

Safe Harbor

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These factors include, without limitation, customer relationships, failure of demand for the company's products and services to meet expectations, industry trends, failure to penetrate target markets or of those markets to grow and expand, technological, operational and strategic challenges, integration of acquisitions, challenges with workforce and innovation, global supply chain issues, geopolitical and economic factors 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 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, May 9, 2023, 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 and Adjusted EPS, which are non-GAAP financial measures. These non-GAAP financial measures are 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 Net Income to Adjusted EBITDA and Net Income to Adjusted EPS are included in the appendix to this presentation.

Agenda

Welcome	Allison Woody, Senior Director of Administration
Company overview and strategy	Scott Graeff, President & Chief Executive Officer
Luna opportunity and approach to growth	Brian Soller, Chief Technology Officer and Executive Vice President of Corporate Development
Human capital strategy	Eva Hartmann, Senior Vice President of Human Resources
Operations overview	Jackie Kline, Senior Vice President of Operations
Sales and marketing plan	Salvan Farooqui, Senior Vice President of Global Sales
Luna financial overview	Gene Nestro, Chief Financial Officer and Senior Vice President of Finance
Q&A	All
	Lunch



Key takeaways from today's presentation

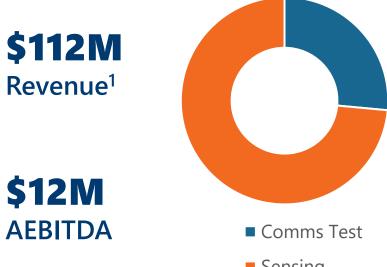
Completed goals set out in last 5-year plan to create a **pure-play fiber optics** company Provide mission-critical information to our customers to maximize their processes and protect their assets

"One Luna"
philosophy
will drive
profitable
growth

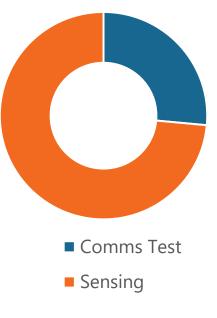
continue to invest in scalable platforms, processes and people

Aligned with macro trends in industries with vast market potential

FY 2022 statistics



43% 5-year CAGR





1000s Customers



700+ **Patents**



~350 **Employees**



5,000+ **Global installations**



Global locations



Dozens Long-term contracts

¹ Constant currency

Since 2017, Luna has transformed and is now well-positioned for growth







Where we were

- IPO in 2006
- Portfolio of unrelated assets fiber optic and other
- Small geographic footprint
- No international footprint
- Graeff CEO in 2017

Where we are

- Executed strategies
- M&A and divestitures
- Integrated acquisitions and delivered cost synergies
- Big company governance
- Long-term contracts
- Aligned with macro trends
- Portfolio focused on fiber optics

Where we're going

- Drive shareholder value through growth and disciplined capital allocation
- Solution selling
- Recurring revenue
- Growth continues to be supported by macro trends
- Invest in product innovation



Mission

To enhance the safety, security and connectivity of people by leveraging our expertise in fiber optic-based technology and the information it provides

Values

Ownership
Integrity
Creativity
Enthusiasm
Results-oriented

"One Luna" is our operating philosophy and culture

One Luna



Which drives:

- Strategy focus, invest where we're strong, divest non-core assets
- Operating leverage global footprint, driven by competency-based leadership
- Scalability
- Performance culture
- Customer approach
- Integration methodology

Problems we solve for our customers

- Global aging and safety of critical infrastructure (dams, bridges, buildings, pipelines)
- Keeping perimeters secure
- Protecting assets from fire
- Need for new materials to be lighter and safe
- Production of green energy
- Ensuring performance and operability of fiber components and short networks
- Reducing long design cycles for R&D
- Conventional technology doesn't always work for testing in R&D



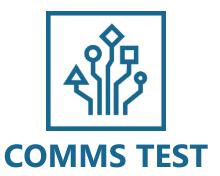
Luna leverages its expertise in fiber optic-based technology to enhance safety, security and connectivity of people



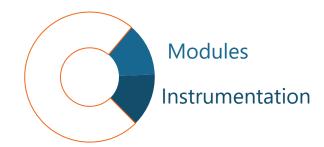
Luna sensing products

measure physical
parameters of materials and
monitor health, usage, and
security of assets





Luna comms test products **measure** and **control** light, enabling and analyzing next-generation optical communications, systems and instruments





Why Luna? Our investment thesis

Enabling the future with fiber



Proprietary measurement technology, offering unparalleled combination of resolution, accuracy and speed



Leverage: Scalable platforms, processes and people in place



Robust IP portfolio with over 700 patents owned or in-licensed



Aligned with macro trends in Energy, Infrastructure, Defense, Communications and more



Customers in large, growing markets: Infrastructure, Energy, Defense, Communications, Automotive & Aerospace



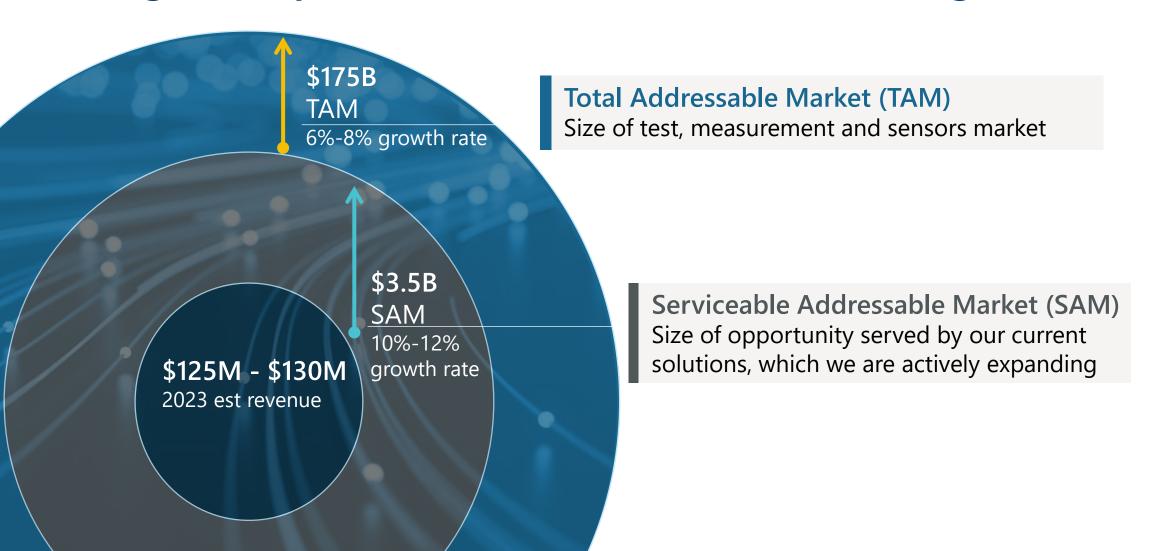
Attractive capital deployment, funded all investments internally; disciplined M&A



