

OMEGA

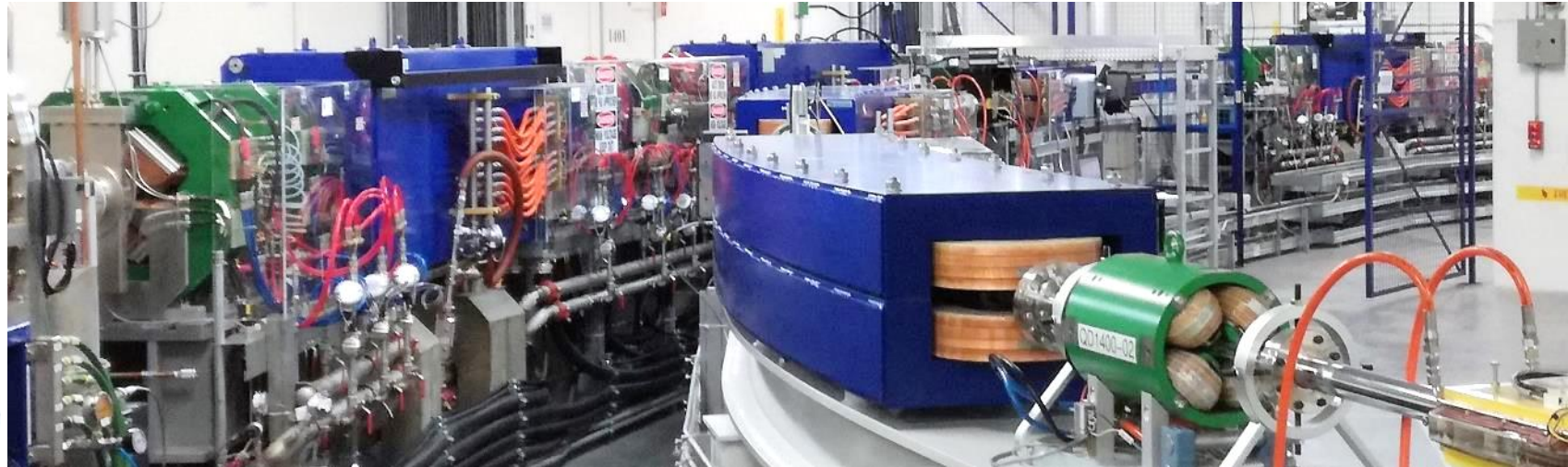
PHYSICS

PRESENTATION

July 2023



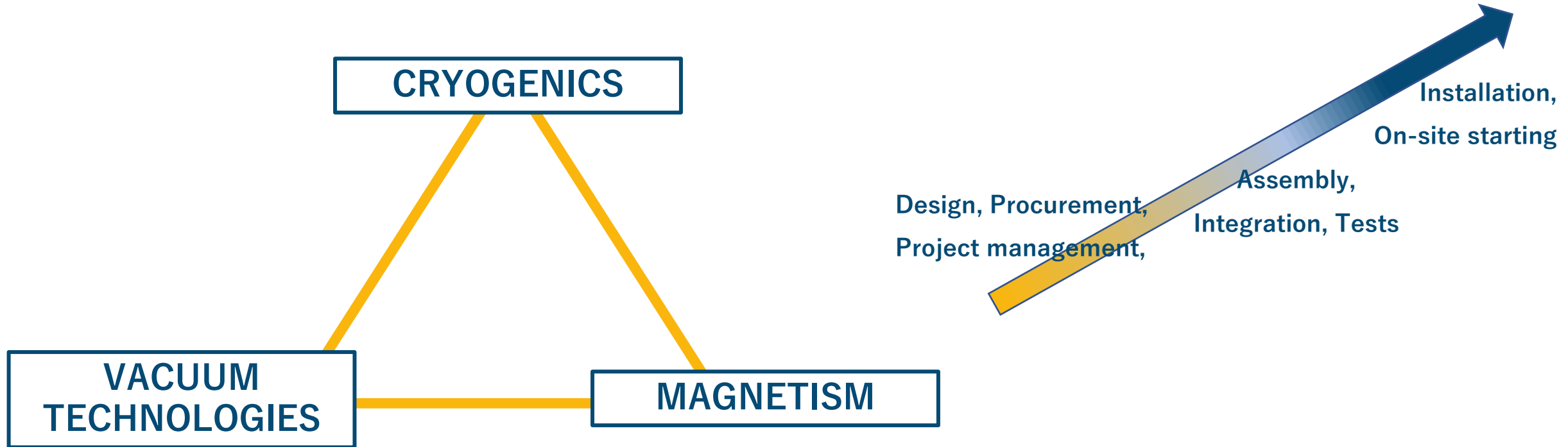
- Created in 2020
- **Our “DNA”** : Materials, Physics, Ion implantation, Metallurgy, Industry, International projects
- **Significant background in particle accelerators technology**
- **Customers : Research centers and industries :**
Physics, Particle accelerators, Medical systems, Nanotechnologies,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



