



First Quarter 2021 Results

May 13, 2021

Forward looking statements

This presentation contains certain forward-looking statements within the meaning of the federal securities laws. These forward-looking statements generally are identified by the words “believe,” “project,” “expect,” “anticipate,” “estimate,” “intend,” “strategy,” “future,” “opportunity,” “plan,” “may,” “should,” “will,” “would,” “will be,” “will continue,” “will likely result,” and similar expressions. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this press release, including, but not limited to: (i) the ability to maintain the listing of Aeva’s securities on the New York Stock Exchange, (ii) the price of Aeva’s securities, which may be volatile due to a variety of factors, including changes in the competitive and highly regulated industries in which Aeva plans to operate, variations in performance across competitors, changes in laws and regulations affecting Aeva’s business and changes in the combined capital structure, (iii) the ability to implement business plans, forecasts, and other expectations and to identify and realize additional opportunities, (iv) the risk of downturns and the possibility of rapid change in the highly competitive industry in which Aeva operates, (v) the risk that Aeva and its current and future collaborators are unable to successfully develop and commercialize Aeva’s products or services, or experience significant delays in doing so, (vi) the risk that Aeva may never achieve or sustain profitability; (vii) the risk that Aeva will need to raise additional capital to execute its business plan, which may not be available on acceptable terms or at all; (viii) the risk that Aeva experiences difficulties in managing its growth and expanding operations, (ix) the risk that third-party suppliers and manufacturers are not able to fully and timely meet their obligations, (x) the risk of product liability or regulatory lawsuits or proceedings relating to Aeva’s products and services, (xi) the risk that Aeva is unable to secure or protect its intellectual property; and (xii) the effects of the ongoing coronavirus (COVID-19) pandemic or other infectious diseases, health epidemics, pandemics and natural disasters on Aeva’s business. The foregoing list of factors is not exhaustive. You should carefully consider the foregoing factors, and for a further discussion of the material risks and other important factors that could affect our financial results, please refer to our filings with the SEC, including our Form 8-K filed on March 18, 2021, and the risk factors found in the section entitled “Risk Factors - Risks Related to Aeva’s Business and Industry” in the proxy statement/prospectus dated February 12, 2021 filed by Interprivate Acquisition Corp. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Aeva assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise. Aeva does not give any assurance that it will achieve its expectations.

Legal Disclaimer (Cont'd)



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Agenda



First Quarter 2021 Highlights

Company and Technology Overview

Business Updates and 2021 Objectives

First Quarter 2021 Financial Results

First Quarter 2021 Highlights



Successful Public Company Listing and Capital Raise

- Completed business combination with InterPrivate Acquisition Corp.
- Now trading on NYSE under ticker “AEVA”
- Net proceeds of \$513m

Announced Partnerships with Industry Leaders

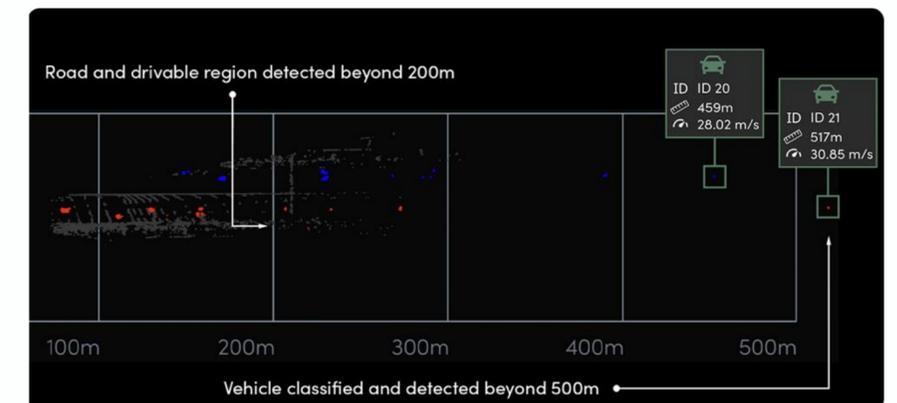
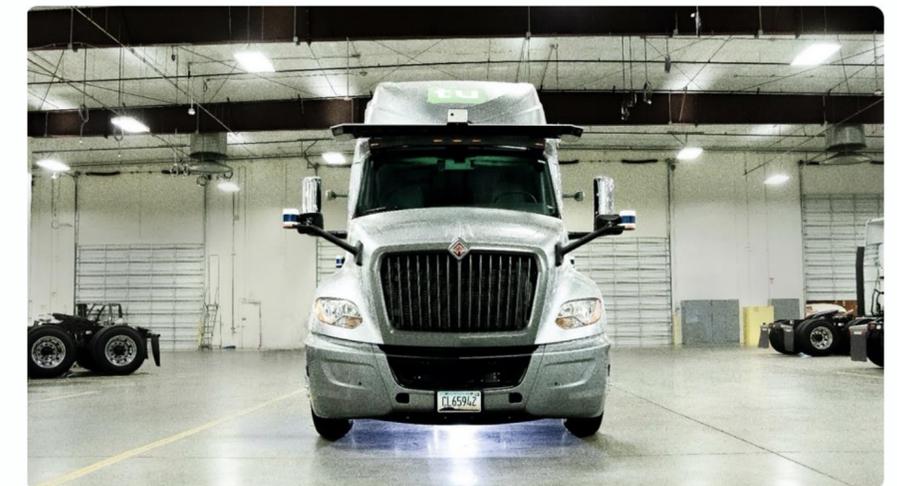
- Collaboration with TuSimple to deploy Aeva’s 4D LiDAR for self-driving trucking
- Collaboration with Tier-1 supplier Denso for consumer vehicle market

Advancing Safety and Performance with Ultra Long Range

- Industry-leading detection range of beyond 500m
- Accomplished on current hardware, highlighting continuous improvements through proprietary FMCW technology and OTA updates

Expanded Leadership Team to Commercialize Aeva’s 4D LiDAR

- Key executive hires with deep expertise in supply chain and advanced technologies
- Formed Advisory Board with veteran executives from Apple and Volkswagen

