



FOR IMMEDIATE RELEASE:

Future is photonic!

Executive Forum – Sep. 4&6, Shenzhen, China: Si Photonic, LiDAR, 3D Sensing & IR Imaging

Extracted from the following reports: LiDAR for Automotive and Industrial Applications - Silicon Photonics and Photonic Integrated Circuits - 3D Imaging & Sensing - Uncooled Infrared Imagers and Detectors



Alongside China International Optoelectronic Expo in Shenzhen, China



LYON, France – July 25, 2019:

“Photonics is one of the fastest growing high-tech industries in the world today”, asserts **Eric Mounier, PhD., Fellow Analyst at Yole Développement (Yole)**. “Pushed by the megatrends including 5G, autonomous driving, AI¹ and more, the industry is still looking for faster speed. Photonics technology, more than electronics solutions, is becoming little by little a serious player in the world of today and tomorrow. Without doubt, our future is photonics.”

The Yole Group of Companies, including [Yole Développement](#), [System Plus Consulting](#), [Knowmade](#) and [PISEO](#), announces its [annual Executive Forums: Si Photonic, LiDAR, 3D Sensing & IR Imaging](#) from September 4 to 6, in Shenzhen, China. Organized in collaboration with CIOE, these Forums take place in parallel to the 21st China International Optoelectronic Expo (CIOE). Yole announces a powerful program with numerous sessions and leading speakers: *HIK Vision, Innoviz, Intel, LGE, HP Electronics, Oxford Instruments, Sicoya, System Plus Consulting, Teem Photonics, Lynred (formerly ULIS), Valeo... and [more](#)*.

“Photonics, including Si photonics, LiDAR, 3D sensing and IR² imaging technologies, are experiencing exciting times, due to the meaningful impacts of video consumption, autonomous transportation and new HMIs³” comments **Guillaume Girardin, Photonic, Sensing & Display Director at Yole**. “Yole and CIOE have again decided to combine their expertise this year to offer an impressive program including presentations, debates and networking and with, for the first time, a dedicated Si photonic session. This 2019 edition is wonderful. It will be the place to be to understand the industry’s evolution and to measure the impact of the megatrends”.

¹ AI : Artificial Intelligence

² IR : Infra Red

³ HMI : Human Machine Interfaces

The program of the [Si Photonic Forum](#) taking place on September 4, is based on the latest technology and market trends of this industry and includes seven industrial speakers. Si photonics reaches an impressive 44.5% CAGR⁴ between 2018 and 2024. According to the *Si Photonic report* from Yole, the market will grow from around US\$455 million in 2018, equating to 1.3 million units, to around US\$4 billion in 2024, equating to 23.5M units⁵. In addition, this sector has recently recorded impressive M&A⁶, pushed by the GAFAM. As an example, the acquisition of Acacia Communications by Cisco for US\$2.6 billion is an important milestone in the consolidation of the photonics landscape in many ways. *“With the acquisition of Acacia, Cisco is disrupting the optical telecommunication market,”* comments Eric Mounier from Yole. (Read the full analysis on [i-micronews.com](#)). During the Si Photonic Forum, Yole and CIOE invite you to discover the status of the technologies and to understand how leading companies are shuffling the cards in the background...

The program of the [IR Imaging Forum](#) on September 6, is also based on the evolution of the industry. For many years, this sector has shown a steady growth, firstly pushed by the consumer market, and then by automotive and smart home applications. New applications are clearly driving greater shipment volumes and bringing the uncooled IR sensing market into a virtuous cycle. The uncooled IR detector and imager market looks promising. Annual growth rate is reaching 7% in value over the 2018-2024 period⁷. For microbolometers, numerous commercial applications have driven growth in the imager market. These include thermography, surveillance, PVS⁸ and firefighting...

“Infrared thermal imaging products can be widely used in various fields and have great market potential”, comments **Xueren Wang, R&D Manager, Ningbo Sunny Infrared Technologies**. And he adds: *“With the breakthrough of infrared detector material and packaging technology, the potential market will be further enlarged. In particular, the emergence of 12 μ m (and even smaller) detectors has provided more cost-effective options for the market, and has also driven the sale of small infrared lenses. As for IR lenses, it will be smaller, lighter and cheaper. Now, Sunny Infrared has created a new technology for compact lenses - SWLO. SWLO is a molding technology similar to WLO, but it significantly will reduce the mould investment with better lens performance. It is the key technology for mass production of large-scale small lenses in the future.”*

“Lynred is delighted to participate at CIOE, where we will demonstrate our new Atto640 for the first time in Asia”, said **Aurelien Dariel, Product Market Manager at Lynred**. *“CIOE has become the reference for the world’s optoelectronic industry, enabling an efficient gateway to the Chinese market which is very active in infrared imaging.”*

⁴ CAGR: Compound Annual Growth Rate

⁵ Source : [Silicon Photonics and Photonic Integrated Circuits report](#), Yole Développement, 2019

⁶ M&A : Merger & Acquisition

⁷ Source : [Uncooled Infrared Imagers and Detectors report](#), Yole Développement, 2019

⁸ PVS : Personal Vision System

Review the program and its seven presentations now in [IR Imaging Forum](#).

