

The logo consists of the word "COR" in white, bold, uppercase letters inside a teal circle, followed by the word "ACTIVE" in white, bold, uppercase letters to its right.

COR ACTIVE

Technology Meeting Specialty Optical Fibers

Martín Núñez, PhD
VP Innovation | CTO

The background image shows a close-up of a blue industrial laser cutting machine. A bright, multi-colored laser beam is focused on a metal surface, creating a glowing point of contact. The scene is set against a dark background with a bokeh effect of light spots, suggesting a high-tech manufacturing environment.

**EMBRACE
THE VISION.**

About



FOUNDED IN
1998 

 **Headquarters**
In Quebec City, Canada



90%
EXPORTS

 **+20**
DISTRIBUTORS
ASIA / NORTH AMERICA / EUROPE

Vertically integrated

OPTICAL FIBER
DEVELOPER & MANUFACTURER

FIBER LASER
DESIGN



PRODUCTION CAPACITY

INDUSTRIAL 

+25 

MOSTLY FOR
FIBER LASER TECHNOLOGY

25 YEARS OF
EXPERTISE 

IN OPTICAL FIBER DEVELOPMENT

MATERIAL PROCESSING | TELECOMMUNICATIONS | SENSING

40% 

working in R&D

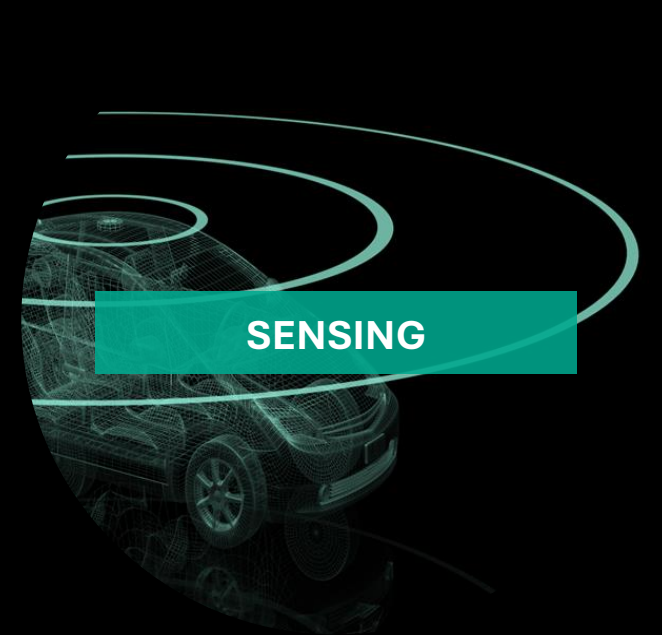
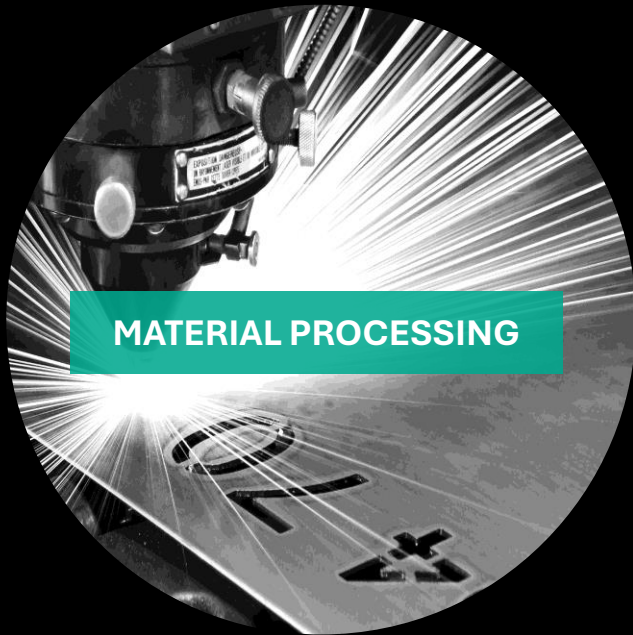
Worldwide Presence



- ★ Headquarters
- Sales Office
- Distributors

Our Main Markets

A proven track record in developing solutions for the needs of a variety of applications.



