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Safe Harbor

Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995

This presentation includes information that constitutes “forward-looking statements” made pursuant to the safe harbor provision of the Private Securities Litigation Reform Act of 1995 that involve risks and uncertainties. These statements include the company's expectations regarding the company's future financial performance, including 2020 guidance, and the potential demand for its products, the company's growth potential, its balance sheet and capitalization, its technological advantages, the potential impacts of the COVID-19 pandemic on its business, operations and financial results, and market trends. Management cautions the reader that these forward-looking statements are only predictions and are subject to a number of both known and unknown risks and uncertainties, and actual results, performance, and/or achievements of the company may differ materially from the future results, performance, and/or achievements expressed or implied by these forward-looking statements as a result of a number of factors. These factors include, without limitation, failure of demand for the company's products and services to meet expectations, failure of target markets to grow and expand, technological and strategic challenges, uncertainties related to the ultimate impact of the COVID-19 pandemic and those risks and uncertainties set forth in the company's periodic reports and other filings with the Securities and Exchange Commission ("SEC"). Such filings are available on the SEC's website at www.sec.gov and on the company's website at www.lunainc.com. The statements made in this presentation are based on information available to Luna as of the date of this presentation, October 7, 2020, and Luna undertakes no obligation to update any of the forward-looking statements after the date of this presentation, except as required by law.

Adjusted Financial Measures

In addition to U.S. GAAP financial information, this presentation includes Adjusted EBITDA, a non-GAAP financial measure. This non-GAAP financial measure is in addition to, and not a substitute for or superior to, measures of financial performance prepared in accordance with U.S. GAAP. A reconciliation of Adjusted EBITDA to Net Income is included in the appendix to this presentation.

Luna – Enabling the Future with Fiber

- **Proprietary**, measurement technology, offering **unprecedented** combination of resolution, accuracy and speed
- Customers in **attractive markets**: Military and Defense, Communications, Infrastructure, Energy and Automotive
- Positioned to **take advantage of trends** such as vehicle light-weighting and increasing demands on data centers and broadband capacity
- **Adequately capitalized** to fund growth
- Long-tenured, **experienced** executive team / board
- Corporate culture of **innovation and integrity**



Luna is a global company



History
Incorporated 1990
IPO 2006



Reporting Segments
Lightwave
Luna Labs



Revenue
FY19 \$70.5M
FY20 Guidance
\$81M-83M



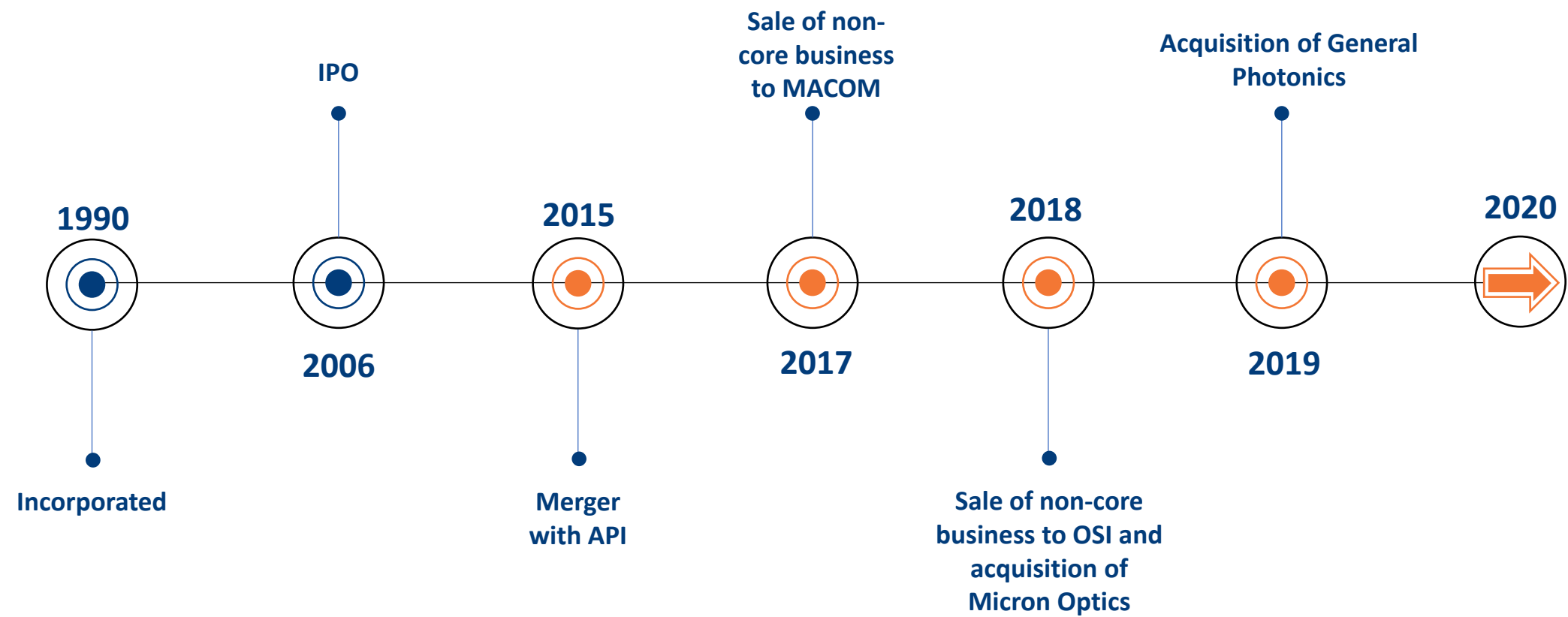
AEBITDA
FY19 \$9.5M
FY20 Guidance
\$10M-12M