It is also not possible to review the photonics industry without mentioning LiDAR, its market and related technologies. After a successful first edition, Yole is proud to collaborate once again with CIOE to organize this [Second Executive Forum on LiDAR for Automotive](#). Taking place on September 5, 2019, the LiDAR Forum presents applications and technologies within the LiDAR industry, and more specifically, automotive-oriented solutions with the participation of seven leading LiDAR companies.

“With the integration of LiDAR in the Audi A8 in 2017, and the introduction of Waymo’s robotic car service in 2018 in Phoenix, Arizona, LiDARs are now on the roads,” says **Alexis Debray, PhD., Technology & Market Analyst at Yole**. *“AD⁹ is expected to be one of the next big things in the automotive industry. Several companies, including car manufacturers, Tier 1 suppliers, and LiDAR players, are preparing for mass production of automotive LiDAR with commercialization targets for 2020 and 2021. The automotive LiDAR supply chain is getting ready.”*¹⁰ With a half-day fully dedicated to LiDAR solutions for automotive, seven high level presentations, unique access to leading players and experts and networking time, Yole and CIOE are pleased to welcome you in Shenzhen within a few weeks. [Program & Registration](#) is available now!

The [3D Sensing Forum](#) will also be the place to be in September. The market research & strategy consulting company has analyzed 3D sensing for a while. With an impressive collection of reports, presentations, webcasts and dedicated events, Yole’s Photonic, Sensing & Display team is offering a comprehensive knowledge-base, mixing technical and market expertise. The iPhone X by Apple initiated a trend. What will happen next?

“At Yole, we expect the global 3D imaging & sensing market to expand from US\$2.1 billion in 2017 to US\$18.5 billion in 2023, at a 44% CAGR”, explains **Pierre Cambou, Principal Analyst at Yole**. *“Along with consumer, automotive, industrial, and other high-end markets will also experience a double-digit growth pattern.”*¹¹

Make sure to attend this Forum and register now on the [3D Sensing Executive Forum](#)!

With a powerful program including [4 photonic sessions](#), Yole and CIOE are really enthusiastic. 2019 will be an unforgettable experience. **Sponsorship offers are still available** - more information on [Forums’ Sponsorships](#).

Save the day right now and [register today](#)! **Early bird until August 9.**

⁹ AD : Autonomous Driving

¹⁰ Source : [LiDAR for Automotive and Industrial Applications report](#), Yole Développement, 2019

¹¹ Source : [3D Imaging & Sensing report](#), Yole Développement, 2018

ABOUT YOLE DÉVELOPPEMENT'S REPORTS:

[Silicon Photonics and Photonic Integrated Circuits report](#)

Silicon photonics: beyond the tipping point! - 2019

[Uncooled Infrared Imagers and Detectors report](#)

New applications drive greater shipment volumes, which drive new applications, bringing the uncooled IR sensing market into a virtuous cycle – 2019

[LiDAR for Automotive and Industrial Applications report](#)

Is rationalization happening in the LiDAR market? – 2019

[3D Imaging & Sensing report](#)

The iPhone X initiated a trend. What happens next? – 2018

More about the collection of photonic & imaging reports: [Here](#)

ABOUT YOLE DÉVELOPPEMENT

Founded in 1998, **Yole Développement (Yole)** has grown to become a group of companies providing marketing, technology and strategy consulting, media and corporate finance services, reverse engineering and reverse costing services and well as IP and patent analysis. With a strong focus on emerging applications using silicon and/or micro manufacturing, the Yole group of companies has expanded to include more than 80 collaborators worldwide covering MEMS & Sensors - Imaging - Medical Technologies - Compound Semiconductors - RF Electronics - Solid State Lighting - Displays - Photonics - Power Electronics - Batteries & Energy Management - Advanced Packaging - Semiconductor Manufacturing - Software & Computing - Memory and more...

The “More than Moore” market research, technology and strategy consulting company Yole Développement, along with its partners System Plus Consulting, PISEO and KnowMade, support industrial companies, investors and R&D organizations worldwide to help them understand markets and follow technology trends to grow their business. . For more information, visit www.yole.fr and follow Yole on [LinkedIn](#) and [Twitter](#).

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