Why now?

- Achieved 5-year strategic plan creating pure play in fiber
 - Divestitures and acquisitions
 - Scalable platforms, processes and people
 - Significant international expansion
- Market is ready
 - Shifting away from conventional and toward Luna's fiber-based solutions
 - Aligned to current macro trends driving opportunities
- One Luna creates leverage and shareholder value
- Predictable revenue streams
 - Blanket orders
 - Recurring revenue

Our growth plan enables us to exceed market growth rates



Luna has a well-planned roadmap to achieve 15% - 20% growth

Move into larger, higher-value opportunities in manufacturing, maintenance & monitoring

R&D product development

STRENGTHEN CORE

- Prototype design validation
- Silicon Photonics R&D
- Composite design for aero/auto
- Avionics systems design
- Infrastructure modeling
- Temperature studies

Production/manufacturing

INVEST TO GROW

- Process enhancement and control with THz
- Move from R&D to manufacturing
- ISO certification
- Expansion into silicon photonics initiative

Monitoring & maintenance

EXPAND TO WIN

- Field maintenance and data center test
- Enhanced infrastructure monitoring
- Borders, security, traffic
- Energy sector, power cables
- Software as a product

LEVERAGE CORE CAPABILITIES IN LARGER MARKET OPPORTUNITIES

Our company goals for next 3 - 5 years will drive growth and shareholder value

Executedisciplined M&A



- ~60% gross margin
- 20% AEBITDA

Grow organic revenues 15%-20% growth; to \$250M+

Enhance margin and profitability by

applying operational best practices



- Leverage extensive installed base to grow recurring & OEM revenues >25%
- Drive innovation/product development to achieve 25% of revenues from new products

Drive One Luna throughout global organization



- Achieve operational excellence through global, integrated ops
- Culture shared purpose, vision, mission, values
- Integrate solution sales approach; align resources with industry verticals

Our purpose

Utilize our unique position to enable the future with fiber

A team is in place that can execute aggressive growth plans



Scott Graeff
President & Chief
Executive Officer



Brian Soller
Chief Technology Officer
& EVP, Corporate
Development



Gene NestroChief Financial
Officer





Hartmann
SVP, Human Resources



Salvan FarooquiSVP, Global Sales
& Marketing

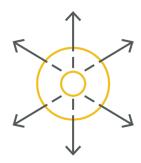


Hire the best and brightest, get out of their way, and let them do what they do.

Scott Graeff

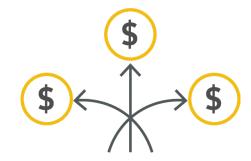


One Luna approach to growth and innovation



Expand

Deliver additional value across the customer's asset lifecycle by **Expanding** our scope and activities



Diversify

Leverage our technology and solutions into adjacent markets to **Displace** conventional thinking



Innovate

Develop **Disruptive**technologies by applying our
broad domain knowledge
and heritage

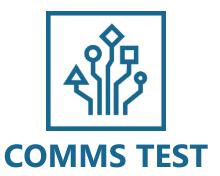
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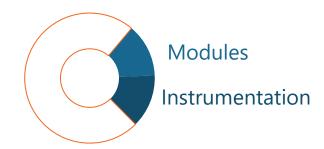
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Luna comms test products **measure** and **control** light, enabling and analyzing next-generation optical communications, systems and instruments



We will drive growth through two market verticals

SENSING







- Energy
- Oil & gas
- Infrastructure
- Aerospace





- Automotive EV
- Industrial adhesives
- Military / defense

COMMS TEST







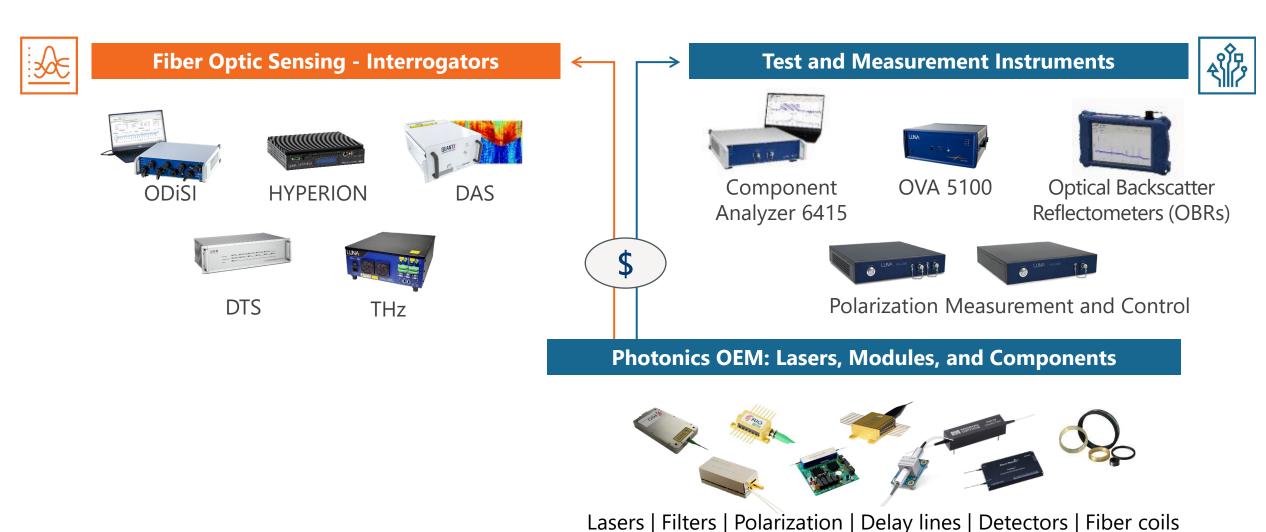
- Communications
- Defense
- Silicon photonics
- Quantum computing





