Foresight Announces Major New Technological Features for QuadSight® Vision System

*Ness Ziona, Israel – January 6, 2020 -* Foresight Autonomous Holdings Ltd. (NASDAQ and TASE: FRSX), an innovator in automotive vision, announced today that the Company has developed significant advanced features for its four-camera QuadSight® vision system. The new features were developed to meet customer requirements following successful evaluation of several QuadSight system prototypes purchased over the past year. These capabilities will significantly improve the QuadSight system’s performance in accurately measuring obstacle size, location and distance, even in harsh lighting and weather conditions.

The QuadSight system’s new features include **automatic calibration, 3D point cloud and multispectral sensor fusion**.

**Automatic calibration**: The main challenge using stereo vision technology is the ability to create a precise 3D depth map in a dynamic environment, achieved through synchronization and calibration of the stereoscopic cameras. In order to obtain precise measurements of the vehicle’s surroundings, it is necessary to estimate the rotation of one camera compared to the other for each frame, a calculation known as relative pose estimation. Foresight has developed a proprietary solution known as automatic calibration which uses unique algorithms to successfully assess relative pose estimations. Automatic calibration is fundamental for creating an accurate stereoscopic 3D perception while ensuring system robustness.

**Point cloud** is a set of data points which generates accurate pixel location and distance for complete 3D mapping. To the best of the Company’s knowledge, QuadSight is the only sensor which generates an infrared-based point cloud. Foresight’s technology generates a high-resolution depth map which is converted to a high-resolution **3D point cloud**; this provides accurate information on the vehicle’s surroundings including the location and distance of any object in the field of view. In addition, the Company intends to further develop its unique point cloud solution to fuse data from both visible light and longwave infrared channels. Point cloud provides raw 3D data that can be used for obstacle detection, terrain analysis and fusion with other autonomous vehicle sensors.

**Multispectral sensor fusion**: The QuadSight system combines two channels which consist of stereo visible-light cameras and stereo long-wave infrared thermal cameras to provide accurate obstacle detection in harsh lighting and weather conditions. The system
performs fusion between the two stereoscopic channels in order to generate an accurate depth map while reducing false alerts. In addition, the system can decide which channel to choose, in real time, according to the relevant scenario.

To learn more about Foresight’s technological capabilities, visit the Company’s new website www.foresightauto.com

Visitors to Foresight’s booth #1307 at CES 2020, January 7–10 at the Westgate Las Vegas, will be able to appreciate these latest technological developments. To schedule a meeting at CES, please contact ces2020@foresightauto.com.

For more information about Foresight and its wholly owned subsidiary, Foresight Automotive, please visit www.foresightauto.com, follow @ForesightAuto on Twitter, or join Foresight Automotive on LinkedIn, the contents of which are not incorporated into this press release.

About Foresight
Foresight Autonomous Holdings Ltd. (Nasdaq and TASE: FRSX), founded in 2015, is a technology company engaged in the design, development and commercialization of sensor systems for the automotive industry. Through the company’s wholly owned subsidiaries, Foresight Automotive Ltd. and Eye-Net Mobile Ltd., Foresight develops both “in-line-of-sight” vision systems and “beyond-line-of-sight” cellular-based applications. Foresight’s vision sensor is a four-camera system based on 3D video analysis, advanced algorithms for image processing, and sensor fusion. Eye-Net Mobile's cellular-based application is a V2X (vehicle-to-everything) accident prevention solution based on real-time spatial analysis of clients’ movement.

The company's systems are designed to improve driving safety by enabling highly accurate and reliable threat detection while ensuring the lowest rates of false alerts. Foresight is targeting the semi-autonomous and autonomous vehicle markets and predicts that its systems will revolutionize automotive safety by providing an automotive-grade, cost-effective platform and advanced technology.

