

HANNOVER MESSE

GERMANY
23-27 APRIL 2018

Additive manufacturing - Automation, workflow management and robotics - Digitization of the value chain - Energy efficiency - Monitoring and control - New materials and composites - The role of people

HALL 8 F07 - HALL 27 D75

CRÉATIVE SPECTRE



The digitalization of factories
and their entire ecosystem
provides new ways to optimize
the value chain at every step,
from prototype to final user
with a critical impact
on performance and cost.

IN PARTNERSHIP WITH:

BUSINESS FRANCE

www.businessfrance.fr



Business France is the national agency supporting the international development of the French economy, responsible for fostering export growth by French businesses, as well as promoting and facilitating international investment in France.

It promotes France's companies, business image and nationwide attractiveness as an investment location, and also runs the V.I.E international internship program.

Business France has 1,500 personnel, both in France and in 64 countries throughout the world, who work with a network of public- and private-sector partners.

For further information, please visit:

www.businessfrance.fr

ALLIANCE INDUSTRIE DU FUTUR



Created in July 2015, Alliance Industrie du Futur brings together professional organizations from industry and digital technology along with academic and technological partners, all rallying around a common ambition: to make France a leader in the world's industrial renewal.

Alliance Industrie du Futur is tasked with putting into practice the National Industry of the

Future project launched by the French Government in April 2015, in the framework of the organizational overhaul of the New Face of Industry in France.

Alliance Industrie du Futur has a particular mandate to support companies in the transformation of their business models, their organization, and their design and marketing methods, in a world in which new tools based, for example, on the digital, on additive manufacturing, on new materials and on advanced robotics are bringing down the barriers between industry and services.

6 priority areas of action have been identified:

1. Help companies adapt to the Industry of the Future
2. Develop cutting-edge technologies
3. Employees training (upskilling the industrial workforce and training the next generations)
4. Promote the French Industry of the Future
5. Reinforce standardization initiatives, at an international level
6. Build on the technological legacy

LA FRENCH FAB



“La French Fab” brings together the French industrial ecosystem under a single banner to highlight French manufacturing expertise and provide a vision for the future of French industry.

It promotes the French manufacturing sector internationally and showcases French high-tech innovation and excellence, by businesses big or small.

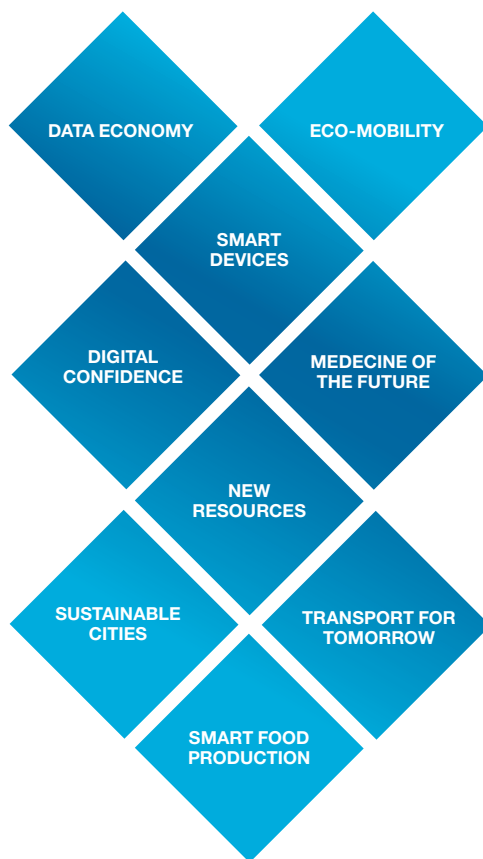
With a highly skilled, qualified and ambitious workforce, France is at the cutting edge of the digital transition and is already building a position as a global leader in digitizing industry, a key factor in business competitiveness.

French companies are already producing tomorrow's goods and services by finding industrial solutions that provide real-world responses to key challenges for business and society, such as the data economy, eco-mobility, new resources, sustainable cities, transport for tomorrow, smart devices, digital confidence, medicine of the future, and smart food production.

FRANCE IS AT THE CUTTING-EDGE OF INDUSTRY!

