

EPIC delegation to Israel

December 2022



TeraXion in a Nutshell

Founded in 2000

Designs and manufactures innovative photonic components

> 200 employees

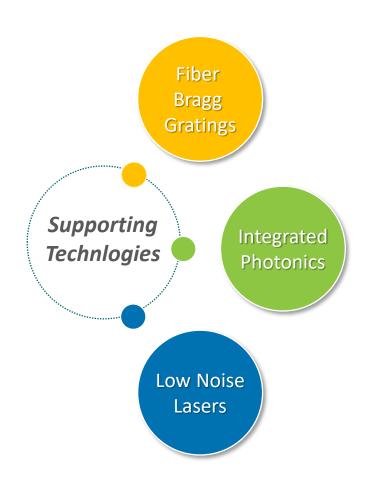
Based in Quebec City

An indie Semiconductor company





TeraXion Technologies, Products and Markets



Laser Systems Components

High-powerUltrafast



Optical Sensing Components

RemoteFiber Optic



Communications Components

DigitalAnalog







Components for CW Fiber Lasers

Products



CW Fiber Laser Reflectors (HPR) and Raman Scattering Suppressors (RSS)

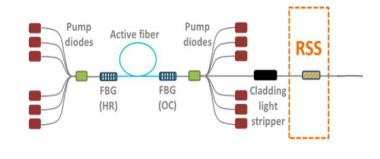


Technology



Multi-kW Lasers for **Material Processing**





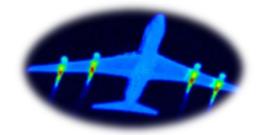
Medical Fiber Lasers $(2 \mu m, 1.5 \mu m)$



Tm gain Cladding fiber light stripper FBG Output FBG fiber (HR) (OC)

Fiber Lasers for Defense $(1 \mu m, 2 \mu m)$

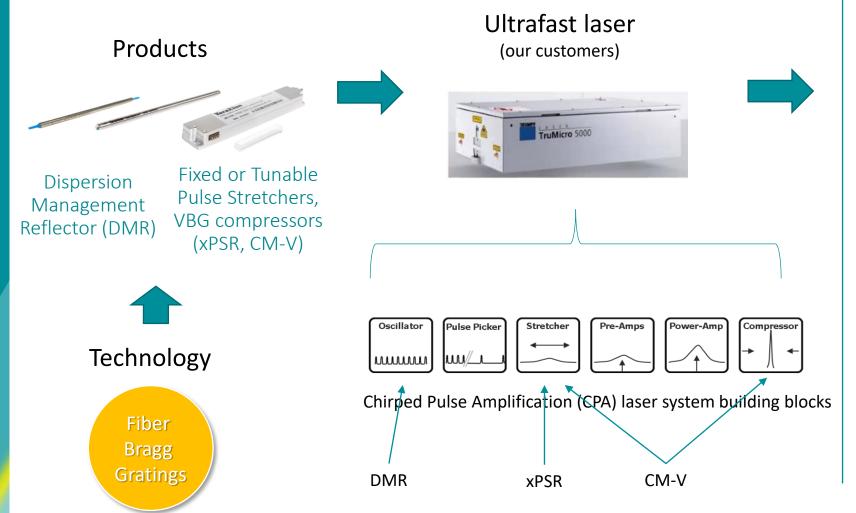






Components for Ultrafast* Lasers

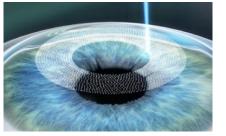
*also called Ultra-Short Pulse, or USP



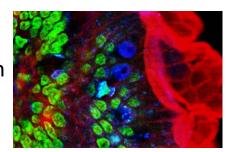
Material Processing



Refractive surgery



Multiphoton imaging



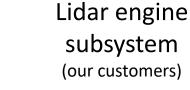


Components for Optical Remote Sensing

Products



High-Linearity and Narrow-Linewidth DFB Lasers (LM, NLL & new DFB)





subsystem



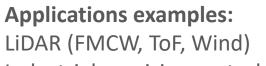
Lidar system (system integration)

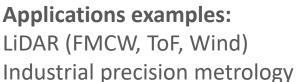




Technology









End user (ex.: wind farm operator)





Components for Optical Fiber Sensing

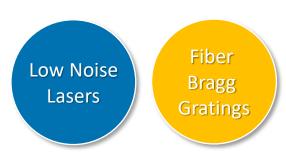
Products



Narrow-Linewidth DFB Lasers (NLL & new DFB) High-Precision Fixed and Tunable Optical Filters (NLS & TFN)

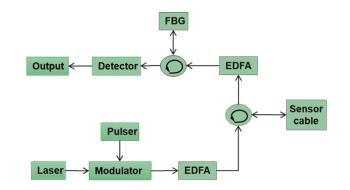


Technologies



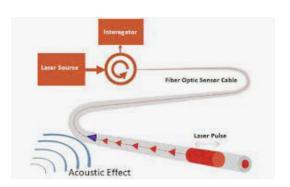
Fiber Optics Sensing Interrogator (our customers)





Sensing System

(ex.: Distribute Acoustic Sensing – DAS – System)





End user

(ex.: pipeline, border security monitoring)









Components for Optical Communications (digital)

Products



Fixed and Tunable
Dispersion
Compensators
(DCML, TDCMX-SM)

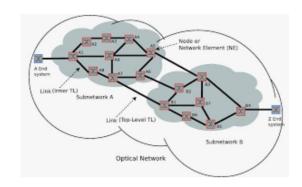
Customized ptical filters (NLS, OF)

Optical Amplifier Subsystem or ROADMs

(our customers)



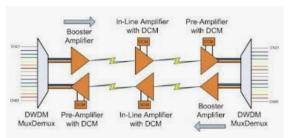
Optical Network Systems Integrator

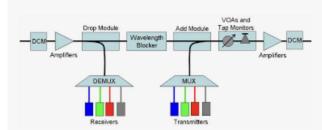




Technology









End user

(ex.: data center, network operator)





Thank you!