

Full Product Lifecycle For Autonomous & ADAS Simulation

About Cognata

Cognata is a leading autonomous vehicle simulation provider, working with some of the largest automotive manufacturers and partners in the world.

Cognata delivers a full product lifecycle simulation solution for ADAS and AV developers with unparalleled realism and scale.

As a single cloud-based and cost-effective platform, supports customers from early development stages through deployment, accelerating time-to-market readiness.

What Does the System Do

Train

Quickly and cost-effectively generate accurate large-scale data sets for training perception and policy stacks

Test

Leverage our database of scenarios or quickly generate thousands of new ones in the easy-to-use Cognata Studio scenario authoring environment

Analyze

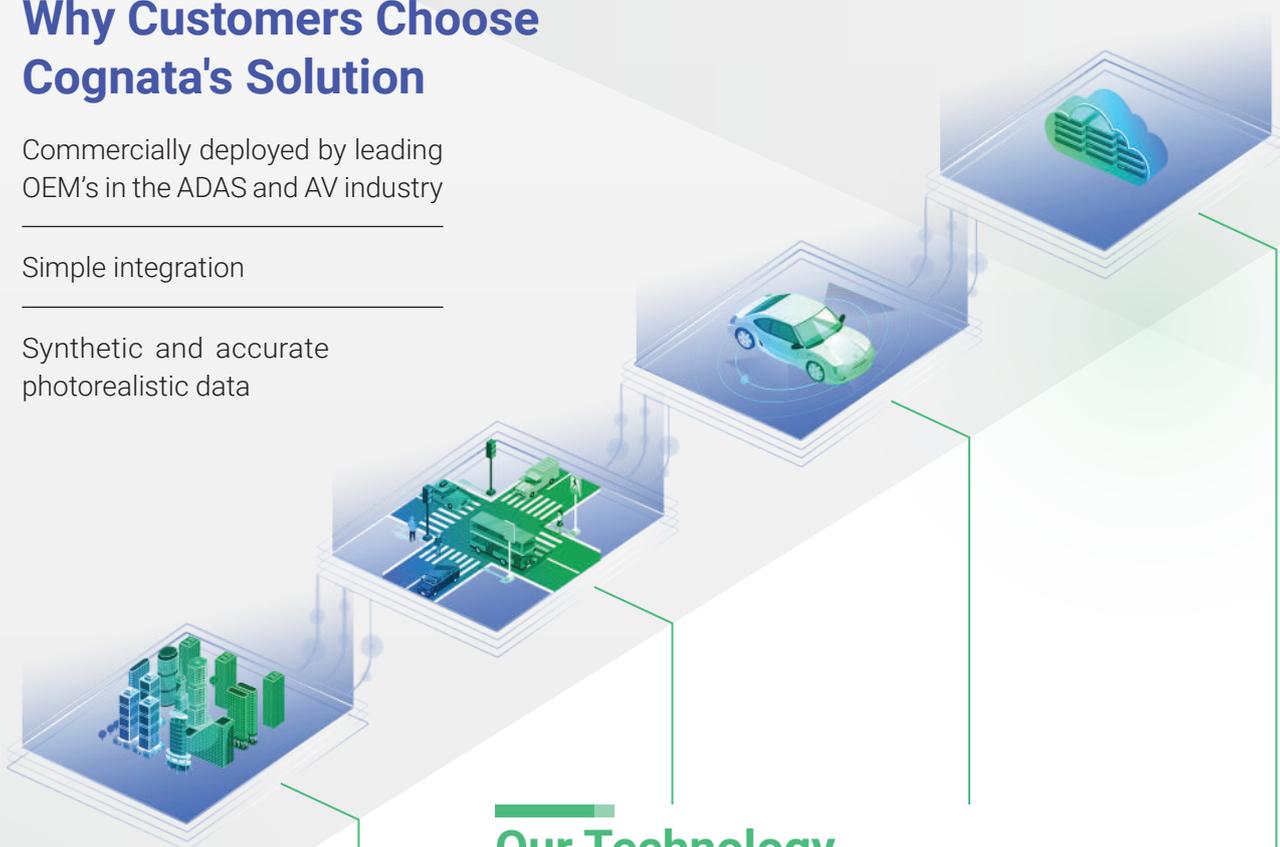
Apply and customize sophisticated analysis rules to extract insights and measure performance

Why Customers Choose Cognata's Solution

Commercially deployed by leading OEM's in the ADAS and AV industry

Simple integration

Synthetic and accurate photorealistic data



Our Technology

Cognata's AV and ADAS simulation platform is composed of four modular layers.

STATIC Layer

Procedural Building of the World's "Digital Twin"

The static layer automates the building process to quickly deliver 3D environments of roads, buildings, and infrastructure that are accurate down to the last lane marking, type of road, and traffic light.

DYNAMIC Layer

Intelligent Traffic Agents

The dynamic layer populates the simulation with drivers, pedestrians, cyclists, and such that replicate behavior customary to the specific geo-location.

SENSING Layer

Accurate Modeling of AV Sensors

Using Deep Neural Networks (DNN), the exact behavior of various sensors are modeled, for instance popular camera, lidar, and radar sensors, as well as a toolchain for quickly on-boarding new sensors.

CLOUD Layer

Cost-Effective Scale in the Cloud

Measuring the safety improvement of each new algorithm or software release requires test coverage across millions of miles and thousands of scenarios, in combinations of road types, lighting, weather, and traffic conditions. The cloud layer offers an elastic architecture to deliver results faster.



CONTACT OUR TEAM FOR A DEMO

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