- ◆ France is well known for its industrial expertise and ingenuity ◆
- ◆ France's workforce is highly skilled, qualified and ambitious ◆

SEVERAL KEY SECTORS OF TECHNOLOGICAL INNOVATION



- ◆ In France, industry of the Future is a key sector for innovation ◆
- ◆ France is embracing the digital age, and is emerging as a global industrial powerhouse ◆

The French Fab is underway!

#FrenchFab

LaFrenchFab.fr

EXHIBITORS LIST

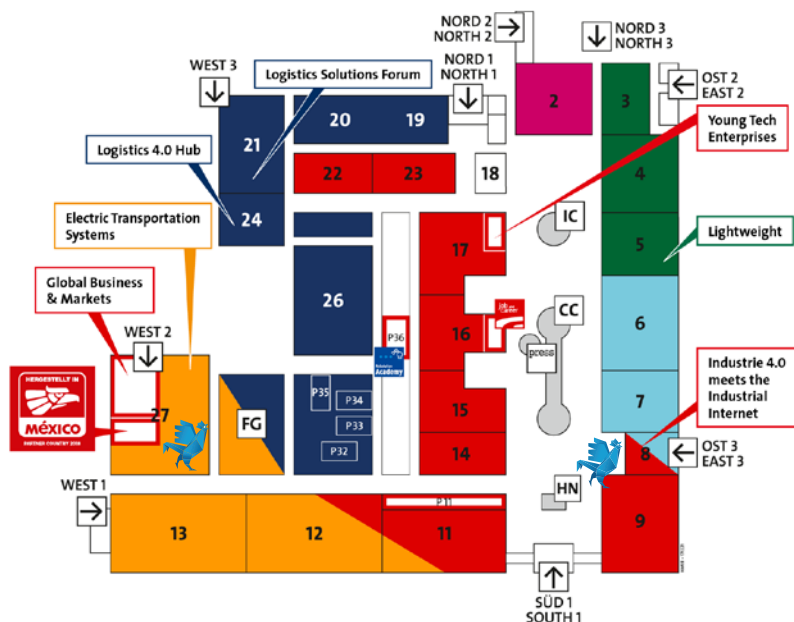
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FLOOR PLAN



HANNOVER MESSE

- Integrated Automation, Motion & Drives**
Leading Trade Show for Integrated Automation, Industrial IT, Power Transmission and Control (Halls 8, 9, 11, 12, 14-17, 22, 23)
- Digital Factory**
Leading Trade Show for Integrated Processes and IT Solutions (Halls 6-8)

- Energy**
Leading Trade Show for Integrated Energy Systems and Mobility (Halls 11-13, 27, FG)
- Industrial Supply**
Leading Trade Show for Innovative Subcontracting Solutions and Lightweight Construction (Halls 3-5)
- Research & Technology**
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Hall 8 - Booth F07



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www.projectsmartexplorer.com
www.industrie4-0smartplatform.com

2B1ST CONSULTING facilitates digital transition in industry. Since 2012, we combine Industrie 4.0 specialists and experts from industry to develop digital applications for business development and collaborative innovation.

www.projectsmartexplorer.com is a projects data base that helps to "See Beyond". You can detect fast-track projects, identify best routes to market, play proactive and increase hit rate.

www.industrie4-0smartplatform.com is a collaborative platform that facilitates to "Move First". You can use digital twins to build scenarios, encourage innovative agility, value intellectual property, reduce risks and measure performances to convert POCs into reality.

It is perfect tool to support digital transition of innovation processes in respect with new ISO 50501.



ADDUP

Hall 8 - Booth F07



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AddUp is a joint venture (JV) between Michelin and Fives offering integrated solutions for the industrialization of metal Additive Manufacturing (AM machines & production workshops), leveraging both groups' extensive experience and capabilities: in particular, MICHELIN's unique hands-on experience in the development and day-to-day operations of 3D metal printers and FIVES Group engineering know-how in the design, manufacture and assembly of reliable and robust machines and systems.

Beyond the supply of (top performing) additive machines for metal, AddUp provides training and technology acceleration support to its customers, and assist them in envisioning suitable parts and assemblies that could benefit most from combining design optimization and the (unique) capabilities of AM.

And possibly, in a phased introduction, fabricate test parts toward establishing a proof-of-concept.



ALERTGASOIL™

Hall 8 - Booth F07

alertgasoil™
fuel cost killer

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Alertgasoil™ is a patented technology which reduces fuel consumption: theft and waste elimination, real-time consumption control, fill-ups optimization, measurement of the carbon footprint, fleet location, etc.

