## **Update Report**

June 14, 2020



Significant partnerships for all Foresight entities including Rail Vision with a first order of 500k euros; Target price unchanged

Stock Exchange: NASDAQ /TASE

Symbol: FRSX

**Sector:** Technology

**Sub-sector:**Software / Internet

Stock Price Target: NIS 1.9 ADS Price Target: USD 2.77

(\*5 Shares = 1 ADS)

As of June 14, 2020 (source: TASE):

Closing Price: 0.80 NIS Market Cap: 207M NIS # of Shares: 258.5M Average Daily Trading Volume (3M): 1,069 shares YTD Return: 12.66%

## **Company Overview**

Foresight Autonomous Holdings Ltd. (NASDAQ and TASE: FRSX), is a technology company engaged, through its wholly-owned subsidiaries, Foresight Automotive Ltd. and Eye-Net Mobile Ltd., in developing both "in-line-of-sight" vision systems and "beyond-line-of-sight" cellular-based applications. Foresight's vision sensor is a four-camera stereo system based on 3D video analysis. 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. FRSX is also a 24.12% shareholder in Rail Vision Ltd., a leading provider of vision technology for the railway industry.

## **Highlights**

<u>Foresight</u> - completed Q1 2020 with several developments (full details in body of report):

- **FLIR Systems** On April 2<sup>nd</sup>, 2020 Foresight announced the signing of an agreement with FLIR Systems Inc. (Nasdaq: FLIR). According to the agreement, the parties will establish a strategic cooperation plan for the development, marketing and distribution of Foresight's QuadSight® vision system, combined with FLIR Systems' infrared cameras, to a wide range of prospective customers.
- Horizon 2020 Consortium On May 15<sup>th</sup>, Foresight joined the leading global industry Consortium for the Development of Autonomous Heavy-Duty Vehicles. The consortium submitted an application for a grant to the European Commission (Horizon 2020). The total amount of the grant is expected to total 20 million Euro, of which Foresight is expected to receive approximately one million USD. The consortium includes Continental, Terberg, and EasyMile, amongst others. Foresight was selected to provide its QuadSight® vision solution, using FLIR thermal infrared cameras.
- **Prototype system sales** Foresight received multiple orders, the most recent in May from a leading European Tier One supplier of commercial vehicles in the autonomous truck market.
- **COVID-19 screening solution** On June 5<sup>th</sup>, the Company announced that it has started developing a mass screening solution for the detection of COVID-19 symptoms based on its native technology.

<u>Eye-Net Mobile</u> – On March 31<sup>st</sup>, 2020 Eye-Net Mobile announced a partnership with NoTraffic, an autonomous traffic management platform to which Eye-Net can provide additional layers of traffic awareness, increase traffic efficiency and prevent accidents.

<u>Rail Vision</u> - On April 27<sup>th</sup>, 2020 Rail Vision announced that received its first order for 500K Euro from a leading European train operator that could in turn lead to multiple major orders.

**Strategically**, the Company will leverage its 2019 success milestones to reach Co-development agreements in 2020. In response to COVID-19, as of March 2020, Foresight has taken decisive action to reduce its monthly cash burn. We assume little impact and further growth into H2 2020. The agreement with FLIR will offer Foresight the ability to work directly with OEMs and Tier 1's and open new opportunities for its technology. The inclusion in the heavy-duty autonomous vehicle development consortium and deal with a tier one supplier in this domain is testimony to Foresight's substantial opportunity in this market.

