

# OVERVIEW OF THE COMPANY & FEMTOSECOND LASERS

EPIC Online Technology Meeting on Femtosecond Lasers, April 1<sup>st</sup>, 2020

### Interests of the fluoride glass technology

### High transparency from UV to mid-IR (up to 5.5 µm)



Fluoride glass fibers exhibit the best transparency among all technologies in the 2000 nm – 5000 nm range

Many rare-earth transitions for visible and mid-IR lasers and amplifiers allow a new generation of fiber lasers and amplifiers :

- Multiwatts visible (red, green, yellow, blue) single mode fiber lasers,
- Multiwatts mid-IR fiber lasers,
- Telecom amplifiers (O-band and E-band)

### 5 product lines and their applications



## Fluoride glass fiber femtosecond lasers

### **Academic results**



### **Future developments :**

 $2.8\ \mu m$  –  $4.5\ \mu m$  tunable fs laser Dispersion engineered PCF fibers for mid-IR fs laser delivery