Safe Harbor

Before we begin let me remind everyone that during the presentation, we may refer to GAAP and non-GAAP measures. Today's discussion also contains forward-looking statements based on the environment as we currently see it; and as such, does include risks and uncertainties. Please refer to our press release and business update presentation for more information on the specific risk factors that could cause actual results to differ materially, as well as a reconciliation of GAAP to non-GAAP measures.

Austin Russell

Founder and CEO



~1.3 million

annual fatalities from vehicle collisions globally

lin 100 of us

Will tragically lose our life in a car accident



50 million

injuries from vehicle collisions globally

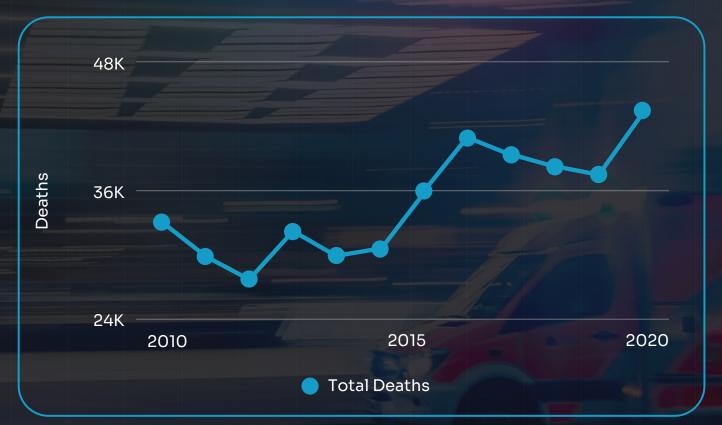
Collisions

average number of accidents over the life of US drivers



Paid Annually to Auto Insurance Companies By '27

US Annual Vehicle Fatalities, Past Decade





Vehicles with current camera and radar-based ADAS systems experienced collisions in

70%

of pedestrian AEB scenarios.

We need a

step-change
in ADAS technology
to make a true impact
and save lives.



Democratizing Safety

Autonomous Vehicles: What Happened? Stuck in R&D; Trying to Replace the Driver

















Next-Generation Safety and Autonomy



Luminar is enhancing, not replacing, the driver.













Create the world's best lidar for production cars and trucks

Launch and enable the safest and most advanced cars/trucks on the road, starting with high-end models

Launch and enable Proactive
Safety™ & highway autonomy
on mainstream models

Democratize advanced safety for all, while monetizing upgrades for autonomy, software, and services



Luminar Now Planned Into

20+

Production Vehicle Models¹



Uniquely positioned to deliver real revenue, scalable profits, and exponential growth from its multi-billion order book over the nearterm and long-term

Expecting Triple-Digit Revenue Growth Every Year for the next 5 years (32X)



Industrialization at Global Scale

UNITED STATES

Palo Alto, CA Software & Al

Orlando, FL Hardware Engineering,

R&D, Manufacturing

Santa Barbara, CA High Performance Lasers

Detroit, MI

Business Development Program Management

Colorado Springs, CO Processing Chip Design

Washington, DC Government Affairs

Boston, MA Receiver Chip

SWEDEN

Business Development Program Support Customer Integration

GERMANY

Autonomy Software, Customer Integration Program Management

ISRAEL

Business Development

JAPAN

Business Development, Program Management Customer Integration

CHINA

Business Development, Program Management Customer Integration

THAILAND

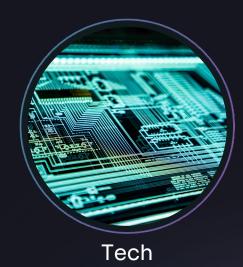
Transceiver Assembly

MEXICO

Monterrey

High-Volume Highly **Automated Production** Facility







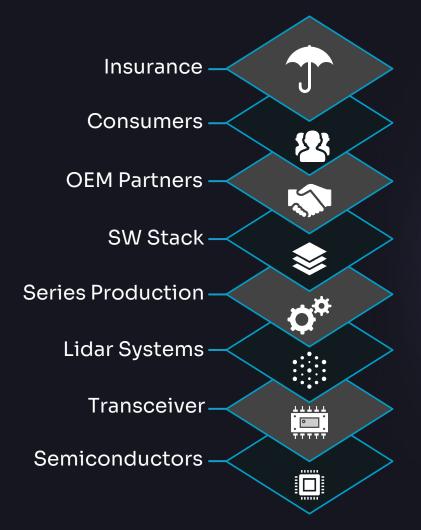
Automotive



TO LUMINAL







End-To-**End** Vertical Ecosystem



Monetizing the Ecosystem



Swiss Re

What's on the table?



~\$1,750 / yr

Average cost of Auto insurance in US:

>\$20,000

Total Cost of Auto Insurance over Average 12-yr Vehicle Lifespan



Our Guest Speakers

A word from...







Jim Rowan **CEO & President**





Alexandr Wang CEO



Markus Schäfer CTO & Board of Mgmt



Swiss Re



Russell Higginbotham CEO, Swiss Re Solutions





Thomas Ingeniath CEO





Ziyu Shen CEO

DAIMLER Daimler Truck



Martin Daum CEO





James Peng CEO





Gary Hicok SVP, Automotive





Tetsuya lijima GM AD/ADAS







DAIMLER TRUCK















Iris+



3X

Performance

(Range X Resolution)

20%

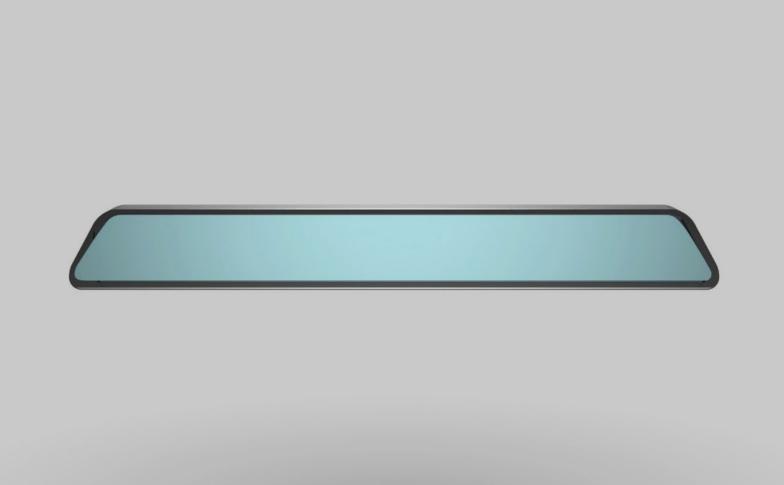
Slimmer Profile

Safety

from cities to the Autobahn

Millions

Of Iris+ Equipped Vehicles by 2027











Aaron Jefferson

Vice President of Product





Consumer Vehicles

Trucking

Robo-Taxi

Adjacent Markets











Sentinel™

Software platform for automotive series production enabling Proactive Safety™ and Highway Autonomy

HD Maps

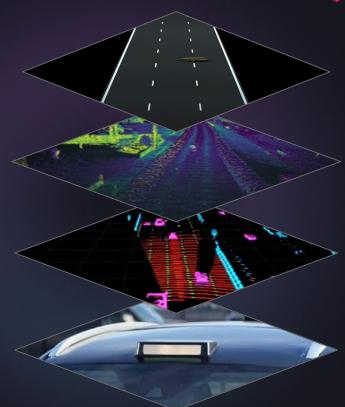
Light-weight, highly accurate, automatically updating high definition 3D maps

Perception

Perception and localization software purpose-built to unlock the full capabilities of Luminar's Iris lidar

