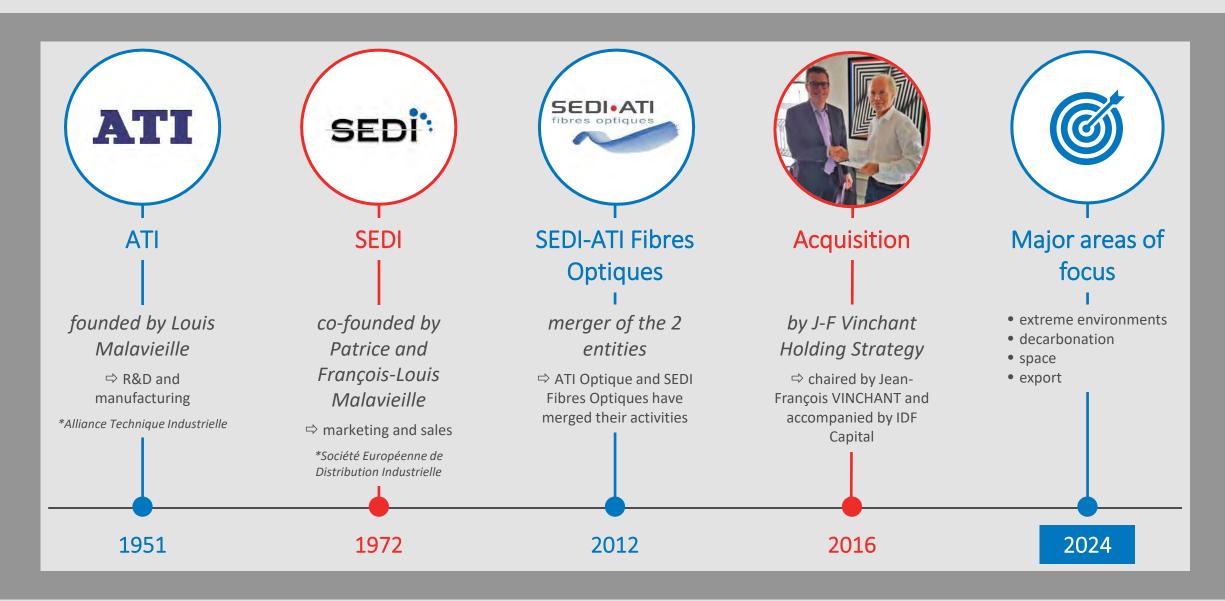


Bringing light into your customized, complex or extreme environment is our challenge!







Since 1951, our mission is to design and build turn-key solutions to enable you to bring photons in any environment, whatever your constraints are!



Legacy

- a family business starting in 1951
- a second life with the acquisition by the JFV Holding Strategy in 2016



Enhancement

- highly skilled team
- multidisciplinary team
- regularly trained on new procedures



Philanthropy

- agile and focused company
- creating sustainable, long-term value
- addressing societal challenges



You need a custom-made product to fit in your special environment, for which there is currently no off-the-shelf solution available. SEDI-ATI helps you overcome your challenges!



Your CUSTOMIZED environment

- Your environment looks like no other
- You can not use a standard solution

SEDI-ATI can help by providing competitive, unique and personalized solutions.



Your COMPLEX environment

- Your environment is extremely complex
- There is no good solution on the market

SEDI-ATI has the expertise to provide the adequate solutions.



Your HARSH or EXTREME environment

- You deal with hostile variables
- You miss the expertise to solve your issues

SEDI-ATI provides turn-key solutions from our field-proven building blocks.



Your customized, complex and extreme environments



Extreme temperatures

Cryogenic temp. down to -273°C

High temperatures up to +1000°C

High-voltage

Dielectric breakdown up to 1 kV/cm

Extreme pressures

Ultra-high-vacuum down to 10⁻¹¹ mbar

Hyperbare up to 5000 bars

Hostile atmospheres

Corrosive or abrasive: SF6 gas, Hydrogene, oil, chemicals, sand, mud, rocks, moisture, sea salt, dust...

Electromagnetic fields

Radiations

Radiations up to 100 Mgray

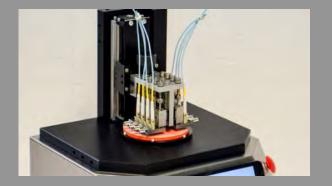
UV solarization down to 200 nm

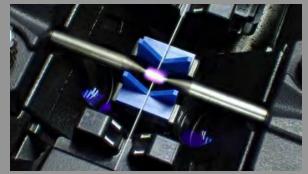
Extreme conditions

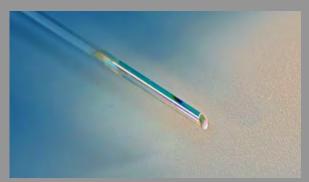
Mechanical stress: shocks, vibrations, accelerations up to 20 G, stretching, bending...

