



Photonics Innovation Hub

PHOTONICS BRETAGNE

DAVID MÉCHIN, DIRECTOR



HISTORY OF PHOTONICS IN BRITTANY

50 Years of Experience in Photonics!

...1960

1995-2005

2011

2014-2017

2018...

FranceTelecom R&D settles in Lannion

Many photonics start-ups and technology center Perfos created

Perfos becomes Innovation Hub Photonics Bretagne

Photonics Park project with new facilities

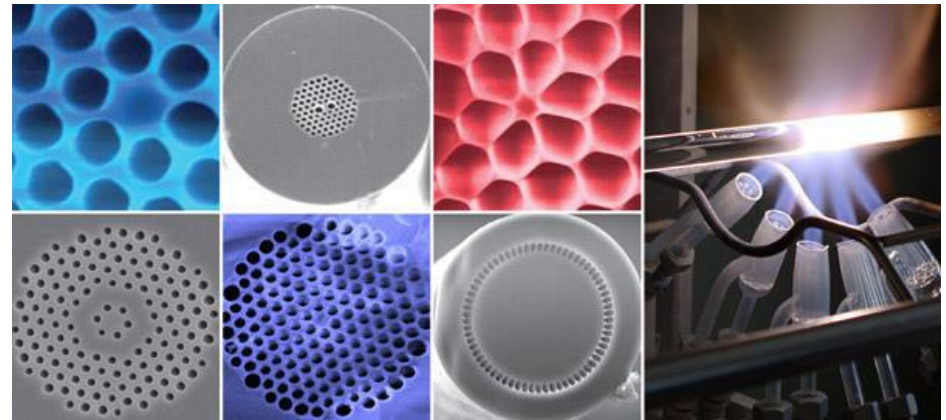
Diversification towards new applications



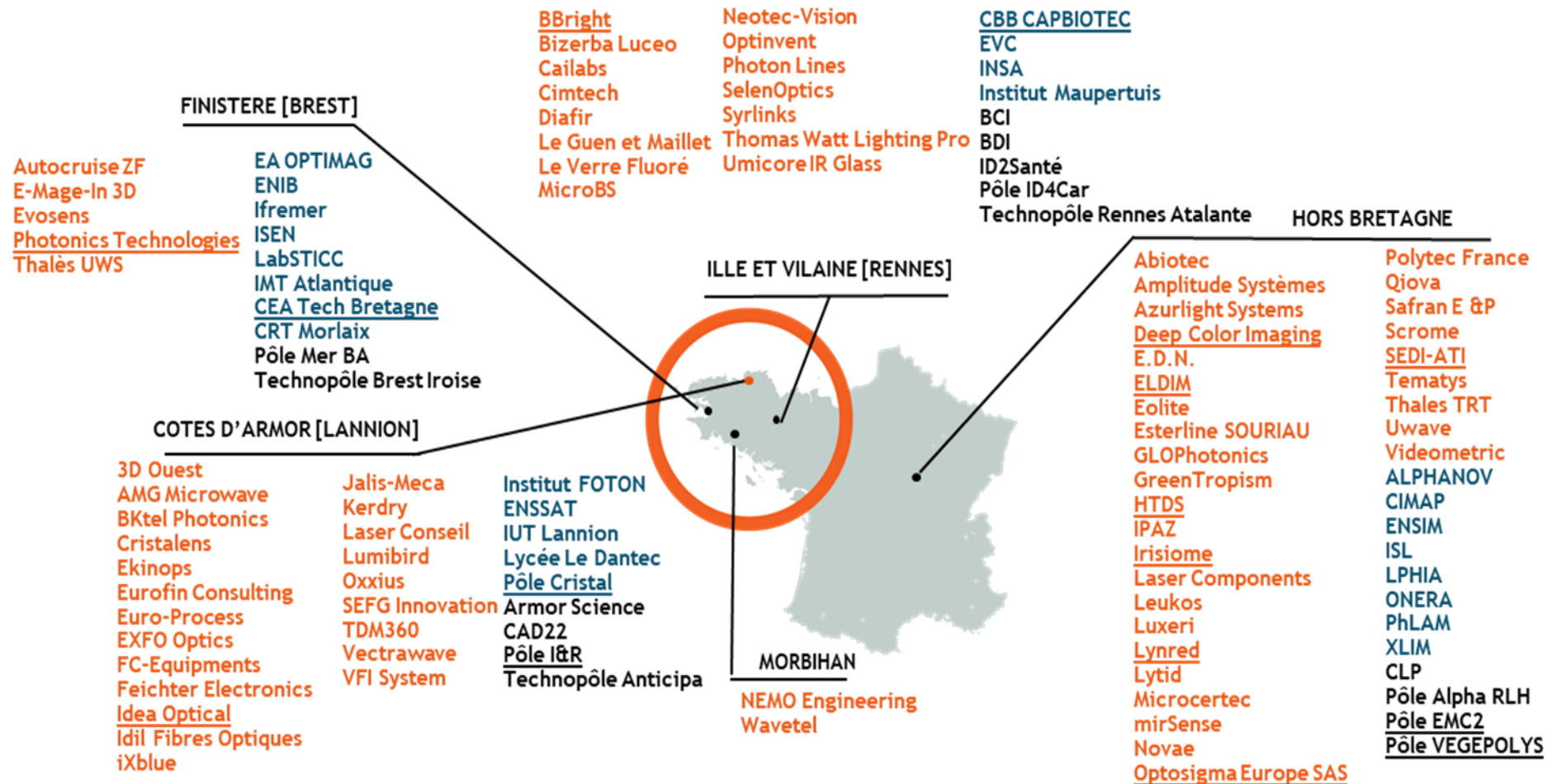
PHOTONICS BRETAGNE: A MIXED ORGANISATION

Photonics Bretagne is a Photonics Innovation Hub integrating :

- A **cluster** gathering more than 100 members (Companies, Research centers, Schools) in the field of Photonics
- A **RTO** (Research and Technology Organization) expert in the development of specialty optical fibers (PCF fibers) and components.