Alertgasoil™ system lies in the movements detection of fuel inside the tank thanks to technological tools in the Big Data:

- More than 10 smart sensors: Including one main sensor in the tank, Real time and accurate volume measurement,
- An embedded computer system: In vehicle cabs, Centralized sensor data,
- A web application: Consumption analysis and optimization, Web services for ERP integration.

As first measurement and control solution of fuel tanks (350 customers, 20 000 tanks equipped...) and growing internationally (US, Benelux, Italy, Turkey...), alertgasoil™ is now the world reference in its sector.



Hall 8 - Booth F07



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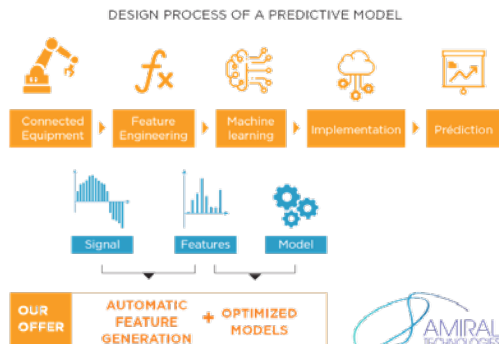
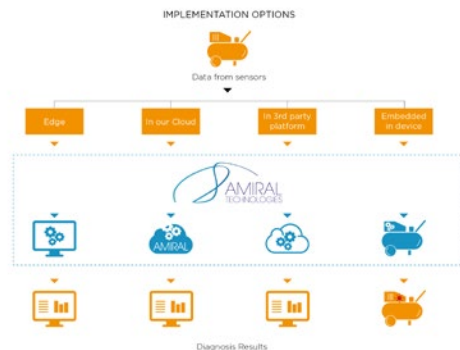
AMIRAL TECHNOLOGIES specialises in the quick design and delivery of PREDICTIVE MAINTENANCE and PRODUCTION QUALITY solutions:

- Defective equipment
- Defective manufactured product
- Equipment with signs of aging
- Equipment Remaining Useful Life

Our unique innovation in **Automatic Feature Generation** allows extraction of highly discriminant indicators from any time-based and transitional signal (electric signal, temperature, humidity, vibration, ...) to generate performant Artificial Intelligence-based prediction models.

Our award-winning solution can be deployed on your IoT platform, on our cloud, at the edge of your network or be embedded in your equipment.

We envision the future of the Digital Industry with Zero Defects and Zero Downtime. Our Predictive Maintenance Solutions are designed to reach this vision.



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Hall 8 - Booth F07



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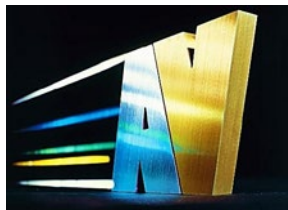
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ARENZI provides the best indoor tracking solutions.

After 5 years of R&D, our technology tracks in real time every asset with accuracy (up to 50 cm / 1 meter) in complex environment thanks to our own bass frequency communication protocole.

Easy to install (long range reader, solar energy...), easy to use (software is designed to be user-friendly), Arenzi solutions fit with every kind of industries, airports, stadiums...even cities.

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AVN French company with over 35 years' experience provides complementary solutions in transitics, packaging machines and air handling technologies. Our skills: engineering, manufacturing, installation, training and maintenance.

AVN offers complete turnkey systems in automated sorting lines and process services for logistics and express delivery transport.

Our brand-new machine Avascan® integrates bar codes reader and video programs for full parcel data.

Other conveyor systems: order-picking equipment, specific conveyors and automated luggage treatment systems for airports

AVN designs and makes automatic and semi-automatic packaging, dosing and sealing machines for food and cosmetics industries.

AVN is also specialized in air handling installations, clean rooms, laminar air flow, for safe and clean air requirements.



Hall 8 - Booth F07



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BPIFRANCE finances businesses from the seed phase to transfer to stock exchange listing, through loans, guarantees and equity. **Bpifrance** accompanies firms in their innovation projects and international activities and also insures their export activity through a large range of products.

Bpifrance, Business France, the Industry of the Future Alliance and Regions of France have moved, alongside the State, to serve as operators of La French Fab.

La French Fab, the standard bearer for French industry en route.