- Medical
- Defense
- LiDAR
- Space

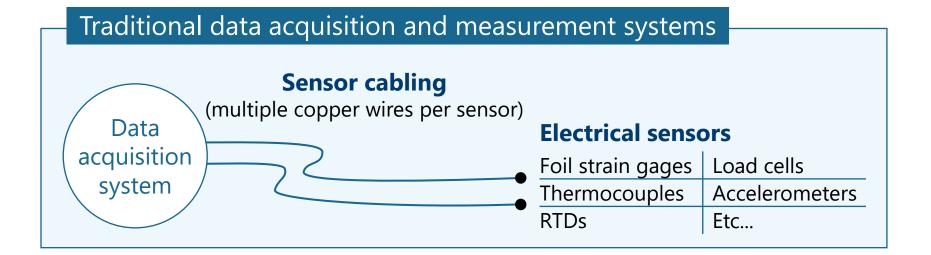
Luna is vertically integrated in many key components used to build instruments



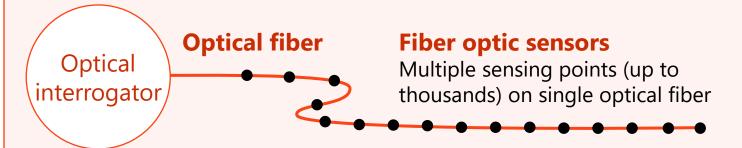




An analogy to explain sensing



Distributed fiber optic sensing



- Fiber optic sensors are "nerves" of smart materials
- Luna's products are "brain" that collects and aggregates data "nerves"



A closer look at SENSING solutions



MEASURE

:30E

MONITOR

24 x 7 asset monitoring

Physical property of material or structure

Instruments and sensors to make measurements of physical properties of materials that are unmeasurable using conventional technology

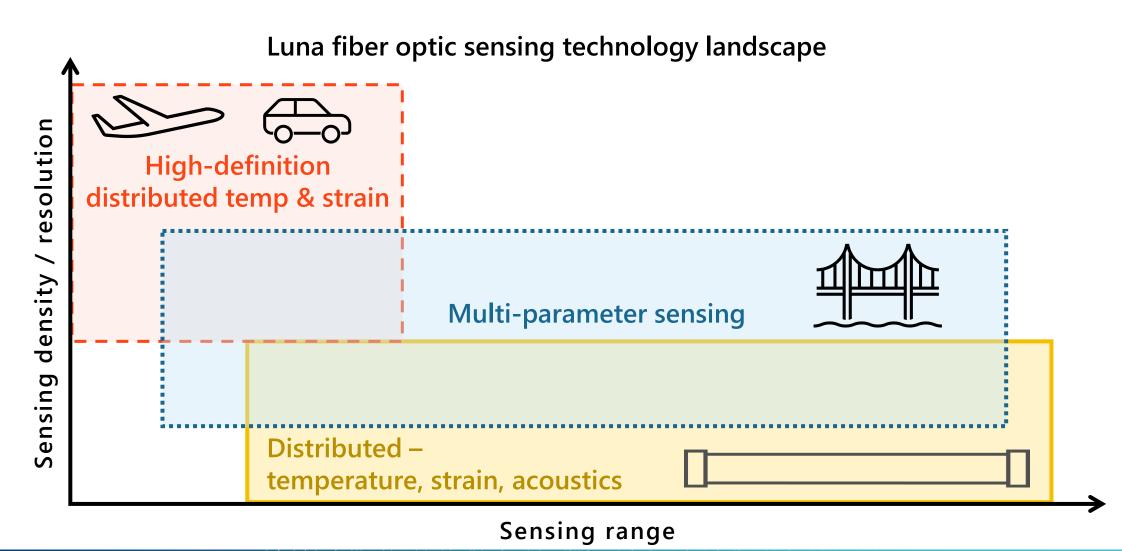
- Application: Research & development of new materials, quality control & verification of systems and structures
- Who: Researchers, designers, quality control, engineers

Complete solutions to monitor health, usage, and security of critical assets

- Application: Permanently installed instrumentation, sensors and software
- Who: Asset owners, operators, state and federal agencies, power utility companies

Luna sensing capabilities provide a spectrum of measurements needed by our customers





Sensing targeted industries / mega drivers

Infrastructure	Energy	Industrial
 Critical infrastructure Telecom & smart city Perimeter security Fire detection	Oil & gasWindPower & utilityClean energy	 Process control Composites manufacturing EV & battery technology Production/manufacturing

Drivers:

- Growth of conventional and green energy demand
 - 47% growth in energy demand over next 20 years
 - Offshore wind growing at 16% CAGR
- Light-weighting and green initiatives
 - Expansion of the use of composites in aerospace and automotive, and new materials in construction
- Global increase in demand for security solutions
 - International borders, high-value asset security
- Growing need for more advanced infrastructure monitoring
- Industry 4.0 need for advanced manufacturing solutions







Opportunity: Market outlook and key growth segments

(2022 estimated market size and forecasted CAGR)