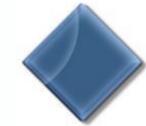


Aeva Leadership



Soroush Salehian
CEO and Co-Founder

- Head of Sensing Program Management at Apple SPG
- Led System Program Management for Apple Watch 1
- Founder at BlueLibris (Acq'd) - wearable health sensing Product
- Stanford Mechatronics



Mina Rezk
CTO and Co-Founder

- Head of Optical Sensing - Apple SPG
- Led World's 1st Commercial Precision LiDAR at Nikon
- 17 years Developing Sensor Fusion Systems for Autos, Aero
- 25+ Patents on sensing technology design and commercialization



Saurabh Sinha
CFO

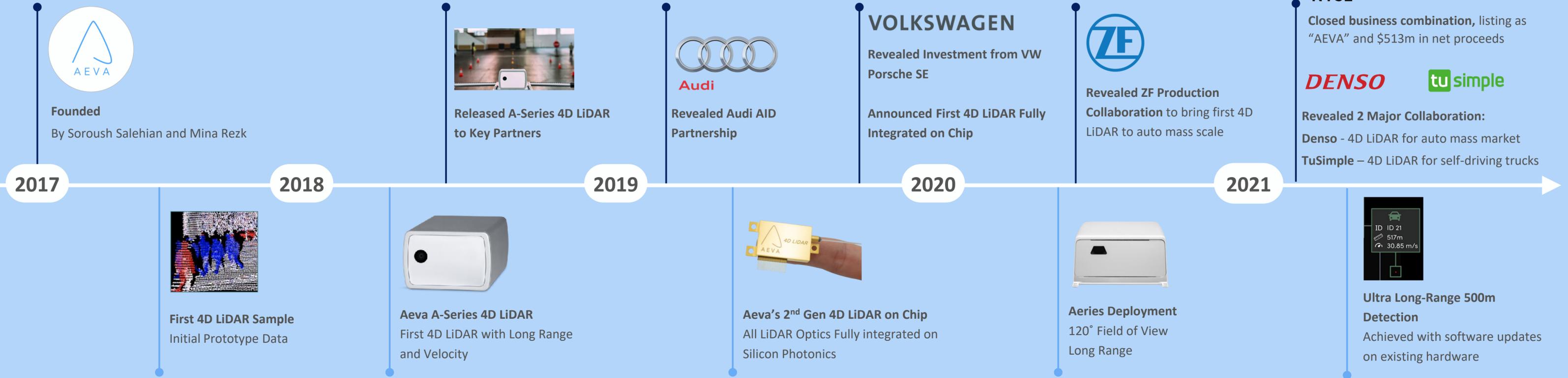
- CFO / SVP & Chief Accounting Officer at JUUL Labs
- Corporate Controller & FP&A at InvenSense
- Sr. Director of Finance and Accounting at Symmetricom
- The Wharton School



Aeva's Rapid Pace of Breakthrough Technology To Market



BUSINESS



TECHNOLOGY

Key Partners and Investors



Aeva's Mission: Bring the Next Wave of Perception for All Devices



Singular Focus to Deliver the Best Perception Solution

- Long-term view on the end-state of technology, not what's available today
- Breakthrough FMCW 4D LiDAR fundamentally changes sensing and perception paradigm

Aligned with Highly Capable and Committed Partners

- Strategic focus on industry leaders with capability to bring best-in-class technology to large scale
- Shared vision to advance new technology to market

4D LiDAR on Chip Enables Scalability at Affordable Cost

- LiDAR on chip integrates all core components on silicon photonics platform
- Built on proven manufacturing processes

Differentiated 4D LiDAR



Aeva is the Only FMCW LiDAR Company Meeting Perception Needs

Aeva 4D LiDAR

FMCW¹ / Coherent Detection



VS

Legacy 3D LiDAR (Time of Flight)

