



empower with light™

Presentation at Citi 2012 Technology Conference

September 6, 2012

Hong Hou

Chief Executive Officer

Mark Weinswig

Chief Financial Officer

“Safe Harbor” Statement

Forward-Looking Statements:

This presentation contains forward-looking statements within the meaning of the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995. These statements are based on management’s current expectations and beliefs and are subject to a number of factors and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. The forward-looking statements contained in this presentation include statements regarding the ability of our contract manufacturer to resume production, the expected impact of the Thailand flooding on our supply chain, our ability to meet customer demand for our fiber optics products, and our ability to collect insurance proceeds, industry and market conditions. These statements are not guarantees of future performance, involve risks, uncertainties and assumptions that are difficult to predict, and are based upon assumptions as to future events that may not prove accurate. Therefore, actual outcomes and results may differ materially from what is expressed herein. In any forward-looking statement in which the Company expresses an expectation or belief as to future results, such expectation or belief is expressed in good faith and believed to have a reasonable basis, but there can be no assurance that the statement or expectation or belief will result or be achieved or accomplished. Information concerning risk factors are detailed in the Company’s SEC reports, including the Annual Report on Form 10-K for the year ended September 30, 2011 and the Quarterly Report on Form 10-Q for the quarters ended December 31, 2011, and March 31, 2012 and June 30, 2012.

Generally Accepted Accounting Principles:

This presentation includes non-GAAP financial measures where indicated. The Company reports its financial results in accordance with GAAP. Additionally, the Company supplements reported GAAP financials with non-GAAP measures which are included in related press releases and reports furnished to the SEC, copies of which are available at the Company’s website: <http://www.emcore.com> or the SEC’s website at: <http://www.sec.gov>. These non-GAAP financial measures complement the Company’s consolidated financial statements presented in accordance with GAAP. However, these non-GAAP financial measures are not intended to supersede or replace the Company’s US GAAP results. These non-GAAP measures are presented in part to enhance the understanding of the Company’s historical financial performance and comparability between reporting periods. The Company believes the non-GAAP presentation, when shown in conjunction with the corresponding GAAP measures, provide relevant and useful information to analysts, investors, management and other interested parties. These non-GAAP measures are not in accordance with, or an alternative for measures prepared in accordance with GAAP, and may be different from non-GAAP measures used by other companies. In addition, these non-GAAP measures are not based on any comprehensive set of accounting rules or principles. The Company believes that non-GAAP measures have limitations in that they do not reflect all of the amounts associated with the Company’s results of operations as determined in accordance with GAAP. These measures should only be used to evaluate the Company’s results of operations in conjunction with the corresponding GAAP measures.

At a Glance

FY2011 sales (Oct-Sep)	\$201M
Employees	~1,000
NASDAQ ticker symbol	EMKR
Founded	1984

EMCORE WORLDWIDE



Centers of Excellence

Alhambra, CA – Fiber Optics Broadband
Newark, CA – Fiber Optics Telecom
Albuquerque, NM (HQ) – Space Solar Cells
Ivyland, PA – Specialty Photonics

Langfang, China – Fiber Optics Manufacturing
Huainan, China – CPV Solar Manufacturing JV

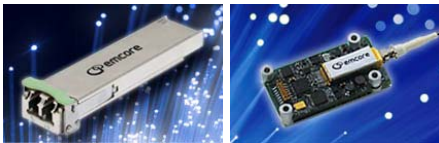
Global Communications and Power at the Speed of Light

Fiber Optics

Broadband



Telecom



InP Fab & Lasers / PDs
CATV Modules & Tx
FTTx Components
Video Transport
Satcom/ μ wave Links
Specialty Photonics

External-Cavity Lasers
Tunable TOSAs
Tunable XFPs
40, 100 Gb/s ITLAs
Micro-ITLAs
100 Gb/s CFP TRx

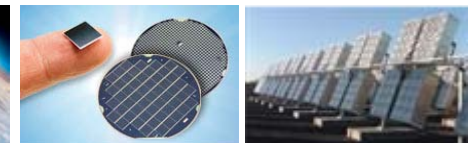
Solar Photovoltaics

Space Solar Power



MJ Solar Cell Fab
Space Solar Cells
Coverglass
Interconnected Cells
Space Solar Panels
Gov't Space Programs

Terrestrial Solar Power



CPV Solar Cells
CPV Rx Assemblies
CPV Solar Power Systems for Grid-tied
CPV Systems for Commercial Rooftop