Infrastructure ~ \$1.1B SAM

Pipelines

\$14B / 7.8%

Source: Report Ocean Research

Security / Fire Detection

\$80B / 6.7%

Source: Grandview Research

Critical Infrastructure / SHM

\$2B / 14.7%

Source: Straits Research

Transportation / Smart City

\$150M / 47%

Source: OptaSense

Energy ~ \$900M SAM

Oil and Gas

\$580B / 9.3%

Source: Grandview Research

Power and Utility

\$250M / 12.5%

Source: OptaSense

Carbon Sequestration

\$4.9BM / 22%

Source: Precedence Research

Offshore Wind

\$47.5B / 16%

Source: Global Market Insights

Industrial ~ \$500M SAM

EV / Batteries

\$115B / 12%

Source: Precedence Research

Composites

\$180B / 5.5%

Source: Precedence Research

Process Control

\$650M / 15%

Source: Straits Research

Production / Manufacturing

\$5B / 9%

Source: Industrial Machinery Global Market Report



Sensing three to five-year growth strategy

Expand, Diversify, and Innovate



Strategy focused on:

- Product roadmap and enhancements needed to hit growth milestones
- Developing additional partnerships
- Increasing recurring revenue

Fiber optic sensing global market is \$2.5B+ with CAGR greater than 12%



Comms test is a mix of instrument and OEM laser/component sales





TEST AND MEASURE



- Applications: Research and development of new designs, manufacturing test of optical components, field test of fiber networks
- Who: Optical component and silicon photonics manufacturers, network element manufacturers, military defense contractors, data center operators



huilding blocks integrated int

PHOTONIC SYSTEMS

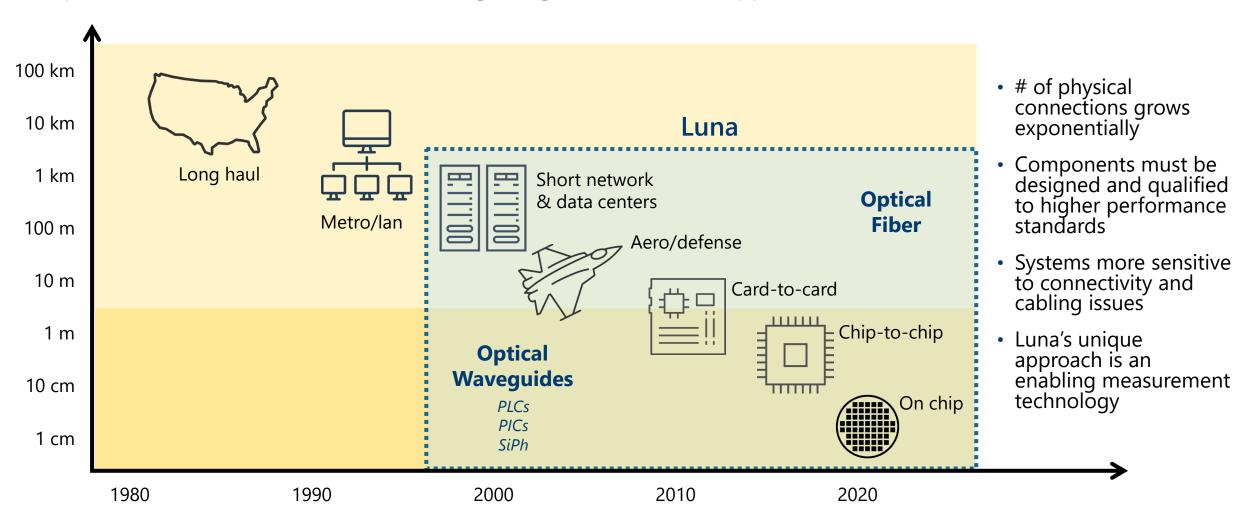
Technology building blocks integrated into photonic laser-based systems

- Applications: Quantum computing, medical imaging and robotics, directed energy weapons, high-power laser systems, LiDAR systems, navigation and positioning fiber optic gyros, space and satellite communications
- **Who:** Military defense contractors, quantum computer developers, medical instrument manufacturers, LiDAR OEM developers



What is Comms Test?

Optical communications has evolved, signals go farther than copper





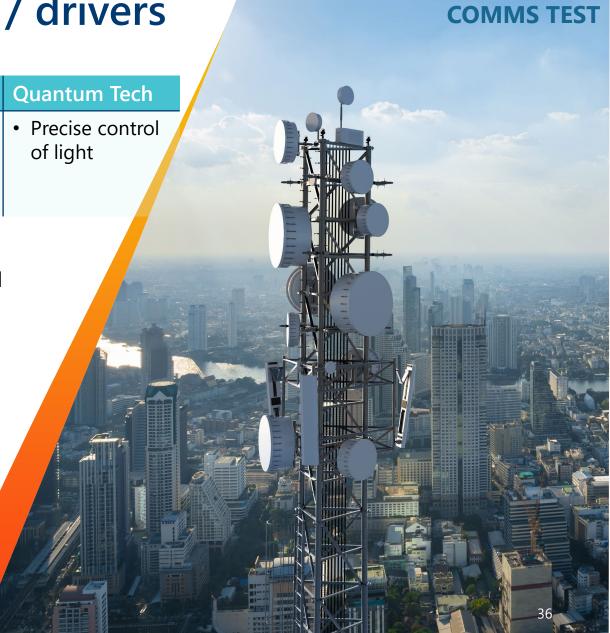
Communications	Defense	Medical	Quantum Tech
 High-speed optical devices Silicon photonics Data center connectivity 	Field test for aerospace networksDirected energy	OCT imagingGuided robotics	Precise control of light



 Silicon photonics expected to grow from 20% to 30% of optical transceiver market by 2027

