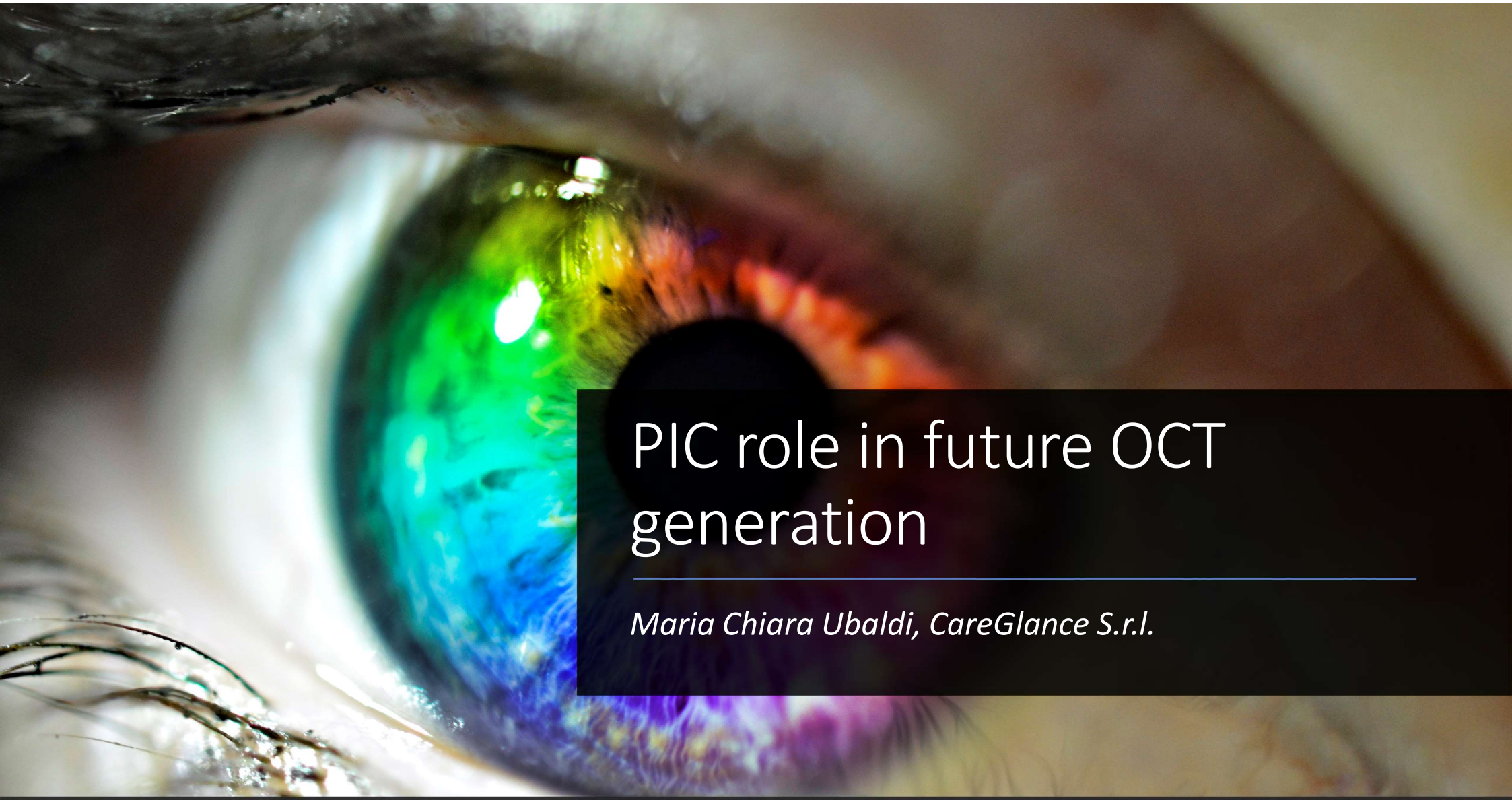
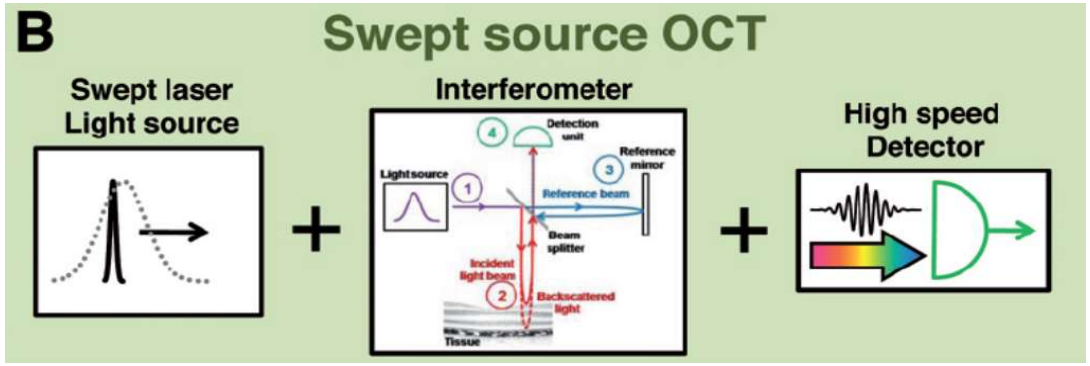


