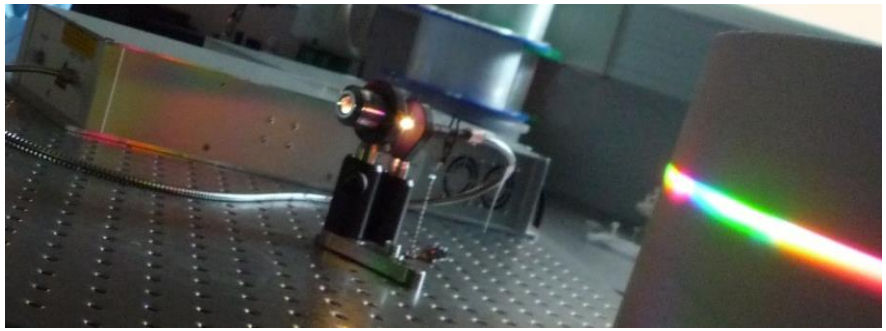
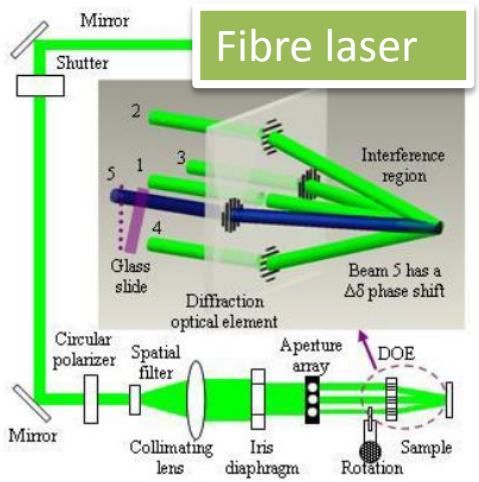
Multitel
INNOVATION CENTER

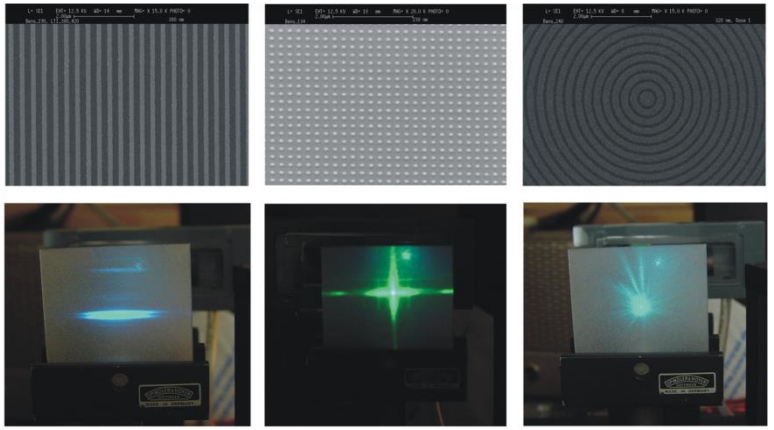
DT-FoF-03-2018: Innovative manufacturing of opto-electrical parts (RIA)

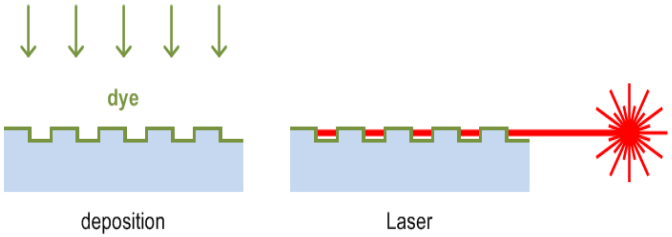
Dr. Jean-Bernard Lecourt

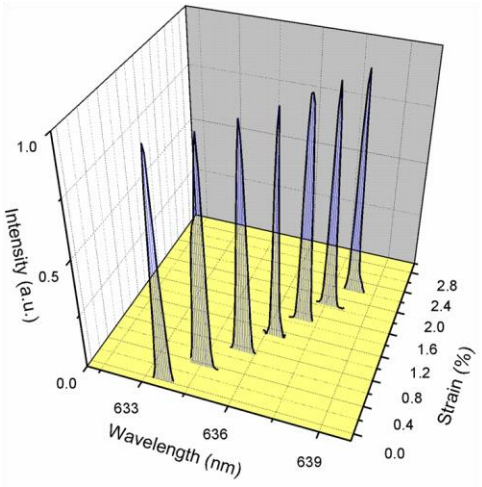


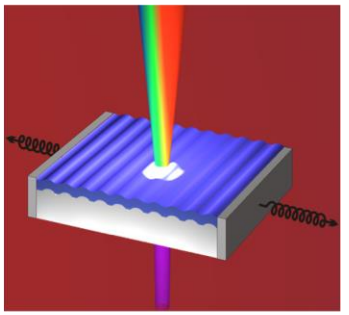
THE CONCEPT











Our project objective:

- Develop an interferometric direct patterning method for the fabrication of compact and low cost planar visible laser sources and bio-sensors on dielectric substrates.

PARTNERS

CORE PARTNERS: **Multitel**

Mons, Belgium

Fibre laser source design and process

PARTNER 1:

Fabrication of planar dye lasers

PARTNER 2:

Materials processing, in particular Glass hot embossing

ALREADY CONTACTED:

-RTO for the interferometry system (they were leader of a previous EU project where they developed this type of system).

- RTO (University) for bio-functionalization

- SME for diffractive optics design and fabrication

- SME (company selling micromachining systems) for machine design and laser integration.

MISSING:

-Partner(s) (At least one company) for the exploitation of the final devices, **with convincing business case. Example: company producing lab-on-chip biosensors**

- RTO or company active on planar devices fabrication, on dielectric substrates.

POSSIBLE PROFILES FOR THE MISSING PARTERS

Process development

Laser source

Diffractive optics

Integrated in a complete machine

FOR

1- Fabrication of planar visible laser sources

2- Fabrication of planar visible laser sources integrated with a sensor

POSSIBLE PROFILES:

- Company producing DFB laser sources
- Company(ies) producing sensors like lab-on-chips and interested by the development of a new product integrating the laser source with the sensor itself. ➔ No coupling losses on the interrogation phase.