 5G deployments - subscribers expected to increase from 1B to 5B in 5 years

- Artificial Intelligence & Machine Learning
 - Data center AI networking market expected to grow from \$350M to \$6.5B in 2027
- Growing demand in Defense, Space, Medical & LiDAR applications
 - Directed energy CAGR of 19% 2022-2028, medical robotics growing 21.3% CAGR through 2030, LiDAR growing 21% through 2027





Opportunity: Market outlook & key growth segments comms test

(2022 estimated market size and forecasted CAGR)

Optical Device Test ~ \$500M SAM

Photonics Integrated Circuits/SiPhi

\$1.16B / 27.4%

Source: Report Polaris Research

Fiber Optic Components

\$26.68B / 8.9%

Source: MarketsandMarkets Research

Specialty Fiber

\$1.6B / 11.9%

Source: 360 Market Research

Field Fiber Network Test ~ \$100M SAM

Mil/Aero

\$62.5M / 5.7%

Source: Data Bridge Research

Telecom/Datacenter

\$187.5 / 5.7%

Source: Data Bridge Research

Photonic Systems (OEMs) ~ \$500M SAM

Medical Optical Imaging Equipment

\$2.18B / 14.8%

Source: Emergen Research

High Energy Lasers

\$11.55B / 11.8%

Source: Maximize Market Research

Fiber Optic Sensors

\$3.95B / 10.9%

Source: BCC Research

Lidar

\$3.12B / 25%

Source: GMI Research

Quantum Tech

\$4.7B / 21.47%

Source: GlobalnewsWire Research

Luna Innovations Incorporated ©

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Comms test three to five-year growth strategy

Expand, Diversify, and Innovate



Strategy focused on:

- Establishing Luna as standard for test
- Expanding out of R&D into production
- Growing key OEM accounts

Fiber optic comms test global market is \$1B+ with CAGR greater than 8%

Summary: Luna is ready to make the most of opportunities

- Large markets with growing secular demand
- Highly differentiated, market-leading technology
- Growing base of large, flagship customers
- Multiple "shots on goal" proving opportunity for enhanced growth
- Investing to support innovation and growth



Technology is the fuel that propels us forward, but it is our relentless pursuit of innovation that sets us apart.

Brian Soller





What we look like today – Luna is a global company

Moving to next phase of growth and scale

Future-minded

 One Luna operating philosophy and culture

Solid HR infrastructure

Top talent to build and sustain innovation and top-line growth

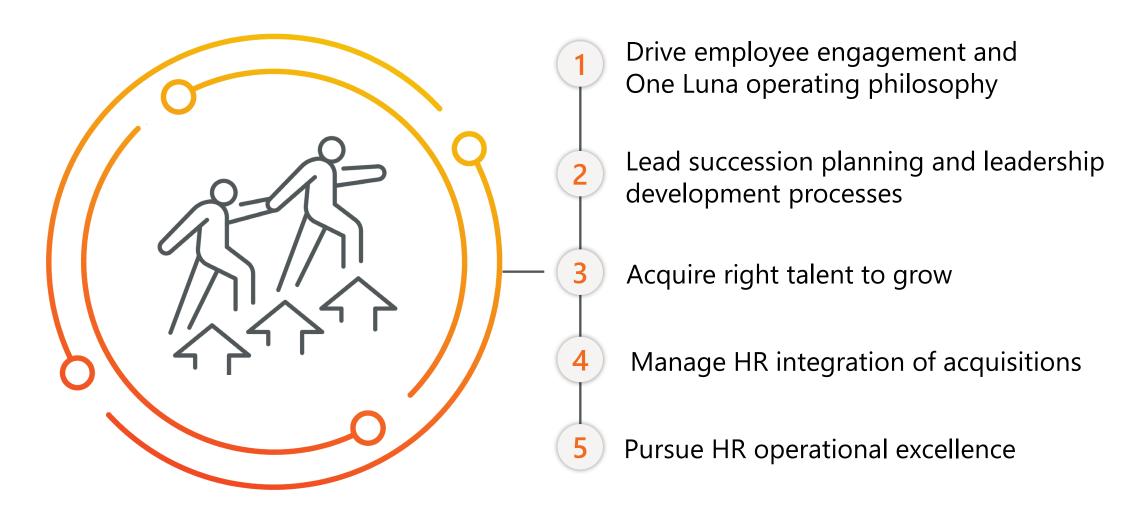
~350 employees



Human Capital goal

Deliver a competitive advantage that drives and sustains Luna's profitable growth over next 3 – 5 years.

Human capital strategy moving forward



Champion culture so employees feel included and engaged, and share common employee experience



Drive employee engagement and One Luna operating philosophy

- Celebrate our Employer Value Proposition (EVP)
- Recognize employee innovation, excellence and achievement
- Champion Luna values
- Focus on employee wellness
- Celebrating diversity
- ESPP employees as shareholders

Build bench strength and ensure future performance and sustainability



Lead succession planning and leadership development

- Drive succession planning processes
 - Manage Individual Development Plans (IDPs) for key successor candidates
- Build One Luna alignment to drive growth
 - Launch Leadership Summit
 - Cascade vision, mission, values messages

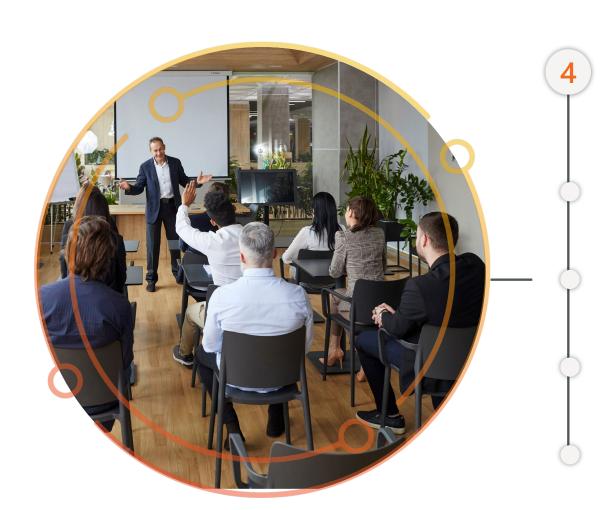
Enable the business to grow and realize a competitive advantage through its people