La French Fab is the rallying sign for a collective movement, the colours flown by the French Industry team. The La French Fab brand embodies the companies and industrial sites located in France which share the desire to develop French industry, adhere to the concepts and values of La French Fab, and are proud to wear its colours.

It federates the ecosystems of industry supported by all players in the territories who display La French Fab as a sign of unity.

La French Fab has the highest ambitions for the French industrial landscape:

- **Accelerating the transformation of French industry** by disseminating the **concepts and technologies of the Industry of the Future**.
- **Networking** the energies of French industrial players.
- **Giving visibility and pride to** those who make up French industry every day, and to French industrial excellence, in France and internationally.
- **Embodying the prosperous future of French industry** and the attractiveness of the trades which will comprise it — from initial, professional or ongoing training to employment.
- **Clarifying the offer of public support** for industrial activities in France.

BUYMANAGER

Hall 8 - Booth F07



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Value Centric Sourcing.

e-Sourcing and Product Cost Management Tools for Manufacturing and Electronics industries.

BUYMANAGER is an agile and automated sourcing software connected to the supply chain.

Buymanager assists its customers with a full suite of dedicated modules for electronic procurement to help meet new purchasing challenges such as strategic sourcing, digitalisation of communications with suppliers or capitalisation of procurement databases.

Implemented in 10 different countries, Buymanager is currently used by around 40 companies. Focused around Strategic Sourcing and the optimisation of operational procurement process, Buymanager has emerged as the benchmark software solution for the electronics and industrial sectors.

Learn more about Buymanager:

<http://www.buymanager.biz>

CAILABS

Hall 8 - Booth F07



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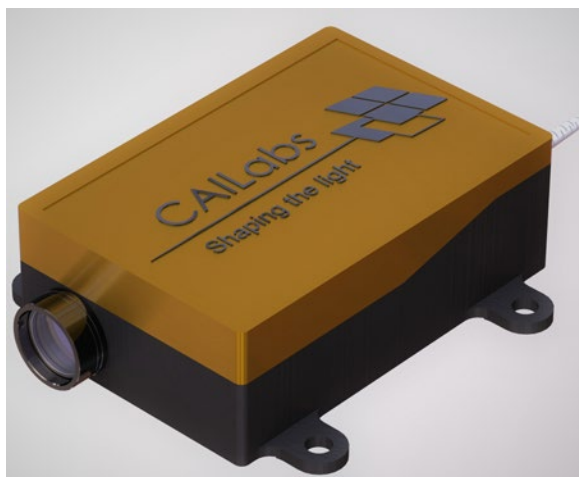
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CAILABS is a French, deep tech start-up based in Rennes, France, developing and producing a large range of light shaping components through its patented, efficient and flexible Multi-Plane Light Conversion technology (MPLC).

CANUNDA is a laser beam shaping and combining system designed to improve the productivity of industrial laser machining systems.

CANUNDA allows the shaping and combination of most lasers with a maximized depth of field at power levels up to 10 kW. The complexity of the CANUNDA formatting and the low transmission losses constitute a considerable advance for laser material processes.



New Canunda-MR laser beam shaping system by CAILabs

Hall 8 - Booth F07



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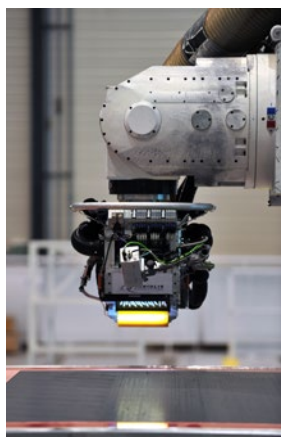
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EMC2 cluster brings together more than 360 players around key markets and technologies in order to help French industry become more competitive, with a focus on advanced manufacturing technologies.

It creates synergies between large international groups, small and medium-sized companies, research laboratories and training centres. It provides a wide range of services in order to boost innovation through new processes and products, with the goal of reducing the time-to-market of R&D for companies' growth and competitiveness.

EMC2 aims to increase R&D capacities in key enabling technologies and drive the development of new goods and services, restructuring the industrial processes needed to modernize industry.



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Hall 8 - Booth F07



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ESI Group is a leading innovator in Virtual Prototyping software and services. Specialist in material physics, ESI has developed a unique proficiency in helping industrial manufacturers replace physical prototypes by virtual prototypes, allowing them to virtually manufacture, assemble, test and pre-certify their future products.