Iris

Only long-range, 1550nm lidar meeting OEM specs for advanced safety & autonomy



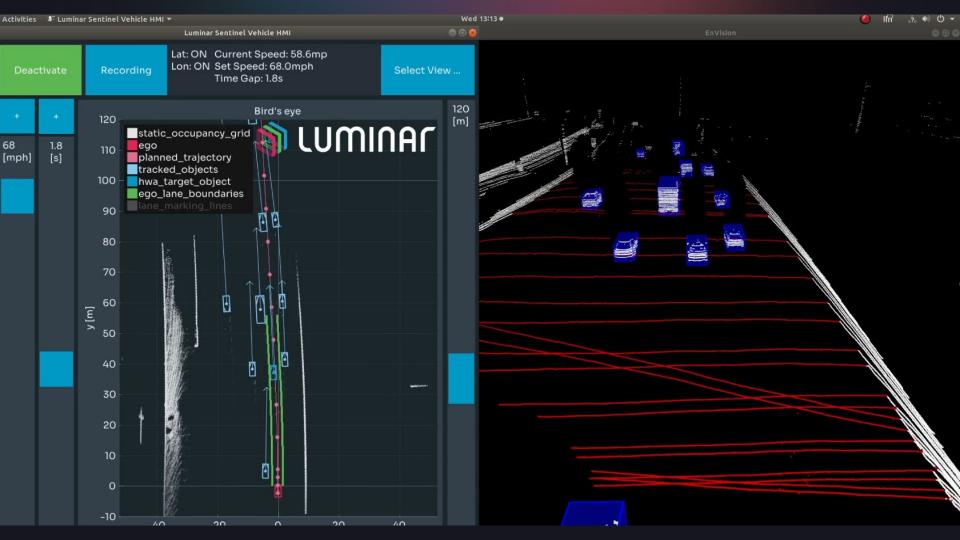




Enabling Proactive Safety™ and Highway Autonomy









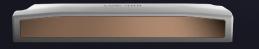
HD Maps





Our Lidar Roadmap





Manual L.

Iris

Iris+

Next Gen *Advanced development*

SOP 2022

SOP 2025

Future





1st automotive grade 3D lidar for global markets

1st to enable high speed highway autonomy

Pioneered roofline integration, emphasizing functional optimization





Detection of small objects at up to 40% further distance enables safe and comfortable autonomy

20% slimmer profile

Designed for higher volume production capacity





Next Gen Lidar

Advanced Development

Enabling Broad Adoption:

- Drive value through cost-down and performance-up
- Enable vehicle design through size reduction
- One step closer to net-zero cost of ownership

