

OMEGA

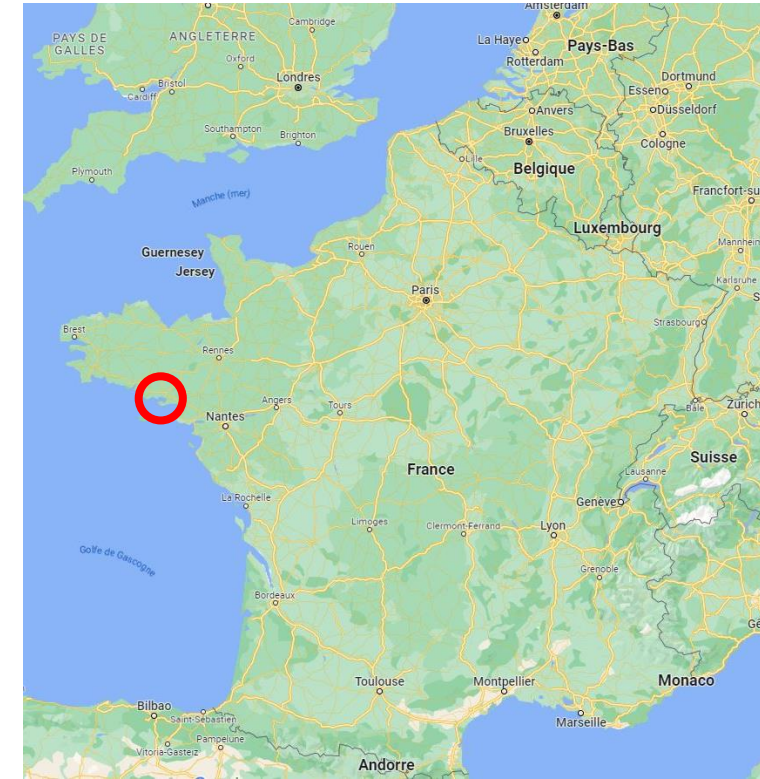
PHYSICS

PRESENTATION

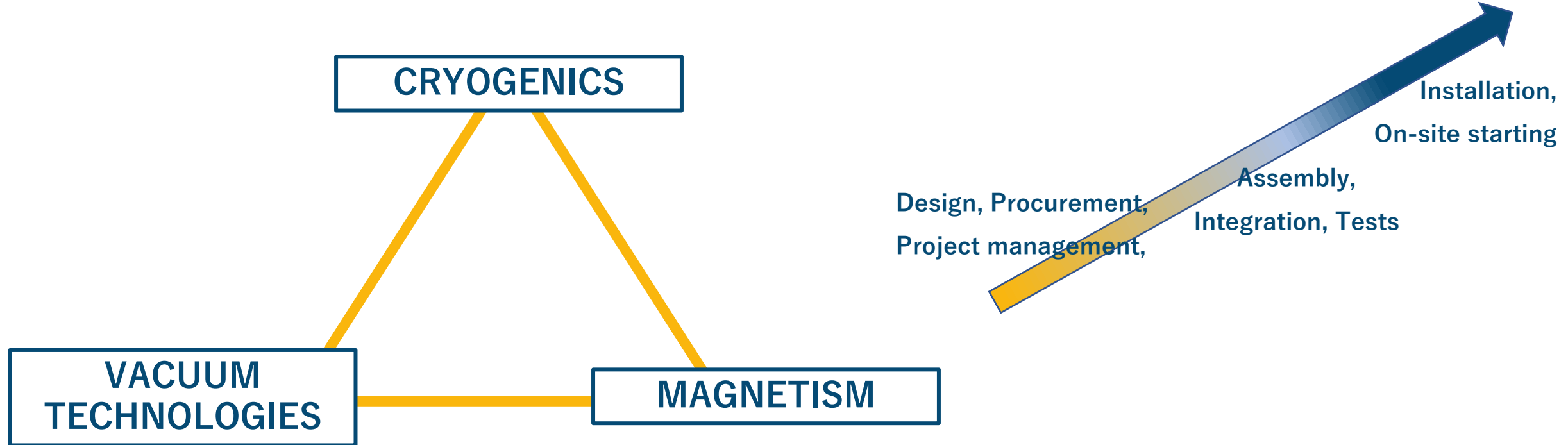
2023



- Created in 2020
- Located in Bretagne (France)
- Our “DNA” : Materials, Physics, Ion implantation, Metallurgy, Industry, International projects
- Significant background in particle accelerators technology
- Customers : Research centers and industries :
Physics, Particle accelerators, Medical systems, Nanotechnologies, Vacuum surface treatment, Plasmas...



→ CUSTOM-MADE SYSTEMS and SOLUTIONS



→ Supported by expert consultants and a network of suppliers-partners



Single product distribution

VACUUM TECHNOLOGIES



Fittings

Tees, crosses, elbows, adapters, ...