AM / Direct Detection



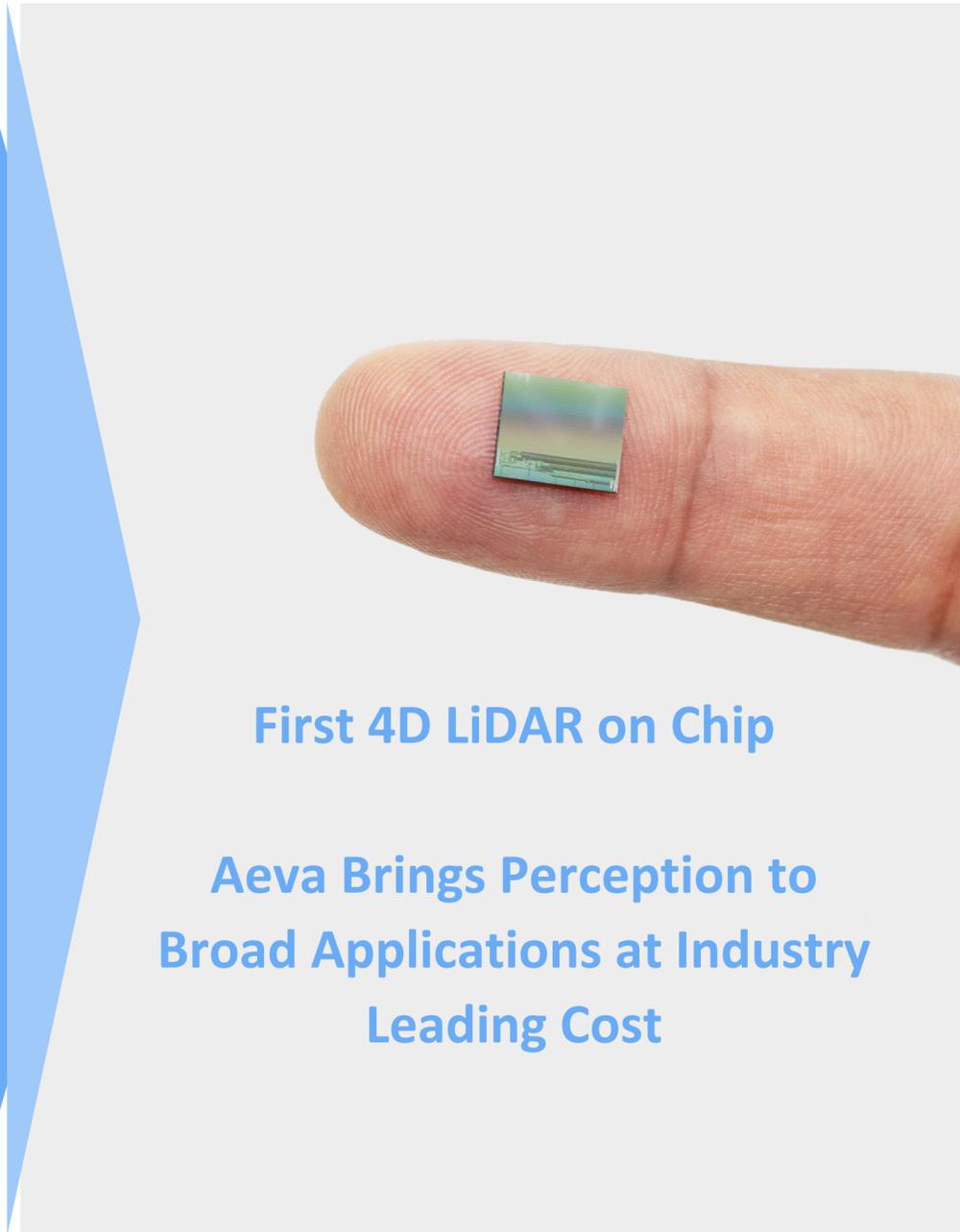
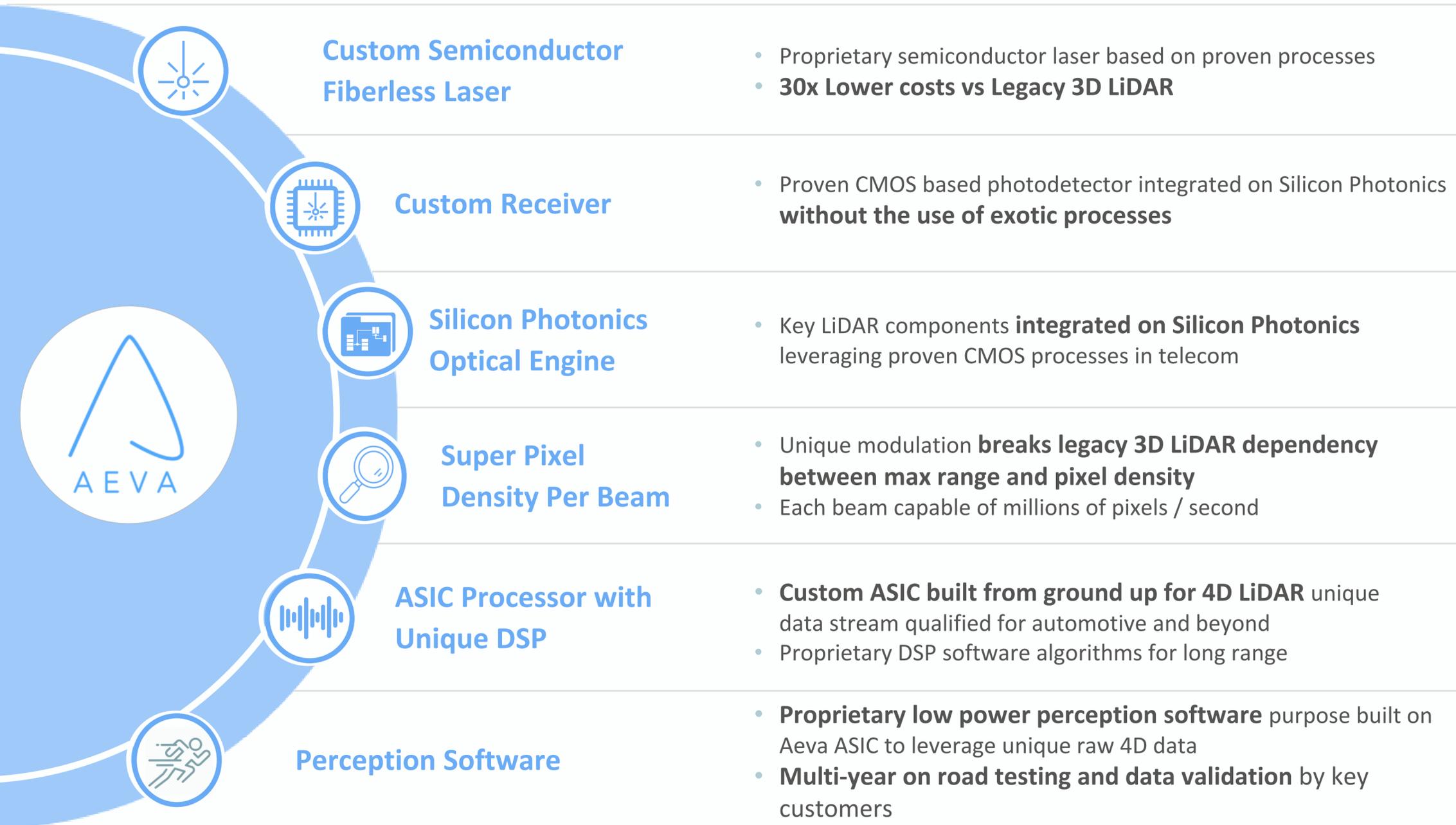
AEVA 4D LiDAR Superior Capability

- ✓ **Instant Velocity for every pixel**
 - Provides unprecedented perception capability
- ✓ **Free from all interference (LiDAR or Sun)**
 - Drives mass market adoption
- ✓ **100x higher sensitivity**
 - Enables ultra long range of detection at a fraction of the power
- ✓ **First LiDAR Integrated on Silicon Photonics**
 - Enables large volume scalability at affordable cost