Dr. Matthew Weed

Senior Director of Product







Future Proof the Vehicle



Enabling Broad Lidar Adoption

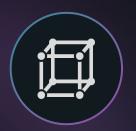


Future Proofing the Vehicle





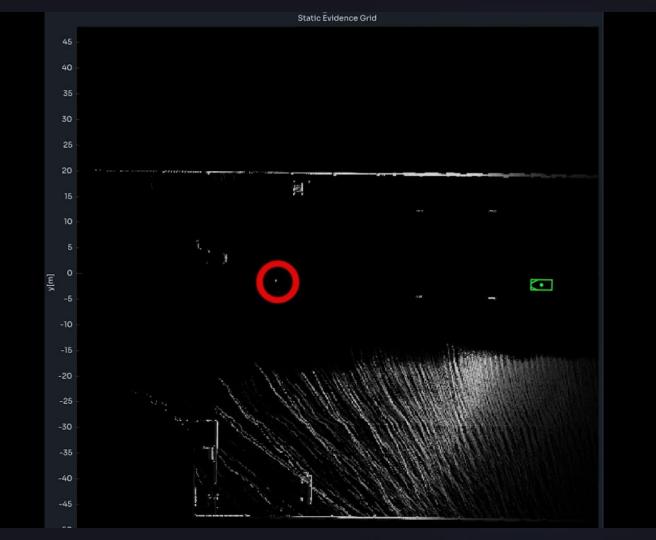
Object Detection & Tracking



Collision Threat Assessment



Enabled Everywhere,
All the Time & In All Conditions





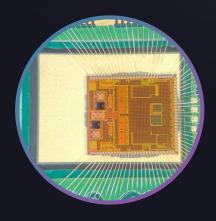








Enabling Broad Lidar Adoption



Lidar Chip Components



Lidar Hardware Integration



Software & Al Development

Software Components



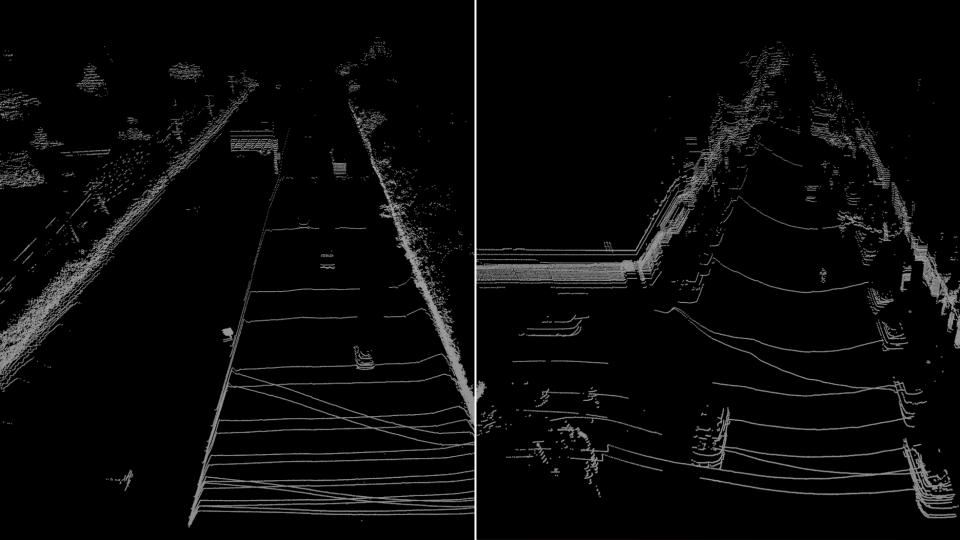


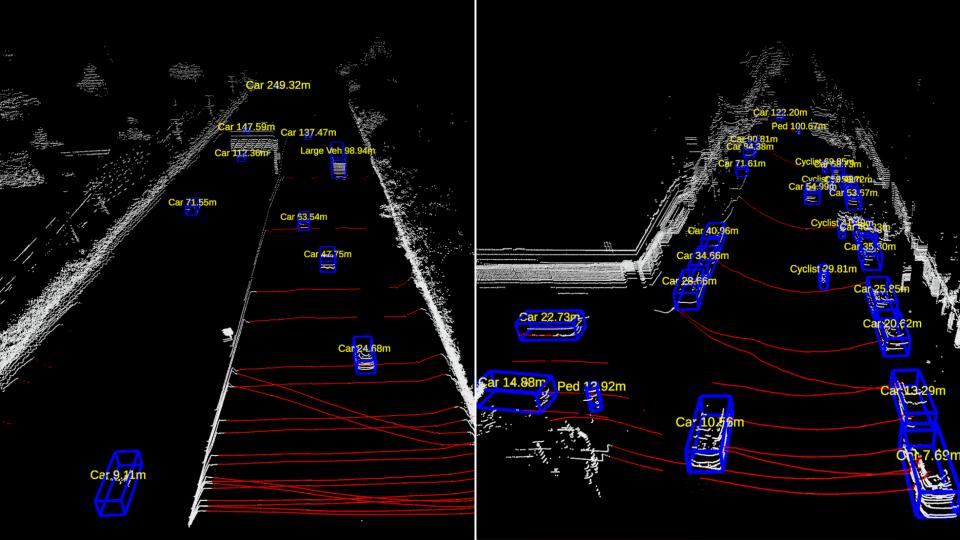


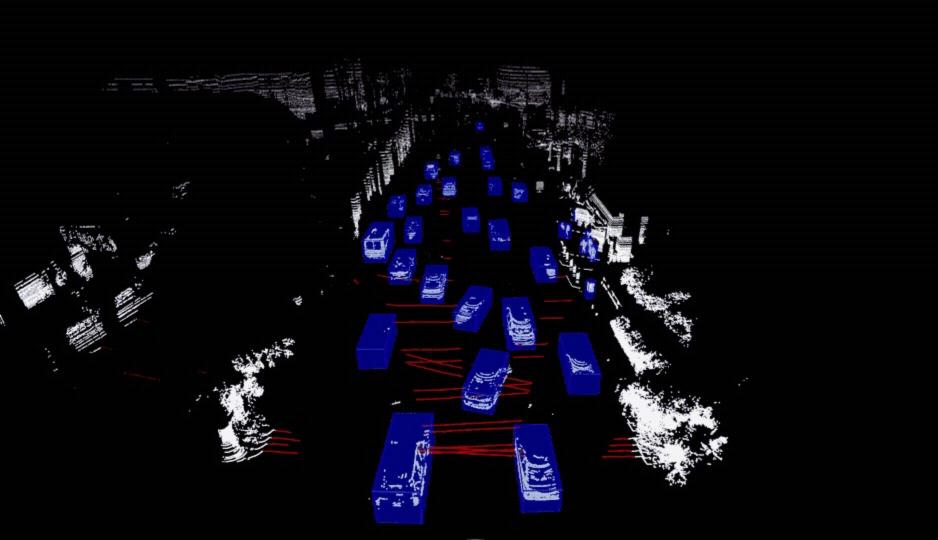
Luminar Al Engine

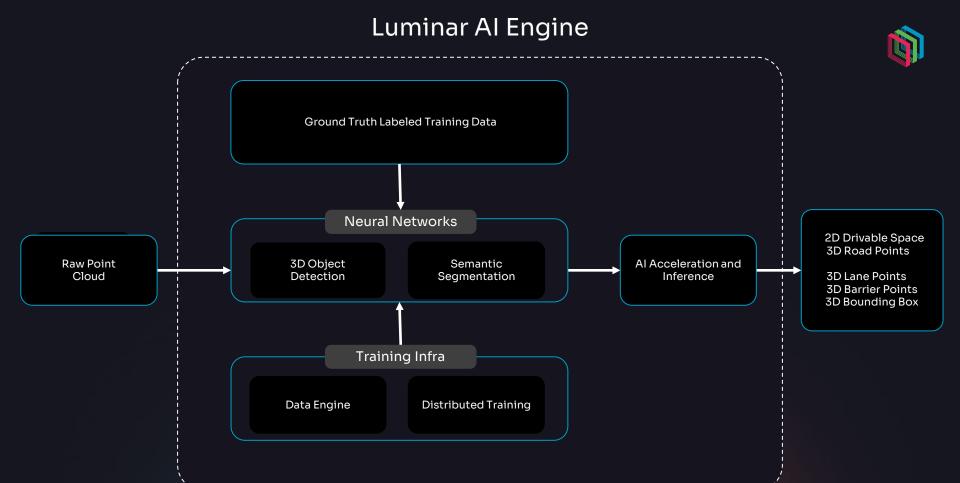
Annie Guan Director of Al and ML

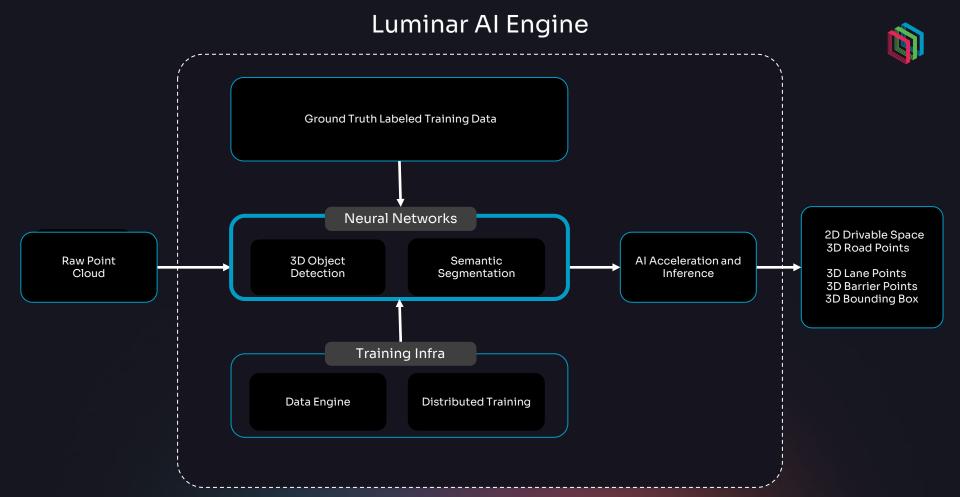






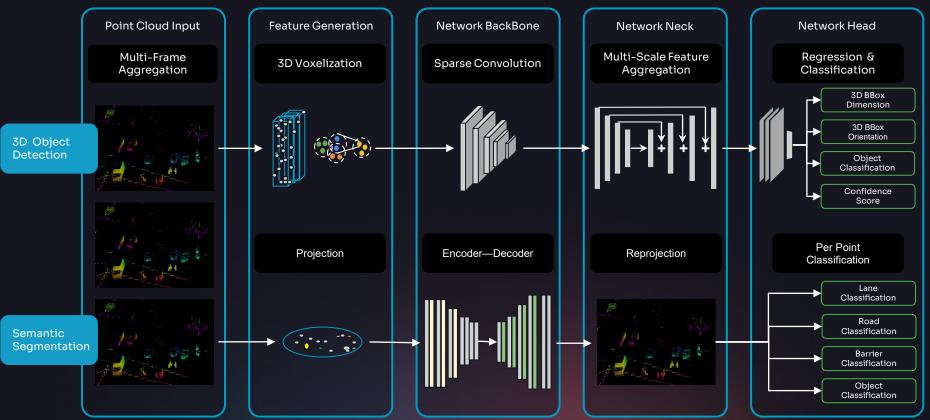


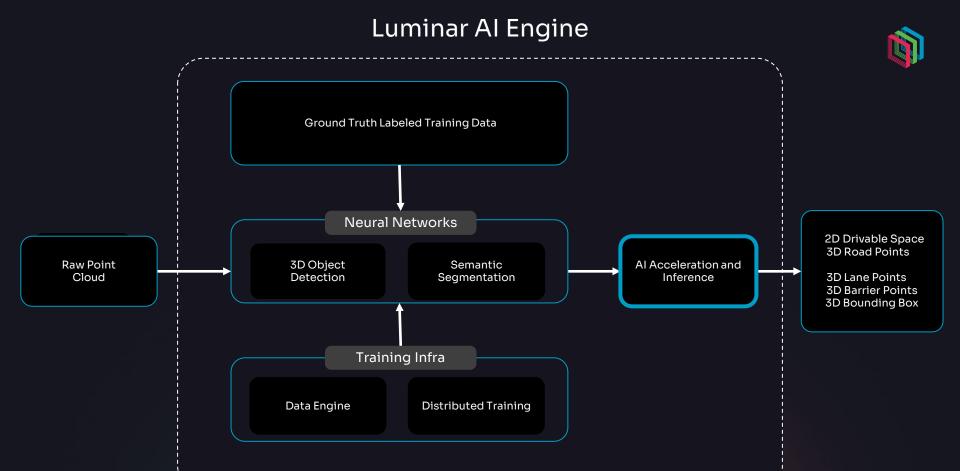




Neural Networks







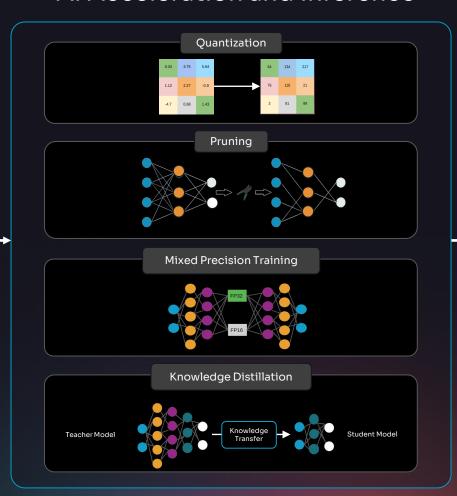
Al Acceleration and Inference



Goal: Optimize for inference speed with little accuracy drop

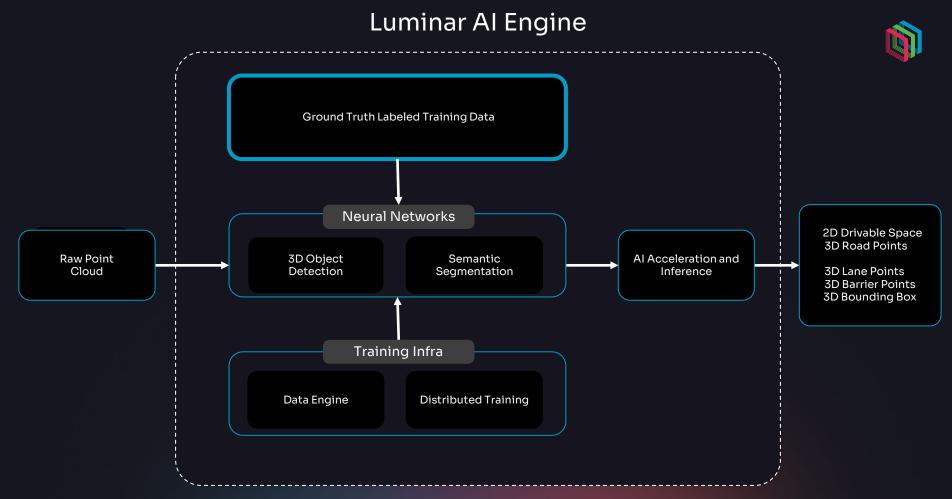
3D Object Detection

Semantic Segmentation



FP16, INT8 SoC

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Ground Truth Labeled Training Data



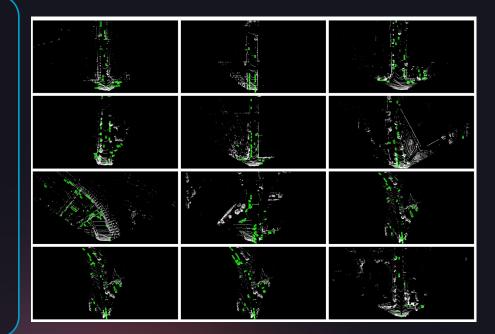
scale





Targeted Updates and Redos







Alexandr Wang

Founder and CEO Scale.ai



SCOE



Dr. Jason Eichenholz

Co-Founder and CTO





Detector Laser Ultra low noise, high Proprietary hybridized sensitivity, unlocked long low-cost 1550nm laser range & economics

Scanner

Dynamic scanning with low-mass, auto-grade mirrors

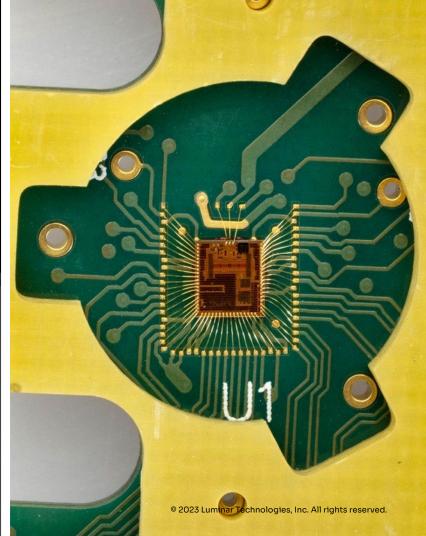




Processor

5th major generation Luminar ICs, designed from scratch in-house









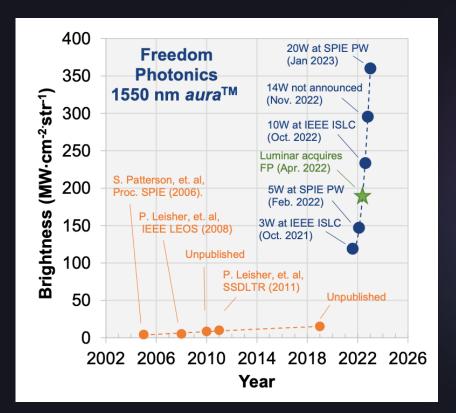














World-Record Laser Performance

Freedom Photonics aura[™] provides a disruptive leap in semiconductor laser amplifiers



