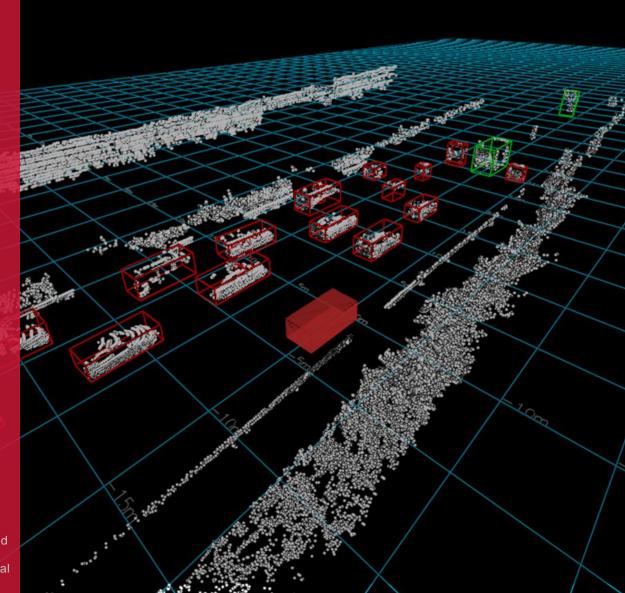
VUEREN

LiDAR Solution Provider for Automotive



June 20–22, 2023 | Santa Clara, CA

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Overview



Since 2019, Vueron has achieved milestones and built various business references, attracting over \$10 million in investments

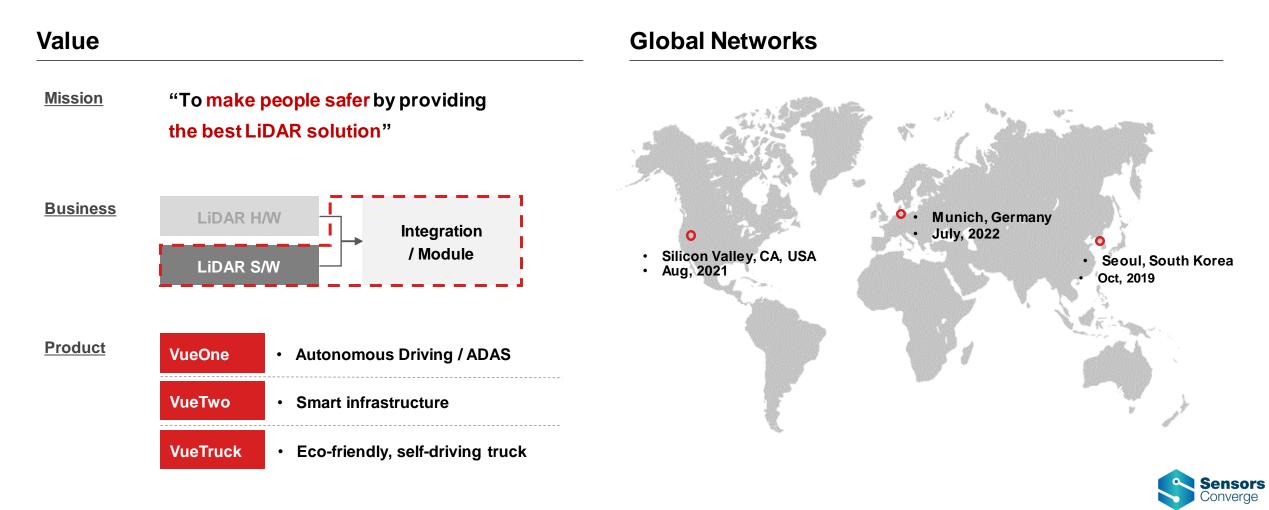
Overview		_	History	
Name	Vueron Technology Co., Ltd.	0	2023. 01	Release VueTruck – eco-friendly, self-driving truck
Foundation	October 10 th 2019		2022.06	Obtained AV permit in US (CA / NV)
CEO	Joseph Kim	O	2021.12	Pre-A Funding U\$10m (KDB, Bon Angels and more)
	HQ Seoul, South Korea		2021.02	Obtained AV permit in Korea
Office	San Jose office Munich office	0	2020. 11	Release VueTwo – Smart infra solution
Team	45 (32 engineers)		2020. 07	Release VueOne – Automotive solution
	Obtain one LiDAR only self-driving permit in		2020. 05	Seed Funding(Naver, Bon Angels)
Key milestones	 Korea / California / Nevada Revealed smart Infra LiDAR solution Revealed eco-friendly, self-driving truck 	0	2019. 10	Vueron Technology Foundation
				Sensors Converge