Only Sensing Solution Built from the Ground Up on Silicon Photonics for Mass Scale Application in Automotive, Consumer Electronics and Beyond

Underpinned by Proprietary Breakthrough Technology



Solves Traditional FMCW Limitations



4D LiDAR



Conventional FMCW

Point density



Millions of pixels per second per beam



Up to ~0.2 million pixels per second per beam

Processing time



5x faster object detection versus legacy 3D LiDAR



Longer than legacy 3D LiDAR (ToF)

Laser/transceiver count



Low beam count, fiberless semiconductor laser



Up to 10x more transceiver count needed to achieve required resolution

Power



Lower power due to lower transceiver count and core IP



High power due to higher number of transceivers and processing complexity

Manufacturing Scale



Proven semiconductor processes in millions / year



Not proven in scale

Cost



Affordable cost with visibility on cost trajectory



Higher cost due to optics and electronics complexity



Meets Requirement



Unproven



Does Not Meet

Aeva 4D LiDAR Addresses the Limitations of Conventional FMCW and 3D LiDARs





Business Update and 2021 Objectives

Aeries Product Update

Aeries – Industry Leading 4D LiDAR Ahead of Schedule and Outperforming Last Generation

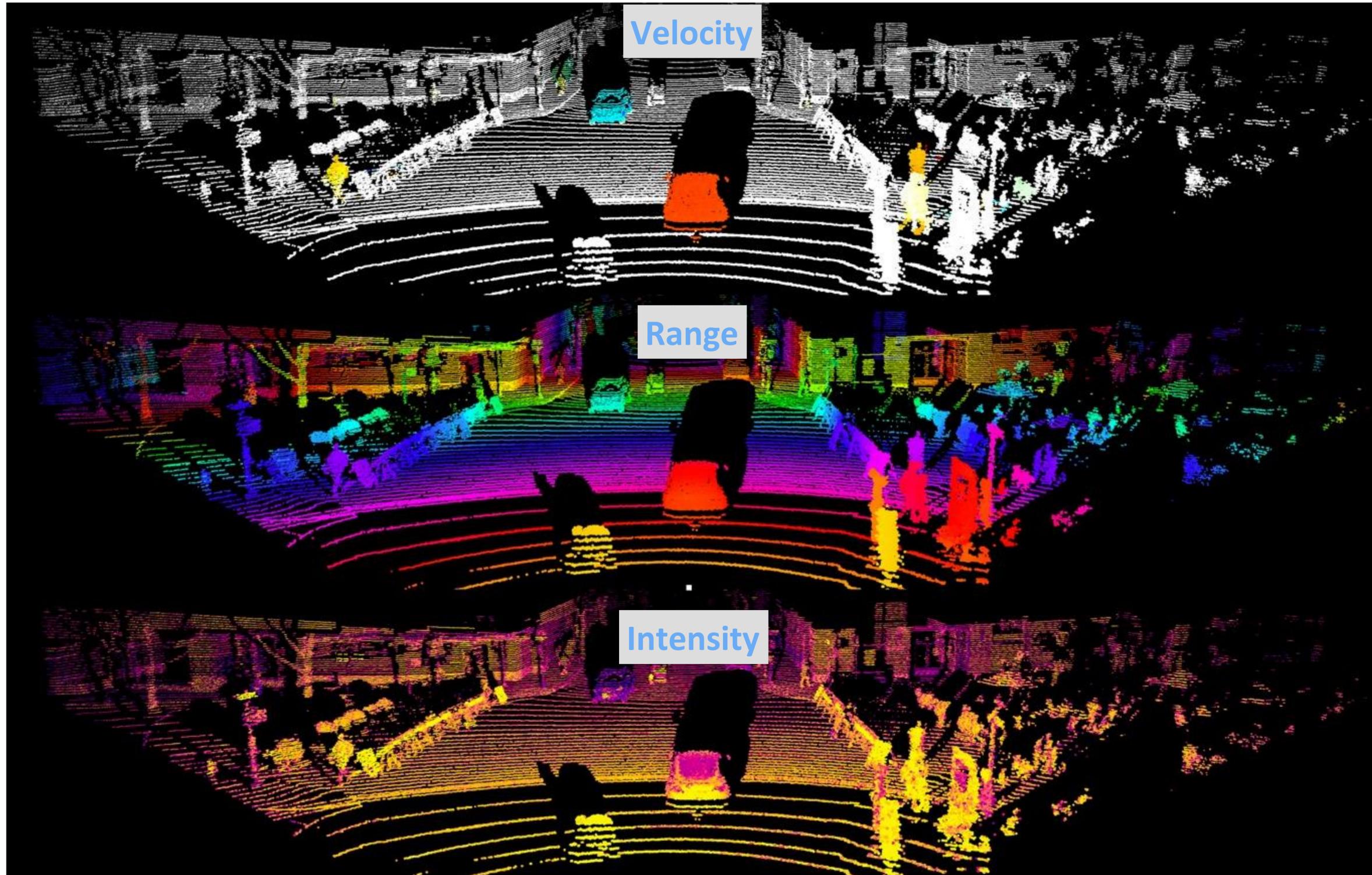
- Improved resolution to best-in-class over 350 points/square degree through software updates
- 30% size reduction from previous sample