- **Strong financial profile**
 - FY11 Revenues >\$70M with Gross Margins ~30%
- **Products:**
 - CATV: key optical components and subsystems to enable MSOs' upgrades of the HFC network to offer premium services
 - FTTx: key optical components for fiber-to-the-home infrastructure to offer triple play services
 - Video/IP: equipment for broadcasters and pro A/V for high-definition video transport and conversion
 - Specialty Photonics for satellite, aerospace, defense/homeland security markets
- **Differentiator: Strong IP and vertically integrated infrastructure**
- **Growth Drivers:**
 - MSO's continuous upgrade to their HFC infrastructures for premium services – 1GHz, QAM, RFoG, and longer reach
 - Emerging businesses enabled by our technology differentiators
 - Video Transport equipment, Fiber Optical Gyro transceivers, Terahertz Spectroscopy

CATV/FTTx



Integrated Products

- 1550nm DWDM TxS
- DWDM QAM TxS
- 1310nm Transmitters
- 1550nm Optical Amplification
- 1310nm / 1550nm Receivers

Component Products

- Analog CATV Lasers
- Photodiodes
- FTTx - PON and GPON Triplexers

Video Transport



- 3G HD / HD-SDI / SDI DVI / HDMI / VGA/RGBHV / Composite / Component Video over Fiber
- 3G HD / DVI / HDMI Video over IP (Internet Protocol)
- Optiva Platform
- openGear Platform

Satcom/Microwave–Specialty Photonics



- Satellite Fiber Links
- Microwave Fiber Links
- Optical Delay Lines
- Fiber Optic Gyroscope (FOG)
- Terahertz (THz) Systems

■ Differentiated Laser Platform Provides Superior Performance

- External cavity lasers (ECL) provides narrowest linewidth
- Laser of choice for 40 and 100 Gb/s coherent applications
- 10 Gb/s Tunable XFP solution using ECLs enables 300-pin transponder replacement

■ Market Drivers

- TXFP to replace 300-pin transponders and DWDM XFP with TAM of \$250-\$400M /year
- Emerging trend of 40, 100 Gb/s, and higher transmission systems using COHERENT architecture
- EMCORE's leading products at the beginning of their life-cycle

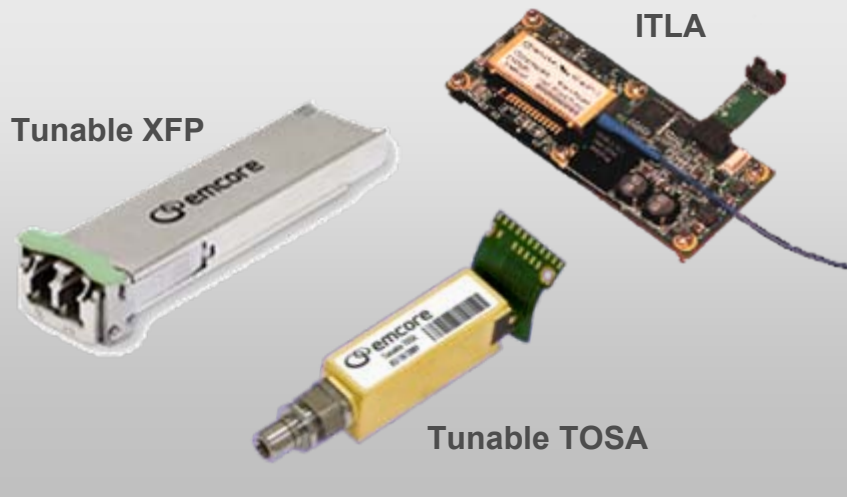
■ Manufacturing ramp-up throughout 2012

- Recovery of ITLA manufacturing on schedule— production resumed
- Large scale production lines for Tunable XFP expected to be complete in October 2012

■ Business Highlights

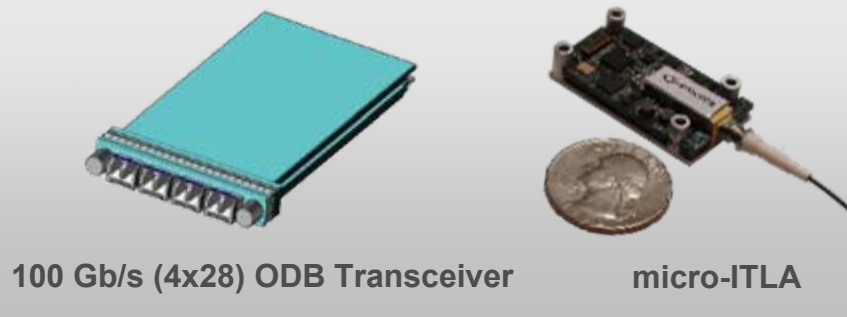
- 40 and 100 Gb/s coherent laser market is one of the fastest growing segments
- Gross margins and profitability are expected to improve as volume ramps