Acquire the right talent to grow Luna

- Attract key talent to take Luna forward
 - Global recruiting
 - Build candidate pool
 - Leverage relationships with local universities
- Champion ongoing engagement and retention efforts
 - Exit interviews for continuous improvement
 - Perform "stay interviews"

Maximize potential of people and expertise gained through acquisition to realize accretive value of combined firm



Manage HR integration of acquisitions

- HR and business integration as One Luna
 - Technology, process, people and operating philosophy & culture
- Provide merger and acquisition support to maximize investment
 - Lead HR due diligence and integration processes

Ensure processes, programs and tools are implemented consistently, globally and efficiently

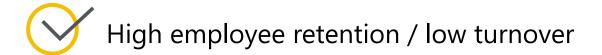


Pursue HR operational excellence

- Drive HR operational excellence and process improvement
 - Leverage global HRIS functionality
 - Drive employee development
 - Launch performance management process
- Manage compliance and risk
 - Incorporate compliance training to mitigate risk

Human Capital: What does success look like?





- Employer value proposition survey feedback
- Opportunities for growth and development
- Employee recognition programs
- Increase shareholder value

I love my job -- to realize potential, at the individual and the company level, in order to create a competitive advantage for Luna through its people.

Eva Hartmann





Operations goal

Achieve operational excellence through global, integrated ops footprint to support scalability, standardization and continuous improvement.

Operations has accomplished much in the last 5 years

To scale to planned revenue growth, we will continue transforming to competency-based One Luna

From

- Collection of acquired companies
- Quality rigor being installed
- Complex footprint with multiple manufacturing locations
- Ad-hoc approach to integration

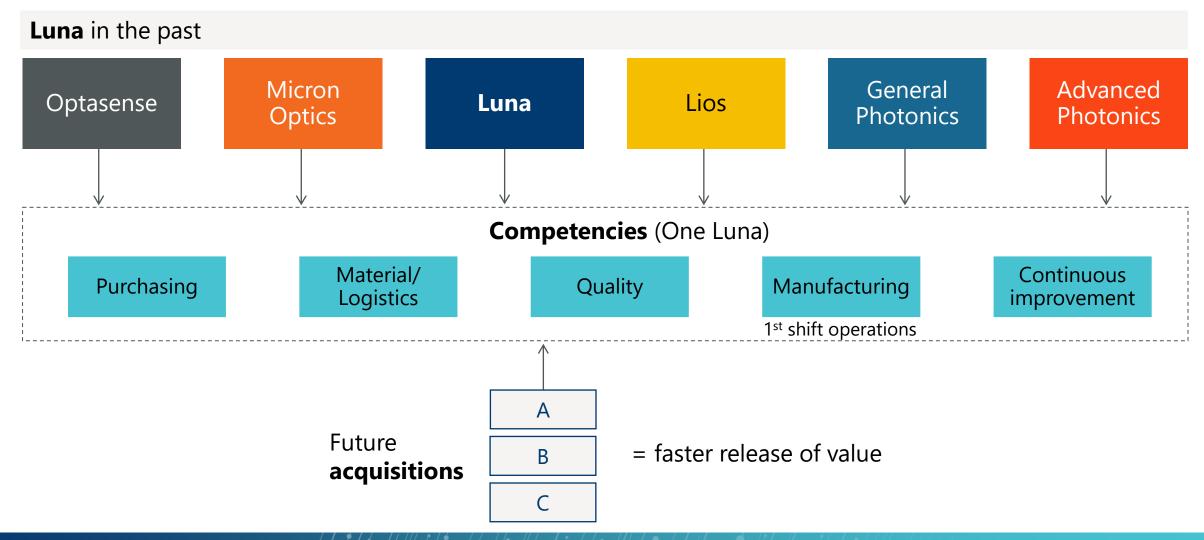
To:

- Fully-integrated and scalable global operations
- Simplified footprint allowing focused investment
- Robust capabilities and rigorous quality process system
- Continued implantation of platform-based products reducing costs and lead-times
- Leveraging capabilities from all locations

The "how" – operational tactics to achieve our goal

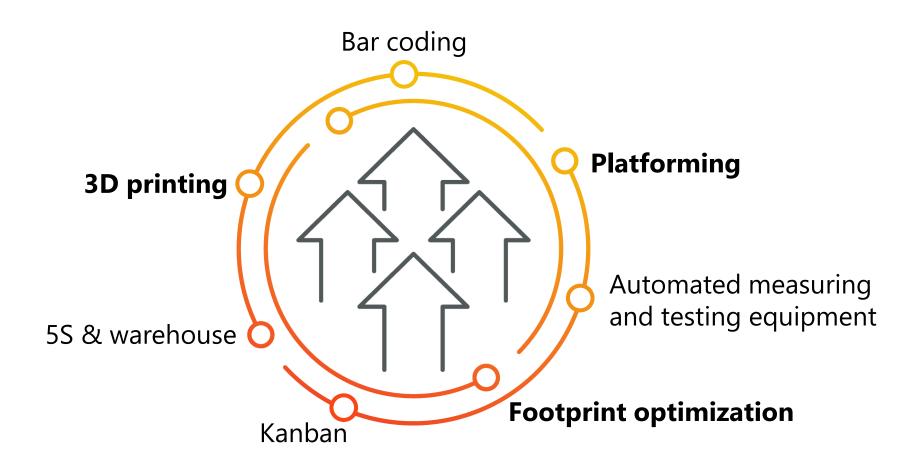


1 Scalability: Transform operations from vertical independent divisions to core competency-based functions



2

Drive a continuous improvement philosophy across all Luna operations – project driven