Completed Reliability and Compliance Testing

- Temperature step
- Vibration and shock
- Water and dust ingress



Aeries Product Update



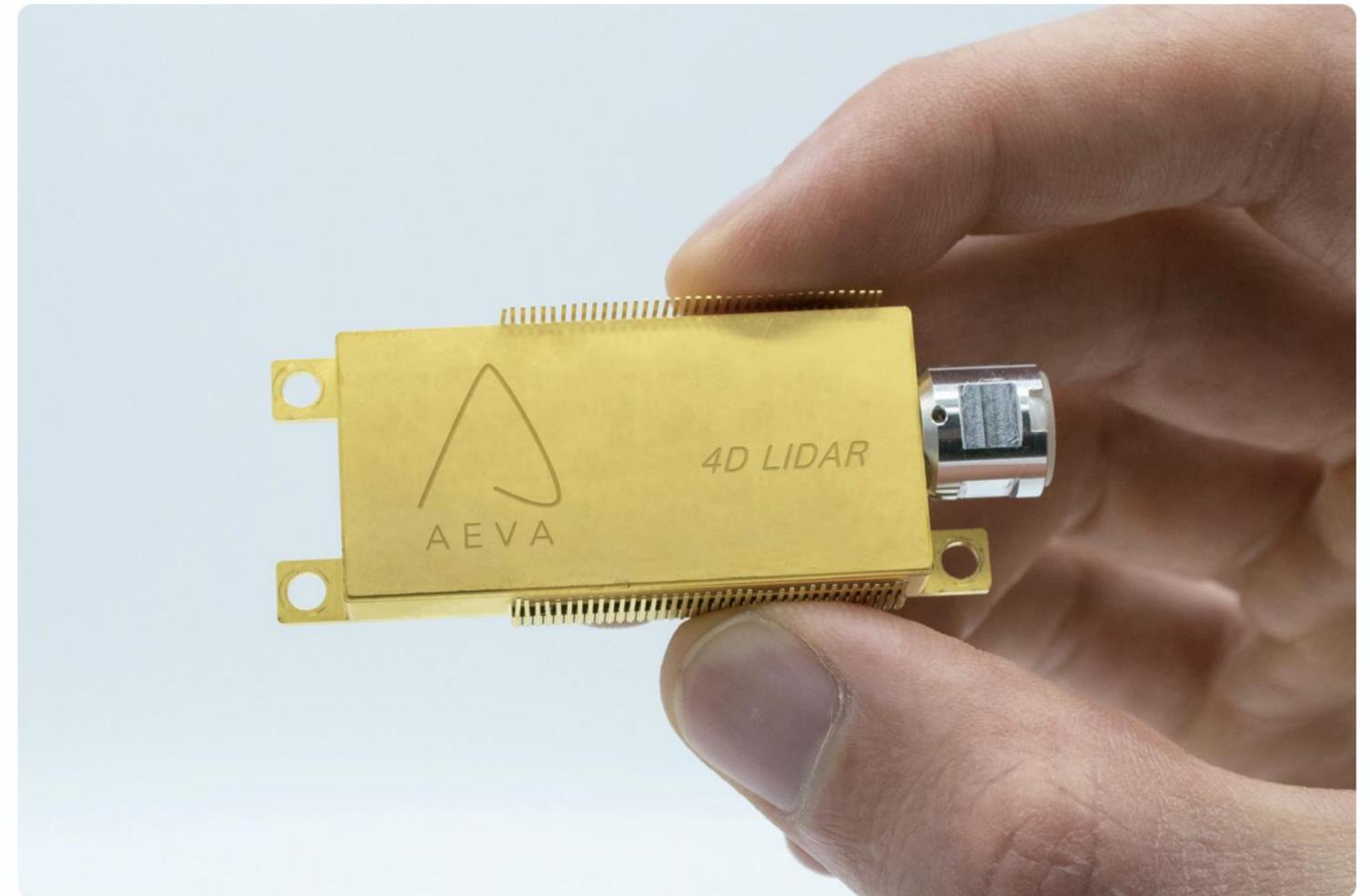
4D LiDAR Chip Update

3rd Generation LiDAR Chip Module Completed

- One quarter ahead of schedule
- Enables final cost structure and form factor
- Improved reliability by eliminating all fiber optics
- Already being produced at production intent factory

