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LUNA | Strategic Growth through Merger & Divestment

LUNA



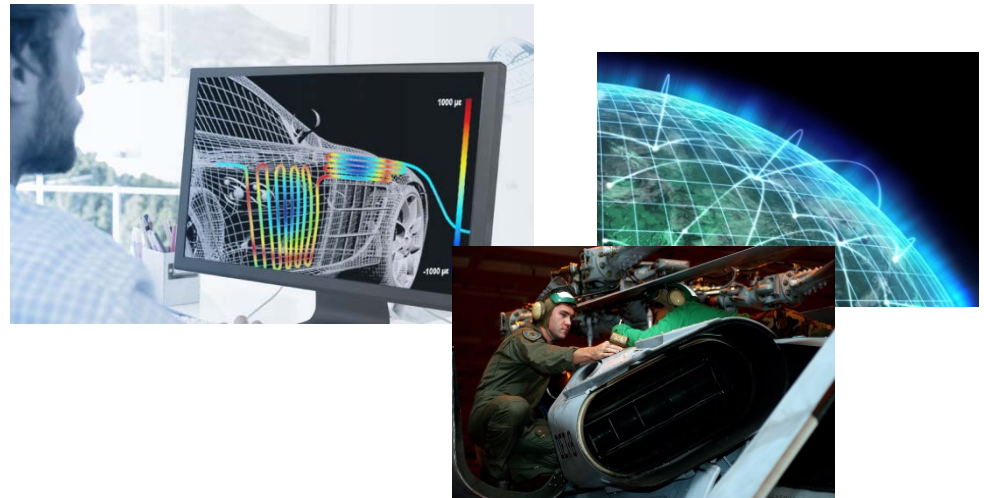
API



LUNA, a public company, merged with API in May 2015, creating a \$50 million company with greater capability across a broadened market base, a reduced overhead structure, and a clear path towards profitability.

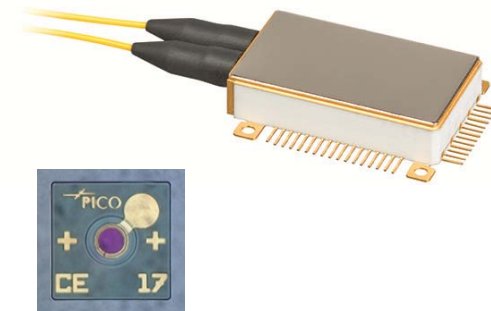
History of Successful restructuring

- Divestment of Secure Computing
 - Sold to MacAuley-Brown for \$6.1M in March 2013
- Divestment of Medical Shape Sensing
 - Sold to Intuitive Surgical for \$21M in January 2014



High Speed Optical Receivers

High performance 100G optical receivers for the long-haul and metro network expansions and 2.5G and 10G avalanche photodiodes for the fiber to the home market



High Definition, Distributed Strain & Temperature Measurement

Ability to test fatigue of composite materials/structures faster, cheaper and with higher resolution than conventional strain gage systems



- **Industry growth driven by global bandwidth demand**
 - HD video, streaming services, mobile data consumption (movement to 5G)
 - Fiber-to-the-Home/Premise market
- **Demand for speed in connectivity**
 - Faster speeds for the consumer and commercial markets
 - Driving the need for 100G coherent receivers
 - Datacenter market is upgrading from 10G/40G to 25G/100G



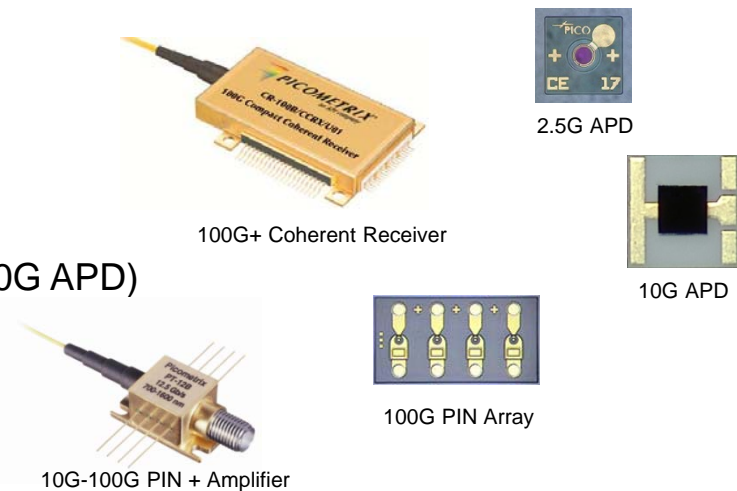
July 2016 Report

- **Optical sector is in an unprecedented “Super Cycle”***
 - **Strong growth in demand of optical components from China**
 - New orders to increase 50% or more QoQ and should last well into 2017
 - Cycle should be 2-3x larger than and longer than any previous growth cycle
 - **Upgrading of the Metro Core market**
 - Has begun and should ramp sharply in a multi-year buildout
 - **Upgrading of optical transceivers in Data Comm**
 - Transition from 10G/40G to 25G/100G
 - **Building transport capacity for upcoming 5G wireless networks**