& other applications

Our New Facility

34 M\$ investment

from Canadian private banking and government industry programs

75 000 ft²

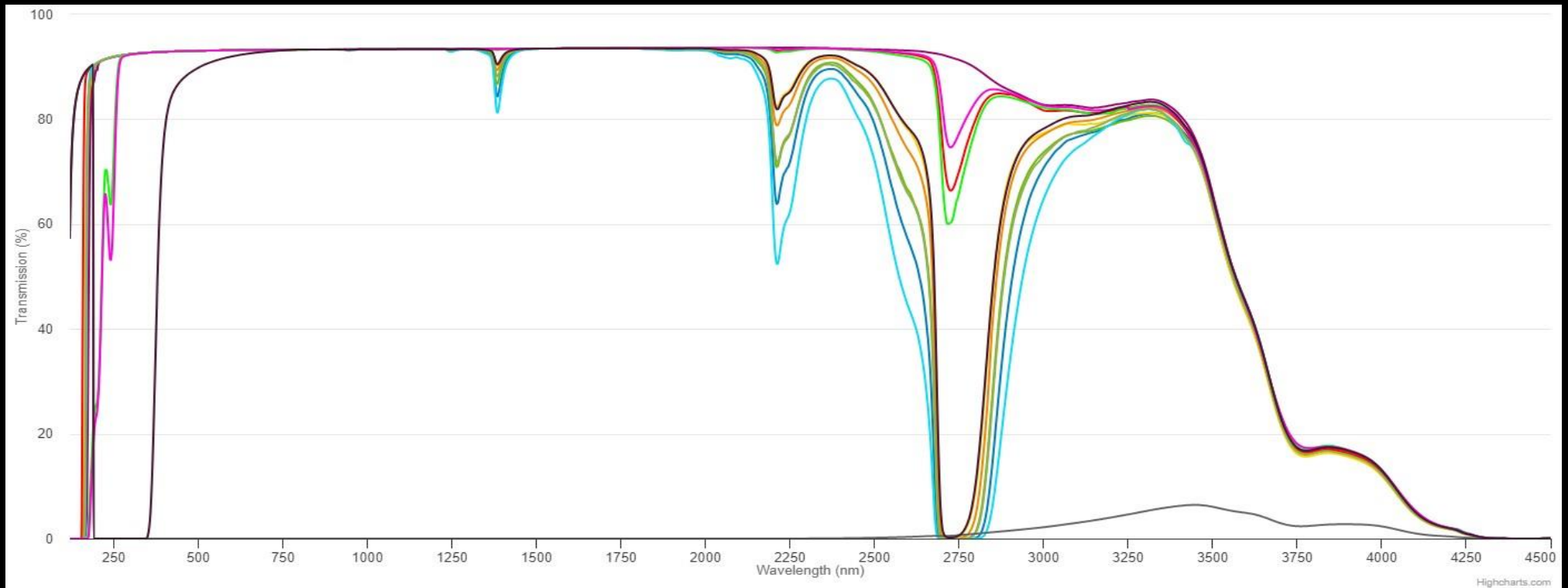