Completed Initial Reliability Testing

- Temperature step
- Random vibration
- Thermal shock



Aeva 4D LiDAR Integrates All Key Components onto Chip

Long Range Time-of-Flight LiDAR

Fiber Lasers



⚠ High Power, Low Reliability, High Costs

Avalanche InGaAs Detectors



⚠ Low Yields Increased Costs

Multiple Large Aperture Lens



⚠ Limits Size Increased Costs

Manufacturing Assembly



⚠ Complex Manual Labor limited

Replaced By

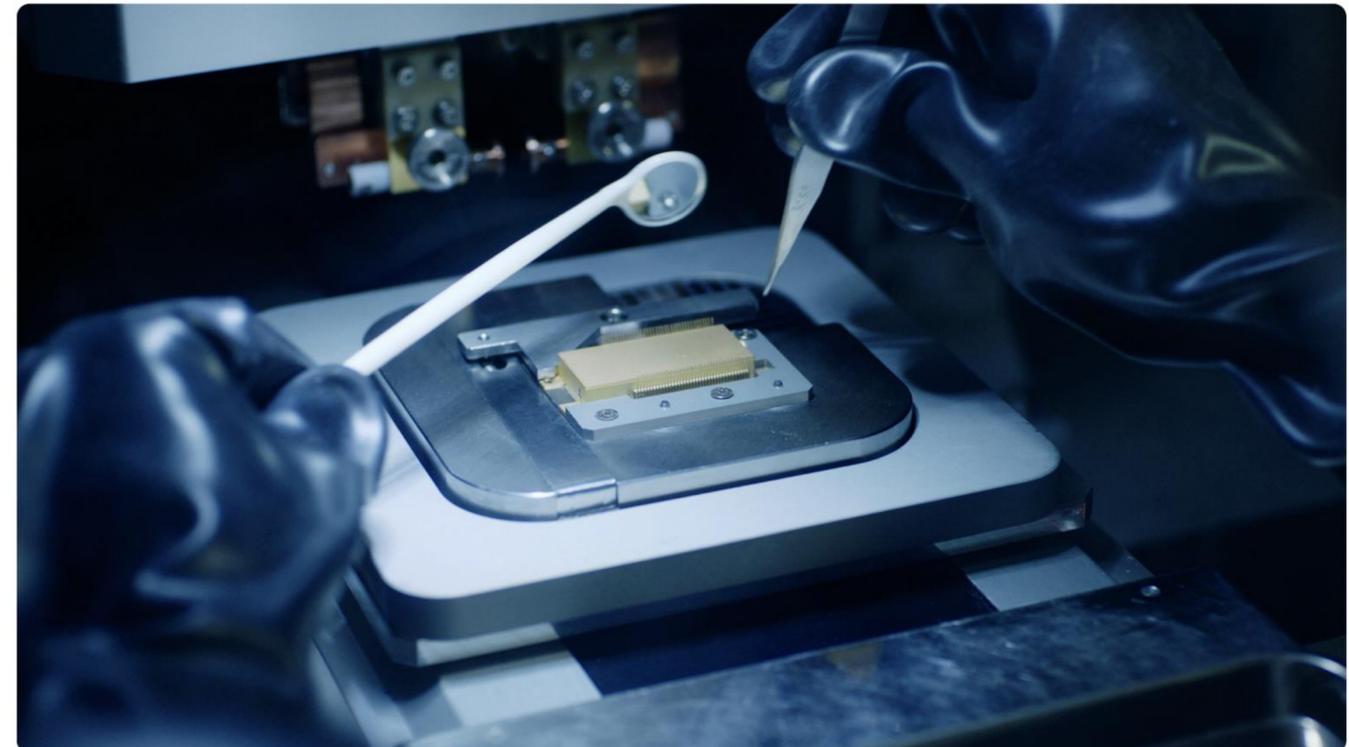
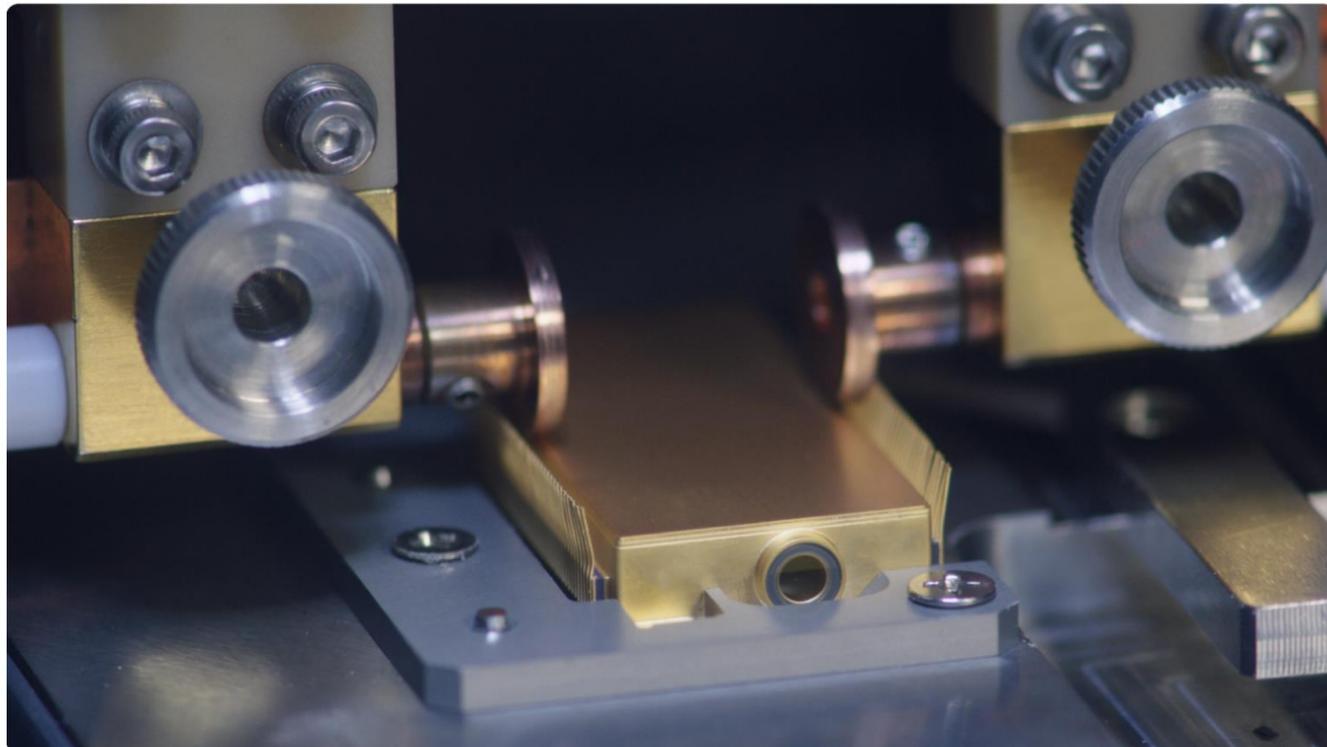
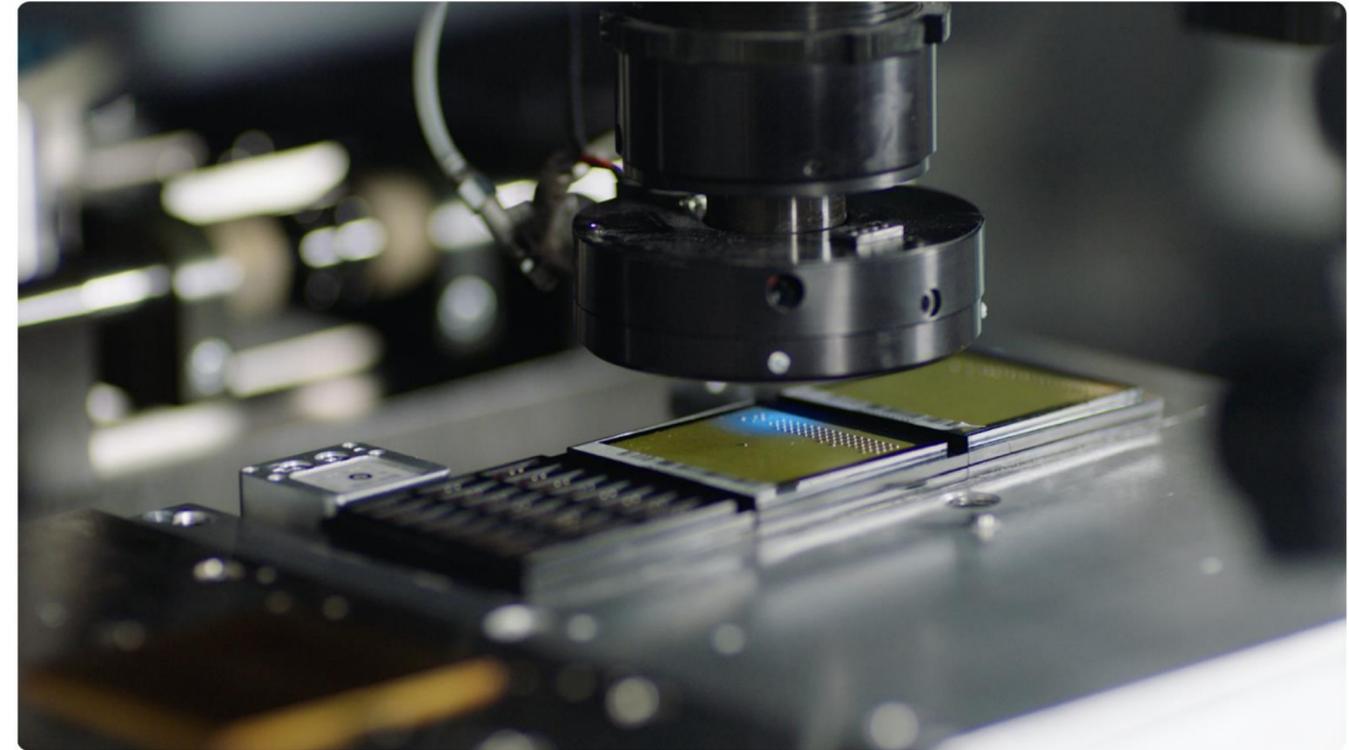