270+ Employees



Luna has a clear vision and established history

Vision: Enabling the Future with Fiber



Compelling business model with strong growth potential

Revenue Growth



Organic Growth:
Mid-to High-teens

Lightwave = 18% to 20%
Luna Labs = 6% to 8%

Strategic M&A

Within core focus and accretive

Margin Expansion



Gross Margin

Increase 75-100 bps annually

Operating Margin

Increase ~250 bps annually

Shareholder Return



Cash Generation

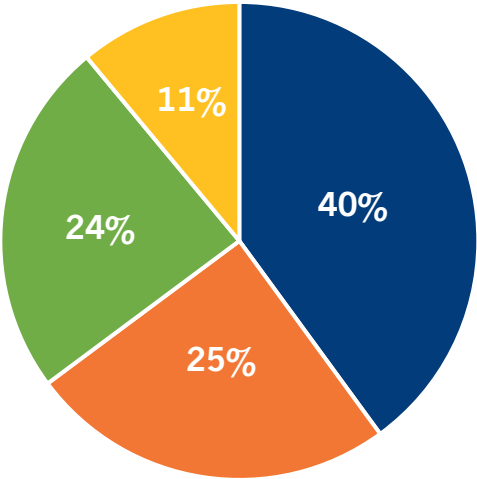
Increasing AEBITDA

Non-GAAP EPS

Double-digit annual growth

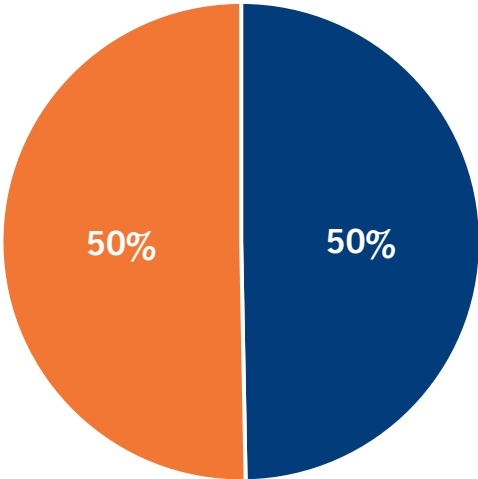
Lightwave 2019 revenue¹ snapshot

Four Locations



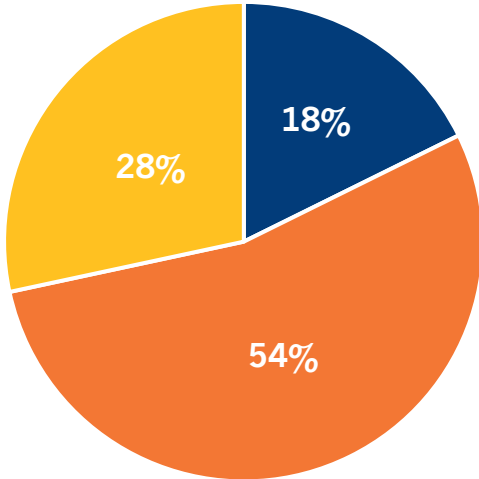
■ Blacksburg ■ Atlanta
■ Chino ■ Ann Arbor