Immediate Growth Opportunities

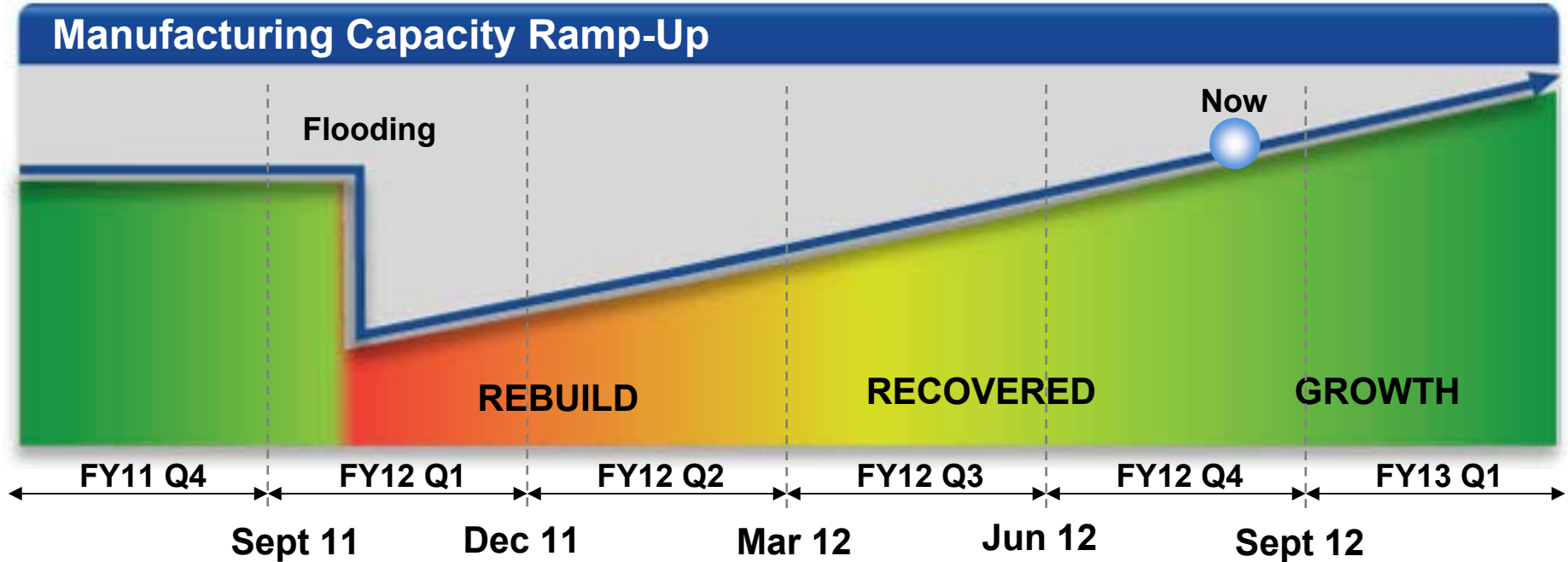


- **Tunable XFP Transceivers**
 - Superior transmission performance
 - Superior optical performance
 - Superior flexibility
- **ITLAs (Integrable Tunable Laser Assemblies)**
 - Best source for coherent applications
 - 40, 100, 200, 400, Gb/s applications
- **Tunable TOSA**

Future Growth Opportunities



- **NEW micro-ITLAs**
 - 3X smaller form-factor
- **NEW 100 Gb/s (4x28) ODB Transceiver**