Luminar Semiconductor









Mike McAuliffe

CEO, Luminar Semiconductor



Luminar Semiconductor

Builds breakthrough photonics and opto-electronic engines

Enables industry-leading customers to solve impactful problems for our world

Enables Luminar to fulfill its mission

Our Photons to Decisions technology stack

Leveraging into new markets





Common Platforms Drive Scale

Industrialization

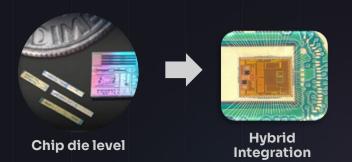
Common Needs - Hardest photon generation, detection and processing problems

Leverage scale across markets

We solve 1550 - Architecture, Packaging & Scale

Shift gears to @ Scale @ Auto Quality

Miniaturization





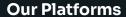
OptoElectronic Engines



Photonic Integrated Circuits

We win through Technology, Team and Focus





Indium Gallium Arsenide (InGaAS)

Silicon Germanium (SiGe)

Silicon CMOS

Indium Phosphide (InP)

Gallium Arsenide (GaAs)

Silicon Photonics Silicon Nitride (SiN) Our Team

> 85% Engineers

> 35% PhD, M.Eng

Laser

ASIC

Receiver

Leading Ecosystem of Fab, Packaging & Test partners

Market Opportunity TAM > \$50B





Optical Communications
Datacom/Telecom



Aerospace



Precision Manufacturing



Life Sciences



Emerging - Quantum, Optical Sensing



3D Vision Non-Auto Lidar

Market Pull from Industry Leaders

> 60 current programs > 500K product units shipped



Optical I/O Al Datacenter



Free Space Optics Communications



Broadband Fiber 5G; GPON; FTTx



Optical Sensing & Quantum



AeroSpace



Industry Landscape Shifting Gears

Photonics @ inflection

Industrializing
Opto-electronics
Supply Chain

Aura + Full stack
Our Beachhead
Opportunity

Building Stack = our Moat

Luminar Semiconductor

Drive productization, scaling and chip-level roadmap for Luminar

Build foundations
Build beachheads

Build. Disrupt. Deliver. Scale.