Two Target Verticals



■ Sensing ■ Comms Test

Global Footprint

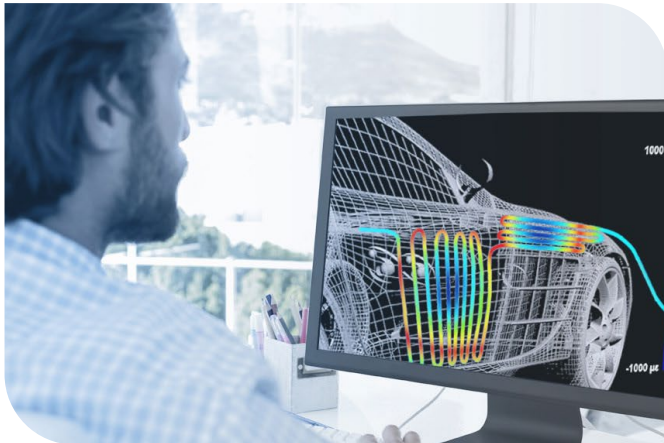


■ EMEA ■ Americas ■ Asia Pac

¹Lightwave product revenues for FY 2019

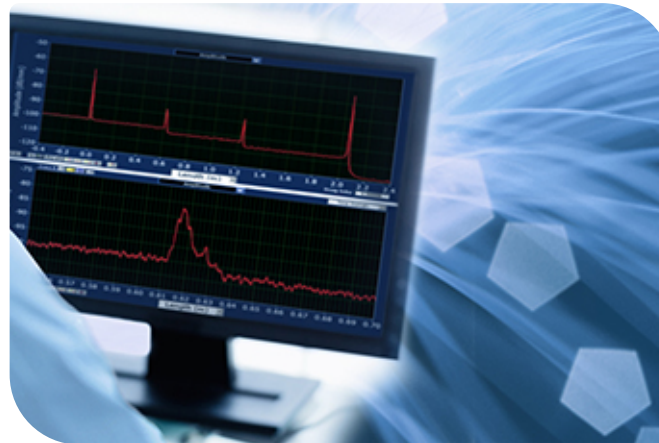
Luna Overview

Lightwave



Sensing

- Short-range, high resolution
- Long-range, high speed
- Material thickness



Comms Test

- Components
- Short-haul network

Luna Labs



Contract Research

- Materials
- Systems & Analytics
- Biotech

Where Does Luna Play?

	Comms Test	Sensing
Market size*	\$900M	\$1.6B
Luna growth	15%-20%	20-25%
Drivers	5G, Silicon Photonics	Lightweighting, Smart Infrastructure, IoT
Key competition	Keysight, Viavi, Exfo	HBM, Vishay, National Instruments