PIC role in future OCT generation

Maria Chiara Ubaldi, CareGlance S.r.l.

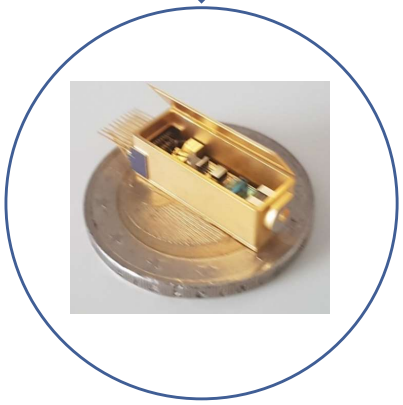
Novel swept source for 1 MHz generation OCT



First product in micro optics

Commercially available in 2023

CareGlance
laser innovation



FAST **One axial scan in 1 MHz**

Completely eliminates 3D images artifacts

SMALL **Enables Portable devices**

Small footprint with micro-optic technology

COST EFFECTIVE **Enables Low cost Devices**

Low BOM and high manufacturing yield

Medium long-term strategy

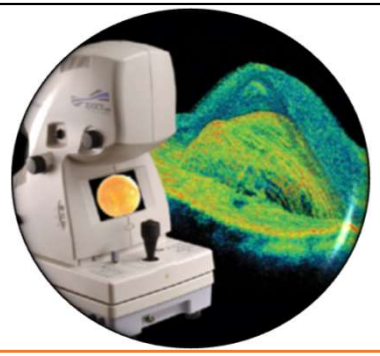
CareGlance Srl

Ultrafast portable laser for OCT systems

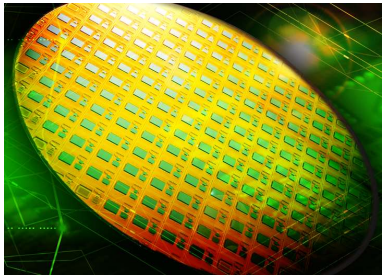
Addition of interferometrric optical hardware

Integrated version of the laser/interferometer

OCT micromodule for healthcare and industrial applications



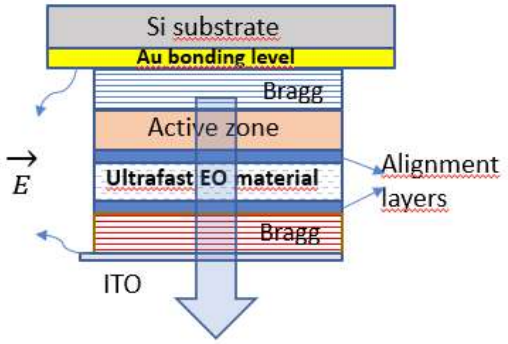
Discrete components swept source for OCT systems



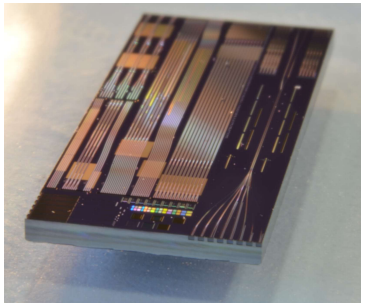
OCT module 6 inches wafer scale

Ultrafast integrated OCT module

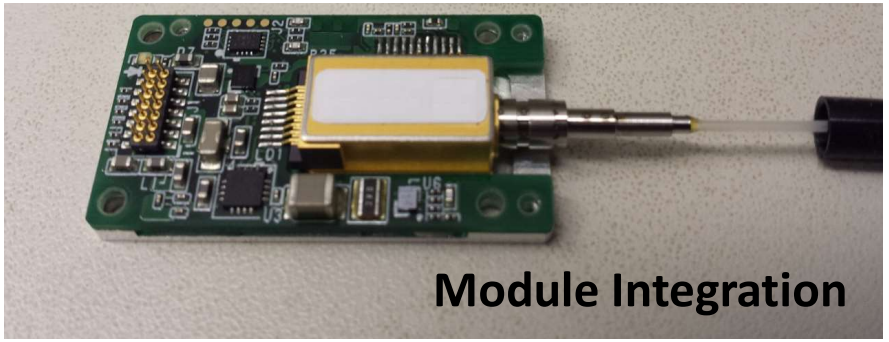
Wafer Level Packaging
- Some micro-components assembly at wafer level for easy scale up)