* “Optical Super Cycle? We Think So,”. Needham & Co. July, 2016. Alex Henderson

- **Where we fit in the market**

- Transmission
 - Metro Core (100G+ coherent receivers)
 - Data Comm (100G+ 4x25G PIN arrays)
 - Fiber-to-the-Home/Premise (2.5G APD, 10G APD)
- Test & Measurement
 - 10G and 100G manufacturing test



- **Why we'll succeed**

- We've developed the next generation 100G coherent receivers
 - Initially targeting the rapidly expanding Chinese market
- High volume FTTx market is moving from 2.5G to 10G APDs
 - Our APDs provide higher bandwidth and better sensitivity across temperature
- We're the major supplier of devices that are better than the devices under test
 - Strong market share position

- **Why Fiber Optic Sensing is a high growth opportunity**

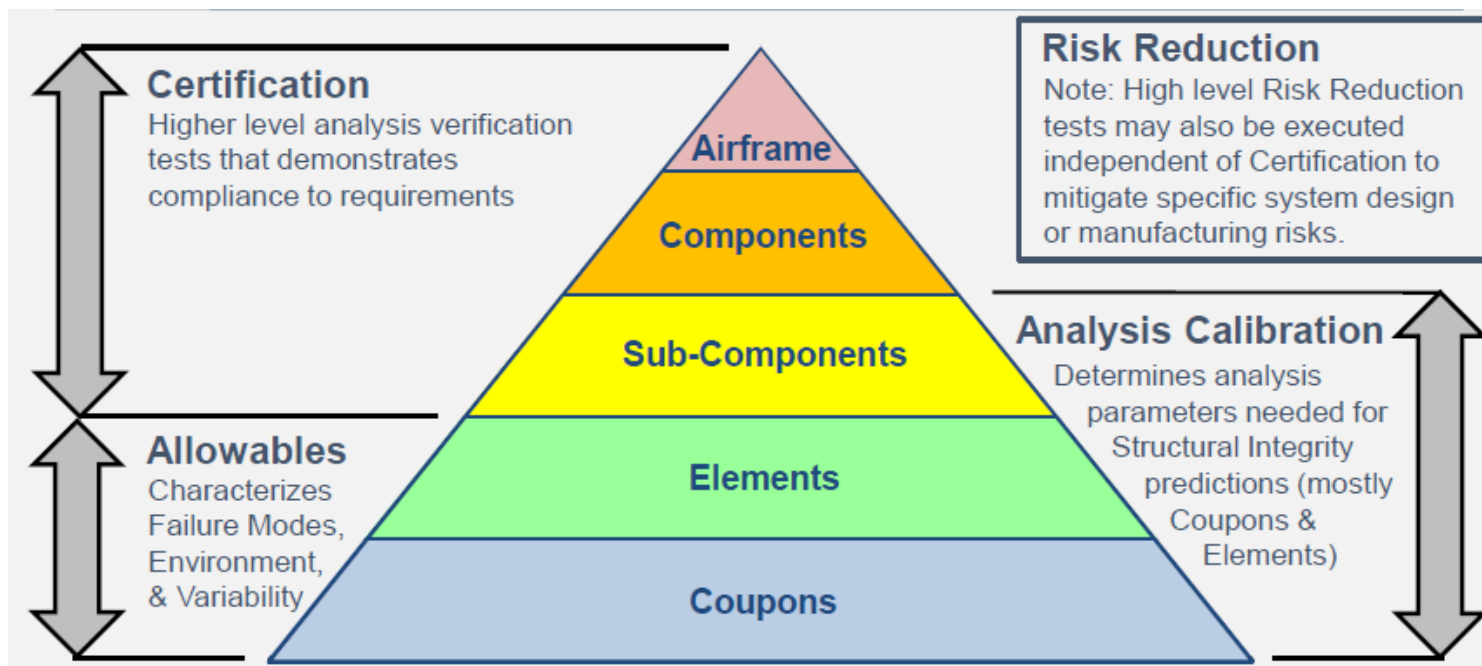
- Use of composite materials is growing (because they're lighter and stronger)
 - Aerospace demand expected to double, or even triple, over the next decade
- Composite materials, unlike metals, are non-uniform
 - Creating a need for new testing technology
 - Require better, more cost-effective testing techniques than conventional strain gages