History

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Driven by our mission to make people safer,

Vueron is dedicated to addressing the challenges of the autonomous driving industry and smart cities with Vueron LiDAR solution

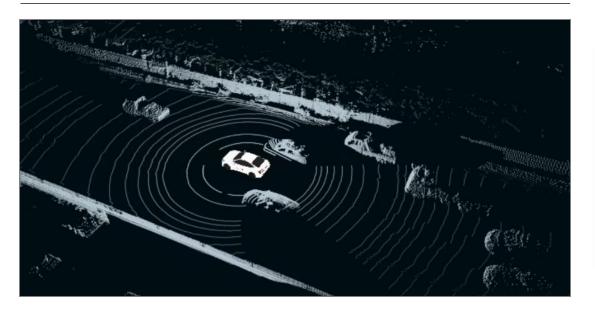


Vueron Product Description : Software



LiDAR software provides essential information for autonomous driving system by pre-processing millions of data points per second from LiDAR hardware

LiDAR Hardware



- Hardware only provides point information
- Point X, Point Y, Point Z, and Point Intensity

LiDAR Software



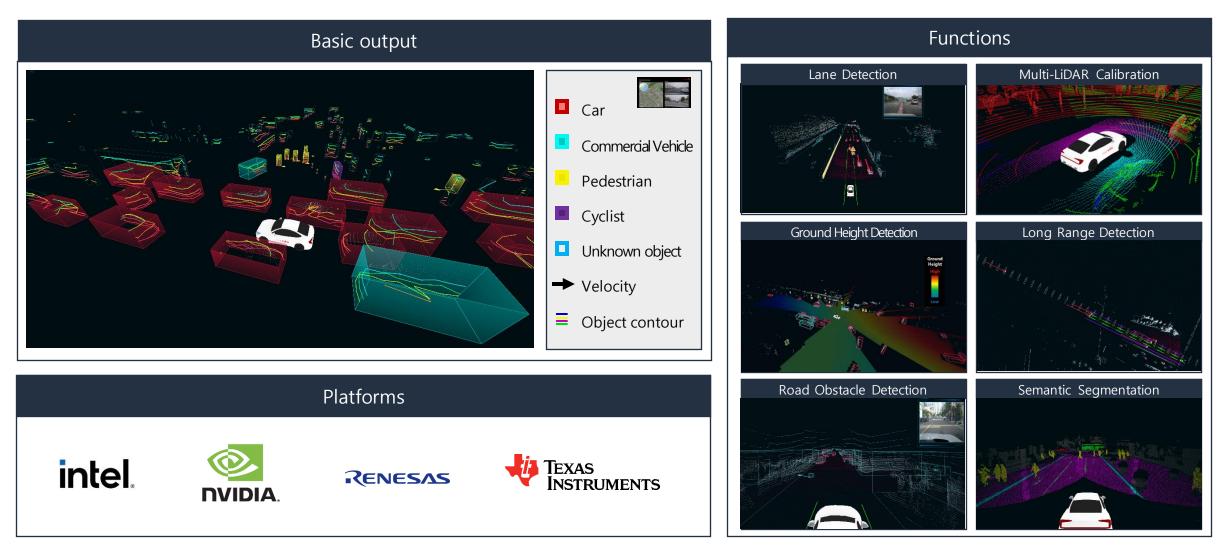
• **Software provides object information** – Position, Size, Direction, Velocity, and more