Only LiDAR to Integrate All Core Components onto Silicon Chip Module

4D LiDAR Chip Module

- Low cost, highly reliable laser
- All core components integrated on a silicon photonics chip module
- Small and simple low-cost lens
- Highly automated assembly with high yields

4D LiDAR Chip



Expanding Technology Leadership with Ultra Long Range Detection



Industry Leading 500m Detection

- Step change in performance enables safer automated driving
- Detection range validated by automotive customers
- Ground and road drivable region beyond 200m

*“We see Aeva’s groundbreaking **long range LiDAR** technology as a promising component to autonomous driving system for trucks.”*

Chuck Price, CPO at TuSimple

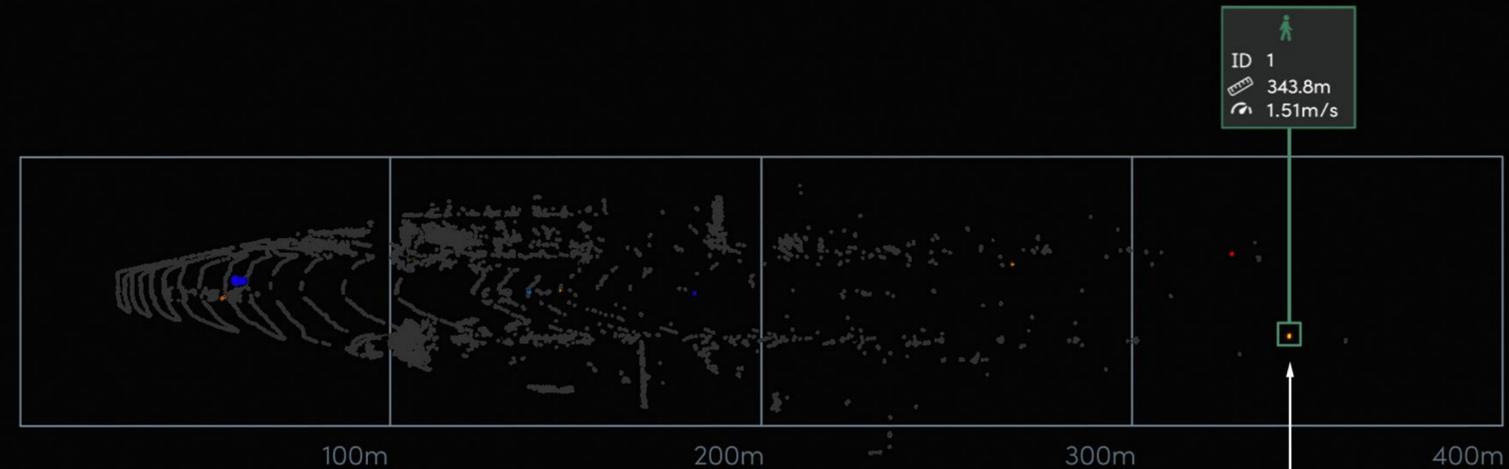
Driven by Aeva’s Proprietary FMCW Technology

- Instant velocity per pixel enables longer distance at higher confidence than legacy ToF
- Simultaneous high resolution and long range capability
- Achieved through software updates on existing hardware