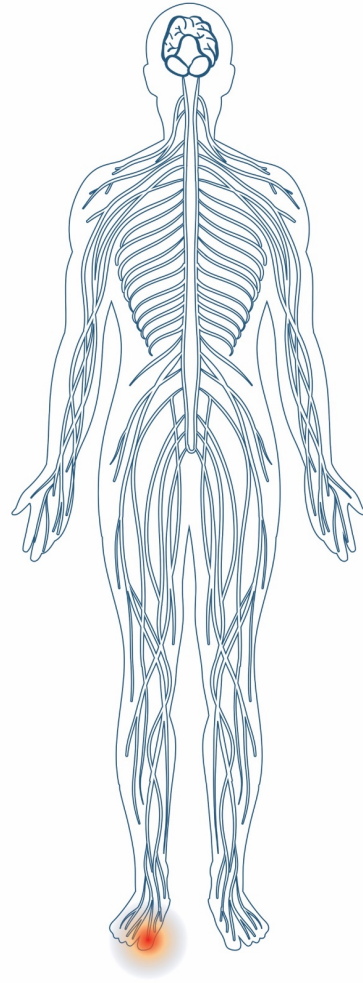


Comms Test:
5G Buildout
Field Support

Sensing:
Smart Infrastructure
Lightweighting
Process control & NDE

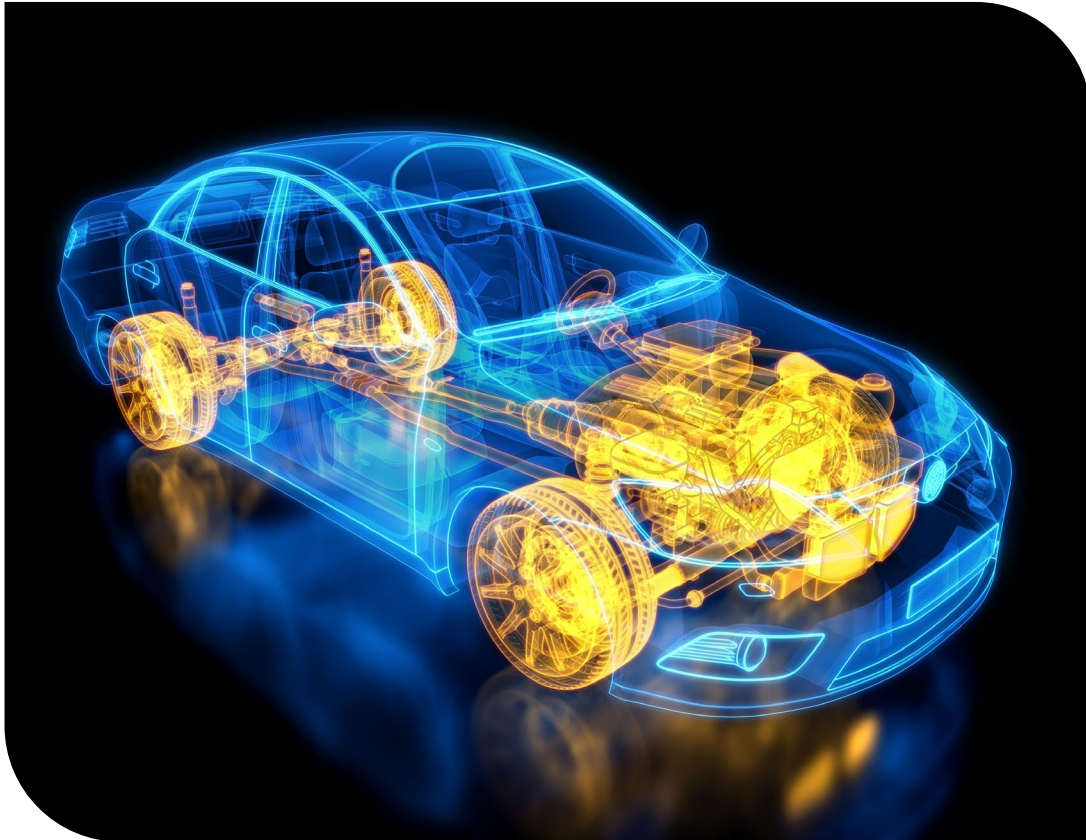
*Total SAM based on Luna estimates and published market reports

Sensing



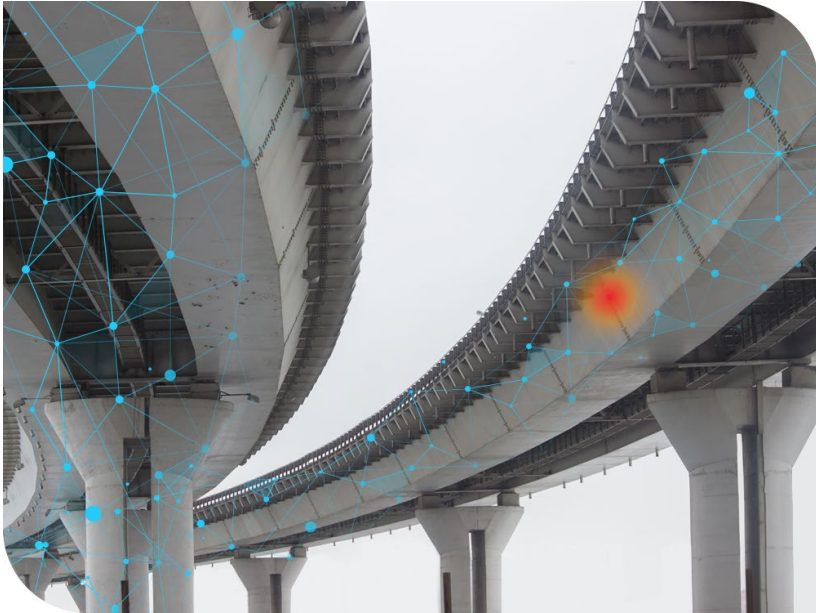
- Fiber optic sensors are the “nerves” of smart materials
- Luna’s products are the “brain” that collects and aggregates data from fiber sensor “nerves”

Sensing: Short-range, high-resolution

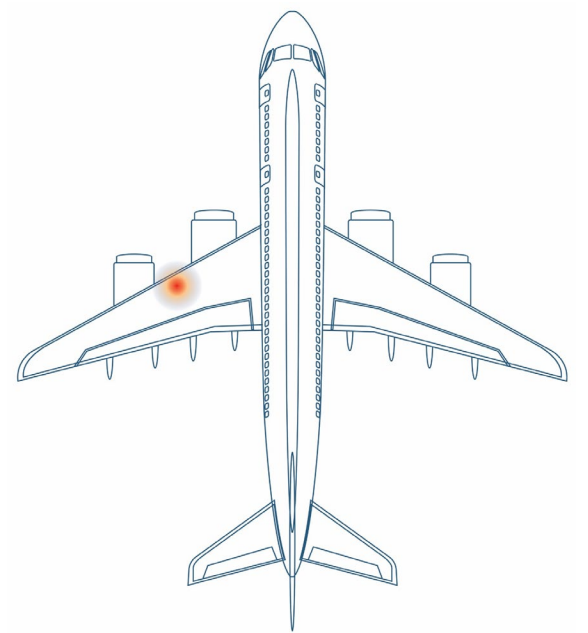


- Product: ODiSI
- High-Definition Fiber Optic Sensing
 - Measuring strain and temperature in composites and other advanced materials
 - Focus on military and commercial aerospace and automotive