Vueron Product Description : VueOne

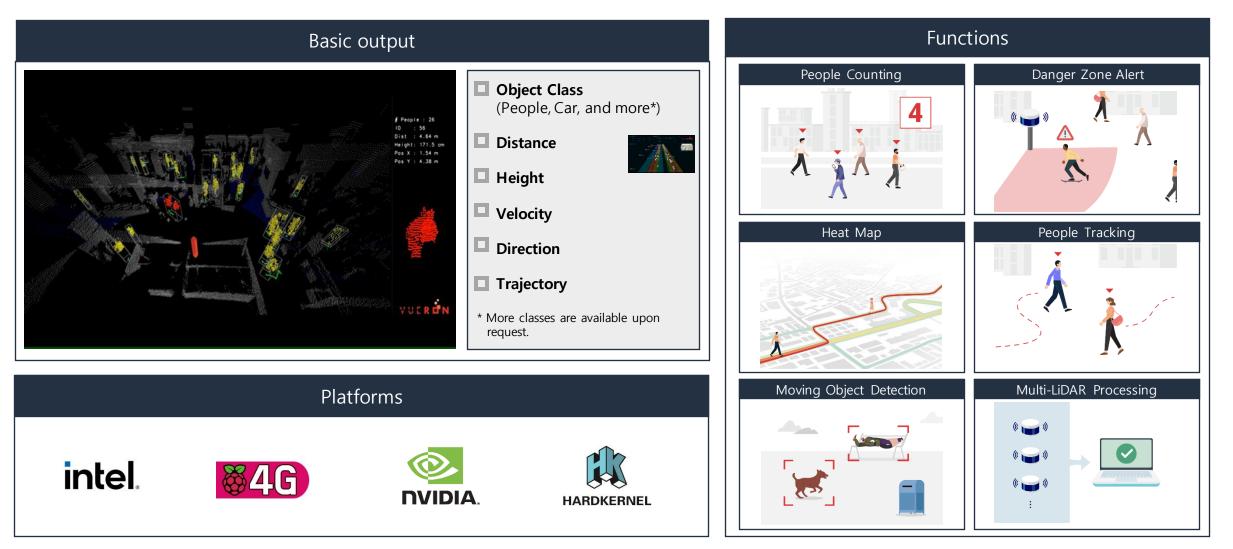


VueOne is a LiDAR perception software for autonomous driving and ADAS system





VueTwo is the best LiDAR perception software for smart infrastructure



Vueron Product Description : VueTruck

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VueTruck is a specially designed Lv4 autonomous trucking system for the delivery of fresh and frozen foods from hubs to customers





System configurations



Operations



Key summary

- 1. Lv.4 autonomous trucks powered by our cutting-edge LiDAR solution, VueOne.
- 2. Sustainable delivery solution by utilizing electric trucks and refrigeration boxes
- 3. Providing highly reliable services through our partnership with 'TeamFresh', Korea's #1 cold-chain logistics company



VueOne's competitiveness

VueOne enables the clients to deploy the best LiDAR solution with top level of safety and performance for autonomous driving to their current mass-produced vehicles

Core Competencies

	 Due to insufficient S/W development ability, LiDAR H/W manufacturers try to build up ecosystem by securing S/W partnering companies 		 World's first to obtain an autonomous driving license in Korea and US with only one LiDAR Continue to upgrade S/W performance with 8 test vehicles equipped with LiDAR
(2	Applicability to Mass-Produced Vehicles	 Competitors' LiDAR solutions require a large capacity database and processing ability; cannot with low performance/power MCU → Inevitable to equip high-performance GPU with high power consumption 	 100% Compatible with every LiDAR in the world Available solution not only in GPU but also in low performance & power MCU
	Co-Work References in Automotive Sector	 For AV Solution commercialization, accumulative collaboration with OEM / Tier 1 and related partnering companies is the main point 	 Numerous POC projects and government tasks carried out for several years with automotive OEM and Tier 1 Co-development experiences with global partners such as LiDAR H/W, Chipmaker, etc.

