

## The specialist in laser technologies

Corporate presentation, April 2023

#### LUMIBIRD MORETHAN LASERS

**MEDICAL** systems



Expert in innovative medical technology benefiting health care professionals and patients





**PHOTONICS** 

Fiber lasers & fiber amplifiers



Solid-state & dye lasers



Laser diodes, diode modules & components

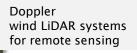


Laser rangefinders for military applications



LIDAR

systems





Time of Flight LiDAR for harsh environments



Photonics solutions for time-of-flight LiDAR & telemetry











## 1000 + employees



Worldwide

## **1** production & R&D sites

France (Lannion, Le Barp, Cesson-Sévigné, Cournon d'Auvergne, Talence, Villejust), Slovenia (Ljubljana), Sweden (Göteborg), USA (Bozeman), Canada (Ottawa), Australia (Adelaide)

## **191 M€** revenue



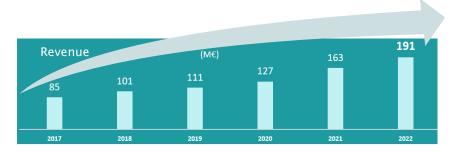
in 2022

## Euronext stock exchange

Listed under the LBIRD code

## LUMIBIRD at a glance

#### A fast-growing innovative company





#### With a worldwide footprint



The group is present in Europe, America, Asia and Oceania through its subsidiaries and offices, and has a large network of distributors covering a total of 110 countries

	Medical	Photonics	LiDAR systems
Production/ R&D sites	3	7	2

## Corporate Social Responsibility (CSR)

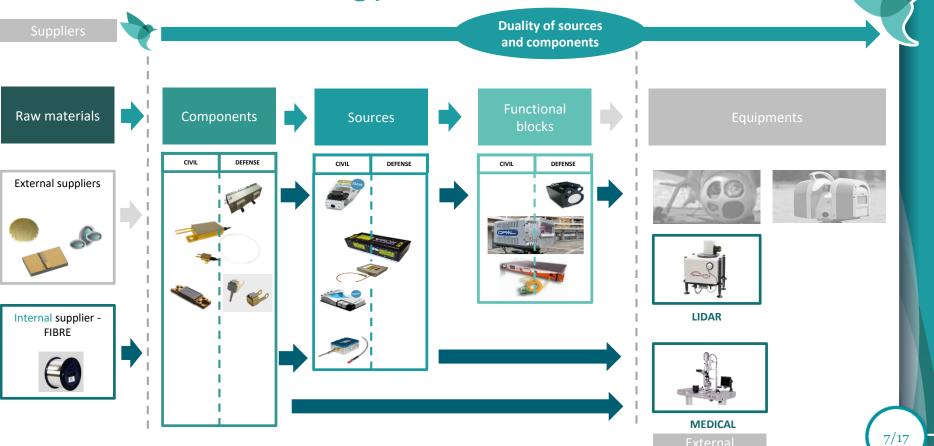
#### A policy at the heart of our strategy



## Our markets

Medical / ophthalmology	Photonics
Diagnosis Treatment	Industrial & Defense & LiDAR sensors Scientific Space & instruments
Ophthalmologists	Universities Research centers Autonomous vehicles
General practitioners, sport doctors	Laboratories Defense Wind turbines
Hospitals	Industrial integrators Space
Specialized distributors	Meteorology

## Verticalization strategy



# LUMIBIRD

#### Global solutions in ophthalmology



## LUMIBIRD

Interventional imaging

#### **Portable ultrasound platforms + Micro-endoscope**



EvoTouch



EvoTouch +



EvoTouch + 75tarScope Brand QUANTEL MEDICAL

Applications

Anesthesia - intensive care

Musculoskeletal

General medicine - emergency

## A Global Customer Care Organization

02

#### **Worldwide Presence**

01

- 6 Service Centers : France/Australia/USA/ Sweden/Japan/Poland
- Network of 130 Distributors Worldwide with over 350 Certified Trained Technicians

## Global mission to maintain device performance

- Technical assistance to customers and distributors via voice/video/email/remote PC connection
- Monthly technical training classes to improve service scope of distributors and updates to new / existing devices

## Regulatory and safety environment

03

- Performance and Safety of each device is continuously checked throughout the life of the device to ensure patient/user safety and device performance
- A Service Report is issued at every service or maintenance visit

## Customer care and service offers

04

- Maintenance contracts with various customizations to maintain customers satisfaction and device performance
- Clinical training to optimize the use of the devices

## **PHOTONICS**

#### Fiber lasers & fiber amplifiers

A full range of OEM and scientific fiber lasers / fiber amplifiers – CW & pulsed



Benchtop Instrumentation



(Pulsed Green Fiber Laser)



**PEFL-EOLA** (Pulsed Erbium Fiber Laser. long pulse)



**PYFL-PICO** (Pulsed Ytterbium Fiber Laser, picosecond pulse)



(Pulsed Erbium Fiber

Laser, ultra compact)

**PEFL-KULT** 

**CVFL-GIGA** (CW Visible Fiber Laser. GHz linewidth)

Keopsys LUMIBIRD

> Main *Applications*

LIDAR Wind sensing 3D scanning Automotive (ADAS & robotaxi) **Bio & medical** Atom cooling **Range-finding** Remote sensing **Telecommunications** Space & defense

## PHOTONICS

#### Solid-state & dye lasers & rangefinders

Flashlamp-pumped Nd:YAG

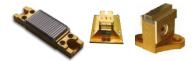
#### Diode-pumped Nd:YAG & Erbium Glass\_



## PHOTONICS

#### Laser diodes & components ITAR free Expertise – Reliability – Customization – Space qualification on request

#### QCW laser diode stacks

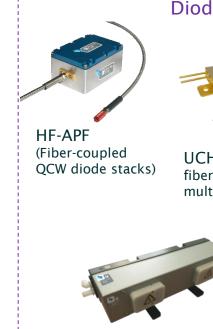


Small, medium & large

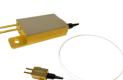
#### Components



APD (Avalanche photodiodes)



#### **Diode modules**



UCH (High-grade fiber coupled multimode diodes)



Diode pumping modules

aser diodes & components BY LUMIBIRD

Illuminators

(Short pulses)

Main *Applications* 

Space & defense **DPSS** laser pumping ADAS Flash & 3D LiDAR Photoacoustic imaging Ultrasound generation Active imaging

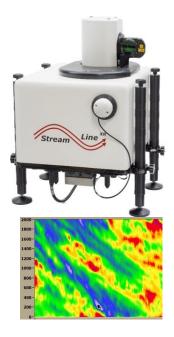
## A Global Customer Care Organization



## LiDAR systems

#### **Doppler & time of flight LiDARs, laser range finders** *Proven solutions for remote operations*

#### Doppler LiDAR



#### Time of Flight LiDAR

#### Laser rangefinders









Brands: HaloPhotonics OPAL SensUp

Main Applications

Wind energy Climate monitoring Meteorology Aviation safety Environmental safety Defense (direct energy weapon) 3D mapping Topography Robotics Autonomous systems

## High-end photonics programs



**Optronics for Defense** Range-finding (airborne, naval, land) Designation Obstacle warning systems Simulation (MegaJoule Laser) High power pre-amplifiers Space projects Communication Space LiDAR



# Thank you very much for your time



If you have any questions about this document please don't hesitate to contact us at:

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