Increased Production Capacity

High-Tech Manufacturing Environment

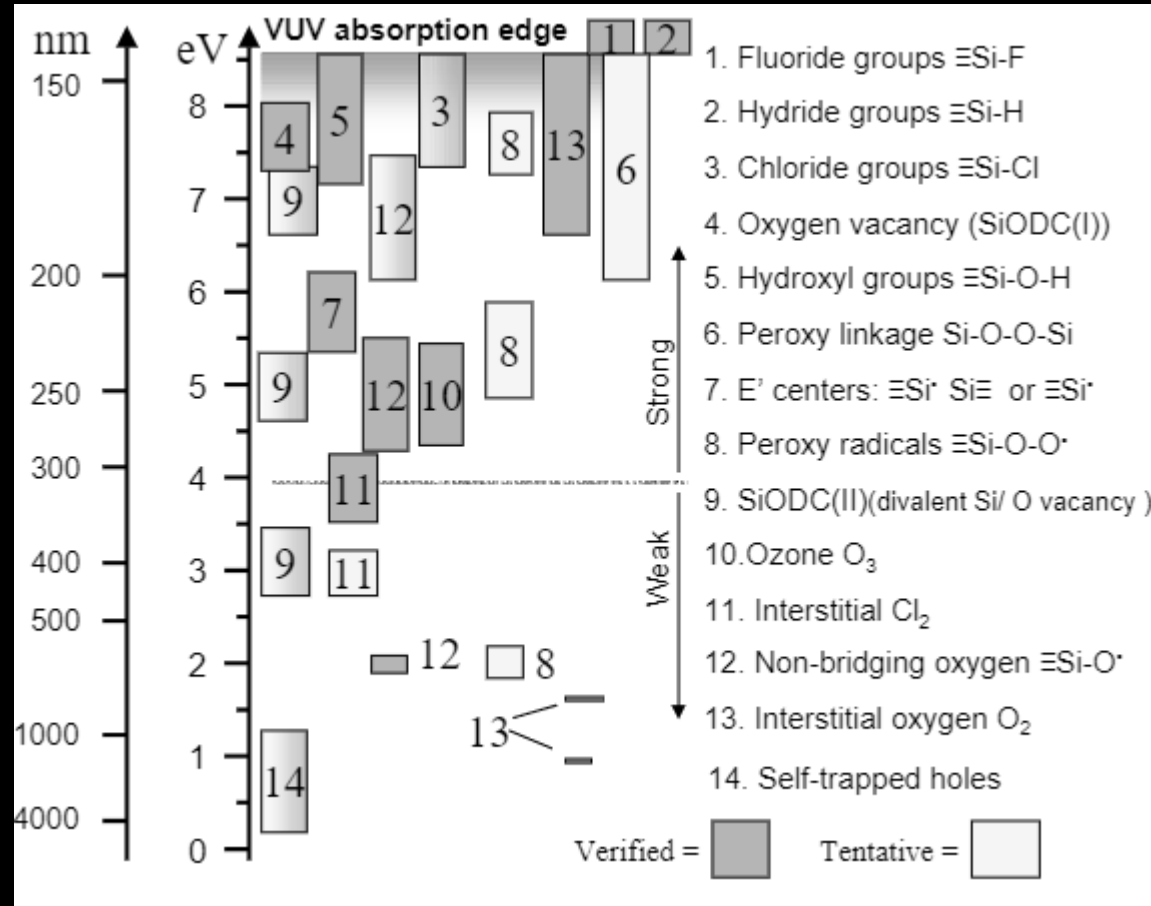
100% operational since June 2023



Transmission of glasses (Commercial and experimental)