- Located in France, Region : Bretagne



→ 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



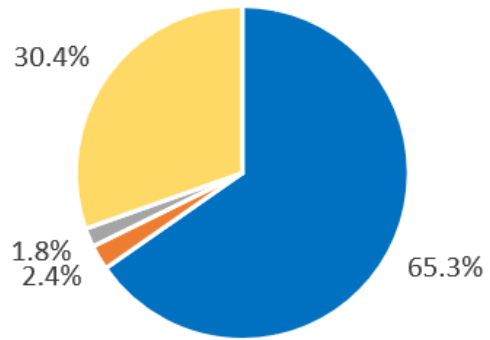
... AND SERVICES

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



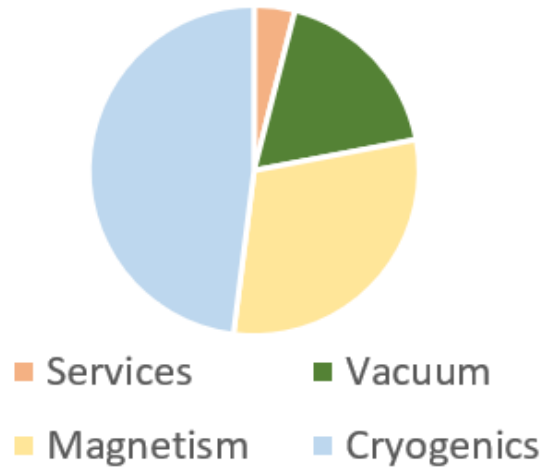
2022 SALES

per country



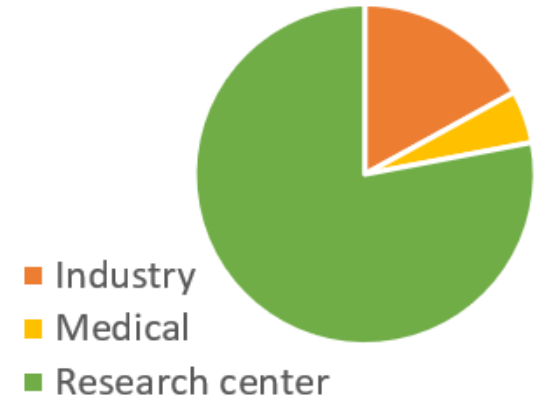
■ France ■ USA ■ South Korea ■ Germany

per type of products



■ Services ■ Vacuum
■ Magnetism ■ Cryogenics

per type of customers



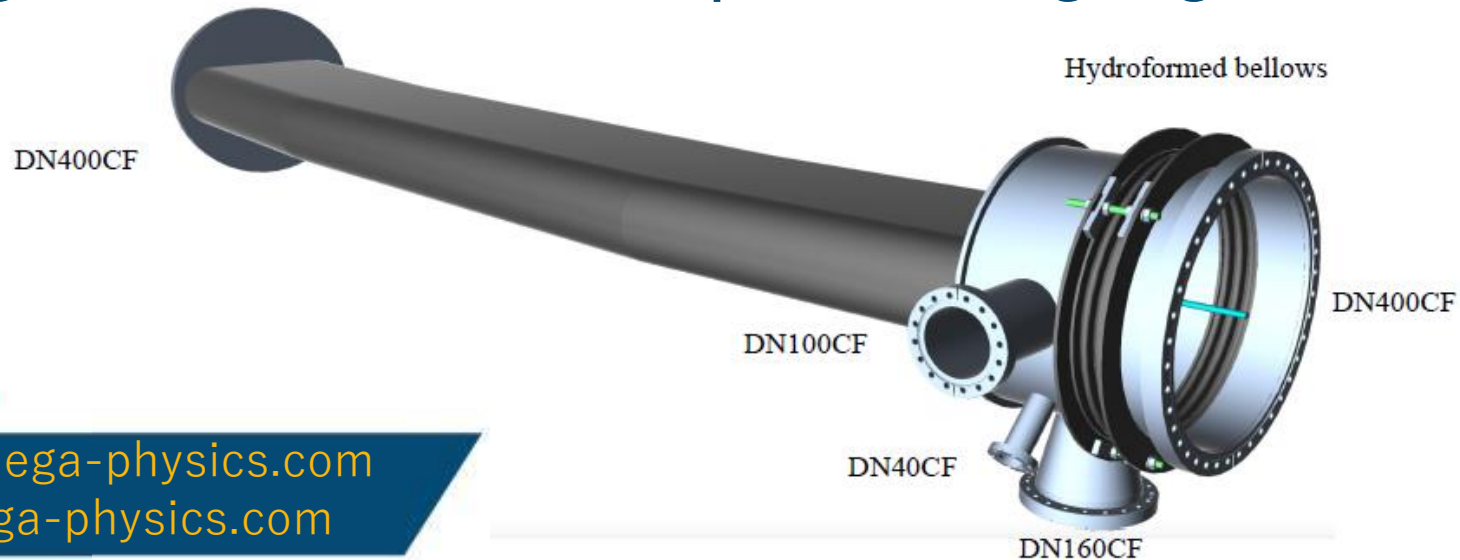
■ Industry
■ Medical
■ Research center



- Radiation resistant gas dosing valves for Radiopharma cyclotron



- Ongoing : Vacuum chambers for superconducting magnets



- Cryocoolers, Helium purifiers/liquefiers...



- 2 years framework contract with CEA for vacuum components



Thank you for your attention

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