Taner Ozcelik

Executive Vice President and General Manager







Innovation & Velocity



Built to Scale



Elegant Architecture



Automotive Grade



Automotive & Tech Talent

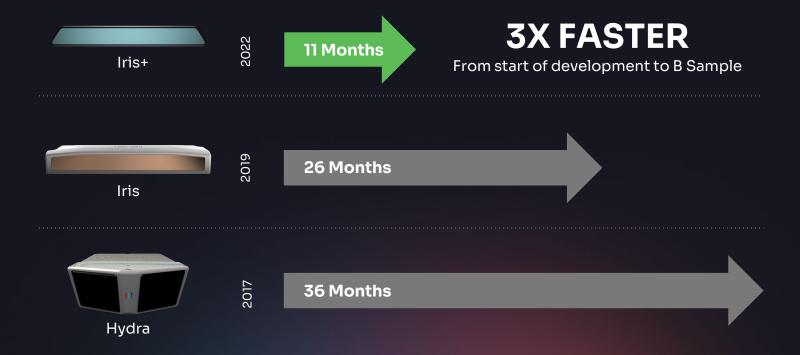


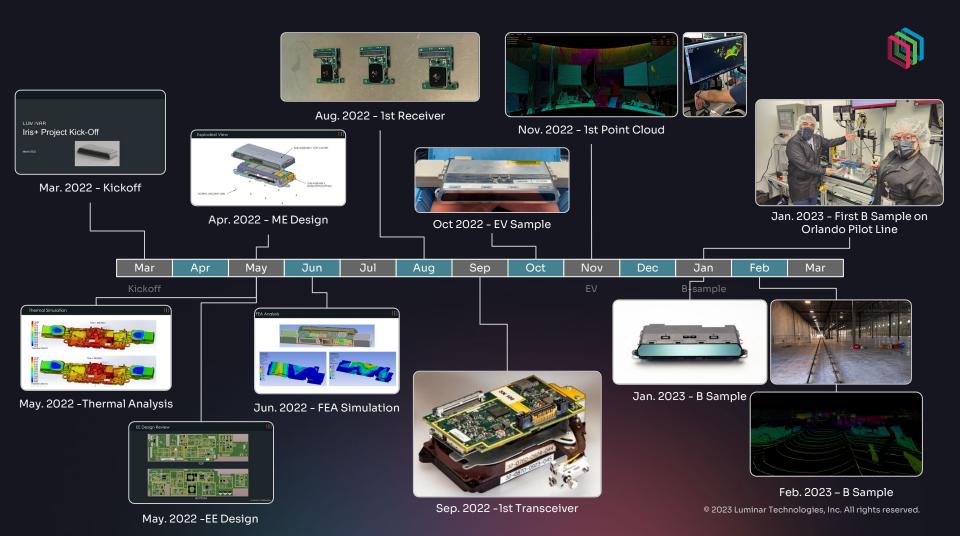


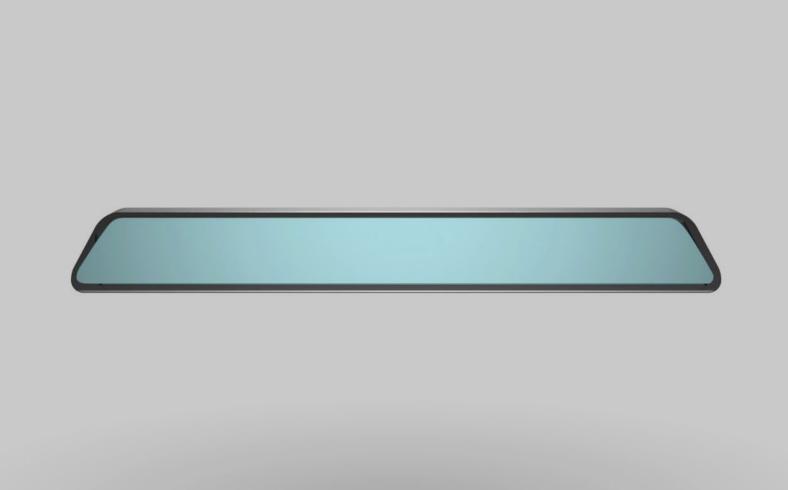
Not only have we proven we can deliver, we are gaining velocity

Improved Innovation Velocity with Each Generation









Expanding Our Next-Gen Lidar Development Team









Excellent alignment of Technology and Manufacturing 80% leverage between hard disk drives and lidar





Built to Scale

Platformization & Design for Manufacturing at Scale

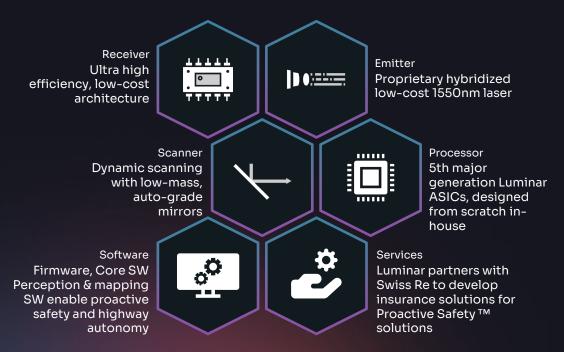
Platform Architecture



ARCHITECTURE DELIVERS PERFORMANCE



MODULAR SUB-SYSTEMS







Iris









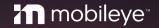












Qualcomm



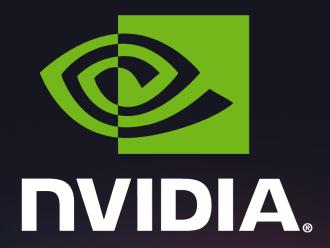
Platform Partnerships















Driving high performance and efficiency

World Class Innovation Ingredients



Internally Developed Externally Sourced













LUMINAC

Laser Assembly

Seed Laser

APD

Detector

Processor

Receiver ASIC Laser ASIC

FPGA

Software Stack

Firmware

Core SW

Perception SW

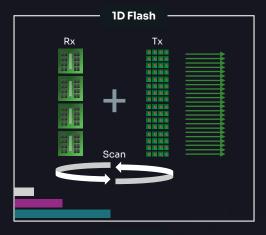
Path Planning & Control

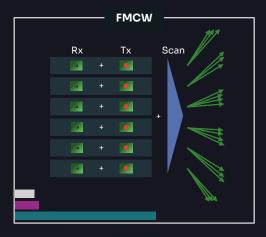
Scanner

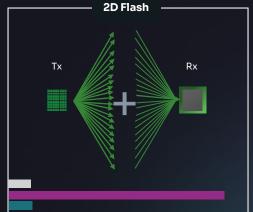
Scanning System

Elegance = Simplicity x Capability

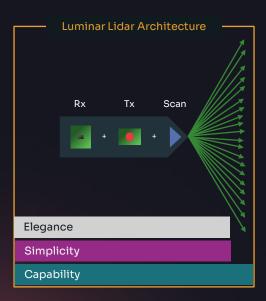
















Reliability and Robustness are Paramount for Automotive

What it Means to be Automotive Grade



Success in the automotive industry requires not just great product performance, but a complete understanding of the automotive industry and associated processes & qualifications

PRODUCT PHASES	COMPONENT INNOVATION Enabling Core Technology	COMPONENT SOURCING Vertical Integration	LIDAR DEVELOPMENT System level	SPEC VALIDATION Qualification of performance	INDUSTRIALIZATION B, C and D sample	SERIES PRODUCTION Scaling global Production
	PHOTONICS Optogration Black Forest	SEAGATE SEAGATE				Celestica fabrinet
	DFM	AEC Q100	PDP	QMS	PPAP	MFG SCALE
	DFT	Scale	DFMEA	DV	PFMEA	WARRANTY
	Packaging	Cost Analysis	DFM	PV	APQP	RMA
	AEC Q100		DFT	Long-Range Tests		
			ISO 26262			
			ASPICE			





Debbie Poppas

Vice President Quality and Industrialization



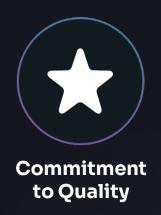






Leading the industry to raise the bar for safety and autonomy with standards organizations





Quality throughout our business and supply chain





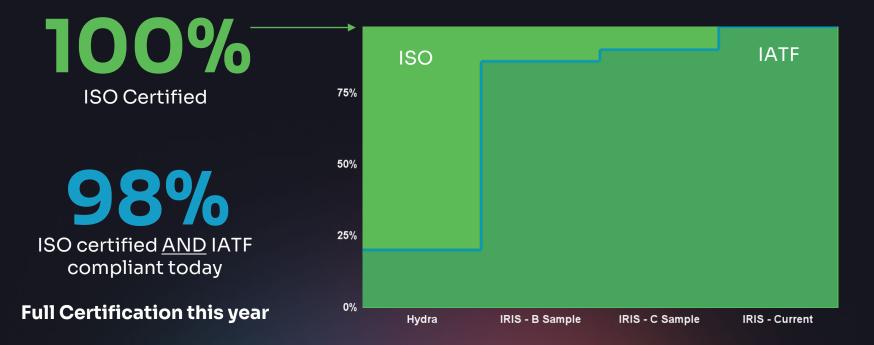
Embracing zero defect strategies as a mindset

Supplier Partnership Model Investment Quality Product & Process Innovation Leadership Global capabilities, Long-Term Highest local support Partnerships **Delivered Value**







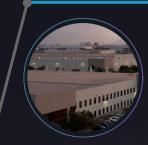






Exponential Scale

Luminar Dedicated w/ Mfg Partners: Building new highly-automated, highvolume dedicated facility in Mexico; initial line adds build capacity





IRIS SOP FOR SAIC'S RISING AUTO R7

Series Production (SOP)

Celestica & Fabrinet:

Series production launch w/ mfg partners in Monterrey, Mexico and Thailand



Advanced Manufacturing

Orlando + Minneapolis Manufacturing R&D and Pilot Lines

2016-18 2019 2020 2021 2022 2023 2024 2025 +

Jeff Jaisle

Vice President, Manufacturing











250K+

Capacity by end of 2023

Scalable to 500k+





Iris+

Minnesota

Mexico (

Florida

Global manufacturing footprint today, next site planned for Asia

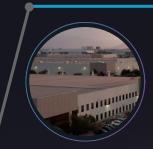
Thailand





Exponential Scale

Luminar Dedicated w/ Mfg Partners: Building new highly-automated, highvolume dedicated facility in Mexico; initial line adds build capacity