Foresight has sold several systems for testing to leading OEMs and Tier One suppliers in the US, Europe, China, Israel, and Japan. For all details see Initiation Report. Financially, Foresight ended Q1 2020 with \$6.8 million in cash and short-term deposits. This amount excludes gross proceeds of an aggregate of \$14 million from previously announced offerings that closed in April, May, and June at a market discount. We assume the company has enough funds to support its activity through 2021. We maintain our evaluation for Foresight at an average price of 1.9NIS

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## We present our P&L forecast for 2019-2025 below:

\$, 000	2019A	2020E	2021E	2022E	2023E	2024E	2025E
Total revenues	0	1,121	6,576	24,017	84,886	148,290	228,665
Operating (loss) profit	-15,029	-13,696	-15,617	-12,845	4,864	28,715	58,565

<sup>\*</sup>Data presented above is based on non GAAP

## **Executive Summary**

## **Investment Thesis**

Foresight Autonomous Holdings Ltd. (NASDAQ and TASE: FRSX) is a technology company engaged, through its wholly-owned subsidiaries, Foresight Automotive Ltd. and Eye-Net Mobile Ltd., in developing 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. 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. FRSX is also a 24.12% shareholder in Rail Vision Ltd., a leading provider of cutting-edge cognitive vision sensor technology and safety systems for the railway industry.

The autonomous driving market is going through a state of transition, crossing the initial hype cycle into one that is more pragmatic and ROI-centric. OEMs and major investors are re-calibrating their strategies based on identifying technologies that can help address their short-term needs while also fitting in with their long-term vision roadmap for autonomous driving.

#### 20,000 L3 market penetration expected to 18,000 decline after 2025 given its initial rise but L4 is expected to continue rising 16,000 among new vehicles Units in Thousands ('000s) 14,000 12,000 10,000 8,000 6,000 4.000 2.000 2019 2021 2022 2023 2024 2026 2027 2028 2029 Year **■**13 ■ 1 4

Market Volume of Automated Vehicles, Global, 2018–2030

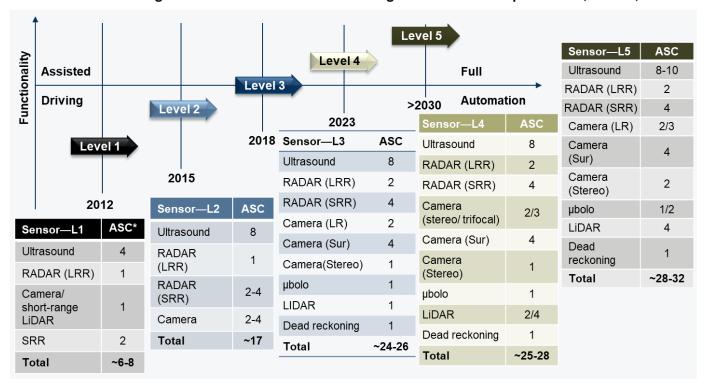
Note: All figures are rounded. The base year is 2018. Source: Frost & Sullivan

In the short term, most major OEMs are looking at business models and use cases that are hyper geo-localized and can bring cost benefits to current operating models that can be displaced. Robo-taxis, shuttles, and urban logistics are expected to be the most lucrative of these geo-localized business models, with Frost & Sullivan valuing these markets at over \$200Bn globally by 2030. While the long-term business models are uncertain, the technology selection for these short-term use cases is now considered with scale and reusability in mind.

In order to identify the ROI on any of the future business models in autonomous driving, it is critical to understand the technology cost associated with this, and this is where the biggest challenge with the industry resides. Lack of clear identification of the number of hardware modules required to provide vehicle autonomy along with the growing concern of software costs is mounting the overall estimations of operating autonomous vehicle business models.

Below we present current and future technologies and where Foresight is positioned:

## Sensor Fusion Strategies: Levels of Autonomous Driving with Sensors Requirements, Global, 2019-25

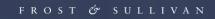


<sup>\*</sup>Average sensor count in respective levels; µbolo: thermal camera/IR sensor for night vision

It is now a critical point for OEMs and other service providers to identify systems that are robust yet cost effective and capable of operating in varying environments. Beyond these hardware requirements, OEMs will also require a level of flexibility at the software and supply chain level due to the lack of maturity of this value chain. The need of the hour is to have software modules that are cross functional with other sensors in the vehicle while having the flexibility to be procured either as processed information blocks from sensors or as raw data points depending on the overall data fusion strategy of the OEM. In essence, to create software that the OEMs can adapt to their needs and not a "black box" solution.