- **Size of the Sensing market**

- Total stress/strain market including electrical : \$4.5B
- Luna addressable market: \$350M
 - Automotive: \$110M
 - Aerospace: \$90M
 - Academic, Energy, Civil, Other: \$150M

LUNA | Aerospace: Building Block Standard of Test

- Adoption cycle for ODiSI platform started in the “Risk Reduction” category
- Sales strategy and product roadmap addresses gaps to cover all of the building block tests to accelerate adoption and get on the path to a *pervasive standard of test*



Building Block Test (BBT) method used in aerospace

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LUNA | Structural Composites in Automotive Design



- The need for lighter weight, more cost-effective fleets are driving the automotive OEMs to introduce composites and other lightweight materials at an accelerated rate
- ODiSI addresses test challenges associated with the introduction of new materials by helping engineers understand performance and mitigate flaws

LUNA | Competitive Advantages of Fiber Optic Sensing

- **Unique benefits of our fiber optic sensing technology**

- Distributed sensing vs. single point sensing
- Ultra high-definition measurements
- Drastically reduced cost of sensor installation compared to strain gages
- Sensors are “embeddable” in composites
- Fiber optic sensing is far easier to use

Traditional Strain Gage



- One sensing point per channel
- Limited sensing points
- Labor-intensive installation
- Static sensing points

VS.

Luna's ODiSI B



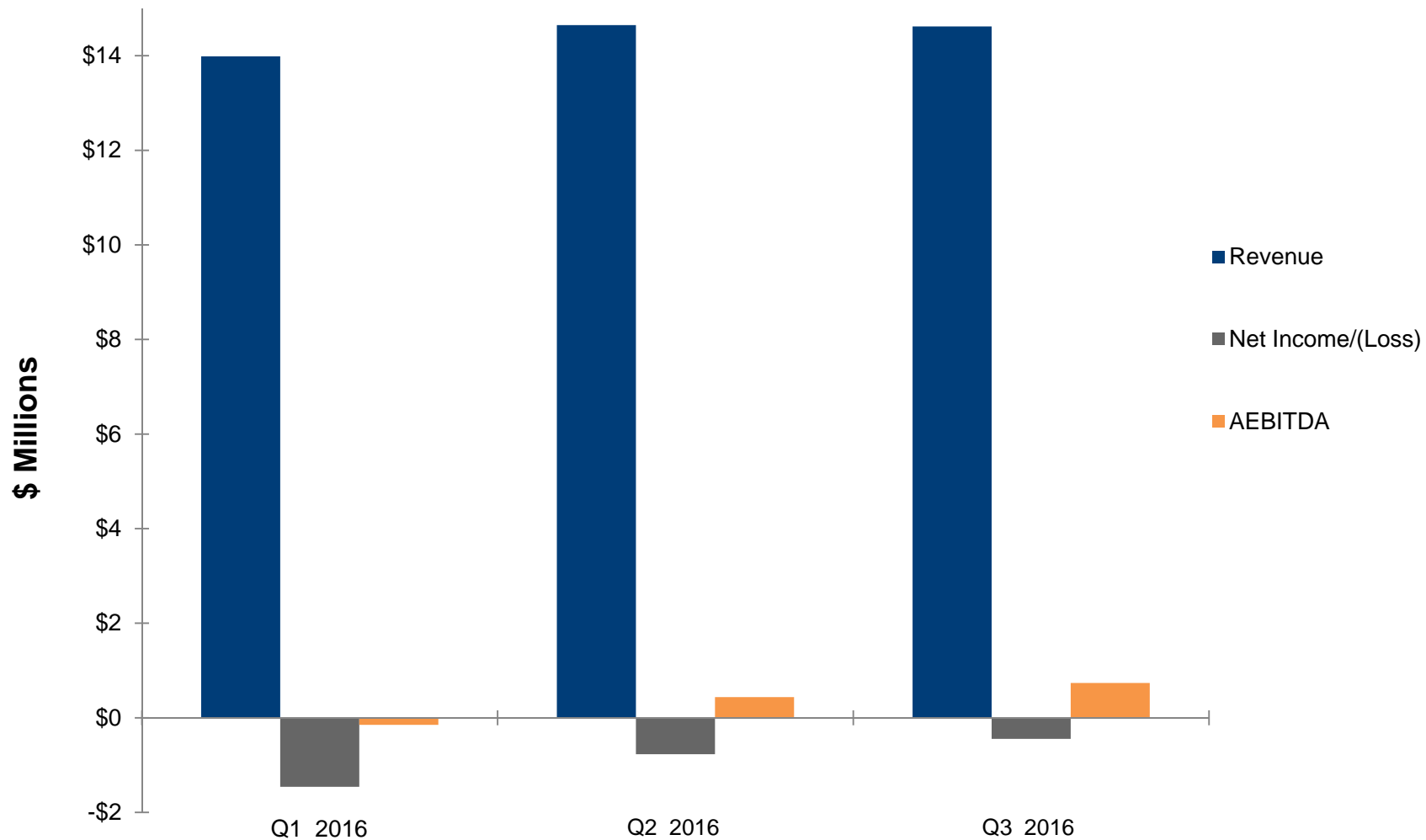
- 1000's of sensing points per fiber
- Fully distributed sensing
- Fast and efficient installation
- Sensing points are flexible