IRIS SOP FOR SAIC'S RISING AUTO R7

Series Production (SOP)

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Advanced Manufacturing

Orlando + Minneapolis Manufacturing R&D and Pilot Lines

2016-18 2019 2020 2021 2022 2023 2024 2025 +



Tom Fennimore







Our China Business

Luminar China: Key Actions In 2022



Hired Jackie Chen to lead our business

Shanghai headquarters

Launched with SAIC R7

Established Luminar China legal entity Building out team to service local customers & provide engineering support

Passenger Vehicle Automotive Market in China





~50%

Foreign Brands

~50%

China Brands

Luminar naturally positioned with foreign brands given global OEM relationships

~1/3 of 3.5M

At Price Point > RMB 250k

Our China Strategy





Focused Customer Strategy

Support global customers in China

Local EV & technology leaders

Commercial trucking



Expand China Footprint

Grow local engineering team

Establish software infrastructure

Asia manufacturing capabilities



Strategic Partners

Pony.ai: autonomous leader

Utilize ECARX strategic partnership to develop local solution for China market

Explore other potential partnerships



CONU. ai





Luminar Insurance Strategy

The Insurance Opportunity Enabled By Luminar



80% of forward collisions fall into three categories



35%
Reaction Time & Unsafe Distance



25% Sudden Objects



20%
Low-Velocity
Collision

Our technology reduces & mitigates these collision scenarios

Luminar: Willing to Bet On Our Technology



Luminar is willing to underwrite expected insurance savings to subsidize the cost of our technology to the consumer and OEM



Average US annual vehicle insurance premium is





Building a **Scalable & Asset Light**Insurance Product & Infrastructure

Forming digital MGA¹ to operate insurance business

Will utilize technology & reputable third party partners

Forming own insurance captive to manage insurance risk



Initial focus is to launch in the US, with goal to scale globally

Goal is to partner with OEM customers to enable scale

Serving passenger vehicle & commercial vehicle markets

Our insurance product is expected to be available to consumers of Luminar-equipped production vehicles in initial geographies in 2024

Our Luminar Insurance Team and Strategic Partner





Luminar's insurance platform construction & launch will be overseen by

Alex Tsetsenekos, who constructed and launched Tesla Insurance



Partnering with

Swiss Re,
a leading global
reinsurance company



Financials, Milestones & Outlook



Met or Exceeded All 4 2022 Milestones



Series Production



Sentinel Progress



60% More Commercial Program Wins



60% Forward-looking Order Book¹ Growth

Q4/FY'22 Summary Results



FY'22 Revenue \$40.7M; Q4 Revenue \$11.1M

Q4 & FY'22 Revenue at lower end of guidance range primarily due to timing of program and service revenue recognition

Q4'22 GAAP EPS loss ~\$0.40; Non-GAAP EPS loss ~\$0.26

Slightly higher loss than expectations as we invested additional capital in industrialization & ongoing software development

Year-end Cash position¹ of \$489M

Q4 Free Cash Flow² of (\$79.5M) lower sequentially from Q3 (\$52.5M) driven primarily by operating loss from industrialization & ongoing software development

2023 Milestones & Financial Guidance



Top 3 Business Milestones for 2023



Scale

High Volume, Automated Mexico Facility Online & Meets Volvo SOP Requirements



Technology & Product Roadmap

Enter Iris+ C-phase

Next-Gen LiDAR Prototype

Software Completed for Volvo & Mercedes SOP



Growth

Grow Order Book¹ by at least \$1 Billion

2023 Financial Guidance

>2x FY'22

2023 Revenue

Gross Margin

Positive by Q4'23

>\$300M

2023 Year-End Cash / Liquidity

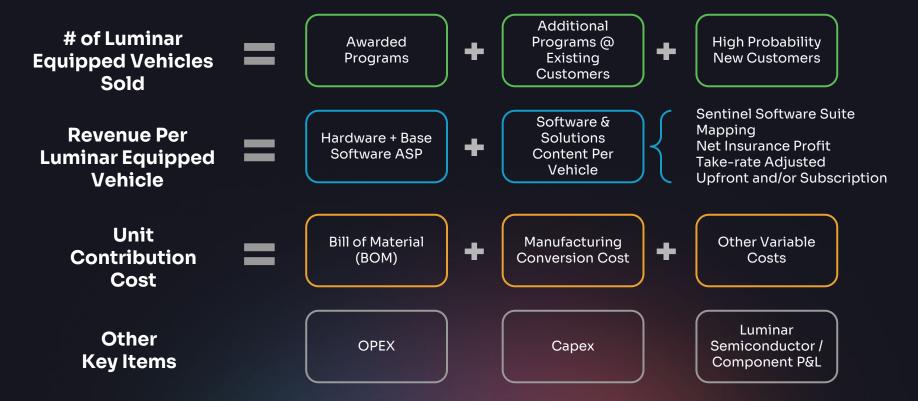
Forward Looking Order Book¹ Update





Key Building Blocks of Our Long-Term Model





Exponential Scale: Run-Rate of Luminar-equipped Vehicles



Annual Run-rate of Luminar-equipped Vehicles Sold



Additional Programs @ Existing Customers

Awarded Programs

2026/27

>70%

Implied Revenue Run-Rate:

Target Timing:

\$1 Billion

Key Milestones to Achieve:

Launch Mercedes & Nissan Ramp Volvo & Polestar

5+ Million

High Probability New Customer Programs

>75%

Existing Customers: Awarded Programs + Additional Programs

2030

\$5+ Billion

Scale with Existing Customers
Win Incremental Target Customers

Luminar Unit Economics Roadmap



	2025 Target	2030 Target	
Revenue Per Luminar Equipped Vehicle Sold ¹	~\$1,000	~\$1,000 (Take-rate Adjusted)	
		Software & Solutions ²	
Revenue Composition	Primarily Hardware and Base Software ASP	Hardware and Base Software ASP	
Unit Contribution Cost ²	~\$650	~\$350	
Primary Sensor	Iris Family	Next-gen LiDAR	

Scalable OPEX & Capex



Opex Capex¹ \$221M S&M Target ~50% reduction in 2023 G&A Target ~20% growth in 2023 Expect \$15-20M capex \$50M1 investment for new Asia Expect 2024 roughly facility, primarily in 2024 flat Afterwards, each 1m unit of R&D Longer-term annual incremental capacity would growth of 10-20% cost ~\$10M in incremental capex 2022 2022

Non-GAAP OpEx

Profitability Roadmap



Sufficient Cash on hand (plus cushion) to reach profitability



^{1.}Core Business Break-Even refers to the target of reaching operating profit break-even for our core Lidar hardware and component businesses and excludes investments in software, insurance and our future product roadmap

Our M&A Strategy



Be positioned to act opportunistically in current environment

Strong strategic fit

Software & Solutions
Vertical integration
R&D acceleration
Acqui-hires
Strategic partnership investments

Focus on small/mid-sized deals

Primarily use stock as acquisition currency

Will file equity registration statements only for M&A & Strategic partnerships for opportunistic flexibility

M&A Deals Last 2 Years

Optogration

Vertical

Integration

Freedom Photonics

Vertical Integration

Civil Maps

Software & Solutions

Seagate Lidar

R&D acceleration

Concluding Remarks



Customers Wins in-place to Exponentially Scale Sensor & Revenue Growth

Credible path to 100k+, 1M and 5M production run-rate; expected to at least double revenue each year for the next several years; \$5bn+ 2030 revenue target

Credible Path to Profitability

2023YE: Gross Margin Profitable; 2024YE: Core Business Break-even; 2025YE Company Break-even

Investing in Product Roadmap to Drive Growth, Addtl Content & Margins

Next generation sensor plus software, solutions, and ecosystem products enable massmarket penetration and higher margins