Addressing the confluence of these two challenges faced by the automotive industry of needing robust and cost effective sensors, along with flexible and cross functional software would be a key value proposition for any autonomous driving technology supplier, and this is where Foresight positions itself as a strategic fit to a diverse set of potential clients. Their combined stereo visible-light and infrared (IR) sensor-based system meets a wide range of vision-related requirements by OEMs that include object detection under diverse driving conditions from fair to harsh weather and provides a 3D point cloud of data that is critical for aspects like localization and object classification. Furthermore, by offering three diverse engagement models, from software licensing, to a system on a chip, as well as a fully integrated model, Foresight provides the desired flexibility to the value chain enabling them to work with a diverse array of clients from OEMs, to chip providers.

Thus we view the investment in Foresight Autonomous as a unique opportunity to invest in a game-changing start up firm in a relatively old school eco-system with three different investment opportunities: autonomous cars, trains, and cellular-based accident prevention solutions.



## **Timeline of Foresight Automotive significant milestones**

## **Upcoming Potential Catalysts**

		Event	Significance	Timeline
Foresight Automotive	1.	Commercial order from Elbit to implement Foresight's technology into Elbit's solutions and products	High	H2 2020
	2.	Initiate a POC with an OEM/ Tier One for tailoring the QuadSight system to the customer's' requirements	High	H2 2020
Rail Vision	3.	Rail Vision 1 <sup>st</sup> commercial order	High	H1 2020 <b>√</b>
Eye-Net Mobile	4.	SDK development completion for Eye-Net	Med	Q1 2020 <b>V</b>
	5.	Cooperation / integration with a leading mobility application for up to 1 million users for Eye-Net	High	Q3 2020

# Q2 2020 Highlights

- June 5<sup>th</sup>, 2020 Foresight announced that it has started developing a mass screening solution for the detection of COVID-19 symptoms based on visible-light and thermal cameras. In addition, the Company has submitted a patent application to the U.S. Patent and Trademark Office for a system and method for detection of people infected with the COVID-19 virus. Based on the Company's extensive knowledge using FLIR thermal cameras, artificial intelligence (AI) and advanced algorithms, the system is designed to rapidly and accurately detect some of the main symptoms associated with the COVID-19 virus. Foresight's expertise in automotive vision systems and advanced algorithms will be applied to detect symptoms of COVID-19 including cough and signs of fatigue, in addition to high body temperature, thus increasing the likelihood of accurate detection and potentially eliminating false positive results. These symptoms can be identified by using the Company's intellectual property that combines both visible-light and thermal cameras.
- May 15<sup>th</sup>, 2020 Foresight announced that it has joined the All Weather Autonomous Real logistics operations and Demonstrations (AWARD) consortium. The AWARD consortium submitted an application to the European Commission (Horizon 2020) to win funding for a large-scale project aimed at bringing disruptive change to the trucking industry, fleet operators, and the entire logistics sector. The total amount of the grant is expected to total 20 million Euro, of which Foresight is expected to receive approximately one million USD. Upon grant award, the project will be rolled out in 2021 for a period of 3 years. Coordinated by EasyMile, the AWARD consortium consists of 29 partners including industry leaders such as Continental (one of the biggest automotive suppliers and expert for automated driving technologies), Terberg (specialist heavy vehicle manufacturer), and Applied Autonomy (leading provider of Smart Fleet Management systems for connected autonomous vehicles). The group seeks to develop and operate safe autonomous heavy-duty vehicles in harsh weather conditions in a variety of different scenarios.
- May 7<sup>th</sup>, 2020 Foresight announced the sale of a prototype of its QuadSight® four-camera vision system to a leading, multi-billion dollar European Tier One supplier of subsystems for rail and commercial vehicles. The sale followed successful live technological demonstrations in Germany. This first prototype sale to the autonomous truck market validates the need for Foresight's technology within this market segment. The addition of advanced driver assistance systems (ADAS) and autonomous features and capabilities to autonomous trucks enables them to successfully operate without interruption during harsh weather and

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poor lighting conditions such as fog, heavy rain or snow. The QuadSight four-camera vision system provides highly accurate vision sensors that address the need for these vehicles to detect any obstacle and enable safe driving at all times in challenging weather.