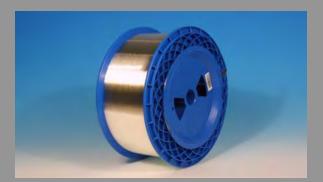




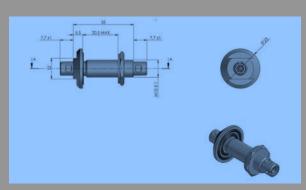












- Polishing of optical fibers (straight, spherical, conical, angled, chisel, lateral)
- Shaping of the optical fiber end face (polishing, fusion, glued parts)
- Thin-film deposition (metallization, anti-reflective coatings, dichroic filters)
- Sealing (epoxy, brasing, glass solder, ceramic bonding)
- Spooling (untwisted fibers, low tension coils)
- Specific mechanical designs for optical fibers (CAD workstations, prototyping)



- ISO 9001 and ISO 13485 certified since respectively 2012 and 2013
 - → ISO 9001:2015 certification: quality management
 - → ISO 13485:2016 certification: quality management for medical devices





- MDR (European Medical Device Regulation 2017/745)
 - → Technical documentation built according to MDR requirements (European Medical Device Regulation 2017/745)
- 4 ISO class 7 clean rooms according to ISO 14644-1:2015 standard

Engaged into a CSR process (Corporate Social Responsibility)





70+
years of
expertise



2000 m² facilities



200+ faithful customers



4 clean rooms



8 M€ turnover in 2023



60 employees



35 % export sales



8 R&D eng. + tech.



















Defence and Aerospace | Applications

ARMY



NAVY



AERONAUTICS



SPACE



Tethered land robots for clearance and demining operations



Opto-pyrotechnics to protect armored vehicles



Mine action with underwater wireguided robots



Tip timing measurements using fiber optic sensors



Avionic embedded fiber optic links



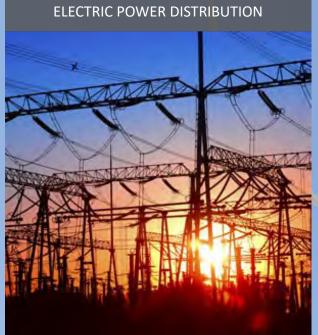
The space atomic clock PHARAO will test Einstein's predictions

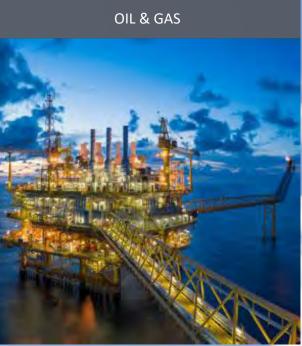


Verifying the integrity of the optopyrolines in launchers & satellites



Energy | Applications









optics



Monitoring of

insulated electrical

transformers









Hydrocarbon reservoirs discrimination

Optical detection of the corrosion in gas tanks

Fiber-optic probes at the heart of the Jules Horowitz Reactor

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Industry | Applications

INDUSTRIAL OPTICAL SENSING



RAILWAY



POWER LASERS



ROBOTICS



Contactless layer thickness and topography measurement



[SHM] Structural Health Monitoring of civil engineering



Telecom links between wagons



Measurement of rail deformation under traffic



Laser stripping of materials (stone, wood, metal, ...)