Sensing: long-range, high-speed



- Product: Hyperion
- High-Speed, Long-Range FBG Sensing
 - Measuring strain, temperature, acceleration, displacement and pressure
 - Focus on structural health and security
 - Buildings, tunnels, bridges
 - Perimeter security



Sensing: Material thickness



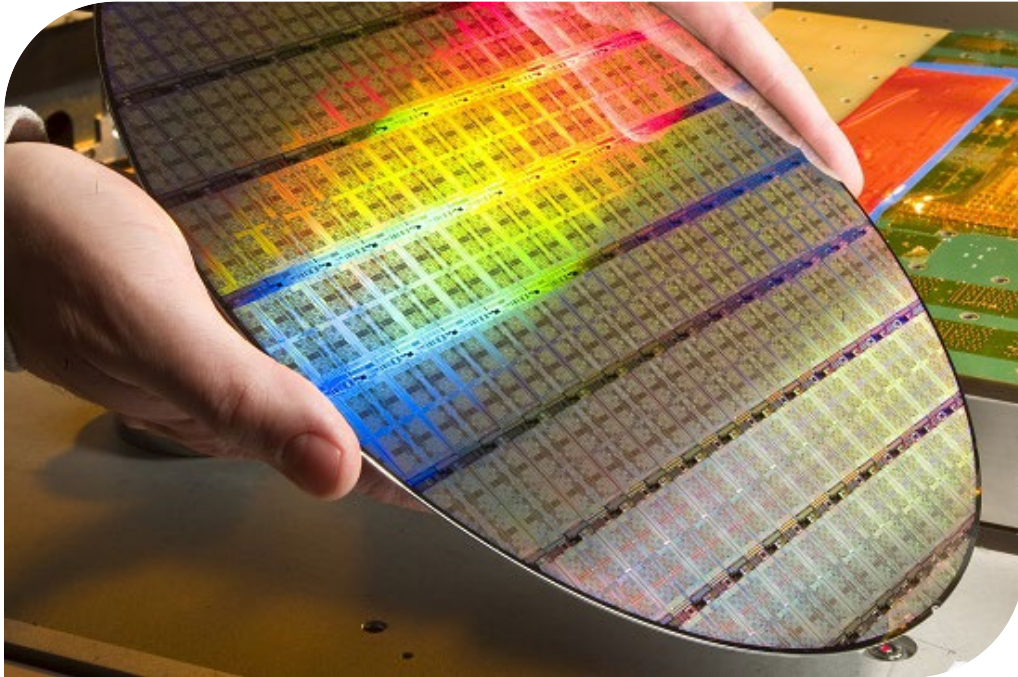
- Product: Terahertz technology
- Layer thickness measurements for process control, inspection and non-destructive testing
 - Advanced technology measures thickness of opaque materials
 - Unique measurement of composites and coatings with easy to use hand-held tools
 - Focus on manufacturing environments and field test for military-aerospace
 - Plastic and industrial packaging
 - Used extensively on F35 and F22 for anti-radar surface treatment

Comms Test



- Increased data and video consumption
 - Video forecasted to represent 82% of all IP traffic in 2022, 34% CAGR
- Growth in mobile and 4G/5G
 - Mobile data traffic growing at 46% CAGR
- Cloud services and adoption of Internet of Things
 - Data center traffic growing at 26% CAGR
 - 28.5 billion IoT networked devices by 2022

Comms Test: Components



- Product: Optical Vector Analyzer (OVA)
- Ensuring speed at the chip level
- Unprecedented visibility inside devices - you can't fix what you can't see
- Reduces time and cost associated with the development of high-speed optical components
- Focus on enabling the carriers to move to 5G networks

Comms Test: Short-haul network



- Product: Optical Backscatter Reflectometer (OBR)
- Bandwidth demands continue to drive double-digit connectivity growth
- Delivers unprecedented visibility into short-haul networks
- Emerging market for on-board aircraft communications
- Ensuring network “up time” on Lockheed Martin’s F-35



