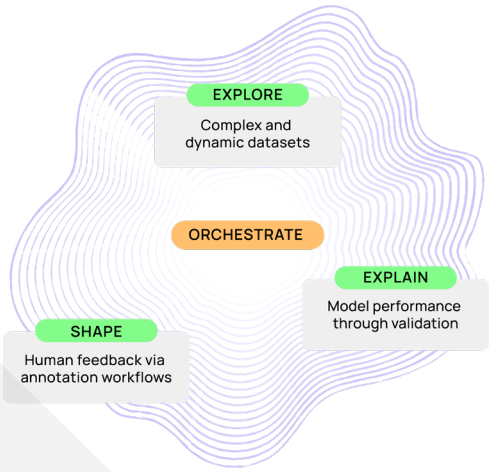
KOGNIC

The **dataset management** platform helping you assemble efficient **ground-truth data pipelines** to create and optimize **sensor-fusion.**

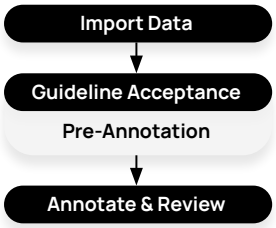
The Kognic Platform is designed with your evolving dataset at its center and provides key capabilities – **Explore, Shape** and **Explain** – that quickly and accurately unlocks your data.

Within our industry-leading annotation engine, Kognic offers critical tools such as Multi-Sensor fusion that have been proven in many **ADAS/AD** deployments. We also provide a strong selection of Pre-Annotation methods to enhance the value of your data for model training.



What is Pre-Annotation?

Pre-Annotation is the process of assigning preliminary labels to specific elements. This allows for the automation of subsequent and larger scale data annotation, saving time and reducing costs associated with managing workforce(s) and maintaining high-quality output.



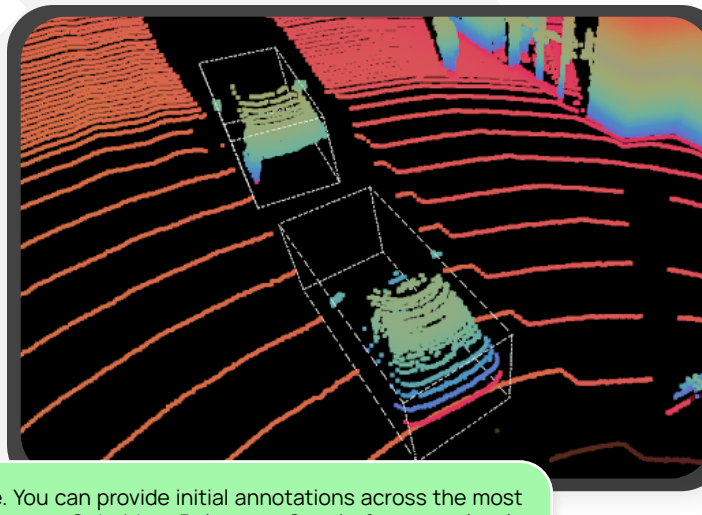
What can Pre-Annotation provide?

The value of pre-annotations lies in their ability to lower costs by leveraging automation for faster and more efficient data annotation. It is important to include human feedback to ensure high-quality output, but it is also important to know where human feedback is best leveraged - not every shape needs human-in-the-loop. Pre-annotations can help create this balance.

What is the real impact of Pre-Annotation?

In a recent effort, focused on cuboids, pre-annotation ***reduced annotation time up to 62%*** compared to annotating from scratch. The automation provided suggested positions for objects using dashed cuboids, enabling faster annotation without compromising accuracy. Although there was a slight reduction in the quality of annotations, with annotators putting less effort into identifying missed objects, the overall precision remained high.

As just one example of the variety of shapes pre-annotations can be applied to, cuboid pre-annotations have great potential for accelerating the correction process for 3D cuboids, especially in highway scenes. Careful monitoring of annotation quality is advised, particularly in city scenes where pre-annotations may have lower quality.



`point2d` `poly3d` `bbox` `cuboid`

Getting started with pre-annotations is simple. You can provide initial annotations across the most common array of geometries - from Bounding Boxes to Cuboids to Polygons... Our platform seamlessly integrates and then utilizes these pre-annotations throughout the data annotation process. And all this is accessible via our API bench - check it out here.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Kognic's goal with Pre-Annotations is to enhance the efficiency of your data annotation, allow better utilization of workforce capabilities and reduce total cost of ownership (TCO).

Do you want to spend less on ground-truth? **Let's put Pre-Annotation to work.**

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