Coupled with the latest technologies, Virtual Prototyping is now anchored in the wider concept of the Product Performance Lifecycle, which addresses the operational performance of a product during its entire lifecycle, from launch to disposal.

The creation of Hybrid Virtual Twins, leveraging simulation, physics and data analytics, enables manufacturers to deliver smarter and connected products, to predict product performance and to anticipate maintenance needs.

ESI is a French company listed in compartment B of NYSE Euronext Paris. Present in more than 40 countries, and addressing every major industrial sector, ESI Group employs about 1200 high-level specialists around the world and reported annual sales of €141 million in 2016. For more information, please visit www.esi-group.com.



www.esi-group.com

FONDERIES DE SUGLAND

Hall 8 - Booth F07



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Cast iron and steel foundry, parts weighing from a few grams to 2.5 T, individually or in small- or medium-sized runs. Our difference: our R&D internal department and our study resources, combined with our smelter experience, enable us to validate the transition from design to implementation stage. Design office to co-design parts for optimizing costs and timescales.

We can carry projects to meet your exact requirements or needs and help you to select the most adapted steel or cast iron.

- Search for the grade that best meet the environment requirements and/or restrictions needed by the customers.
- If necessary, develop a new grade with improved efficiency.
- Grade's adjustment to a new design or process.
- Validate the grade choice by laboratory or real size experiments.



GLOBALSENSING TECHNOLOGIES

Hall 8 - Booth F07



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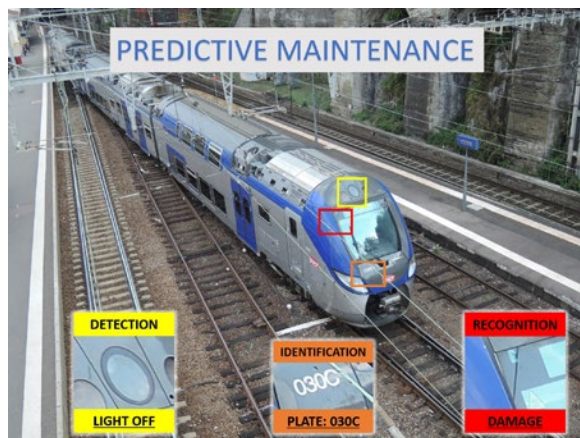
GlobalSensing Technologies (GST) addresses "Computer Vision" domain through both activities, Systems Engineering and Edition of Smart Recognition Solutions.

The three following expertises, Signal Processing, Artificial Intelligence and Embedded Electronics constitute the pillars of its know-how. They are essential to succeed in such domain.

Consequently, GST provides outstanding solutions (99,9% success rate) to tricky use cases which are visual detection, visual searching, and visual identification.

GST is well recognized to equip, manage and make connected objects standalone with local and/or remote smart system.

Its aim is to provide to customers dedicated solutions to their operation Safety. They relate to predictive maintenance, material and people security. They bring a significant and quick Return On Investment.



GROUPE ADF

Hall 8 - Booth F07



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GROUPE ADF, a leading provider of industrial engineering and maintenance services, employs 3,900 people in 13 countries, across 4 continents.

Specialising in three business lines – engineering & expertise, the supply of production and testing equipment, and production & maintenance services – Groupe ADF serves the Aeronautics, Space & Defense – Industry – Energies – Oil & Gas sectors.

In 2016, Groupe ADF acquired Latécoère Services, which was subsequently renamed LATESYS in early 2018. After a record-breaking year, Groupe ADF is expecting to record sales of €411m in 2017.



Hall 8 - Booth F07



The global mechatronics solution

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HYD&AU (Hydraulics & Automation) was created in 1977 from family run company and strengthened by a dynamic external growth strategy spearheaded in the early 2000s. The Group today is a French mid-cap company with 300 employees. HYD&AU generates revenue of 50 million and delivers an end-to-end range of mechatronics solutions.