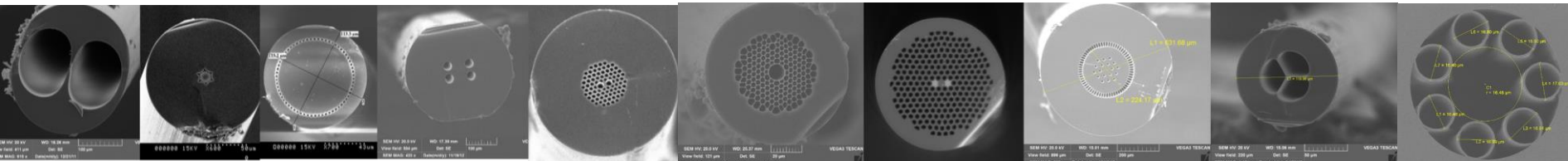
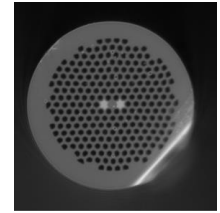
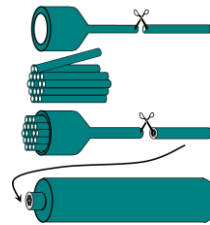
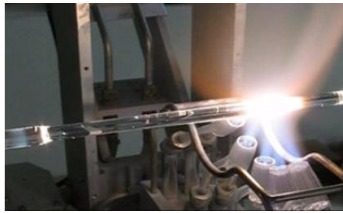
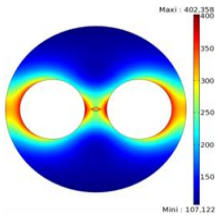
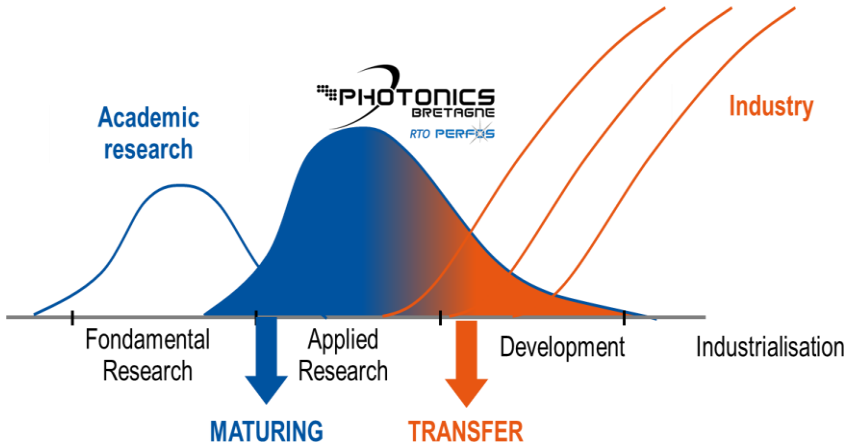
THE STRENGTH OF A COMPLEMENTARY NETWORK



115 MEMBRES

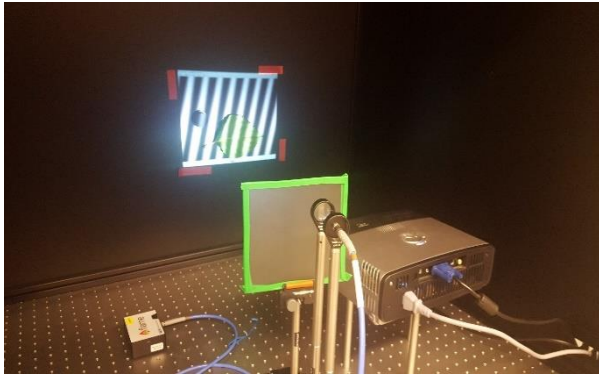
RTO SPECIALISED IN CUSTOM OPTICAL FIBRES!

- A focus on PCF but also MCF, VLMA, etc...
- Custom Design!
- From Conception to Integration
- Active/passive fibers
- Different doping (Yb, Er, Ge, F, B, Ge...)
- Stress rods, Capillaries, Tapers, combiners...
- Simulation, Characterization...
- Consulting



DIVERSIFICATION TOWARDS AGROPHOTONICS

- POC studies in AgriTech and FoodTech areas: Plant phenotyping, animal welfare, on-line sorting, cleaning management...



From the scientific lab...



...to the field lab...



...to the field!

- Development of innovative sensing devices based on specialty optical fibers

- Test and qualification of optical sensing tools/protocols:

- Imaging (multispectral, hyperspectral, single pixel...)
- Single point spectroscopy analysis (Raman, Infrared, Fluorescence)
- Statistical modeling (PLS, PCA, DFA...)



ADRESSE

4 rue Louis de Broglie
22300 Lannion | FRANCE