Team in-place & Cash on-hand to Succeed

Luminar has the team today + sufficient cash (and a cushion) reach profitability and execute our business plan



DISCLAIMER AND CAUTIONARY NOTE



FORWARD-LOOKING STATEMENTS

This presentation of Luminar Technologies, Inc. ("Luminar" or the "Company") includes "forward-looking statements" within the meaning of the "safe harboy," provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements may be identified by the use of words such as "future," "growth," "opportunity," "well-positioned," "forecast," "intend," "seek," "target," "santicipate," "expect," "espect," "expect," "espect," "espe

A number of factors could cause actual results or outcomes to differ materially from those indicated by such forward-looking statements. These factors include, but are not limited to: Luminar's history of losses, significant continuing expenses and limited operating history; the cost of Luminar's strategic initiatives and the potential failure to increase revenue to offset these initiatives; whether Luminar's lidar products are selected for inclusion in autonomous driving or ADAS systems by automotive OEMs or their suppliers, and whether Luminar will be de-selected by any customers; the lengthy period of time from a major commercial win, to implementation and the risks of cancellation or postponement of the contract or unsuccessful implementation; potential inaccuracies in Luminar's forward looking estimates of certain metrics and future cost of goods sold (COGS) and bill of materials (BOM) and total addressable market; the discontinuation, lack of success of Luminar's customers in developing and commercializing products using Luminar's solutions: Luminar's inability to reduce and control the cost of the inputs on which Luminar relies; the effect of continued pricing pressures, competition from other lidar manufacturers, automotive original equipment manufacturers ("OEMs") cost reduction initiatives and the ability of automotive OEMs to re-source or cancel vehicle or technology programs; general economic uncertainty and the effect of general economic conditions on Luminar's industry in particular, including the level of demand and financial performance of the autonomous vehicle industry and market adoption of lidar as well as developments in alternative technology and the increasingly competitive environment in which Luminar operates; Luminar's ability to manage its growth and expand its business operations effectively, including into international markets, such as China, which exposes Luminar to operational, financial and regulatory risks; adverse impacts due to limited availability and quality of materials, supplies, and capital equipment, or dependency on third-party service providers; whether Luminar will be able to successfully transition its engineering designs into high volume manufacturing, including the Company's ability to transition to an outsourced manufacturing business model and whether the Company and its outsourcing partners and suppliers can successfully operate complex machinery; whether Luminar can successfully select, execute or integrate its acquisitions; whether the complexity of Luminar's products results in undetected defects and reliability issues which could reduce market adoption of its new products, limit its ability to manufacture, damage its reputation and expose it to product liability, warranty and other claims: Luminar's ability to maintain and adequately manage its inventory; Luminar's ability to remediate the material weakness in its internal controls over financial reporting; Luminar's ability to protect and enforce its intellectual property rights; changes in personnel and availability of qualified personnel and dependence on Austin Russell, Luminar's Founder, President and Chief Executive Officer; the amount and timing of future sales and whether the average selling prices of Luminar's products could decrease rapidly over the life of the product as well as dependence on key customers, who are often large corporations with substantial negotiating power; the effects of the ongoing coronavirus (COVID-19) pandemic or other infectious diseases, health epidemics, pandemics, or natural disasters on Luminar's business; interruption or failure of Luminar's information technology and communications systems and cybersecurity risks to operational systems, security systems, infrastructure, integrated software in its lidar solutions; strict government regulation that is subject to amendment, repeal or new interpretation and Luminar's ability to comply with modified or new laws and regulations applying to its business; whether the concentration of Luminar's stock ownership and voting power limits the ability of its stockholders to influence corporate matters; and risks related to Luminar's indebtedness; and other risks and uncertainties discussed from time to time in the Company's periodic reports on Form 10-K or Form 10-O filed with the Securities and Exchange Commission (the "SEC"), including in the "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of such reports, as well as other documents filed or to be filed with the SEC. There may be additional risks that Luminar presently knows or that Luminar currently believes are immaterial that could also cause actual results to differ from those contained in the forward-looking statements.

You are cautioned not to place undue reliance upon any forward-looking statements, including the projections, which speak only as of the date made. Luminar does not undertake any commitment to update or revise the forward-looking statements, whether as a result of new information, future events or otherwise.

Accordingly, forward-looking statements, including any projections or analysis, should not be viewed as factual and should not be relied upon as an accurate prediction of future results. The forward-looking statements contained in this presentation are based on the Company's current expectations and beliefs concerning future developments and their potential effects on Luminar. These forward-looking statements involve a number of risks, uncertainties (some of which are beyond our control), or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements.

Should one or more of these risks or uncertainties materialize, or should any of management's assumptions prove incorrect, actual results may vary in material respects from those projected in these forward-looking statements. Luminar does not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required under applicable securities laws. Accordingly, you should not put undue reliance on these statements.

DISCLAIMER AND CAUTIONARY NOTE



USE OF PROJECTIONS

This presentation contains financial forecasts with respect to certain financial measurements of Luminar, including, but not limited to Luminar's projected Revenue, free cash flow, year end cash, and order book. Such projected financial information constitutes forward-looking information, and is for illustrative purposes only and should not be relied upon as necessarily being indicative of future results. Luminar's independent registered public accounting firm did not audit, review, compile, or perform any procedures with respect to the projections for the purpose of their inclusion in this presentation, and accordingly, it did not express an opinion or provide any other form of assurance with respect thereto for the purpose of this presentation. These projections should not be relied upon as being necessarily indicative of future results. Luminar does not undertake any commitment to update or revise the projections, whether as a result of new information, future events or otherwise.

In this presentation, certain of the above-mentioned projected information has been repeated (in each case, with an indication that the information is an estimate and is subject to the qualifications presented herein), for purposes of providing comparisons with historical data. The assumptions and estimates, including Order Book numbers underlying the prospective financial information are inherently uncertain and are subject to a wide variety of significant business, economic and competitive risks and uncertainties that could cause actual results to differ materially from those contained in the prospective financial information. See "Forward-Looking Statements" paragraph above. Accordingly, there can be no assurance that the prospective results are indicative of the future performance of Luminar or that actual results will not differ materially from those presented in the prospective financial information of the prospective financial information in this presentation should not be regarded as a representation by any person that the results contained in the prospective financial information will be achieved.

INDUSTRY AND MARKET DATA

In this presentation, Luminar relies on and refers to information and statistics regarding the sectors in which Luminar competes and other industry data. Luminar obtained this information and statistics from third-party sources, including reports by market research firms. Although Luminar believes these sources are reliable, the Company has not independently verified the information and does not guarantee its accuracy and completeness. Luminar has supplemented this information where necessary with information from discussions with Luminar customers and Luminar's own internal estimates, taking into account publicly available information about other industry participants and Luminar's management's best view as to information that is not publicly available.

USE OF NON-GAAP FINANCIAL MEASURES

The financial information and data contained in this presentation is unaudited and does not conform to Regulation S-X promulgated under the Securities Act of 1933, as amended. Accordingly, such information and data may not be included in, may be adjusted in or may be presented differently in, any filing Luminar makes with the SEC.