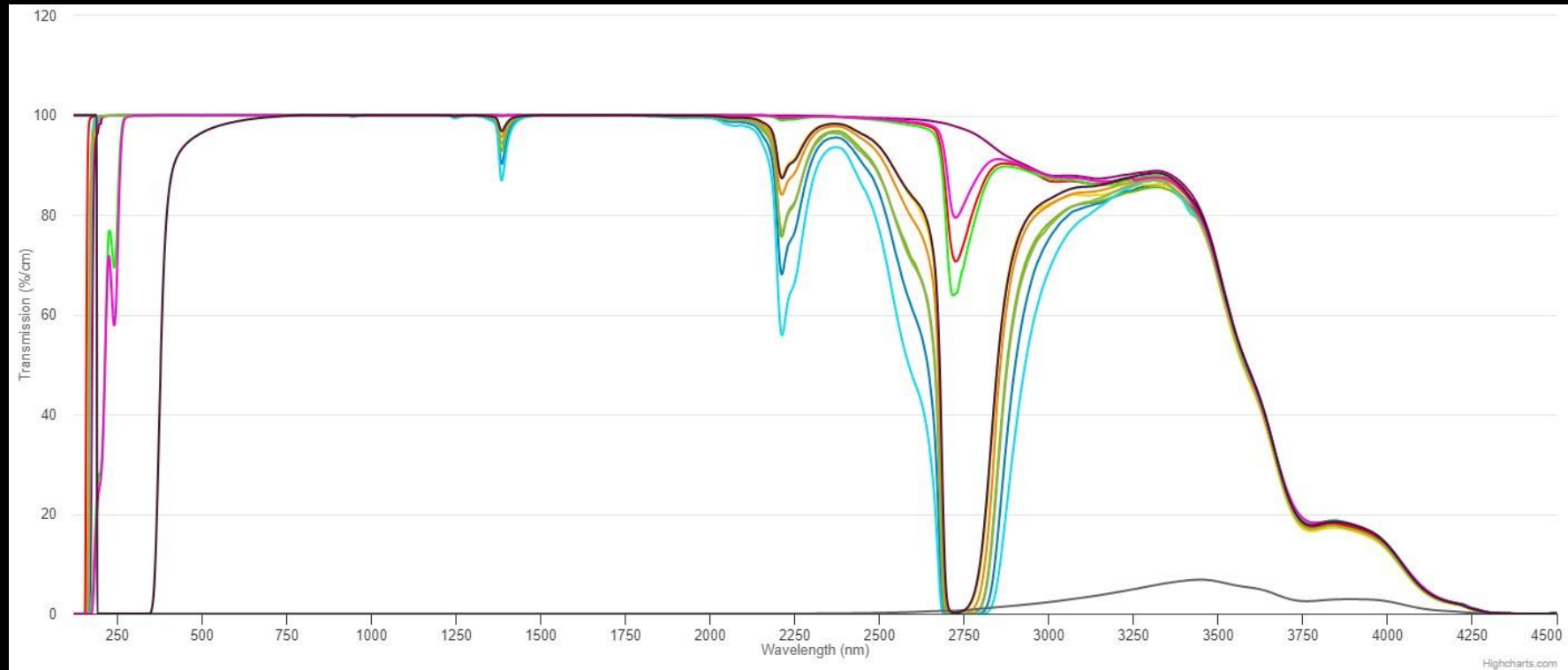


Main optical absorption bands of silica



*Laser-induced color centers in silica; Linards Skuja et al, Proc. SPIE vol.4347, p. 155

Transmission (external) of glasses (Commercial and experimental)



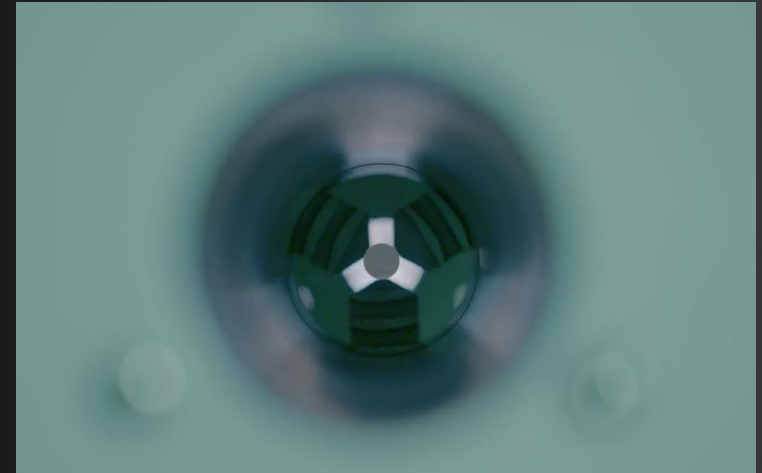
Basic intrinsic defects, glassy silica and on the surface of SiO₂

Defect	Model	α-quartz		silica glass, bulk	silica surface
		neutron irradi.	gamma irradi.		
E'-centers	$\equiv\text{Si}^{\cdot}\text{Si}\equiv$	yes	yes	yes	yes
ODC(I) - O vacancy	$\equiv\text{Si}-\text{Si}\equiv$	yes	yes	yes	?
ODC(II), unrelaxed O vacancy or divalent Si	$\equiv\text{Si}-\text{Si}\equiv$ or $\equiv\text{Si}-\text{O}-\text{Si}-\text{O}-\text{Si}\equiv$	yes(?)	no	yes	yes
oxygen dangling bond	$\equiv\text{Si}-\text{O}^{\cdot}$	yes	no	yes	yes
peroxy radical	$\equiv\text{Si}-\text{O}-\text{O}^{\cdot}$	yes	no	yes	yes