VueOne's Competitiveness : 1 High Safety & Performance



Using test vehicles with autonomous driving license in Korea and US,

Vueron is constantly reviewing and upgrading its safety & performance level suitable for autonomous vehicles

Autonomous Driving License

World's 1st company obtaining AV permit with 1 LiDAR in Korea and USA^(CA / NV)





- Feb '21, Obtained AV permit in Korea
- Jun '22, Obtained AV permit in CA, USA
- Jul '22, Obtained AV permit in NV, USA
- Dec'22, Prepare for obtaining AV permit in Germany

Autonomous Driving Test Vehicle





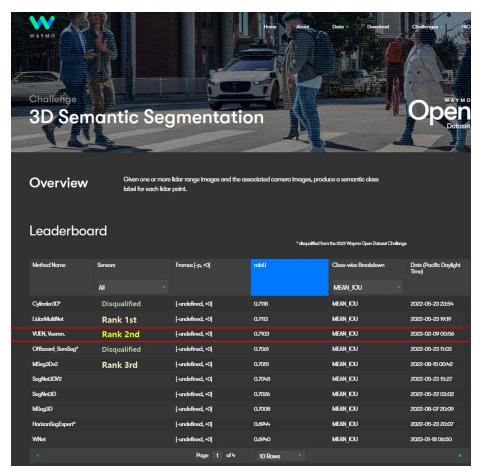
- Perform driving test with 4 cars^(Sedan, Truck, SUV) having AV permit in Korea and 2 cars in USA
- 2 LiDAR Solution Demo Vehicles (both in and outside of Korea)



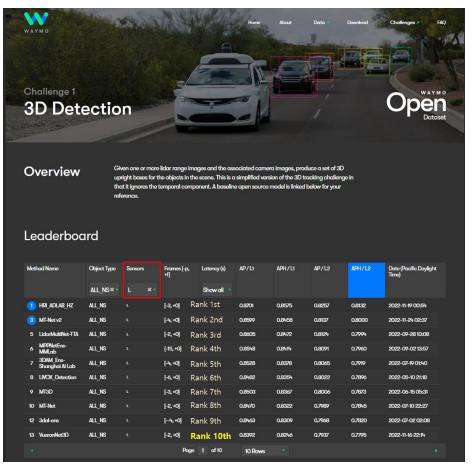
VueOne's Competitiveness : 1 High Safety & Performance



[Appendix] VueOne's Performance Benchmark



World 2nd in Waymo Benchmark (3D Semantic Segmentation)



World 10th in Waymo Benchmark (3D Object Detection)



Vueron's Competitiveness : 2 Applicability to mass-produced vehicles

VueOne is also a LiDAR software that can be 100% compatible with all types of LiDAR hardware and run with not only high-performance GPUs but also low-end MCUs

Applicability to LiDAR Hardware



 Regardless of manufacturer and product type, 100% compatible LiDAR S/W

Applicability to Processor



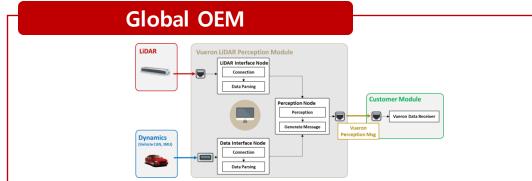
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• LiDAR S/W available in not only with high-performance GPU, but also with MCU in mass-produced vehicles now using with low-power & low-performance

VueOne is the only one LiDAR software in the world that can immediately adapted to any LiDAR hardware and domain environment desired OEMs and Tier 1

VueOne's Competitiveness : 3 Co-Work References in Automotive Sector 🛛 🖌 🖯 E R 🗗 N

Vueron has deep understanding of the automotive vehicles sector through numerous accumulated projects with Automotive OEMs and Tier 1



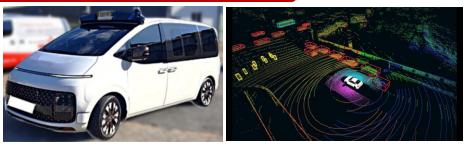
• PoC project to provide the perception s/w for LiDAR sensor that is considered mass production

Global OEM



 PoC project to provide the sensor fusion software development^(incl. LiDAR perception) for truck platooning system

Global Tier-1



PoC project to provide the LiDAR perception s/w for autonomous shuttle

Global Tier-1



 PoC project to provide the LiDAR perception s/w for ADAS lamp system



Thank you

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