

## Kognic: Transforming AI development for Sensor-Fusion data

Ready to accelerate your journey in data? Kognic, the leading annotation platform, is engineered for multi-modal sensor fusion and large-scale data operations.

### CHALLENGE

Enable an effective way to conduct quality assurance while iterating datasets.

### SOLUTION

Our Refinement capability enabled Zenseact to get actionable insights by comparing model predictions to their datasets to focus subsequent QA efforts.

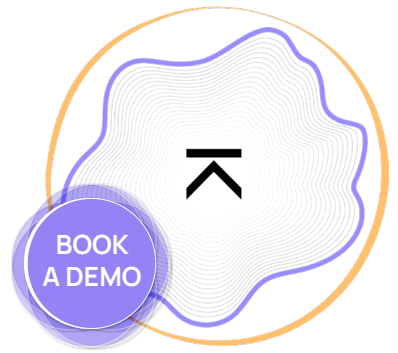
### IMPACT

Higher dataset quality and new insights about their model behavior resulting in 28% reduction in QA investment.



### Future-proofing ADAS / AD

As one of our earliest and ongoing relationships, Kognic has worked closely with Zenseact to create and manage efficient dataset shaping for automated and autonomous mobility. By using advanced sensor fusion and our refinement tool's Loss-Ranking view, we enable Zenseact to meet their ADAS performance criteria demanded by the SOP for Volvo Cars.



### Increasing the impact of end-to-end ground truth

Kognic is proud to work with Bosch and their global ADAS/AD product teams across the full breadth of our platform. In a combined agreement to provide both software and ground-truth deliveries, Kognic is addressing a large roster of use case complexity for Bosch's commitment to bring their ADAS/AD products to market for multiple OEMs.

### CHALLENGE

Development cycles, from data ingest to model output, had grown too long and were risking OEM release calendars

### SOLUTION

Shorten development iterations through integrated dev-to-prod annotation workflows, and reduce production cost through pre-annotation and broader automation

### IMPACT

Kognic's unified toolset working across the entire lifecycle of data production and deployment has reduced overhead and increased uptime.

### CHALLENGE

Sub-optimal results from previous s/w vendor, including lack of automation and workforce mgt. led to missed expectations and delivery.

### SOLUTION

Provide a flexible mixture of software and perception expertise to accelerate annotation, optimize dataset engineering workflows and regain program momentum.

### IMPACT

Stabilized data supply by delivering on promises, both in regards of quality and time, leading to increase in models sent to testing.



### Accelerating engineering precision

For our ongoing relationship with Qualcomm, Kognic provides both best-practice and customized workflows to their globally distributed teams. This includes integration of auto-labels within the annotation process to ensure cost-efficient use of annotator workforce and mission budgets needed to deliver high volume datasets.



### Building the autonomous driving flywheel

As a leader in autonomous trucking, Kodiak Robotics partnered with Kognic to grow their annotation pipelines and improve AI model performance. By leveraging Kognic's advanced sensor-fusion capabilities and integrating pre-labeling workflows, Kodiak has successfully automated their annotation pipeline, creating an efficient data development flywheel.

### CHALLENGE

Need for reliable and efficient scaling of annotation pipelines for autonomous trucking development, with special focus on off-road construction zones and temporary lane markings.

### SOLUTION

Implementation of the Kognic's platform with specialized time-series data handling and multi-sensor integration, enabling accurate annotation of use cases within long-haul trucking.

### IMPACT

Enhanced AI model performance and successful automation of data pipelines, leading to faster deployment to production fleets, addressing complex off-road scenarios.

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