

## **Baraja and Taiwan's ITRI partner to bring self-driving trucks to global markets**

Baraja Spectrum-Scan™ LiDAR resolution enables efficient long-haul logistics for ITRI's intelligent mobility division.

Baraja, a developer of Spectrum-Scan™ LIDAR, has signed a strategic partnership agreement with Taiwan's renowned Industrial Technology Research Institute (ITRI) to supply LiDAR with resolution and range abilities that enable autonomous driving for efficient logistics and delivery.

The partnership is focused on bringing autonomous vehicle (AV) technologies to market, specifically those used for delivery such as long-haul trucks and last-mile delivery vehicles.

As leaders in their fields, Baraja and ITRI are excited to collaborate on increasing opportunities for self-driving trucks during this globally momentous time in the eCommerce and logistics sectors.

"With the increased push for efficient and safe long-haul and last-mile delivery, we are excited to be able to seize what will be a huge opportunity for the future of autonomy" said Federico Collarte, Founder and CEO of Baraja. "ITRI is a world-leading organization and a valued strategic partner for us, and we are deeply appreciative that they have invited us into a deeper technical collaboration to bring self-driving trucks closer to reality".

### **High-performance LiDAR made for the long haul**

Baraja Spectrum-Scan™ LiDAR achieves greater range & resolution without sacrificing reliability for efficient autonomous logistics and delivery solutions. With addressable resolution, unobtainable by mechanical LiDAR, Baraja Spectrum-Scan™ enables incredibly dense pointclouds resulting in better detection of distant hazards, at longer ranges.

Additionally, Baraja delivers ultra-high-resolution scanning to support real-time

object recognition – with scan regions that are software-configurable to match to a wide range of long-haul use cases easily. As Spectrum-Scan™ is built with no moving electronics, it has proven tough through independent testing for reliability, durability, and dependability.

### **Driving intelligent mobility**

As a leading innovator for Taiwan and global industry, ITRI is much like Australia's own CSIRO. The Institute has empowered many industries such as semiconductors, robotics and optronics and is on a mission to facilitate technology commercialization.

According to Dr. Jwu-Sheng Hu, VP and General Director of ITRI's Mechanical and Mechatronics Systems Research Laboratories, ITRI is dedicated to developing advanced technology solutions for vehicles and manufacturing, including self-driving technologies spearheaded by its Chief Digital Officer Prof. Chieh-Chih (Bob) Wang. ITRI has also supplied AV technologies to top international automotive OEMs.

“Baraja's LIDAR performance has surpassed everything I've evaluated before and is an ideal fit for self-driving trucks,” said Prof. Wang. “Both its reliability and ruggedization have been proven through its successful use in hazardous mining sites. Equally impressive is the fact that we can dynamically change the scan patterns, so we can isolate the resolution where we want it, when we want it. This is a game changer for detecting hazards at range,” he added.

The parties will work together on technical developments and joint marketing, hoping to bring their combined technology to Australia, Taiwan, and other Asia Pacific markets. The strategic agreement represents the initial phase of the business collaboration. Both parties will continue to explore areas for further growth to develop a long-term win-win partnership.

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