

Custom Photorealistic Synthetic Datasets

Diverse Automotive-Grade Synthetic Training Data, customized and quality enriched to train deep neural networks (DNN)



Accuracy

Pixel-perfect, accurate, and consistent annotation in every frame by automatic labeling



Diversity

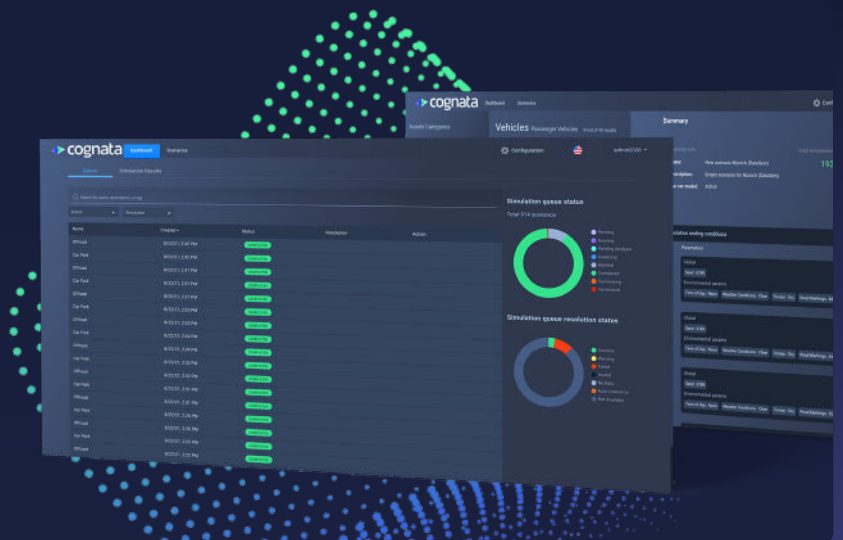
Comprehensive assets catalog with Weather, lighting, surface, and object variation across global scenes



Scale

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

Cognata datasets are based on a **photorealistic automotive simulation platform** where virtual cars travel virtual roads, from cities to unmarked terrain, all remarkably true to real-world conditions provided with advanced digital twins advanced modeling, which is used to train AI-based engines.



RGB
Cameras



Fish-eye



Radar



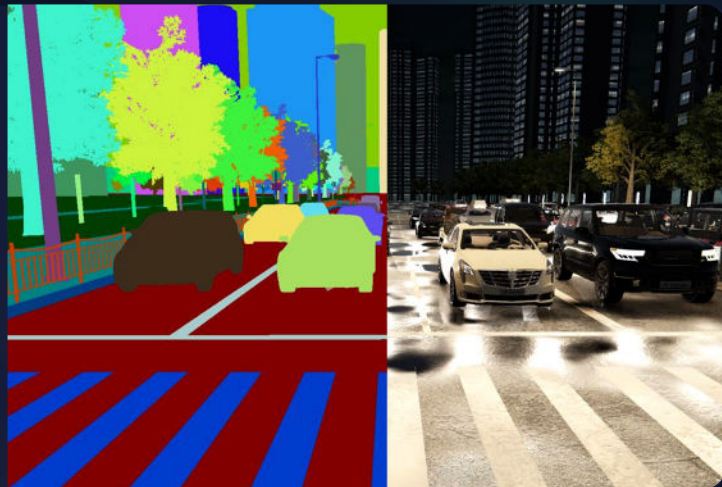
LiDAR



Thermal

Perfect Ground Truth

Contextual knowledge with pixel-perfect segmentation for a wide variety of categories including agents, infrastructure, spaces, parking slots, and more.



Digital Twins 3D Environments

Comprehensive assets catalog with Weather, lighting, surface, and object variation across global scenes with a library of pre-built scenarios.

Viewed From Any Sensor, Anywhere

- Flexible placement and configuration with 6DoF
- Camera including wide-angle and fisheye for automated parking systems perception training
- Multiple sensors and fusions - RGB cameras, Point-Cloud (LiDAR), RADAR, Thermal cameras, and more.

