ADAS Annotation

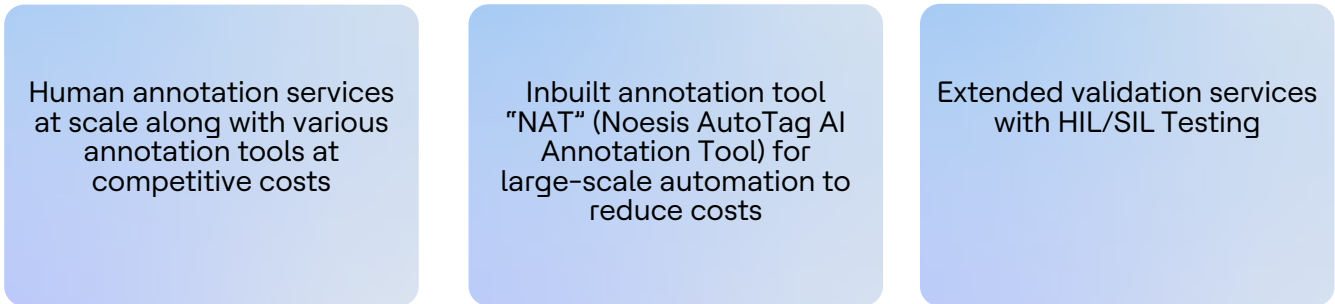## Accelerating Ground Truth Annotation productivity

Overview

Ground Truth Validation is a crucial step to improving machine learning capabilities and efficacy of ADAS Ground Truth Data for the autonomous car segment.
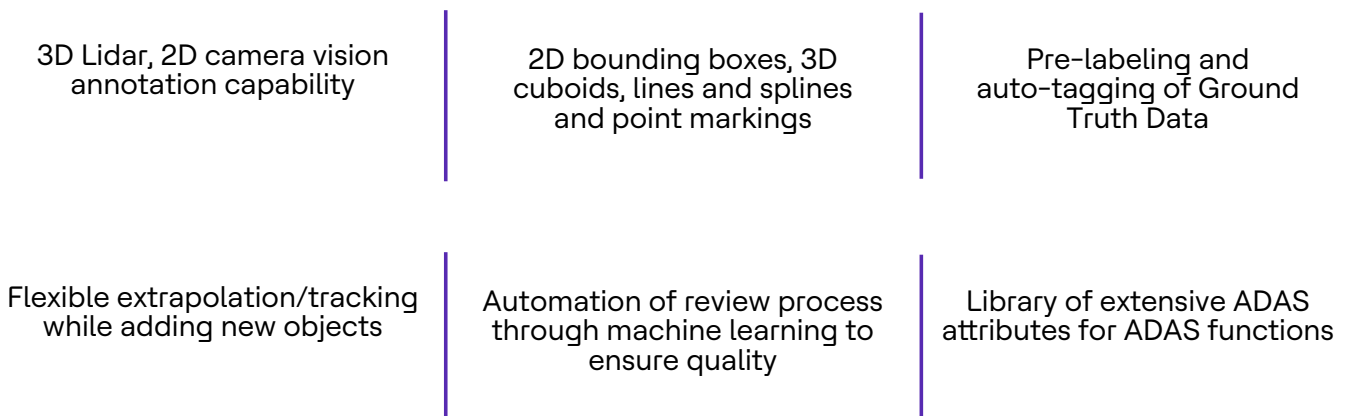
Since it involves collecting, annotating and validating large-scale driving datasets, it requires data cloud partners, annotation tools and an annotation workforce. There is a high demand for automation for the annotation of ground truth data to cut down annotation costs

HCLTech aims to provide annotation services as part of DRIVE with:

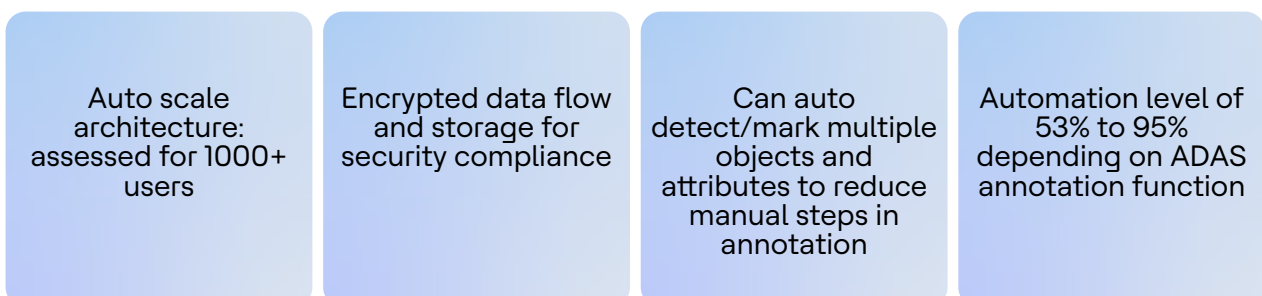|		
Human annotation services at scale along with various annotation tools at competitive costs	Inbuilt annotation tool "NAT" (Noesis AutoTag AI Annotation Tool) for large-scale automation to reduce costs	Extended validation services with HIL/SIL Testing

Key Features

The NAT tool by HCLTech is built by leveraging all the ADAS experiences derived from multiple annotation projects to improve the productivity and quality of annotation data through automation. Key features include:

3D Lidar, 2D camera vision annotation capability	2D bounding boxes, 3D cuboids, lines and splines and point markings	Pre-labeling and auto-tagging of Ground Truth Data
Flexible extrapolation/tracking while adding new objects	Automation of review process through machine learning to ensure quality	Library of extensive ADAS attributes for ADAS functions

Can be deployed on-premises or on any cloud

Benefits

The NAT tool's AI capability and cloud connectivity can help with:

Auto scale architecture: assessed for 1000+ users	Encrypted data flow and storage for security compliance	Can auto detect/mark multiple objects and attributes to reduce manual steps in annotation	Automation level of 53% to 95% depending on ADAS annotation function

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