Bellows and flexible pipes

Joints, O-rings...



Valves

Radiation resistant gas dosing valves

Gate valves (standard or all metal)

Vacuum gauges

Full range, Piezo, Capacitive, Pirani,...

contact@omega-physics.com
www.omega-physics.com

Pumps

Primary pumps : - Oil sealed
- Dry multi-roots

TurboMol pumps: - Hybrid bearing
- Magnetic levitation

Ion getter pumps

Cryopumps



Chambers

Customized chambers, all sizes

Thermal-shielded
chambers for
space tests



CRYOGENICS

GM cryocoolers

Cryostats

Liquefiers/purifiers
(all gases: He, H, CO₂,...)

Recycling plants

Transfer lines



MAGNETISM

Resistive coils / magnets
Permanent magnet assemblies
Superconducting magnets
Cryostats



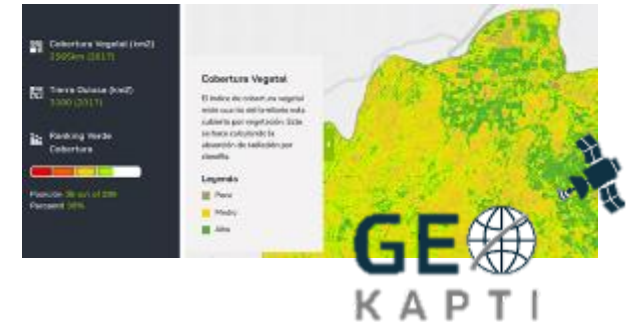
BUT ALSO...

High-speed digitizers for X-ray
and Gamma detector
Alpha counter
Patented SC RF cavity



... AND SERVICES

Design (CAD-CAM, FEA)
Big data management
Project management
Supplier audit and selection
Installation



Thank you for your attention

OMEGA PHYSICS

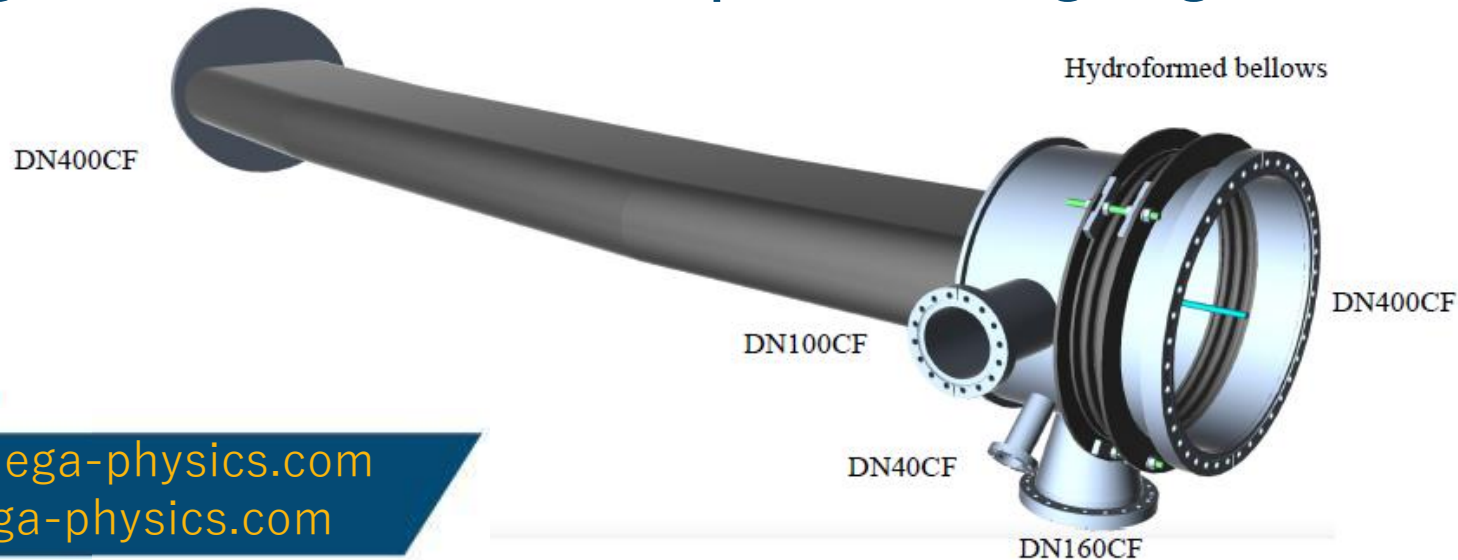
Pépinière CREALIS – Atelier 2bis
1 rue Louis Lefevre-Utile
56000 VANNES– France

+33 667 363 611
contact@omega-physics.com
www.omega-physics.com

- Radiation resistant gas dosing valves for Radiopharma cyclotron



- Ongoing : Vacuum chambers for superconducting magnets



- Cryocoolers, Helium purifiers/liquefiers...