Focus on Quality processes



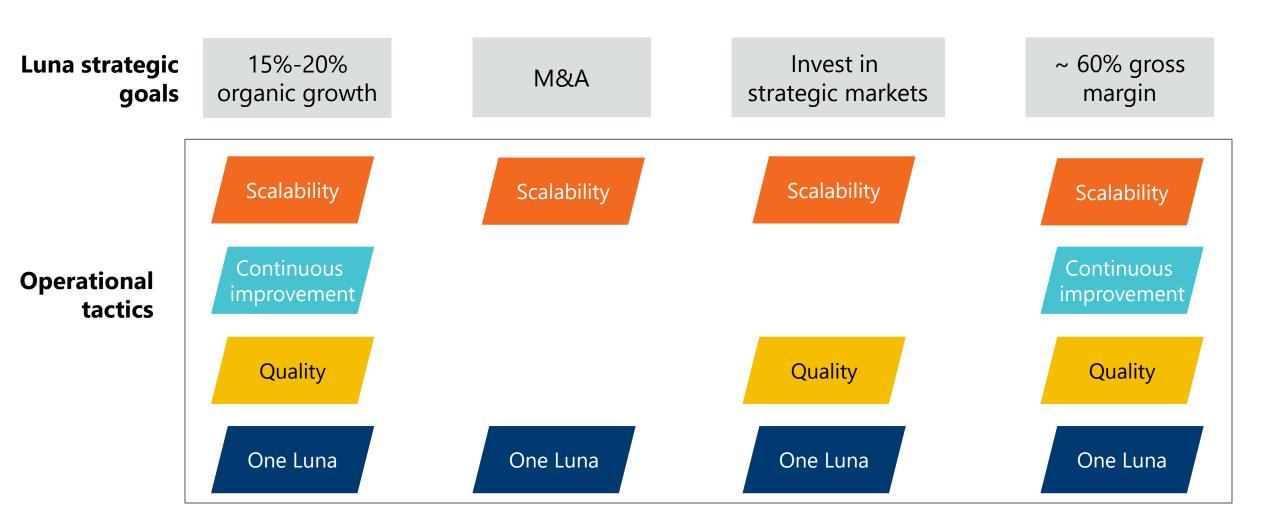
- ISO 9001 2015 for all Luna
- Install quality rigors
 - Design & process (DFEMA & PFEMA)
 - Consistency in processes gauge (R&R)
 - Implement safe launch to reduce escapes
- Empower employees (shut it down)

Strengthen & build upon "One Luna" by utilizing our operational expertise within all locations



- Align critical competencies of all manufacturing division and drive standards
- Consolidate footprint to improve absorption
- Establish succession plans through operations
- Leverage purchasing power
- Build to inventory plan
- Leverage expertise across all locations and competencies to reduce cost and lower risk

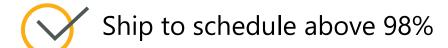
Operational tactics align to Luna strategic goals



Operations: What does success look like?

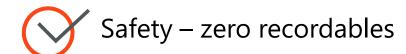












Continuous shareholder value creation







We've been preparing sales for this moment

Reorganized from siloed and non-integrated to focused and integrated

- Fine-tuned sales model
- Introduced uniform sales tools
- Focusing on One Luna operating philosophy
- Working in sync with Marketing to support Sales
- Foundation in place, but will continue to align sales in response to acquisitions and market opportunities

Sales goal

Increase sales 15% - 20% annually by leveraging our ability to provide total solutions to our customers via One Luna.

Current Luna global sales organization

Two sales teams focused on key core competencies and supporting revenue goals

Product Sales

Sales professionals focused on product sales

- Follows classical instrumentation sales model
- Technically capable of positioning products to close
- Instruments, Lasers & Modules that include Comms Test & Sensing

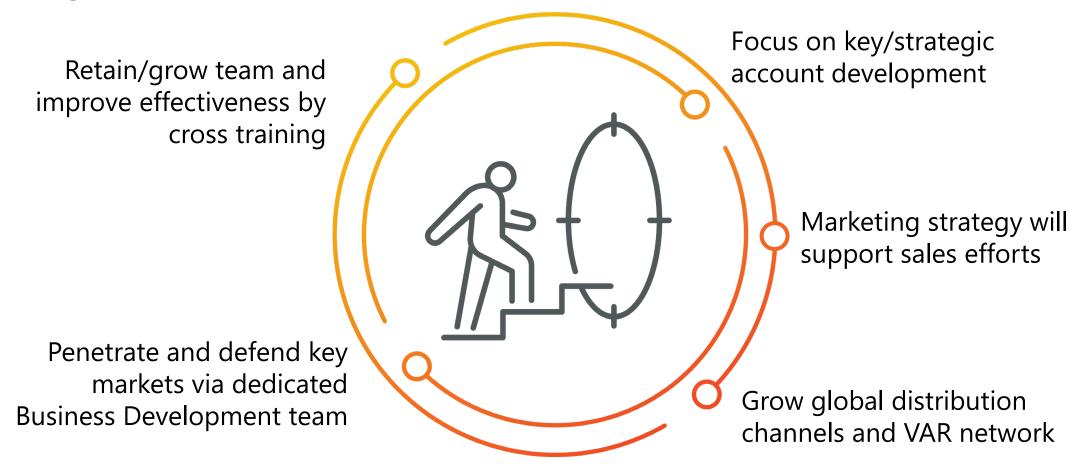
Systems Solutions

Team focused on large, field-deployable monitoring solutions

- Drives business by strategically aligning with key segments
- High customization + services
- High potential for recurring revenue for services and system upgrades

Sales growth strategy for next 3 – 5 years

How we get there



Sales: What does success look like?