Forward-Looking Statements
This press release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995 and other Federal securities laws. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates" and similar expressions or variations of such words are intended to identify forward-looking statements. For example, Foresight is using forward-looking statements in this press release when it discusses the benefits of its products and that new capabilities will significantly improve the QuadSight system’s performance in accurately measuring obstacle size, location and distance, even in harsh
lighting and weather conditions. Because such statements deal with future events and are based on Foresight’s current expectations, they are subject to various risks and uncertainties, and actual results, performance or achievements of Foresight could differ materially from those described in or implied by the statements in this press release.

The forward-looking statements contained or implied in this press release are subject to other risks and uncertainties, including those discussed under the heading "Risk Factors" in Foresight’s annual report on Form 20-F filed with the Securities and Exchange Commission ("SEC") on March 20, 2019, and in any subsequent filings with the SEC. Except as otherwise required by law, Foresight undertakes no obligation to publicly release any revisions to these forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. References and links to websites have been provided as a convenience, and the information contained on such websites is not incorporated by reference into this press release. Foresight is not responsible for the contents of third-party websites.

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 FörERIC Made it clear that the new technologies showcased are designed to meet the needs of QuadSight®
and it is expected to significantly improve the system’s performance in accurately measuring the size, location, and distance of obstacles,
regardless of lighting and weather conditions.

Cloud Auto: The main challenge in using stereo vision technology is the ability to create a precise three-dimensional depth map in a dynamic environment, achieved through synchronization and the stereo cameras. In order to correctly measure the surrounding environment, there is a need to estimate the relative pose of each camera compared to the other, a process called relative pose estimation (RPE). ForeSight developed a solution called Cloud Auto, which uses unique algorithms to accurately estimate the relative pose. Cloud Auto is crucial for creating accurate stereo three-dimensional maps while ensuring the system’s stability.

Point Cloud: A cloud of points is a group of data points that provide precise location and distance information for every pixel in the surrounding environment. To the best of the company’s knowledge, QuadSight is the only sensor that creates a three-dimensional point cloud with high resolution; the point cloud provides precise information about the vehicle’s environment, including the location and distance of every object in the field of view. In addition, the company plans to expand its unique point cloud solution to use data from the visible light and infrared camera channels.

Multi-spectral Touch Sensors: The QuadSight system integrates two channels composed of visible light cameras and thermal infrared cameras in stereo, in order to provide accurate obstacle detection in various lighting and weather conditions.

Author’s note: ForeSight is an Israeli company that is leading the development of advanced computer vision systems for autonomous vehicles.
The systems operate by transmitting between the two stereoscopic lenses to create a precise depth map, eliminating false alarms. In addition, the system can decide in real-time which channel to choose, depending on the relevant situation.

For more information about Foresight's technological capabilities, visit the company's new website www.foresightauto.com.

Visitors to Foresight number 1307, at the CES 2020 exhibition to be held on January 7-10, at the Westgate Las Vegas hotel will be able to learn about the latest technological developments. Everyone interested in making an appointment is encouraged to contact the Foresight company via email ces2020@foresightauto.com.

For more information about Foresight and the company's subsidiary, Foresight Automotive, visit the company's website www.foresightauto.com, follow @ForesightAuto on Twitter, or join the company's LinkedIn page, whose content is not included in this email.

About Foresight

Foresight Autonomos Holdings Ltd. (NASDAQ: FRSX), established in 2015, is a technology company in the fields of planning, development, and marketing of perception systems for the automotive industry. Foresight Automotive Ltd., a wholly owned subsidiary of Foresight Autonomos Holdings Ltd., develops computer vision and "in-line-of-sight" systems and cellular applications "V2X" (vehicle-to-everything) to prevent accidents based on real-time analysis of user movement. The company's systems are designed to improve road safety by accurately and reliably identifying hazards, with a minimal risk of false alarms, and are targeted at the automotive and automotive industry, the motor industry, and the consumer electronics industry.

Appointments can be made directly to the company's clients.

For more information, please see the English version annexed below.

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