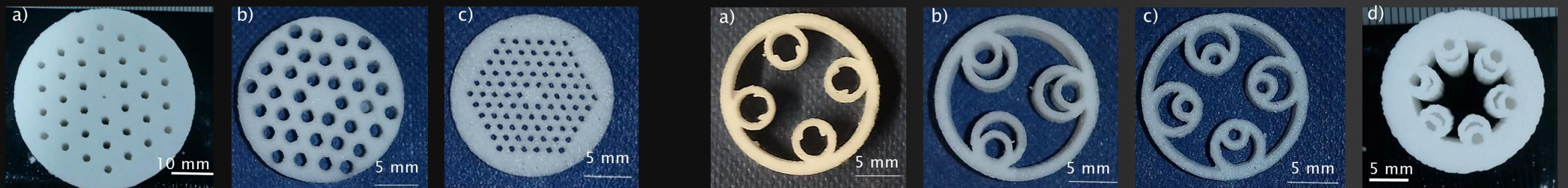
*Laser-induced color centers in silica; Linards Skuja et al, Proc. SPIE vol.4347, p. 155

What is next?

Technology transfer on new materials ?



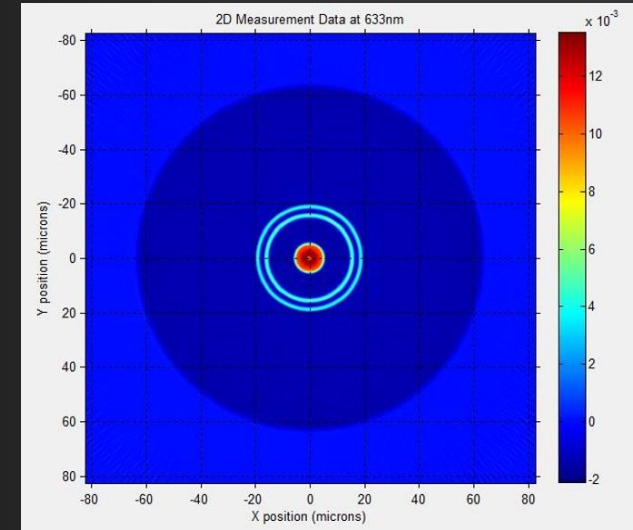
Next generations of micro-structured fibres ?



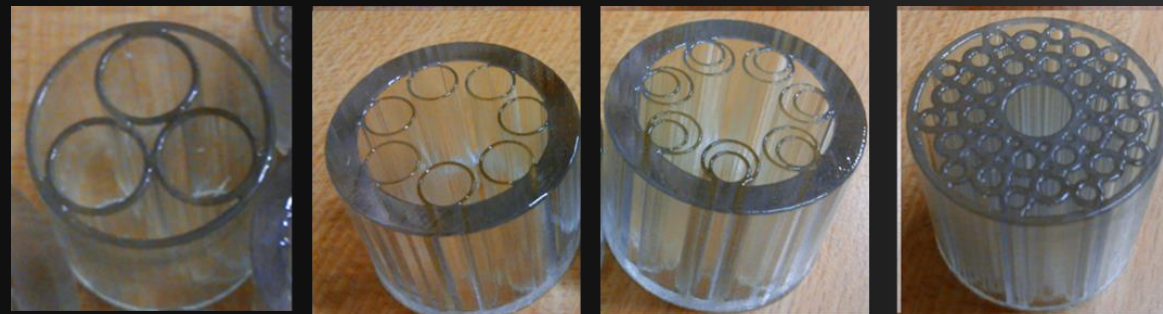
Process development?



Complex and unique fibre structures ?



Hybrid or composite materials?



Thank you!

info@coractive.com | www.coractive.com