- April 27<sup>th</sup>, 2020 Foresight's affiliate Rail Vision received its first commercial order from a leading European train operator totaling 500K Euro. The order consists of purchasing an Assisted Remote Shunting prototype system and an Operational Functional Test (OFT) for a total value of approximately 500,000 Euro. A commercial agreement with the leading European train operator detailing future phases is expected to be signed in the upcoming weeks. A successful testing of Rail Vision's Assisted Remote Shunting prototype could entail the purchase of approximately 30 shunting yard systems for an additional 2.5 million Euro. The European train operator may also choose to exercise its option to purchase an additional 45 shunting yard systems for a total value of 3.5 million Euro.
- April 2<sup>nd</sup>, 2020 Foresight announced the signing of an agreement with FLIR Systems Inc. (Nasdaq: FLIR). FLIR is the world's largest and leading commercial company specializing in the design and production of thermal imaging cameras, components, and imaging sensors. According to the agreement, the parties will establish a strategic cooperation plan for the development, marketing and distribution of Foresight's QuadSight<sup>®</sup> vision system, combined with FLIR Systems' infrared cameras, to a wide range of prospective customers. As part of the agreement, Foresight will exclusively purchase its thermal cameras from FLIR for all systems to be commercialized worldwide. Foresight will participate in the "Thermal by FLIR" program, a cooperative product development, marketing and product supply program that supports original equipment manufacturers (OEMs) and product innovators who use FLIR thermal imaging sensors in their products. As part of the program, Foresight will include the FLIR brand on its products. Current "Thermal By FLIR" partners include Panasonic, Bullitt Group, Blackview and other multinational companies.
- March 30<sup>th</sup>, 2020 Foresight announced that its wholly owned subsidiary, Eye-Net Mobile Ltd., has signed a collaboration agreement with NoTraffic Ltd. NoTraffic developed a novel and proprietary Autonomous Traffic Management Platform that is gradually being integrated in major cities. The platform enables cities for the first time to intelligently implement their traffic policy in a seamless way and operate autonomously in order to maximize traffic flow, reduce congestion, prioritize different types of vehicles, and prevent accidents. Eye-Net provides additional layers of traffic awareness that increase the traffic efficiency of the NoTraffic system and prevent accidents. In addition, Eye-Net Mobile completed a technological infrastructure development that enables automatic real-time informative notifications about cyclists and motorcyclists that are up ahead, even if they are out of the driver's direct line of sight.
- February 18<sup>th</sup>, 2020 Foresight received an order for the QuadSight® system prototype from a multi-billion dollar Japanese vehicle manufacturer. The OEM ordered the system immediately after participating in successful technological demonstrations in Japan. Rapid delivery of the system was requested, indicating an existing market need.
- January 2020 Eye-Net Mobile presented the SDK configuration of its Eye-Net™ Protect accident prevention solution for the first time at CES 2020. An SDK configuration indicates commercial engagement readiness and will allow Eye-Net Mobile to integrate its solution with leading location-based applications, such as navigation, ridesharing, parking and fitness applications.