Laser welding



Pipe inspection with tethered robotic crawlers





DOSIMETRIC MONITORING





Dose control of radioactive substances during radiotherapy



Control of X-ray doses delivered to patients during a CT scan

PARTICLE PHYSICS





ANTARES: a neutrino telescope observing the cosmos from the abyss

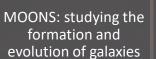


CMS: understanding the origin of the Universe

ASTRONOMY









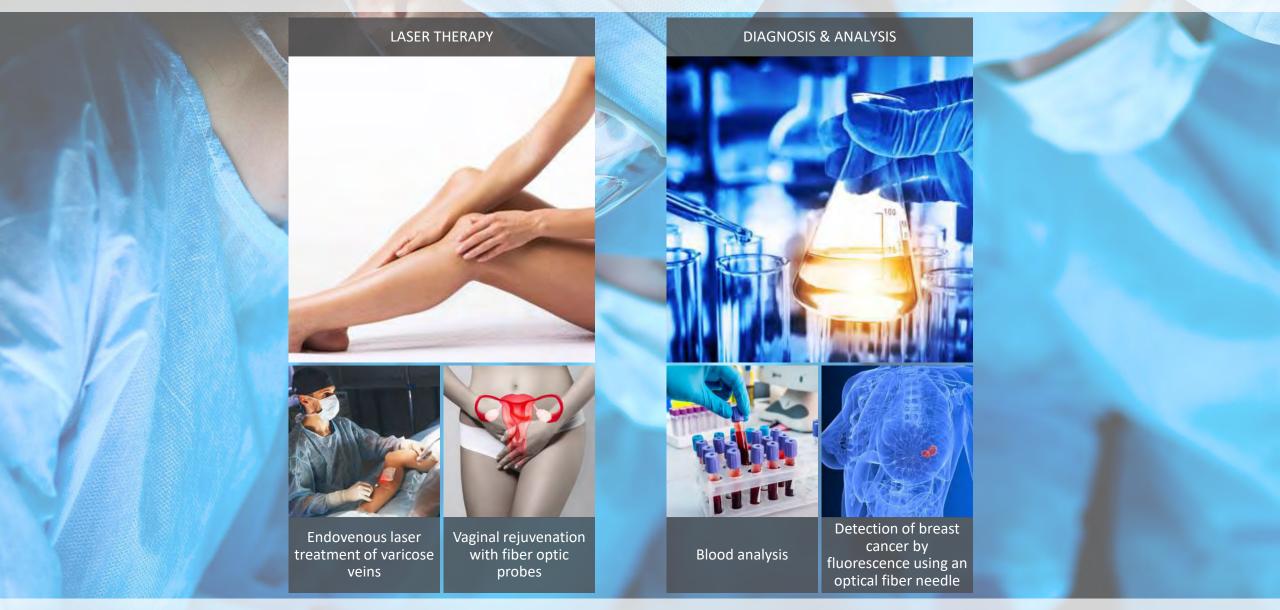
MEGARA: the new eyes of the GTC to study the planetary nebulae













Our custom made product lines

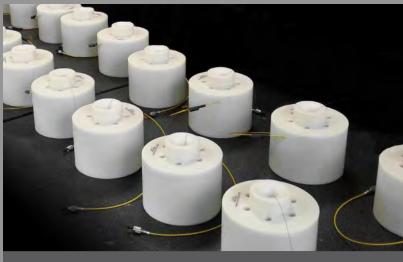


BROAD-BAND COUPLERS AND WAVELENGTH DIVISION MULTIPLEXERS

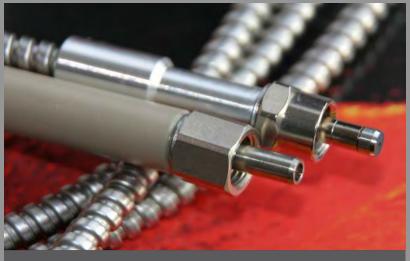


PRESSURE AND VACUUM
FIBER OPTIC HERMETIC FEEDTHROUGHS

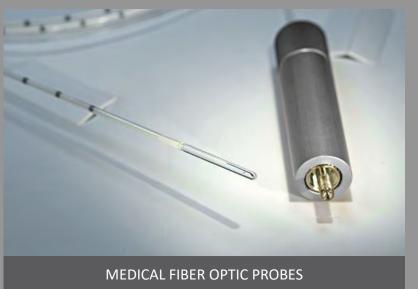




FIBER OPTIC SPOOLS FOR ROVS



FIBER OPTIC PIGTAILS, CABLES AND CONNECTORS



Bringing light into your customized, complex or extreme environment is our challenge!