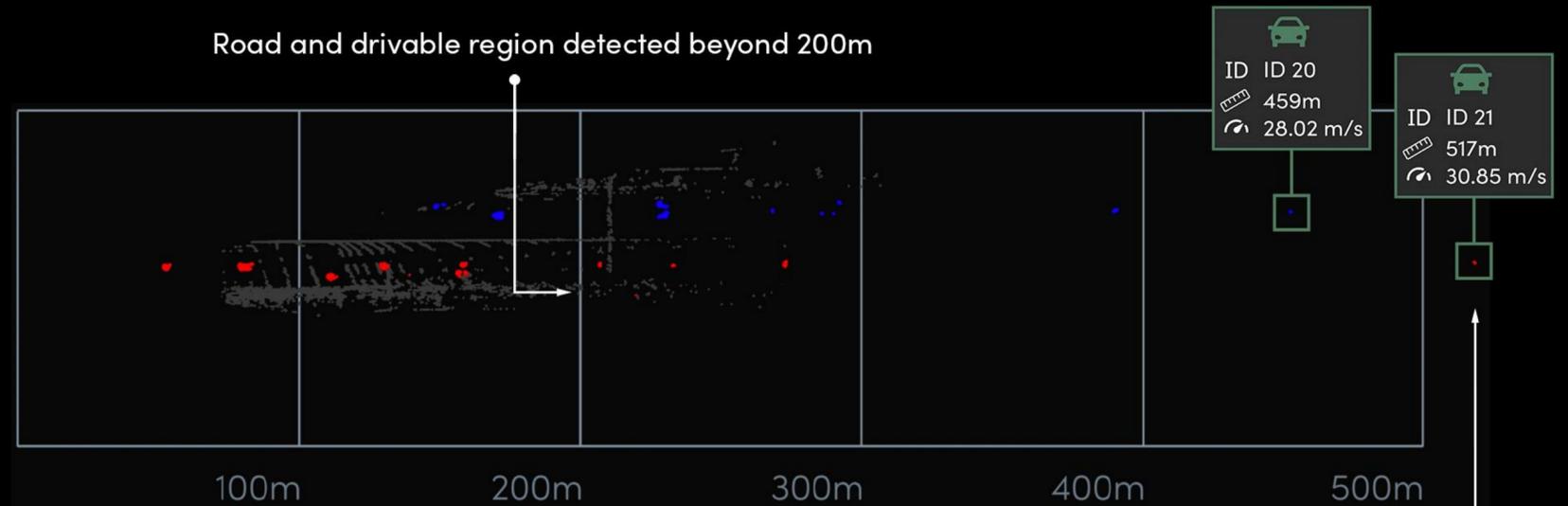
Expanding Technology Leadership with Ultra Long Range Detection

350m Pedestrian Detection and Classification



Pedestrian detected and classified beyond 340m

500m Vehicle Detection and Classification



Vehicle classified and detected beyond 500m

Foundational Agreement with Undisclosed Customer

**Strong Validation of Aeva's Unique
FMCW Technology**

**Deploying Aeva 4D LiDAR for
Autonomous Program**

**Development and Validation
Through Production**



Validation for Aeva's Performance and Scalability



VOLKSWAGEN
GROUP

VW Group

“LiDAR is a key enabling technology when it comes to providing sensing and perception capability required to achieve highly automated driving at scale. However, a LiDAR that is high enough performance to meet the requirements for autonomy and at affordable cost has been historically very challenging.

We have found Aeva's 4D LiDAR is the top solution on the market because it addresses these problems in a scalable way. Aeva has the unique ability to measure velocity at the pixel level with high resolutions, and at long ranges—all of which are critical to help enhance the factor of safety for automated driving.

These along with a compact form factor that is integrated at the silicon chip level, make Aeva the top solution to enable autonomous driving at production scale.”

Alex Hitzinger, CEO of ARTEMIS, Volkswagen Group

Validation for Aeva's Performance and Scalability



ZF

“Aeva’s unique FMCW 4D LiDAR combines direct velocity measurements with long range performance, and is built on silicon chip scale, making it the right choice for autonomous driving. 4D LiDAR is also immune to interference, which is important for the factor of safety and the scalability of self-driving cars.”

Torsten Gollewski, EVP of Autonomous Mobility Solutions at ZF

ZF is one of the world’s largest automotive Tier-1 manufacturers and suppliers to most top OEMs

Collaboration with ZF to manufacture and distribute automotive-grade 4D LiDAR



Validation for Aeva's Performance and Scalability

DENSO DENSO

“Aeva’s FMCW 4D LiDAR solution addresses the missing link for perception in automated driving and advanced driver-assistance systems, with its unique ability to meet the stringent automotive performance and safety requirements.”

Kazuma Natsume, Director of AD & ADAS Engineering Div. 2 at DENSO

DENSO is one of the world’s largest automotive Tier-1 suppliers with components in most car models and a leader in commercializing advanced technologies at affordable costs

Aeva’s collaboration with DENSO is focused on bringing 4D LiDAR to mass vehicle market



Validation for Aeva's Performance and Scalability



TuSimple

“Aeva’s 4D LiDAR solution provides a unique ability to measure instant velocity along with distance, and at longer ranges, which when combined with the other sensors in our technology stack, provides complementary capabilities to our autonomous system. Aeva shares our strict standards for safety and reliability, making them a great partner for our LiDAR solutions.”

Chuck Price, Chief Product Officer at TuSimple

TuSimple is a leader in self-driving truck technology and has partnerships with the top trucking OEMs across US and Europe.

TuSimple has been working with Aeva since 2019 and is partnered with Aeva to deploy 4D LiDAR for autonomous trucking



2021 Objectives



Complete Next Generation B Sample Development

- On schedule to complete next generation LiDAR development by end of year

Build on Momentum with 2 Additional Programs Towards Production

- Focus will continue to be on aligning with industry leaders who are highly capable and well positioned to bring mass deployment of LiDAR to market

Accelerate Engagements in Non-Automotive Applications

- Leverage synergies from common core chip architecture for non-automotive opportunities, including industrial and beyond

Strengthen Supply Chain for Production to Bring Aeva 4D LiDAR to Scale

- Advance commercialization plan with production intent supply partners, including dual source strategy and securing capacity



First Quarter 2021 Financial Results

First Quarter 2021 Summary



First Quarter 2021 Financial Results

	Q1 2021
Revenue	\$0.3m
Non-GAAP operating loss ¹	(\$15.6)m
Gross cash use (operating cash flow less capital expenditures) ²	(15.5)m

Highlights

- Anticipate second-half weighted revenue cadence in 2021, aligned with customer development milestones
- Strong cash, cash equivalents and marketable securities position of \$523m as of March 31, 2021, following \$513m net proceeds from business combination transaction
- Shares outstanding totaled 211.5m as of March 31, 2021

¹Non-GAAP operating loss of \$15.6m in Q1 2021 excludes stock-based compensation of \$4.5m

²Capital expenditures were \$0.7m in Q1 2021

