



Photonics Industry Update



√ National Photonics Initiative



√ Measuring the market



✓ International Year of Light

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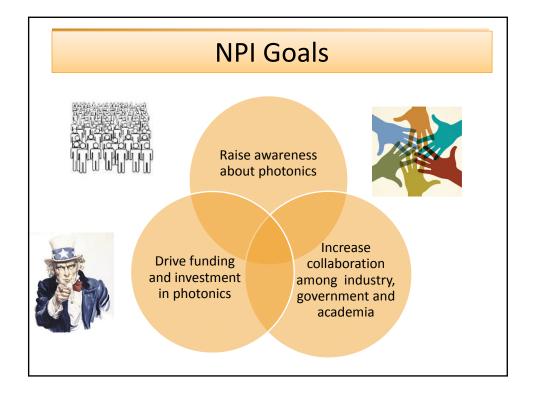
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National Photonics Initiative Update

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National Photonics Initiative

The National Photonics Initiative (NPI) is a collaborative alliance seeking to unite industry, academia and government to identify and advance areas of photonics critical to maintaining US competitiveness and national security

Focus on 5 areas of highest economic impact

Information Technology & Telecom



Energy & Environment



Advanced Manufacturing



Defense & Homeland Security

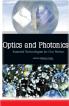


Biomedicine



National Photonics Initiative Milestones









- Aug 2012 National Academies study
- Sep 2012 task forces established
- Feb 2013 DC kick off meeting
- Apr 2014 OSTP report released
- Jun 2014 DOD RFI includes photonics
- Jul 2014 Photonics in authorization bills



Recent Accomplishments

- Testimony before House Science, Space & Technology subcommittee
- OSTP Committee report on optics & photonics
- Photonics included in DOD RFI
 - 300 registered for our webinar
 - 50% of respondents were from photonics community
- NSF dear colleague on optics and photonics
- Photonics language proposed in 3 authorization bills
- OSTP interest in collaboration on biophotonics and the BRAIN Initiative

Next Steps

- Develop strong community response if there is a call for a photonics manufacturing institute
- Finalize task force white papers and look for 2016 budget opportunities
 - Sensors for energy and environment (DOE)
 - Biophotonics (OSTP & NIH)
 - High power lasers (DOD)
 - STEM education (Congress)
- August in-district visits campaign
- · Fall manufacturing caucus event
- Multi-society fall DC fly-in



Get Involved

SUPPORTER OF THE SUPPOR

www.LightOurFuture.Org

- · Link to the NPI website and post the websticker
- Ask your organization to become a supporter
- Invite legislators to tour your company/lab
- Visit your local congressional offices
- Join us for congressional visits in DC
- Mention the NPI in your newsletters & on Facebook
- Submit a letter to the editor/op-ed to your newspaper
 - Economy, jobs, technology developments

NPI Inspired Op Ed Pieces

Informing the General Public



Representative John L. Mica Florida, 7th district

"Let's be laser-focused on photonics for the future"

The Orlando Sentinel



Representative Louise M. Slaughter New York, 25th district

"Advancing American competitiveness by harnessing the power of light"

The Hill



Representative Ron Barber Arizona, 2nd district

"Let there be light: Photonics holds big promise"

Inside Tucson Business





SPIE's Photonics Market Analysis

from components to consumers



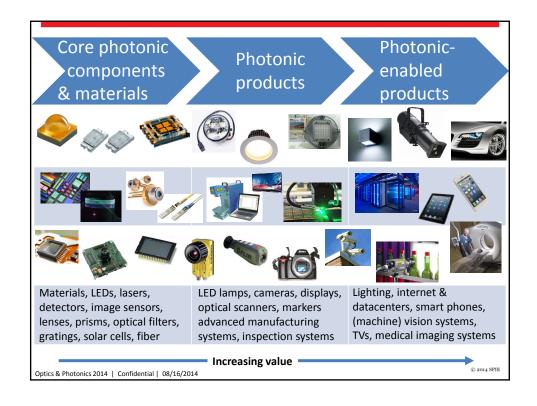
Measuring the Market using Company Information

