

# R-Car Proactive Partner Solution SYSGO – ADAS Platform



## **Solution Summary**

Apex.AI, Renesas, and SYSGO have joined forces to bring you a simpler solution for Software-Defined Vehicle built upon Renesas R-Car ECUs with SYSGO RTOS and hypervisor technology for mixed criticality. And Apex.AI's functionally safe Apex.AI and Apex.Ida products. The solution is automotive grade and ASIL D safety certified to speed your way to production.

## Features/Benefits

#### Certifiable ROS 2 Stack: Partnership

Renesas (R-Car H3 board) Apex.AI (Apex.Grace, LiDAR 3D perception) SYSGO (PikeOS RTOS & Hypervisor)

#### ROS 2: Flexible, open-source SW platform

Tools, libraries, and algorithms to simplify creating complex behaviors of Robotic and Automotive platforms

#### **SW-defined Smart Vehicle RTOS**

Hard real-time, Safety certification up to ASIL D

Processing in Apex.Grace / ROS 2 Nodes Multiple PikeOS partitions



## **Target Markets and Applications**

- Automotive
- Off highway
- Railway

https://www.sysgo.com/automotive



Company Name	SYSGO
Address	Am Pfaffenstein 8 55270 Klein-Winternheim Germany
Date of Creation	1991
CEO	Etienne Butery
Business Description	SYSGO is the leading European provider of real-time operating systems for critical embedded applications in the Internet of Things (IoT). Our customers are leading industry players who use our PikeOS and ELinOS products as a platform for critical systems that need to be certified against industry-specific Safety and Security standards
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