# **Q1 Financial Highlights:**

- Research and development (R&D) expenses for the three months ended March 31, 2020 were \$2,341,000, compared to \$2,070,000 in the three months ended March 31, 2019. The increase is attributed mainly to an increase in payroll and related expenses, offset by a decrease in subcontracted services.
- General and administrative (G&A) expenses for the three months ended March 31, 2020 were \$660,000, compared to \$908,000 in the three months ended March 31, 2019. The decrease is attributed primarily to payroll and related expenses and a decrease in professional services.
- GAAP net loss for the three months ended March 31, 2020 was \$4,049,000, or \$0.026 per ordinary share, compared to a GAAP net loss of \$3,315,000, or \$0.025 per ordinary share, in the first quarter of 2019. The increase is attributed primarily to equity in net loss of an affiliated company.
- Non-GAAP net loss for the three months ended March 31, 2020 was \$3,894,000, or \$0.025 per ordinary share, compared to a non-GAAP net loss of \$3,548,000, or \$0.03 per ordinary share, in the three months ended March 31, 2019.
- A reconciliation between GAAP net loss and non-GAAP net loss is provided in the financial statements that are part of this release. Non-GAAP results exclude the effect of stock-based compensation expenses. Balance Sheet Highlights
- Cash and short-term deposits totaled \$6.8 million as of March 31, 2020, compared to \$10.1 million on December 31, 2019.
- Investments in our affiliated company Rail Vision Ltd. totaled \$5.9 million as of March 31, 2020, compared to \$6.7 million as of December 31, 2019. The decrease is attributed primarily to equity in net loss of Rail Vision's results in first quarter of 2020.
- GAAP and Non GAAP shareholders' equity totaled \$12.4 million as of March 31, 2020, compared to \$16.3 million and \$16.6 million, respectively, as of December 31, 2019.

# **Appendices - Financial Statements**

# FORESIGHT AUTONOMOUS HOLDINGS LTD. INTERIM CONDENSED CONSOLIDATED BALANCE SHEETS U.S. dollars in thousands

	As of March 31, 2020			As of March 31, 2019		As of December 31, 2019	
ASSETS							
Current assets:							
Cash and cash equivalents	\$	2,584	\$	8,954	\$	4,827	
Short term deposits		4,237		10,323		5,233	
Marketable equity securities		66		20		23	
Other investments		-		345		-	
Other receivables		352	_	488	_	613	
Total current assets		7,239		20,130		10,696	
Non-current assets:							
ROU asset		1,225		1,493		1,278	
Investment in affiliate company		5,983		7,478		6,729	
Fixed assets, net		571		756		631	
		7,779		9,727		8,638	
Total assets	\$	15,018	\$	29,857	\$	19,334	
LIABILITIES AND SHAREHOLDERS' EQUITY							
Current liabilities:		4.05		404		400	
Trade payables Operating lease liability	\$	165 391	\$	404 400	5	498 411	
		1,149		1,155		1,130	
Other accounts payables Total current liabilities	_	1,705	-	1,959	-	2,039	
		2,.00		-,		_,	
Non-current liabilities:		010		4 400		1.007	
Operating lease liability		919		1,189		1,007	
Total liabilities	_	2,624	_	3,148	_	3,046	
Shareholders' equity:							
Common stock of NIS 0 par value;							
Additional paid-in capital		65,836		63,978		65,681	
Accumulated deficit		(53,442)		(37,269)		(49,393)	
Total shareholders' equity		12,394		26,709		16,288	
			_				
Total liabilities and shareholders' equity	\$	15,018	\$	28,857	\$_	19,334	

# $\frac{FORESIGHT\ AUTONOMOUS\ HOLDINGS\ LTD.}{INTERIM\ CONDENSED\ CONSOLIDATED\ STATEMENTS\ OF\ COMPREHENSIVE}{LOSS}$

U.S. dollars in thousands

	Three months ended March 31,				
	2020			2019	
Research and development expenses, net	\$	(2,341)	\$	(2,070)	
Marketing and sales		(433)		(598)	
General and administrative expenses		(660)		(908)	
Operating loss		(3,434)		(3,576)	
Equity in net loss of an affiliated company		(746)		(90)	
Financing income, net		131		351	
Net loss	\$	(4,049)	\$	(3,315)	

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Credit to experts: Chen Yakar

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