Hydraulic

- Development of hydraulics systems
- Hydraulic cylinders: ISO, custom design, welded or screwed type, stainless steel and cylinder repairs

Automation

- Electricity-automated systems: design and development of industrial electrical cabinets, design of automated systems and creation of wiring assemblies
- Cable carriers: design and manufacture

Mechatronic global offer

- Design & Engineering
- SPM & Robot Handling system
- On-site installation, Process improvement & machine refit

IRT JULES VERNE

Hall 8 - Booth F07



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IRT JULES VERNE is the French mutualized industrial research institute dedicated to advanced manufacturing technologies. Based in Nantes and central to the Loire Valley Region's economic strategies, IRT Jules Verne embraces the industrial, scientific and technological challenges that concern four strategic industries (aeronautics, shipbuilding, automotive and energy).

It brings together manufacturers, training facilities, private and public applied research laboratories, and prototyping and industrial demonstration resources. It focuses on strengthening the "industry-research-training" process in order to make the technological jumps that will help companies boost their competitiveness and continuity.



MONIXO

Hall 8 - Booth F07



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MONIXO is a French startup that designs Industrial IoT and machine learning algorithms for predictive maintenance. The solutions optimize the availability of machinery by anticipating 90% of failures and giving in real-time, the warranty of equipment's proper operating conditions.

The solution main components are industrial IoT in charge of collecting data and the machine learning processor in charge of analyzing data and anticipate failure at the first signs. Monixo is designed to be fully adaptable to industries needs in predictive maintenance. Therefore, it can integrate existing sensors and can also be integrated to CMMS or ERP.

Successfully deployed in many cutting-edge industries of energy, environment, automotive, and manufacturing, Monixo, besides anticipating failures, increases the MTBF of machinery over 40%.



PARADE

Hall 8 - Booth F07



PARADE
parade-protection.com

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PARADE, is the French safety shoes leader. This young startup of 40 years old DNA is innovation.

Because we know that you'll need preventive and efficient safety for the future, in 2016, we created the first worldwide range of smart safety shoe that identifies falling alert and dangers areas.



PREDICT

Hall 8 - Booth F07



PREDICT

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PREDICT provides Predictive Maintenance 360° digital solutions for Industry 4.0:

- edge CASIP®: online proactive and real-time solution
- on-premise KASEM®: digital platform to manage predictive maintenance at manufacturing plant or corporate level to address world-wide vision

CASIP® and KASEM® are composed of digital and big data technologies for data acquisition, data management, data storage, data manipulation, data mining, pattern recognition, analytics, machine-learning, clustering, state identification, early detection, trends, health assessment, prognostics, advisory generation, data visualization, dynamic dashboard.

CASIP® and KASEM® integrate 50+ industrialized algorithms, tested, robust and proven; and have connectors to various fieldbus, to 10+ historian solutions, to 30+ automation systems and to IIoT.



PRODUCTYS

Hall 8 - Booth F07



PRODUCTYS
Solutions

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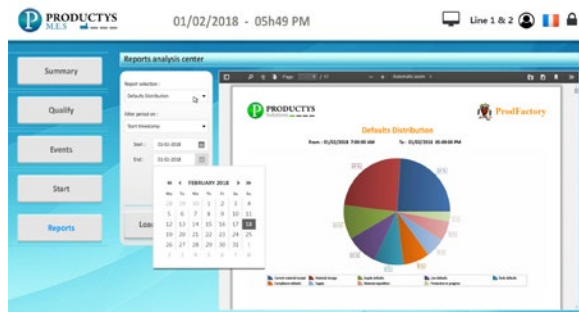
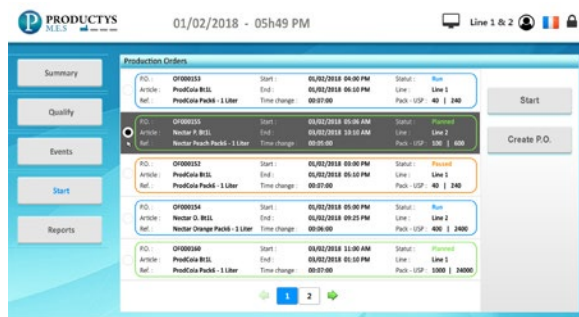
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Software editor MES & Manufacturing Intelligence Making for the Factory of the Future in all industrial trades.

From production planning to production decision monitoring, automated process or not, free or economic generic modules. Zero paper objective, total traceability and maximum productivity !

Free Express modules available for PLC / IoT communication, data acquisition and retrieval in the main MS SQL, ORACLE, PostgreSQL, and other standards without any programming needed.