In addition to disclosing financial measures prepared in accordance with U.S. generally accepted accounting principles (GAAP), this presentation contains certain non-GAAP financial measures and certain other metrics. Non-GAAP financial measures and these other metrics do not have any standardized meaning and are therefore unlikely to be comparable to similarly titled measures and metrics presented by other companies. Luminar considers these non-GAAP financial measures and metrics to be important because they provide useful measures of the operating performance of the Company, exclusive of factors that do not directly affect what we consider to be our core operating performance, as well as unusual events. The Company's management uses these measures and metrics to (i) illustrate underlying trends in the Company's business that could otherwise be masked by the effect of income or expenses that are excluded from non-GAAP measures, and (ii) establish budgets and operational goals for managing the Company's business and evaluating its performance. In addition, investors often use similar measures to evaluate the operating performance of a company. Non-GAAP financial measures and metrics are presented only as supplemental information for purposes of understanding the Company's operating results. The non-GAAP financial measures and metrics should not be considered a substitute for financial information presented in accordance with GAAP. This presentation includes non-GAAP financial measures, including non-GAAP net loss and Free Cash Flow. Non-GAAP net loss is defined as GAAP net loss plus stock-based compensation expense, plus amortization of intangible assets, plus legal reserve related to employee matters, plus transaction costs relating to acquisition activities, plus expenses related to registration statement on Form S-3 on behalf of selling stockholders, plus change in fair value of warrant liabilities, plus provision for (benefit from) income taxes. Free Cash Flow is defined as operating cash flow less capital e

TRADEMARKS AND TRADE NAMES

Luminar owns or has rights to various trademarks, service marks and trade names that it uses in connection with the operation of its business. This presentation also contains trademarks, service marks and trade names of third parties, which are the property of their respective owners. The use or display of third parties' trademarks, service marks, trade names or products in this presentation is not intended in, and does not imply, a relationship with Luminar, or an endorsement or sponsorship by or of Luminar. Solely for convenience, the trademarks, service marks and trade names referred to in this presentation may appear without the ", TM or SM symbols, but such references are not intended to indicate, in any way, that Luminar will not assert, to the fullest extent under applicable law, its rights or the right of the applicable licensor in these trademarks, service marks and trade names.

ORDER BOOK DEFINITION



"We use "Order Book" as a metric to measure performance against anticipated achievement of planned key milestones of our business. Order Book is defined as the forward-looking cumulative billings estimate of Luminar's hardware and software products over the lifetime of given vehicle production programs which Luminar's technology is expected to be integrated into or provided for, based primarily on projected / actual contractual pricing terms and our good faith estimates of "take rate" of Luminar's technology on vehicles. "Take rates" are the anticipated percentage of new vehicles to be equipped with Luminar's technology based on a combination of original equipment manufacturer ("OEM") product offering decisions and predicted end consumer purchasing decisions. We include programs in our Order Book when (a) we have obtained a written agreement (e.g. non-binding expression of interest arrangement or an agreement for non-recurring engineering project) or public announcement with a major industry player, and (b) we expect to ultimately be awarded a significant commercial program.

We believe Order Book provides useful information to investors as a supplemental performance metric as our products are currently in a pre-production stage and therefore there are currently no billings or revenues from commercial grade product sales. OEMs customarily place non-cancelable purchase orders with their automotive component suppliers only shortly before or during production. Consequently, we use Order Book to inform investors about the progress of expected adoption of our technologies by OEMs because there is, in our view, no other better metric available at our stage. The Order Book estimate may be impacted by various factors, as described in "Risk Factors" in Item 1A of Part I of our Annual Report on Form 10-K for the fiscal year ended December 31, 2021 and subsequent filings with the Securities and Exchange Commission, including, but not limited to the following:

- (i) None of our customers make contractual commitments to use our lidar sensors and software until all test and validation activities have been completed, they have finalized plans for integrating our systems, have a positive expectation of the market demand for our features, and unrelated to us, have determined that their vehicle is ready for market and there is appropriate consumer demand. Consequently, there is no assurance or guarantee that any of our customers, including any programs which we included in our Order Book estimates will ever complete such testing and validation or enter into a definitive volume production agreement with us or that we will receive any billings or revenues forecasted in connection with such programs.
- (ii) The development cycles of our products with new customers vary widely depending on the application, market, customer and the complexity of the product. In the automotive market, for example, this development cycle can be as long as seven or more years. Variability in development cycles make it difficult to reliably estimate the pricing, volume or timing of purchases of our products by our customers.
- (iii) Customers cancel or postpone implementation of our technology.
- (iv) We may not be able to integrate our technology successfully into a larger system with other sensing modalities.
- (v) The product or vehicle model that is expected to include our lidar products may be unsuccessful, including for reasons unrelated to our technology. These risks and uncertainties may cause our future actual sales to be materially different than that implied by the Order Book metric.

Q4'22 Selected Financials



	Dec 31	Sep 30
(\$M)	2022	2022
Cash and cash equivalents	\$69.6	\$56.1
Marketable securities	<u>\$419.3</u>	<u>\$497.0</u>
Cash, cash equivalents & marketable securities	\$488.9	\$553.1
Total Assets	\$687.3	\$742.5

	Dec	231
(\$M)	2022	2021
Froe each flow (1)	\$(70.5)	\$(56.4)

Three months ended

	Three mor	AAP nths ended c 31	<u>NON-GAAP⁽²⁾</u> Three months ended Dec 31
(\$M)	2022	2021	2022 2021
Revenue	\$11.1	\$12.3	\$11.1 \$12.3
Cost of sales	\$27.7	\$19.8	\$34.1 \$16.2
Gross loss	\$(16.6)	\$(7.5)	\$(23.0) \$(3.9)
Operating expenses	\$124.1	\$63.5	\$71.2 \$39.2

Reconciliation of GAAP to Non-GAAP Actuals



Three months ended Dec 31

		Three mor	iths ended Dec 31
(In Millions)		2022	2021
Revenue		\$11.1	\$12.3
GAAP cost of sales	s	\$27.7	\$19.8
	Stock-based compensation	\$(6.5)	\$3.6
	Amortization of intangibles	\$0.2	\$0.0
Non-GAAP cost o	f sales	\$34.1	\$16.2
Non-GAAP gross	loss	\$(23.0)	\$(3.9)
GAAP operating e	xpenses	\$124.1	\$63.5
	Stock-based compensation	\$51.1	\$24.2
	Amortization of intangibles	\$0.5	\$0.0
	Legal, regulatory filing and M&A transaction expenses	\$1.3	\$ -
Non-GAAP operat	ing expenses	\$71.2	\$39.2

	THE COMMENTS	
(In Millions)	2022	2021
Operating cash flow	\$(74.7)	\$(54.2)
Capex (Incl. advances) ¹	\$(4.8)	\$(2.3)
Free Cash Flow	\$(79.5)	\$(56.4)

FY'22 Selected Financials



\$(154.9)

	<u>GA</u> Twelve mon Dec	ths ended	Twelve m	<u>-GAAP⁽²⁾</u> onths ended ec 31	
(\$M)	2022	2021	2022	2021	
Revenue	\$40.7	\$31.9	\$40.7	\$31.9	
Cost of sales	\$101.0	\$46.1	\$92.7	\$39.7	
Gross loss	\$(60.3)	\$(14.2)	\$(52.0)	\$(7.7)	
Operating expenses	\$382.1	\$200.4	\$220.7	\$126.9	

	D	ec 31
(\$M)	2022	2021

\$(226.3)

Free cash flow (1)

Twelve months ended

Reconciliation of GAAP to Non-GAAP Actuals



Twelve months ended Dec 31

		Twelve mo	nths ended Dec 31
(In Millions)		2022	2021
Revenue		\$40.7	\$31.9
GAAP cost of sales		\$101.0	\$46.1
	Stock-based compensation	\$7.7	\$6.4
	Amortization of intangibles	\$0.6	\$0.0
Non-GAAP cost of	sales	\$92.7	\$39.6
Non-GAAP gross lo	ss	\$(52.0)	\$(7.7)
GAAP operating exp	penses	\$382.1	\$200.4
	Stock-based compensation	\$154.7	\$71.3
	Amortization of intangibles	\$1.6	\$0.2
	Legal, regulatory filing and M&A transaction expenses	\$5.1	\$2.0
Non-GAAP operatir	ng expenses	\$220.7	\$126.9

(In Millions)	2022	2021
Operating cash flow	\$(208.2)	\$(148.4)
Capex (Incl. advances) ¹	\$(18.1)	\$(6.4)
Free Cash Flow	\$(226.3)	\$(154.9)

Reconciliation of GAAP to Non-GAAP Outlook



(In % of Revenue)	Q4'2025F
GAAP Net Loss Margin	Greater than -26%
SBC	25-30%
Amortization of Intangibles	~1%
Non-GAAP Net Profit Margin	Greater than 0%

(In % of Revenue)	2030F
GAAP Operating Margin	25% - 35%
SBC	5-10%
Non-GAAP Operating Margin	35-40%