Swept source laser equivalent



Si/N platform OCT interferometric engine



Potential customers

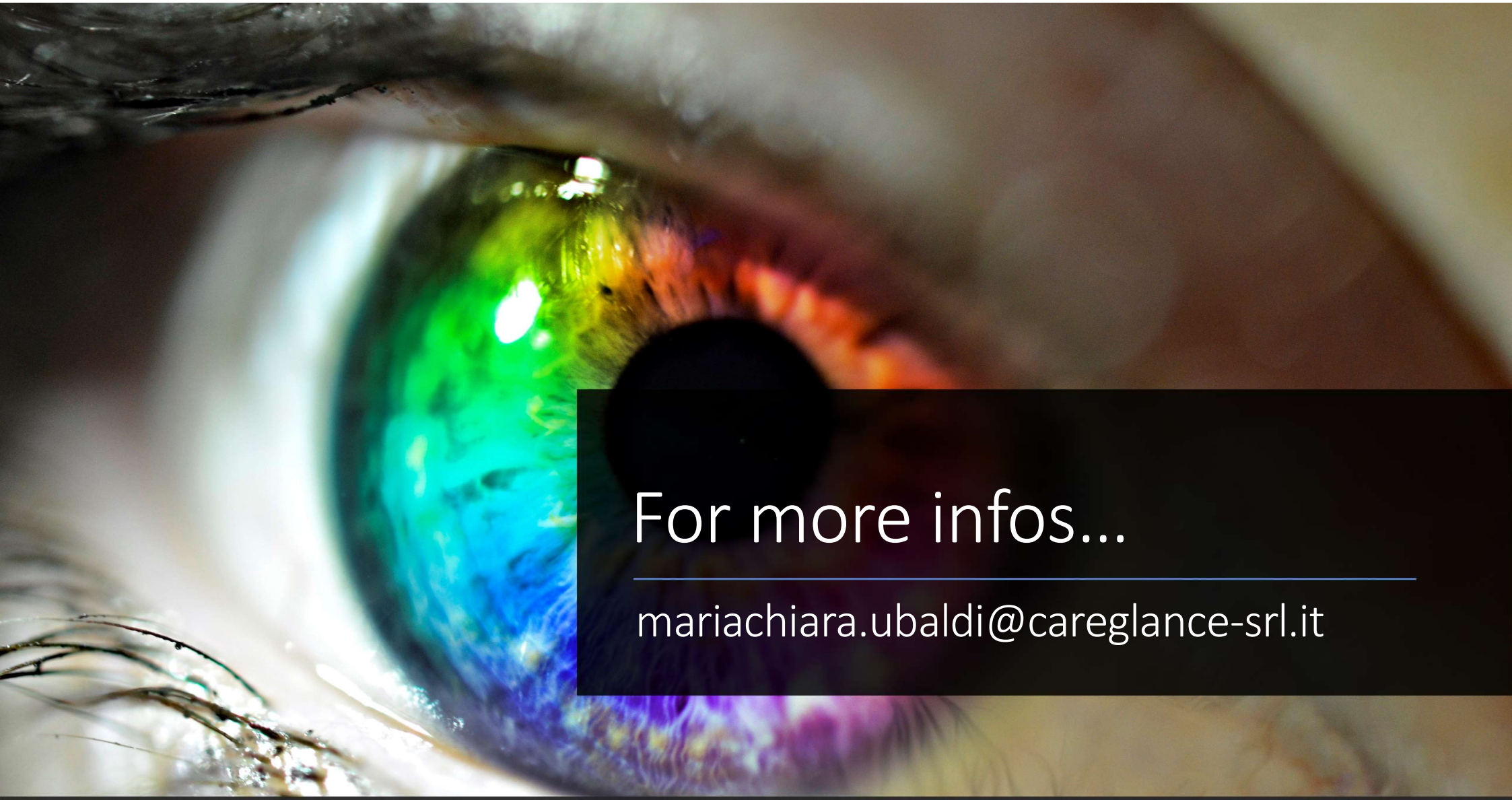
CareGlance Srl

Who?

- Healthcare
- Automotive
- Quality control

Why?

- Real-time 3D tissue evaluation for diagnosis and surgery.
- In-line assistance to automotive related industrial process (i.e. OCT for remote laser welding).
- Real-time monitoring of mechanical pieces quality (subsurface cracks…).



For more infos…

mariachiara.ubaldi@careglance-srl.it