- **Cost comparison relative to strain gage technology**

- Our system is 10 times faster to install, and is 10 times more cost-effective

LUNA | Operating Results

LUNA | 2016 Operating Results



LUNA | Key Financial Metrics

- Share Price as of Dec. 2, 2016 \$1.39
- Shares Outstanding 27.5 M
- Market Cap \$38.3 M
- TTM Revenue as of Sept. 30, 2016 \$58.7 M
- TTM Adjusted EBITDA as of Sept. 30, 2016 \$1.4 M

NASDAQ: LUNA

LUNA | Executive Team



My Chung, President and Chief Executive Officer

- Former Senior Vice President of Sunrise Telecom
- Former President and CEO of Circadiant Systems, Inc.
- Former President of Spirent Communications and Group Executive of Spirent PLC
- Bachelor's degree in Electrical Engineering, from the New Jersey Institute of Technology



James Garrett, Ph.D., VP of Technology Development

- Joined Luna in 2005, and was promoted to VP in July 2012
- Prior to joining Luna, worked for Bayer Material Science and conducted research at the Naval Research Laboratory
- Bachelor's degree in Chemistry from the College of William and Mary, and a doctoral degree in Material Science and Engineering from Penn State University



Scott Graeff, Chief Strategy Officer and Treasurer

- Has held titles including COO, EVP, Corporate Development, Chief Commercialization Officer and member of the Board of Directors at Luna
- Previous roles in venture capital and investment banking
- Bachelor's degree in Commerce from University of Virginia



Jean-Pierre Maufas, GM, Luna Optoelectronics

- Joined Advanced Photonix in January 2010, which subsequently merged with Luna Innovations in 2015
- Previously held General Management positions with ATK and Rexnord / PSI Bearing
- Spent 7 years with Danaher / Aerospace Group in increasing roles in Operations, last being VP Operations for Aerospace Group
- Spent 13 years with Zodiac Aerospace in various roles in Quality and Operations
- BS in Manufacturing Engineering from Pons University (France) 1984; Berkeley Advanced Management Program Certificate in 2001



Geoff McCarty, VP of Marketing

- Joined Luna in 2012
- Has led marketing and advertising at Advance Auto Parts, a Fortune 500 company, Hechinger, Home Quarters, and Pep Boys
- Bachelor's degree in Fine Arts, and has spent more than 25 years in marketing, business development, brand transformation, and market positioning



Dale Messick, Chief Financial Officer

- Joined Luna in 2006
- Has more than 20 years of experience in accounting and financial reporting, pre-initial public offering and IPO activities, and management
- Bachelor's degree in Business Administration from the College of William and Mary and is a certified public accountant



Rob Risser, VP, COO, Picometrix Division

- Has served as an executive in both private and public companies in the communications and industrial markets
- Served as chief operating officer, secretary and a member of the Board of Directors of Advanced Photonix Inc. and general manager of Picometrix LLC (an API subsidiary)
- Prior to joining API, he served as chief executive officer and member of the Board of Directors of Picometrix, which he co-founded in 1992
- MBA from the University of Michigan in 1978; passed the CPA



Brian Soller, Ph.D., VP & GM, Lightwave Division

- Former VP of Marketing for Micron Optics & VP of global sales and business development for Lightpath Technologies
- Originally spent ten years in fiber optics with Luna as a Scientist ultimately as General Manager of the Products Division
- Co-developed instrumentation for fiber optic devices
- Bachelor's and master's degree in mathematics and physics from University of Wisconsin - La Crosse, and a doctoral degree from the Institute of Optics, University of Rochester



Dale Messick, Chief Financial Officer

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