- Cross sell Luna capabilities
- Aggressively expand sales funnel through sales and marketing efforts
- Consistently add and retain sales talent
- Leverage customer successes to drive incremental sales
- Increase shareholder value



Salvan Farooqui







Sustained organic top-line growth, enhanced by acquisitions

Demonstrated ability to prudently manage expenses and drive margin

History of accretive acquisitions and value-creating divestitures

New, modern systems allow scalability

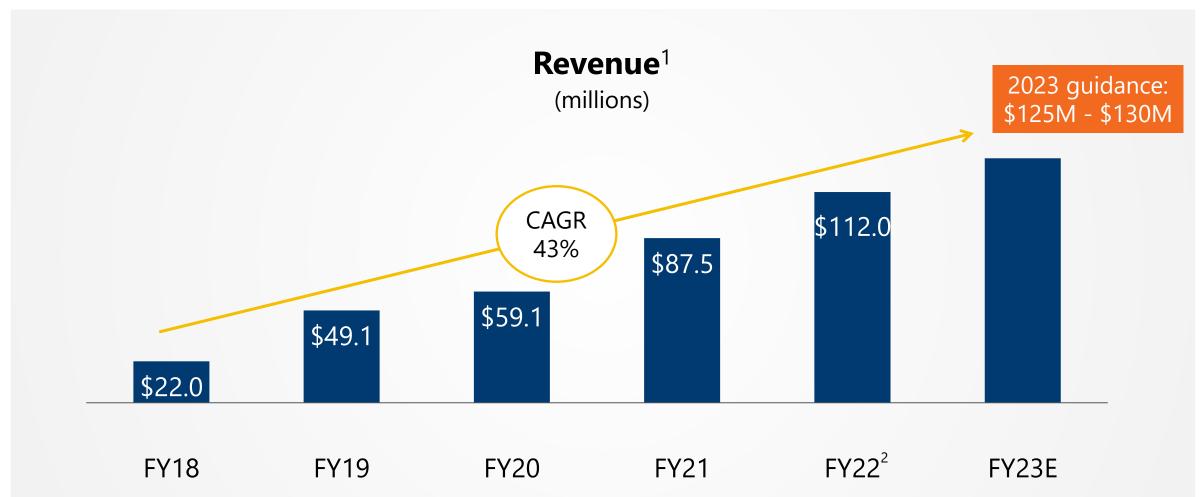


Our financial priorities will support long-term growth and profitability.

Priorities ensure the Finance organization is structured to support continued:

- Organic growth
- Acquisitions activity, including robust due diligence and integration
- Access to capital

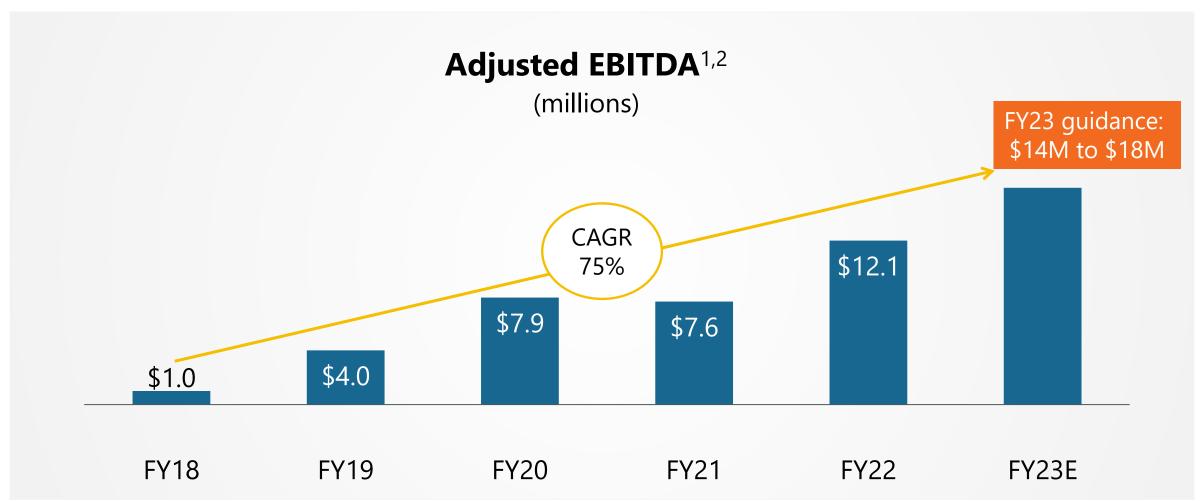
Revenue has been driven by strong organic growth, supplemented by efficient M&A



¹Results exclude Luna Labs

²Constant currency

We have delivered solid AEBITDA, while internally funding many initiatives



¹Results exclude Luna Labs

² Adj EBITDA is a non-GAAP measure. Reconciliation of comparable GAAP measures to non-GAAP measures are included in the appendix of the Q1 22 presentation found on our website

Luna will continue to deploy capital prudently

Balance sheet on March 31, 2023	
Total assets	\$152.1M
Cash and cash equivalents	\$3.6M
Working capital	\$57.3M
Total debt outstanding	\$25.2M
Term debt	\$18.5M
Draw on revolver	\$6.7M

All investments over past five years – (business and M&A) – were funded using balance sheet through cash and bank debt

Future – will deploy capital to generate long-term sustainable growth

- Increasing organic sales
- Reinvesting in our business
- Identifying inorganic opportunities

Financial objectives for next 5 years



Revenue growth	15% - 20% Double revenue in 4 – 5 years
Gross margin	60%
Profitability	~20% AEBITDA

= increasing shareholder value

Reaffirming 2023 Guidance



Full-year total revenue \$125M to \$130M



Full-year adjusted EBITDA \$14M to \$18M



Top-line revenue guidance for Q2 \$29M to \$31M

As a CFO I believe our company's success is not just measured by our financial performance, but by the impact we have on our stakeholders and the world around us.

Gene Nestro



Key takeaways from today's presentation

Completed goals set out in last 5-year plan to create a **pure-play fiber optics** company Provide mission-critical information to our customers to maximize their processes and protect their assets

"One Luna"
philosophy
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growth

continue to invest in scalable platforms, processes and people

Aligned with macro trends in industries with vast market potential