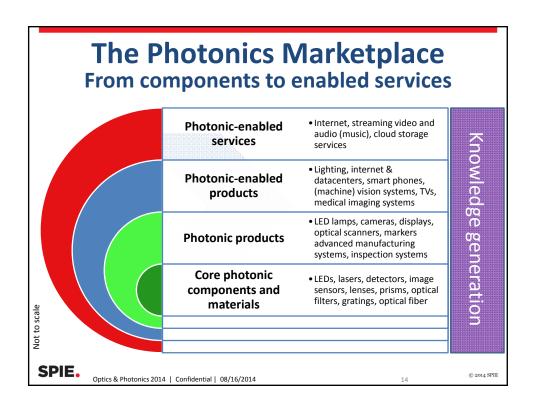
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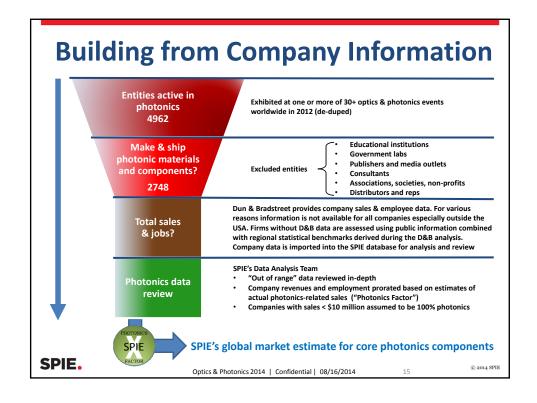
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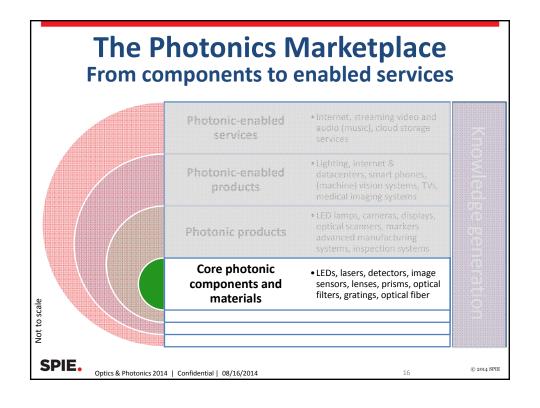
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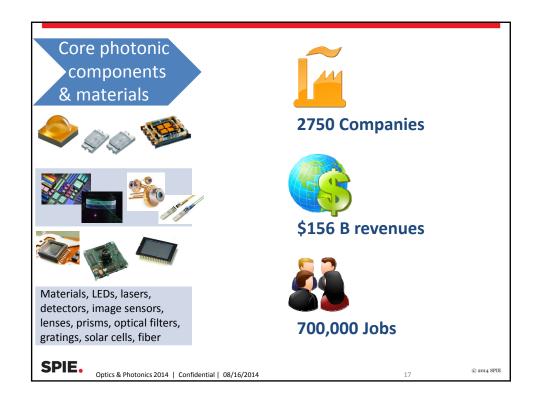
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WW Sales of Core Components

Global Photonics Sales of Core Optics & Photonics Suppliers in 2012	
Photonics firms WW	2748 ¹
Annual photonics sales	\$156 B ²
Photonics employees (jobs)	698,266 ²
Global average sales/employee	\$223,414

¹ Photonics firms that make and that ship photonics core components and that exhibited at a major photonics tradeshow somewhere in the world in 2012

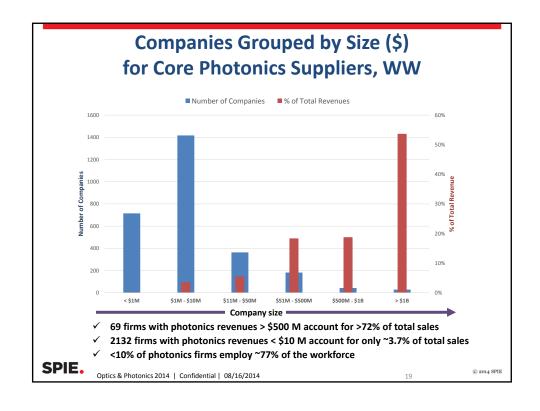
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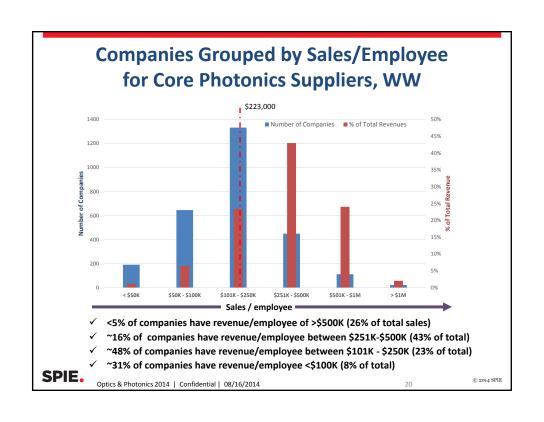
Optics & Photonics 2014 | Confidential | 08/16/2014

