HYDROGEN VALUE CHAIN



A unique **partnership** to ensure risk management, regulatory compliance and performance of your hydrogen equipment & system





The strength of an alliance between a key R&D player and a world leader in safety, inspection and certification

Your challenges



Accelerate the development of technological solutions adapted to the H2 environment. **Optimize** the performance of an existing system or component. Ensure compliance with standards. Validate hydrogen specific materials.



Our solutions and services

- Technological and regulatory watch
- · Support for normative, regulatory & technological
- compliance Risk management/Safety audits
- Systems functional safety
- · Life Cycle Assessment (LCA) and review
- 3D design/calculation
- Design review
- · Materials selection and validation through characterization or testing
- Trainings



Elaborate detailed technical specifications. **Evaluate** suppliers & verify compliance with international standards. **Assist** in the selection of the best partners

guaranteeing the quality, reliability & environmental impact of equipment. **Propose** solutions that meet the spectific

requirements in H2 environment.



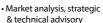
- Suppliers Audits/ evatuations
- Verification of compliance with international standards
- QA/QC audits
- · ESG criteria assessment. CSR, carbon footprint



Transform innovations into reliable. competitive, manufacturable products. Ensure a successful transition from design to mass production.

Integrate technological solutions into your industrialization process.

Guarantee industrial validation and compliance with international standards.



- Integration of technological solutions
- into the production process
- Equipment suppliers audit · Support for process control
- & industrialization Cleanliness analysis
- OMOS/OS
- Non-Destructive Testing
- On-site deployment assistance
- · Facilities certification
- Industrial cyber security
- Audit 17025 & support on quality plans implementation



Maximize the deployment & sale of H2 systems with market analysis, technical and strategic advise, as well as on-site deployment assistance.

Analyze failures and damages, detect leaks in systems and components. Certify installations, ensure their optimal and safe use.

Train teams on risks in H2 environment.

- On-site industrialization of equipment and continuous processes
- Regulatory compliance check (ATEX, lifting, ...)
- · Equipment commissioning
- Quality management monitoring
- NDT / monitoring / SHM
- · Diagnosis of causes of underperformance
- Performance benchmarking
- Leak detection
- · Failure and damage analysis
- Corrosion expertise
- · Labeling (Origine France Garantie)