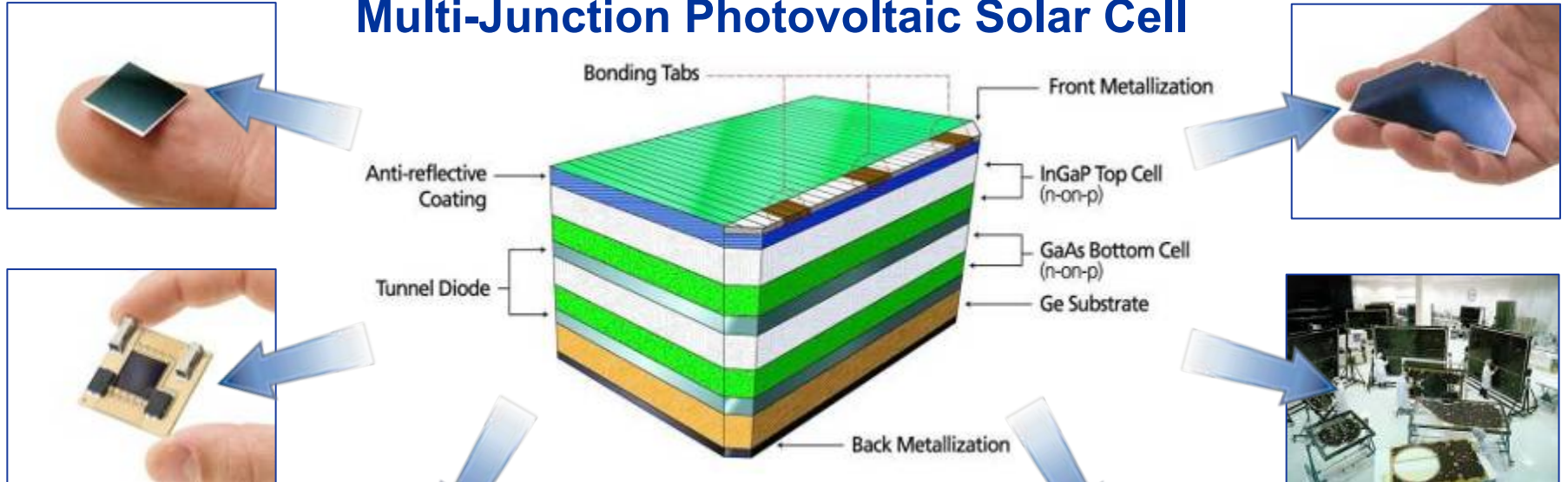
- New CATV production line in China is online
- Production line in Thailand for narrow-linewidth lasers for 40 and 100 Gb/s coherent applications is up and running, ahead of our original schedule
- By October 2012, EMCORE should be fully recovered from Thailand flooding and can achieve pre-flood production run rates on continuing product lines

Strong Fiber Optics Customer Base

Telecom				Broadband	
		Alcatel-Lucent			

CORE TECHNOLOGY

Multi-Junction Photovoltaic Solar Cell



SPACE EFFICIENCY
29.5%

40.0%
TERRESTRIAL
CPV EFFICIENCY



■ Stable, growing business

- Annualized revenue ~\$60 - \$70M
- Gross margin: 25% - 30%
- Operating margin: 5% - 10%
- Strong visibility with >\$45M backlog

■ Competitive position

- Technology leadership
- Strong customer relationships
- Outstanding reliability record

■ Space solar market drivers

- Expand market share for commercial satellites
- Expand government business with Trusted Supplier program
- Expand to more integrated and value added products, such as solar panels

Space Solar Products

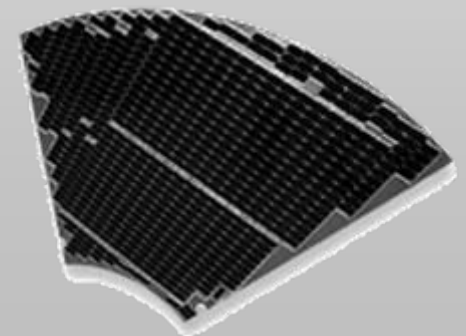
Space Solar Cells



Satellite Solar CIC Assemblies



Satellite Solar Panels



- **EMCORE's CPV solar manufacturing partner**
 - High volume manufacturer of EMCORE designed CPV components and systems to supply EMCORE and Suncore needs
 - 40% EMCORE-owned joint venture supported by grants to develop solar power business in China
- **Completed Phase-I construction at new Huainan facility – 200 MW annual capacity**
 - Commenced volume production in February 2012
 - Currently producing modules for 50 MW CPV installation in Golmud, China



The Company is Poised to Grow and Deliver Improved Profitability

Fiber Optics		Solar Photovoltaics	
Broadband	Telecom	Space Solar Power	Terrestrial Solar Power
			
<ul style="list-style-type: none"> ▪ New CATV production line in China is online ▪ MSO's upgrading HFC networks to compete with Telecom, FTTx ▪ Vertically integrated products sets EMCORE apart ▪ Growth ops in Video Transport, Fiber Optic Gyro and Terahertz Systems 	<ul style="list-style-type: none"> ▪ Best-in-class products for large growing markets ▪ Manufacturing expected to recover by Sept. 2012 ▪ EMCORE Tunable Laser technology "laser of choice" for coherent systems ▪ Key to profitability 	<ul style="list-style-type: none"> ▪ Profitable ▪ Great visibility with large order backlog ▪ Many recent contract awards ▪ Market leader 	<ul style="list-style-type: none"> ▪ Launching Commercial Rooftop CPV system in 2H 2012 ▪ Industry leader in multi-junction solar cell production ▪ Suncore facility operational at 200 MW annual capacity



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