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PROSYST

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PROSYST develops and markets products and services dedicated to the automated system performance.

To meet the challenges of the Industry 4.0, Prosyst develops innovative solutions (hardware/software) stemming from its strong commitment to research and development by providing solutions for design, simulation, monitoring and advanced maintenance of automated systems.

Prosyst is involved in all industrial sectors at a worldwide level: Automotive, Railway, Mining/Metal/Mineral, Food&Beverage, Energy and Infrastructure, Machine builders, System Integrators... Its customers include, among others, major accounts such as PSA Peugeot Citroen, Renault-Nissan, Bombardier Transportation, ArcelorMittal, Areva...



RCUP

Hall 8 - Booth F07



RCUP

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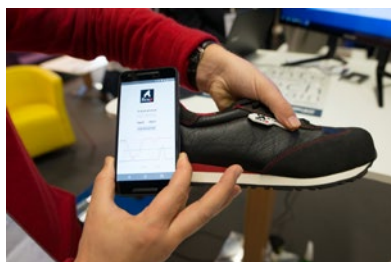
RCUP.IO claims to offer a real Digital Twin with human based data. We connect hard workers using their professional clothes, with privacy respect.

First, we build a Golden Pattern (digital representation of the best way to perform a job, based on IA), (1) we prevent strain injuries issues that cost pain and money, (2) we contribute to avoid work accidents (3) we augment Lean Manufacturing with real time data from people (4) We communicate positively on Industry 4.0, by including Humans and not only robots!

Our first solution connects Security shoes with tailor-made insoles, offering A) Geo-fencing and factory analysis; B) Lone worker alarm; C) monitoring of carried weights D).

What makes RCUP.IO different:

- Individualized (let's care about people)
- No charging (avoid everyday charging -monthly basis)
- Benefits for both humans and corporate (acceptability is key in Europe)
- Based on learning algorithms (please watch PSA movie on Rcup.io website)



REGION HAUTS-DE- FRANCE

Hall 8 - Booth F07



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Said BENBOUZIANE

International Development and
Economic Attractiveness

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With an employment level of over 300,000 jobs, HAUTS-DE-FRANCE REGION ranks as one of the heavy weights of the French industry: 1st region in railway and automotive industry, 2nd for technical textiles, 3rd for logistics. Aeronautics, agricultural machinery, chemistry, metallurgy, agri-food are also large economic sectors.

Cutting-edge know-how, culture of innovation, networks of excellence are also key assets that our Region has been building; together with 9 universities, 34 high schools, 8 competitiveness clusters, globally-recognized research labs and innovation platforms dedicated to technological transfer, Hauts-de-France Region claims its industrial and technological capabilities.



La Région Hauts-de-France s'engage pour l'industrie du futur

© Photo : Guillaume CROCHEZ

REGION PAYS DE LA LOIRE

Hall 8 - Booth F07



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Talents & Manufacturing 4.0

The PAYS DE LA LOIRE Region is always one step ahead of the future. 1st French Region for establishing factories (2013-2016), 1st in Shipbuilding & Pleasure Boat industry, 2nd in Civil Aviation, 3rd in Automotive, Pays de la Loire hosts a large number of companies connected to a reliable research and academic ecosystem.

Our region gathers talents and skills dedicated to the development of Industry 4.0: Advanced Manufacturing, Composites, Virtual Reality, Artificial Intelligence, IoT, Robotics, strong industrial capacity and logistic 4.0.

Our strength lies in our culture of networking that builds bridges between our main industries and contributes to make our region one of the most attractive in France.



RH

Hall 8 - Booth F07

RACCORDS HYDRAULIQUES

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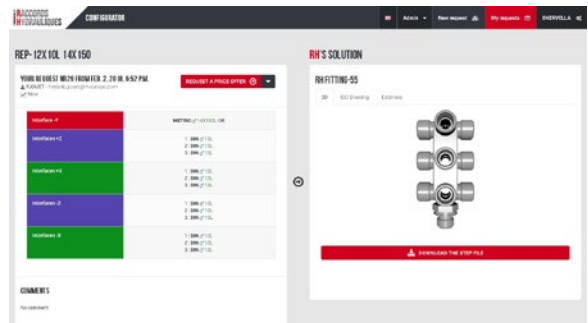
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RH: Specialists of hydraulic connectors for mobile machinery. RH creates, builds and ships solutions of custom-made hydraulic connectors for builders of mobile machinery.

