

Disruptive photonic concepts for new applications & markets





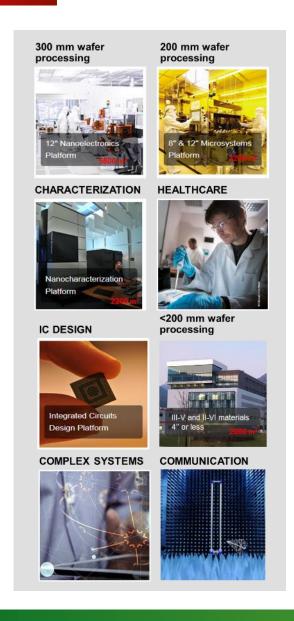


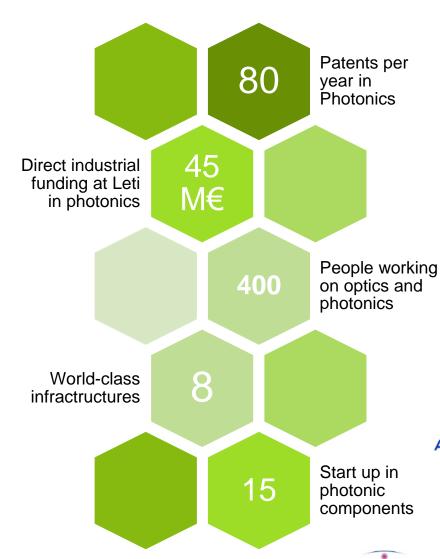
DISRUPTIVE PHOTONICS CONCEPTS FOR NEW APPLICATIONS & MARKETS

Agnès ARNAUD - PHOTONICS WEST - 2020



PHOTONICS @LETI IN A FEW KEY FIGURES

























SOFRADIR







PHOTONICS ACTIVITIES @ LETI - RESEARCH TOPICS



DISPLAY

OLED μLED LCOS

UV LED



IMAGING

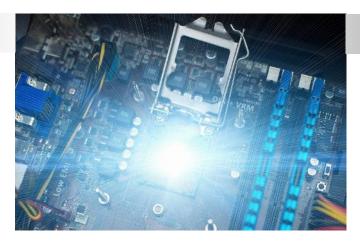
3D Imaging & LIDAR **Smart Imaging** Visible, IR, THz, mm X & Gamma Lens Free



SENSING

Gas Particulate matter

Environment & Health monitoring



SILICON PHOTONICS

Quantum Photonics Integrated Lasers

Integrated Photonics on Silicon



DISRUPTIVE PHOTONICS CONCEPTS FOR NEW APPLICATIONS & MARKETS



New miniature sensors of particulate matter using angular spectral imaging

Laurent Duraffourg CEA-Leti, Photonics Sensors Lab. Manager



Toward miniaturized solid State Lidar using the convergence between silicon photonics & electronics

François Simoens CEA-Leti, Executive Strategic Program Manager



Computational microscopy

Cédric Allier CEA-Leti, PhD Project Manager, Live Cell Imaging



Low-loss silicon photonics platform for quantum technologies

Eleonore Hardy CEA-Leti, Business Developer, Silicon Photonics



DISRUPTIVE PHOTONICS CONCEPTS FOR NEW APPLICATIONS & MARKETS



Keynote: Working backwards from the customer to the sensor

Pat Tang Amazon, Lab 126, VP Technology

Thank you for your attention



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See Leti's demontrators at booth 857A France Pavilion (South Hall)

And welcome in Grenoble in June >>