Broad-band couplers and wavelength division multiplexers | Products



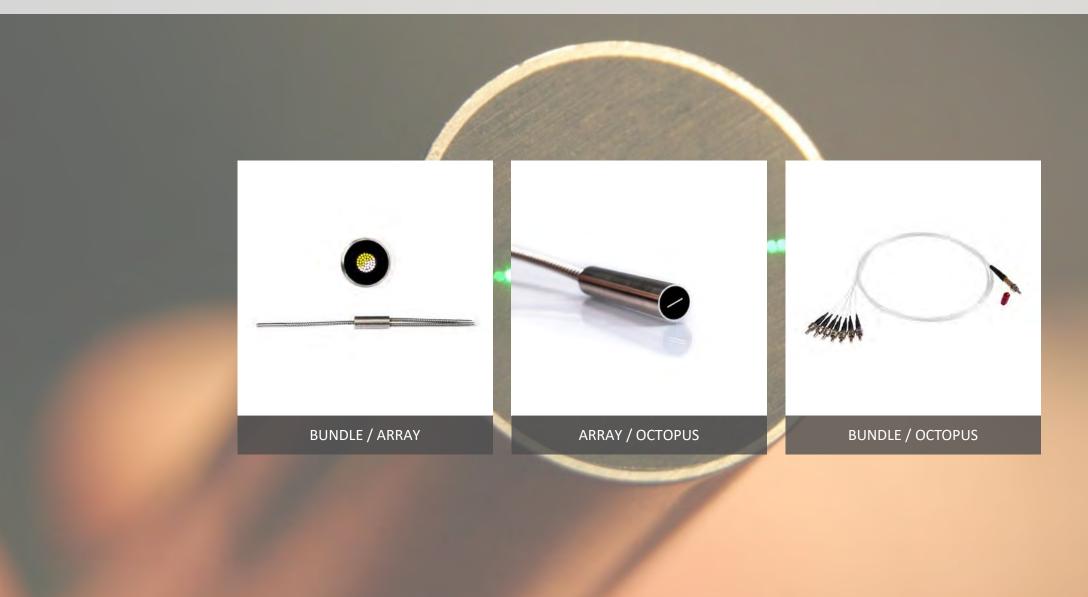


Pressure and vacuum hermetically sealed feedthroughs | Products



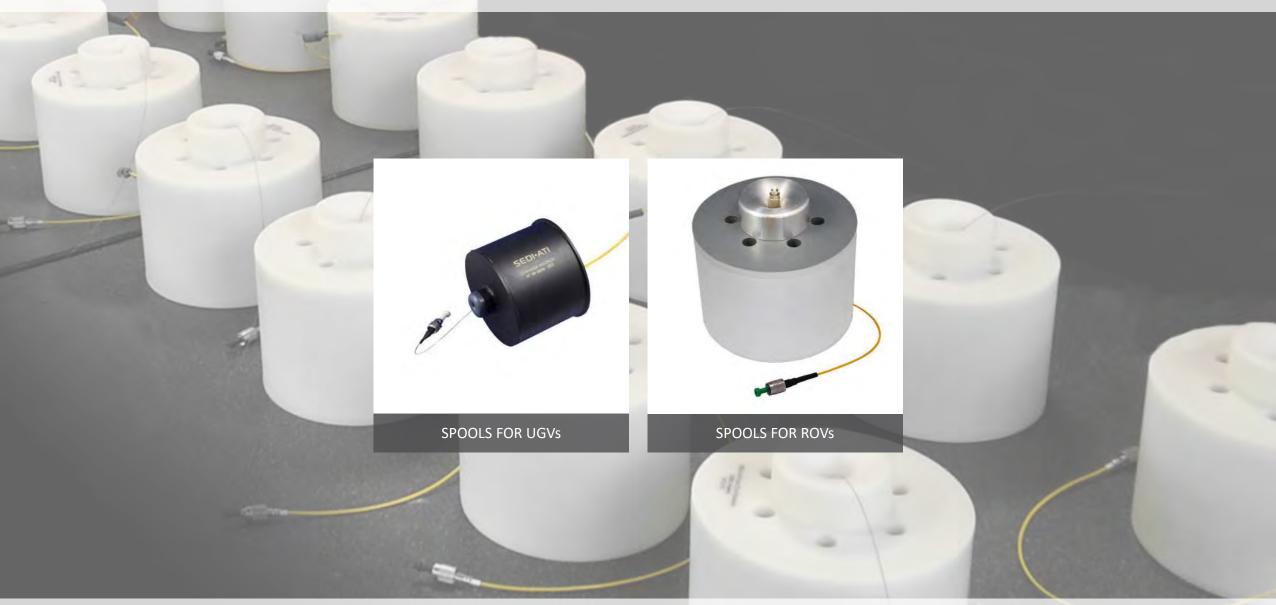


Custom fiber optic bundles, arrays and octopus | Products





Disposable fiber optic spools for tethered vehicles | Products





Special patchcords, cables and connectors | Products