Luna Labs



- Work with universities and government research labs to explore technological feasibility with a goal toward proof of concept
- Collaborate with prime contractors, government offices and federally-funded R&D centers
- Work with contract manufacturers, suppliers, licensees and distributors to develop everything from small-scale prototypes up to and including market-ready products
- Based in Charlottesville, VA

2Q FY20 Results



Second-quarter 2020: Key Financial Results

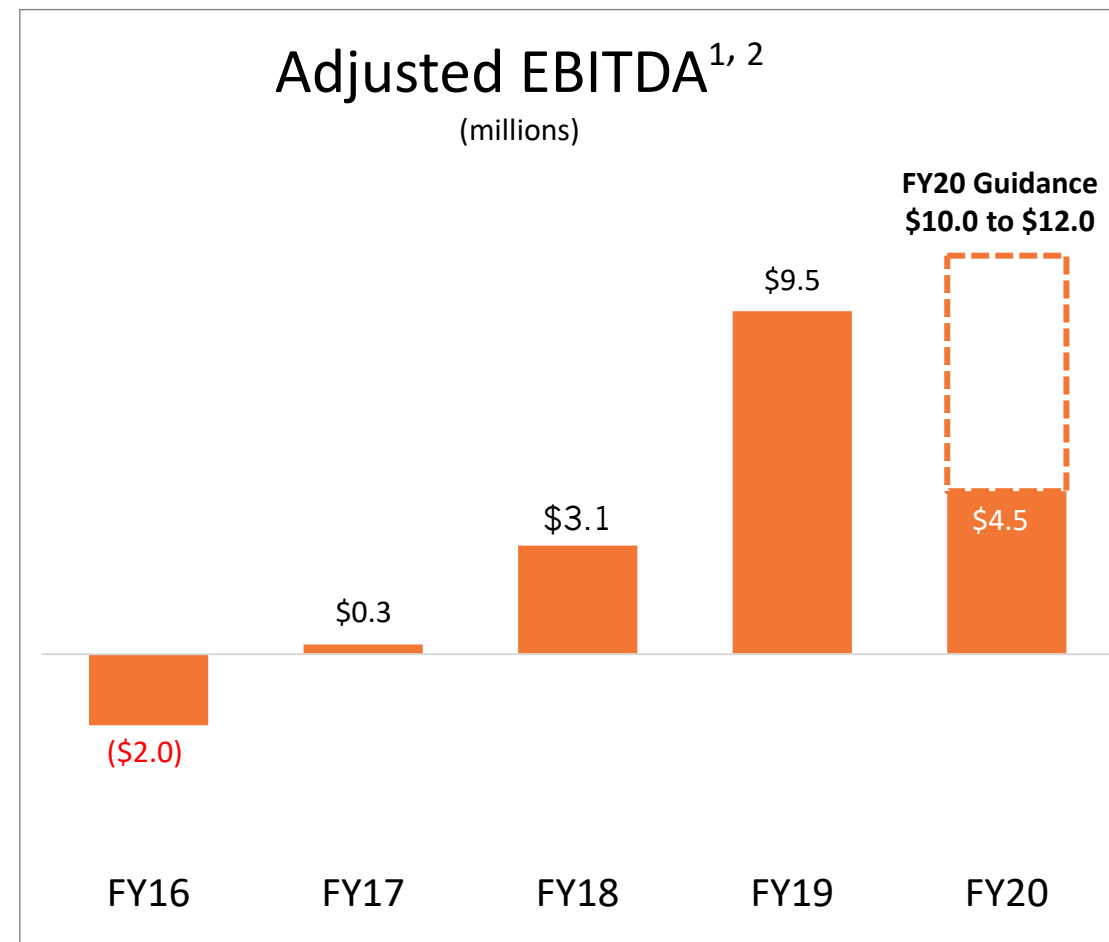
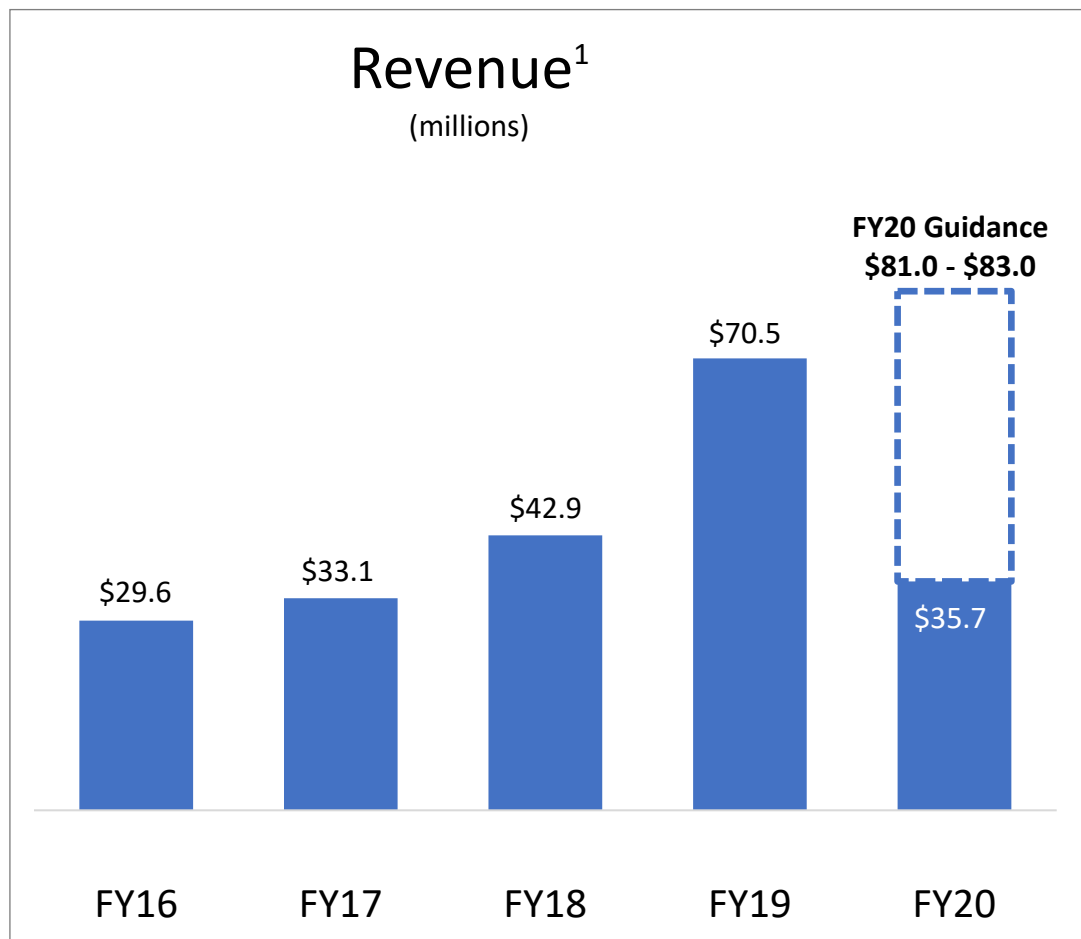
- Solid financial performance:
 - \$0.6M improvement in Adjusted EBITDA¹ year-over-year
- Total revenues of \$18.6M; up 4% year-over-year:
 - Lightwave revenue of \$12.9M; up 3% year-over-year
 - Luna Labs revenue of \$5.6M; up 7% year-over-year
- Operating income improved to \$1.8M, or 10% of total revenues, in Q2 2020 from \$1.0M, or 6% of total revenues, in Q2 2019 due to increased revenue and gross profit as well as improved operating expense leverage
- Net income of \$1.4M, or \$0.04 per fully diluted share, for the three months ended June 30, 2020, compared to \$0.8M, or \$0.02 per fully diluted share, for the three months ended June 30, 2019
- Adjusted EBITDA¹ increased to \$3.0M for the three months ended June 30, 2020, compared to \$2.4M for the three months ended June 30, 2019
- Reaffirmed 2020 outlook, tighten range to \$81 to \$83M in total revenues

