



## Velodyne Lidar Partners with NVIDIA Metropolis for Intelligent Infrastructure Solutions

July 14, 2021

### *City of Austin, Texas, Selects Velodyne's Solution for Traffic Safety Pilot Project*

SAN JOSE, Calif.--(BUSINESS WIRE)--Jul. 14, 2021-- [Velodyne Lidar, Inc.](https://www.businesswire.com/news/home/20210714005176/en/) (Nasdaq: VLDR, VLDRW) today announced it has joined the [NVIDIA Metropolis](#) program for Velodyne's [Intelligent Infrastructure Solution](#) for traffic monitoring and analytics. NVIDIA Metropolis is designed to nurture and bring to market a new generation of applications and solutions that make the world's most important spaces and operations safer and more efficient with advancements in AI vision.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20210714005176/en/>



Velodyne Lidar has joined the NVIDIA Metropolis program for Velodyne's Intelligent Infrastructure Solution. The Intelligent Infrastructure Solution combines Velodyne's award-winning lidar sensors and powerful AI software to monitor traffic networks and public spaces. (Photo: Velodyne Lidar)

lidar frames in real time to detect, classify and extract traffic trajectory.

Being a part of NVIDIA Metropolis, Velodyne gains increased exposure to industry experts, AI-driven organizations, governments and integration partners looking to leverage world-class AI-enabled solutions to improve critical operational efficiency and safety problems. Velodyne also has early access to NVIDIA platform updates and can tap into NVIDIA's diverse partner ecosystem to support lidar-based solution development.

### **New Deployment in Austin**

Velodyne's Intelligent Infrastructure Solution pilot project is set to deploy in Austin, Texas. The city will use the solution to assess traffic conditions and identify proactive safety measures that can be taken to help save lives.

The project is using lidar-based traffic monitoring as a reliable, non-intrusive multi-modal replacement for inductive-loop detectors, cameras, and radars. Velodyne's Intelligent Infrastructure Solution creates a real-time 3D map of roads and intersections to generate traffic data in a wide variety of lighting and weather conditions, and provide categorized monitoring data on pedestrians, cyclists, cars, and trucks.

In Austin, the first installation will be at East 7<sup>th</sup> Street & Springdale Road. This intersection has been identified as needing improvement due to the accident history, fatality risk, speeding prevalence and congestion.

"Lidar-based solutions hold tremendous potential to protect personal identifiable information while continuing to help us to achieve our Vision Zero goal to eliminate traffic deaths and serious injuries on Austin streets," said Jason JonMichael, Assistant Director, Austin Transportation Department. "Velodyne Lidar's Intelligent Infrastructure Solution could enable us to more efficiently collect and analyze the mobility that is needed to improve roadway efficiency and safety."

"It is great to be working with the city of Austin on innovation initiatives that will certainly transform roadways into smarter, safer infrastructure for the community," said Jon Barad, Vice President of Business Development, Velodyne Lidar. "Partnering with NVIDIA Metropolis allows us to help Austin and other communities address road safety challenges and improve traffic efficiency and sustainability."

### **Velodyne's Solution Enables Smart Infrastructure**

The Intelligent Infrastructure Solution combines Velodyne's award-winning lidar sensors and powerful AI software to monitor traffic networks and public spaces. The solution addresses the pressing need for smart city systems that can help improve road safety and prevent traffic accidents. Government data showed 2020 was the deadliest year for U.S. traffic crashes in over a decade, with a [7.2 percent increase in traffic fatalities](#) over the previous year.

Velodyne's solution leverages the powerful capabilities of the embedded [NVIDIA Jetson AGX Xavier](#) module in its edge AI computing system to run the solution's proprietary 3D perception software, which can detect all road users including vehicles, pedestrians and cyclists in real time. The NVIDIA Jetson AGX Xavier provides unparalleled computing power of a GPU workstation in a compact, energy-efficient module. It powers the Intelligent Infrastructure Solution AI application to run up to 50 frames per second and process

Velodyne's Intelligent Infrastructure Solution creates a real-time 3D map of roads and intersections, providing precise traffic monitoring and analytics that is not possible with other types of sensors like cameras or radar. It reliably collects data in any lighting or weather condition, supporting year-round operation, while also protecting people's privacy. The solution advances safety through multimodal analytics that detect various road users including vehicles, pedestrians, and cyclists. It can predict, diagnose, and address road safety challenges, helping municipalities and other customers make informed decisions to take corrective action. After purchasing a set-up bundle that includes the software and sensors, customers will pay Velodyne a system access fee for the recurring monitoring and analytics. For more information on the Intelligent Infrastructure Solution, contact Velodyne Sales: 669.275.2526, [sales@velodyne.com](mailto:sales@velodyne.com).

### **About Velodyne Lidar**

Velodyne Lidar (Nasdaq: VLDR, VLDRW) ushered in a new era of autonomous technology with the invention of real-time surround view lidar sensors. Velodyne, the global leader in lidar, is known for its broad portfolio of breakthrough lidar technologies. Velodyne's revolutionary sensor and software solutions provide flexibility, quality, and performance to meet the needs of a wide range of industries, including autonomous vehicles, advanced driver assistance systems (ADAS), robotics, unmanned aerial vehicles (UAV), smart cities and security. Through continuous innovation, Velodyne strives to transform lives and communities by advancing safer mobility for all. For more information, visit [www.velodynelidar.com](http://www.velodynelidar.com).

### **Forward Looking Statements**

This press release contains "forward looking statements" within the meaning of the "safe harbor" provisions of the United States Private Securities Litigation Reform Act of 1995 including, without limitation, all statements other than historical fact and include, without limitation, statements regarding Velodyne's target markets, new products, development efforts, and competition. When used in this press release, the words "estimates," "projected," "expects," "anticipates," "forecasts," "plans," "intends," "believes," "seeks," "may," "will," "can," "should," "future," "propose" and variations of these words or similar expressions (or the negative versions of such words or expressions) are intended to identify forward-looking statements. These forward-looking statements are not guarantees of future performance, conditions or results and involve a number of known and unknown risks, uncertainties, assumptions and other important factors, many of which are outside Velodyne's control, that could cause actual results or outcomes to differ materially from those discussed in the forward-looking statements. Important factors, among others, that may affect actual results or outcomes include uncertainties regarding government regulation and adoption of lidar, the uncertain impact of the COVID-19 pandemic on Velodyne's and its customers' businesses; Velodyne's ability to manage growth; Velodyne's ability to execute its business plan; uncertainties related to the ability of Velodyne's customers to commercialize their products and the ultimate market acceptance of these products; the rate and degree of market acceptance of Velodyne's products; the success of other competing lidar and sensor-related products and services that exist or may become available; uncertainties related to Velodyne's current litigation and potential litigation involving Velodyne or the validity or enforceability of Velodyne's intellectual property; and general economic and market conditions impacting demand for Velodyne's products and services. For more information about risks and uncertainties associated with Velodyne's business, please refer to the "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Risk Factors" sections of Velodyne's SEC filings, including, but not limited to, its annual report on Form 10-K and quarterly reports on Form 10-Q. All forward-looking statements in this press release are based on information available to Velodyne as of the date hereof, Velodyne undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

View source version on [businesswire.com](https://www.businesswire.com/news/home/20210714005176/en/): <https://www.businesswire.com/news/home/20210714005176/en/>

### **Velodyne Investor Relations**

[InvestorRelations@velodyne.com](mailto:InvestorRelations@velodyne.com)

### **Media**

Codeword

Liv Allen

[velodyne@codeword.com](mailto:velodyne@codeword.com)

Source: Velodyne Lidar, Inc.