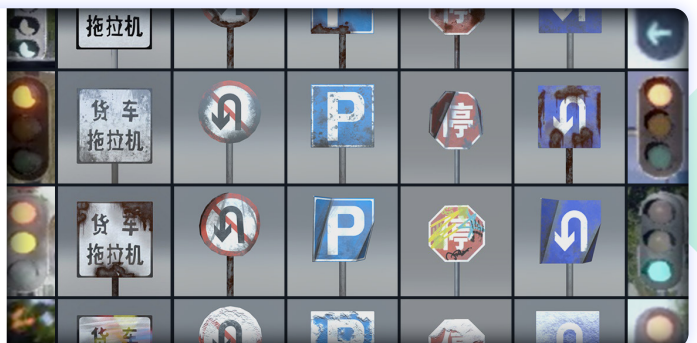
Helping solve some of the industry's biggest challenges

Creating accurate models of the fisheye cameras needed for perception in today's automated parking systems



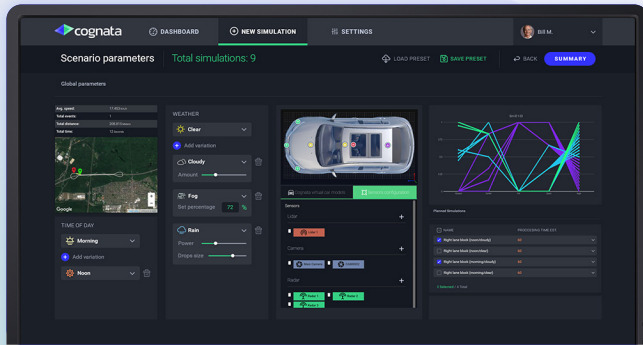
Populating virtual worlds with the realistic traffic behavior needed to effectively train and test prediction in challenging highway automation scenarios

Delivering diverse libraries of accurate synthetic assets at scale to enrich training data and accelerate AI learning



Our Solutions

AI-based simulation and validation for Autonomous Driving
and ADAS across the full product life cycle



Simulation Platform



Training

- Realistic 3D environments
- Behaviorally-realistic agents



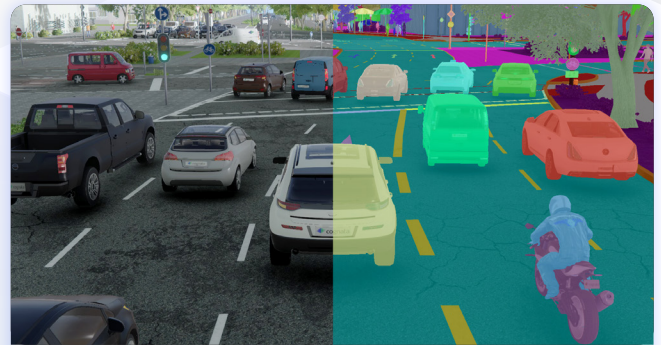
Validation

- Ready-to-use scenarios
- Scenario Authoring and Management



Analysis

- Insights
- Visualizations



Datasets



Accuracy:

- Industry-leading realism with pixel-perfect annotation



Diversity:

- Weather, lighting, surface, and object variation across global scenes



Scale:

- Cloud architecture for quick and cost-effective creation and delivery

Our Technology

Underlying Cognata's offering are four layers of technology:



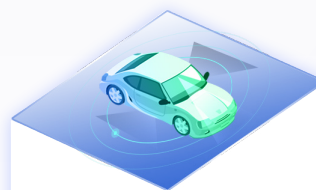
Static Layer

A digital twin of the world. 3D environment of roads, buildings, and infrastructure, accurate and geo-specific to the last lane marking, surface material, and traffic light



Dynamic Layer

Population of the virtual world with drivers, pedestrians, and cyclists, replicating geo-specific behaviors



Sensing Layer

Exact behaviors of vehicle sensors, including cameras, radar and LiDAR, based on deep neural network modeling



Cloud Layer

An elastic architecture to test millions of miles and thousands of scenarios, combining road types, lighting, weather, and traffic conditions

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