¹Adj EBITDA is a non-GAAP measure. Reconciliation of comparable GAAP measures to non-GAAP measures are included in the appendix to this presentation.

Second-quarter 2020 and Other Recent Accomplishments

- Reported solid second-quarter 2020 financial results in challenging COVID environment
- Held 6 customer-facing technology educational webinars: ~1,000 live attendees and more than 1,200 leads
- Hosted worldwide virtual sales meeting with 47 attendees
- Participated in virtual trade shows
- Continued to monitor employee feedback with a focus on safety and well-being
- Successful implementation of Employee Stock Purchase Plan with approximately 60% participation
- Held successful Virtual Annual Shareholder Meeting in May

Strong Financial Results



¹ Based on management's estimates of the impact from the divestiture of Optoelectronics. Includes the acquisitions of Micron Optics and General Photonics.

² Adj EBITDA is a non-GAAP measure. Reconciliation of comparable GAAP measures to non-GAAP measures are included in the appendix to this presentation.

A Flexible Balance Sheet and Strong Cash Position

- Strong balance sheet on June 30, 2020:
 - \$91.2M in total assets
 - \$26.5M in cash and cash equivalents
 - \$44.8M in working capital
- Access to \$10M revolving credit facility, if needed
- Continued focus on working capital and reinvestment in business in order to generate long-term sustainable growth

2020 Financial Outlook

- Maintaining FY2020 outlook, tightening our range:
 - Total revenues of \$81M to \$83M
 - Adjusted EBITDA¹ of \$10M to \$12M

¹ Adj EBITDA is a non-GAAP measure. Reconciliation of comparable GAAP measures to non-GAAP measures are included in the appendix to this presentation. The outlook above does not include any future acquisitions, divestitures, or unanticipated events.

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Appendix



Reconciliation of Net Income to Adjusted EBITDA

	Three Months Ended June 30,		Six Months Ended June 30,	
	2020	2019	2020	2019
	(Unaudited)		(Unaudited)	
Reconciliation of EBITDA and Adjusted EBITDA				
Net income	\$ 1,369	\$ 841	\$ 253	\$ 1,967
Loss from discontinued operations, net of income tax benefit of \$464	-	-	1,436	-
Net income from continuing operations	1,369	841	1,689	1,967
Interest expense	1	-	1	13
Investment income	(4)	(77)	(64)	(268)
Income tax expense/(benefit)	441	247	579	(1,618)
Depreciation and amortization	684	653	1,363	1,166
EBITDA	2,490	1,664	3,568	1,260
Share-based compensation	465	378	967	721
Non-Recurring Charges (1)	-	44	-	942
Amortization of Inventory Step-up	-	310	-	412
Adjusted EBITDA	\$ 2,955	\$ 2,396	\$ 4,535	\$ 3,335

(1) Non-recurring charges consist of transaction-related expenses related to the acquisition of General Photonics.

Reconciliation of Net Income to Adjusted EBITDA: Full Year

	Year Ended December 31,			
	(unaudited)			
	2016	2017	2018	2019
Reconciliation of EBITDA and Adjusted EBITDA				
Net (loss)/income	\$ (2,370)	\$ 14,615	\$ 11,004	\$ 5,343
Less: income from discontinued operations, net of income taxes	300	15,866	9,766	-
Net income from continuing operations	(2,670)	(1,251)	1,238	5,343
Interest expense	319	217	124	16
Investment income	-	-	(549)	(394)
Income tax (benefit)/expense	(135)	(1,148)	48	(1,654)
Depreciation and amortization	1,466	1,137	908	2,503
EBITDA	(1,020)	(1,045)	1,769	5,814
Share-based compensation	860	715	628	1,544
Non-Recurring Charges (1)	-	596	751	1,390
Amortization of Inventory Step-up	-	-	-	725
Adjusted EBITDA	\$ (160)	\$ 266	\$ 3,148	\$ 9,473

(1) Non-recurring charges include the following: 2017) CEO separation costs and other share-based compensation; 2018) Transaction-related expenses associated with the acquisition of Micron Optics, Inc.; 2019) Transaction related expenses and inventory step-up amortization relate to General Photonics acquisition and CFO transition expenses

New Segment Quarterly Results

(in thousands)

	Three Months Ended					
	March 31, 2019	June 30, 2019	Sep 30, 2019 ^A	Dec 31, 2019	March 31, 2020	June 30, 2020
Revenues:						
Lightwave	\$ 9,518	\$ 12,523	\$ 13,088	\$ 13,988	\$ 11,554	\$ 12,933
Luna Labs	5,315	5,291	5,301	5,492	5,587	5,643
Total revenues	<u>14,833</u>	<u>17,814</u>	<u>18,389</u>	<u>19,480</u>	<u>17,141</u>	<u>18,576</u>
Cost of revenues:						
Lightwave	4,280	5,334	5,449	5,070	4,885	5,181
Luna Labs	3,785	3,728	3,665	4,022	3,892	3,878
Total cost of revenues	<u>8,065</u>	<u>9,062</u>	<u>9,114</u>	<u>9,092</u>	<u>8,777</u>	<u>9,059</u>
Gross Profit	<u>6,768</u>	<u>8,752</u>	<u>9,275</u>	<u>10,388</u>	<u>8,364</u>	<u>9,517</u>
Operating expense:						
Selling, general and administrative	6,207	6,003	5,745	6,416	6,377	6,202
Research, development and engineering	1,458	1,735	2,048	2,255	1,597	1,505
Total operating expense	<u>7,665</u>	<u>7,738</u>	<u>7,793</u>	<u>8,671</u>	<u>7,974</u>	<u>7,707</u>
Operating income	<u>\$ (897)</u>	<u>\$ 1,014</u>	<u>\$ 1,482</u>	<u>\$ 1,717</u>	<u>\$ 390</u>	<u>\$ 1,810</u>

^A The Company revised its results for the three months ended September 30, 2019. The Company has concluded these adjustments are not material individually or in the aggregate.