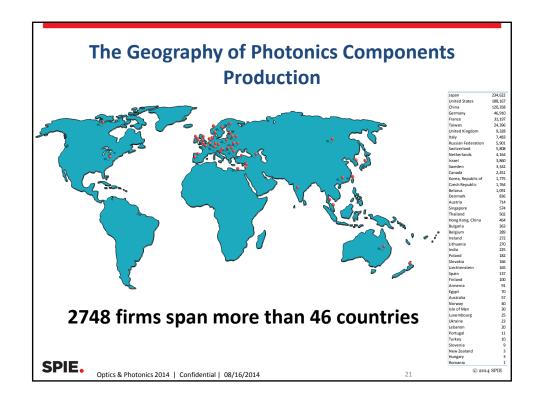
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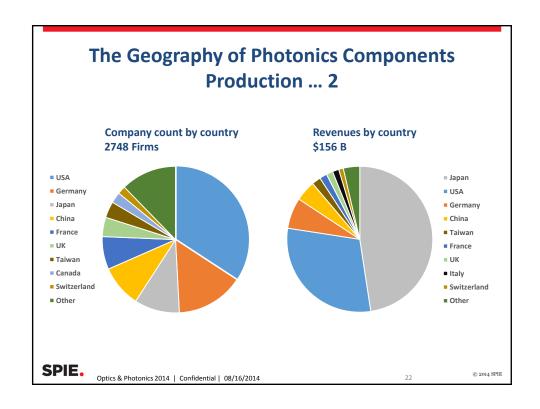
2014 SPIE

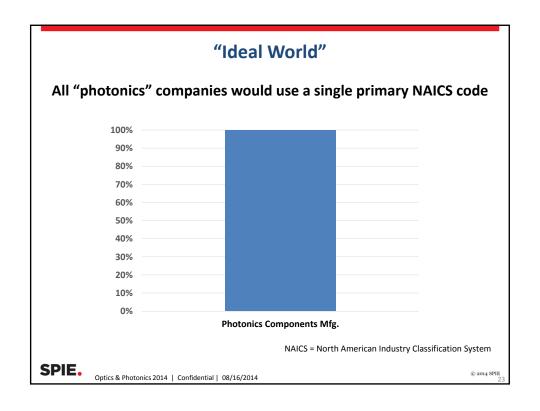
² Company revenues and employment are prorated based on estimates of photonics-related sales ("Photonics Factor"). Companies with sales of less than \$10 M are assumed to be 100% photonics; all data are for 2012.

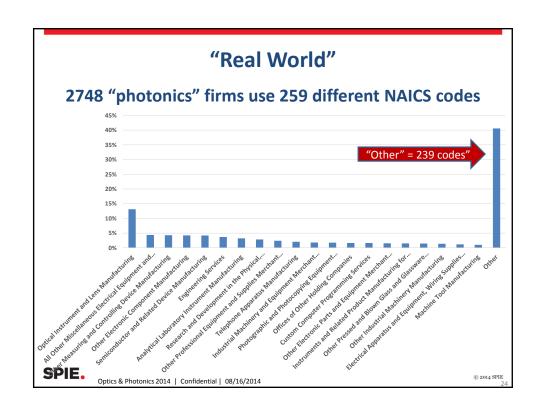


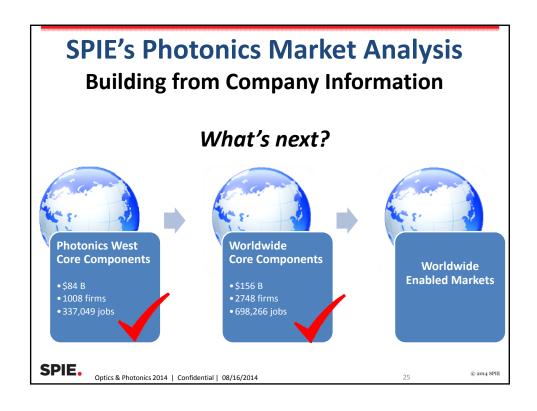






















- Partner with local festivals, libraries, airports & museums to put up the IYL general public panel display (coming in Dec)
- Use the <u>conference</u> panel display at your event (coming in Dec)
- Take the IYL poster & diffraction glasses project to a school
- Send us your IYL news and events for the global website
- Host an open lab day
- Show the SPIE IYL video
- Use the Twitter hashtag #IYL2015
- · Add IYL to your email signature block
- Sponsor a panel exhibit or Student Chapter IYL community activity
- · Write for the blog

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