Thanks to its very innovative concept RH has won the loyalty of important purchasing brands such as Manitou, Massey Ferguson, Toyota (Material Handling), Yanmar, Hydac and the Wacker Neuson Group. In the purpose of facing the growing complexity of hydraulic connectors, RH wishes to provide their customers with simple and efficient solutions. Custom-built, in small quantities, with short delivery times, for a reasonable price: RH creates the **SMART HYDRAULIC CONNECTOR**.

Thus, RH developed an online Configurator of hydraulic connectors and enforced the Quick Response Manufacturing.



www.rh-europe.com

SCORTEX

Hall 8 - Booth F07



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SCORTEX deploys artificial intelligence in the heart of factories. We help our customers take the next big leap in smart automation thanks to our Quality Intelligence Solution.

Our platform enables manufacturing companies to take control of their quality:

1. Automate visual inspection tasks.
2. Monitor key quality data in real time through our intuitive platform.
3. Improve production process by consolidating production knowledge.

Thanks to our proprietary deep learning platform, we provide a state-of-the-art performance and robust vision solution for quality intelligence.



Hall 8 - Booth F07



SODISTRA
Air handling solutions

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Erwan COATANÉA

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Is air hygiene essential for you? Do you care about not being made sick by the food?

Indeed, the environment where the food has been produced is very important and regulation about hygiene and safety conditions are always more strict.

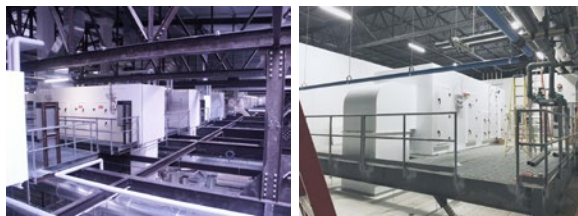
SODISTRA support you in your air handling projects since 1971.

We design and manufacture in France, equipped air handling units and air processing networks in polyester composite, 100% custom-made, for security and hygiene in the food industry.

Our ultra-clean AHU are very resistant to corrosion and, thanks to the assembly method, get a high thermal and mechanical resistance.

You have never seen anything like Sodistra units but you have already seen the hull of a boat designed like them.

Our expertise is based on our unique know-how in working with the raw material, polyester composite, to create a monocoque structure, assembly by polyester bridging (No screws, no rivets).



SOPHIA ENGINEERING

Hall 8 - Booth F07



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Focused on our customers objectives to improve their competitiveness, we deploy unparalleled technical expertise and comprehensive abilities across multiple sectors.

We help our clients develop products and processes that carry them into the future of their industry. Our engineering services deliver results through a scope ranging from R&D to maintenance, including design, simulation and development.

Samples of what we do:

Engineering: research & development, modelisation, simulation, engineering & systems, specification, validation & industrialization, integration, technical purchase

Project management: scheduling, organization, creation of activities, technical & budgetary monitoring, team coordination, business leading

Expertise: technical monitoring, quality monitoring, audit

Through the years, we have learned to serve our clients globally leveraging our multiple offices, based in Europe and South-East Asia."

UBIKEY

Hall 8 - Booth F07



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Companies understood that their value is in their employees. Intelligence, creativity, ability to innovate and to work with others, are the key-elements reached in "high potentials".

Well educated, well payed, the high potentials are supposed to contribute actively to the company's success... And the company gives us tools from the Stone Age! Paperboard, post-its, PowerPoint ... Today's meetings look like yesterday's meetings. Everybody's sitting behind computer, a meeting leader, with paperboard and pens. Collaborative work needs that every member can act and interact on the meeting's result. The UBIKEY's software solution allows to participate in real time, and build together our own Lean Management process, looking for efficiency thanks to brainstorming and creativity.

UBIKEY takes place on the world market of Human Resources Management. Working with big companies and big consulting firms, Ubikey aims to help all the enterprises to realize the potential of their human resources, using the most adapted 21th century's tools!





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Integrator of innovative software solutions, VISIATIV steps up the digital transformation of companies via its collaborative and social business platform Moovapps. Working with mid-caps since its foundation in 1987, the Group posted 2017 revenues of €124m and boasts a diverse portfolio of over 15,000 customers. Covering every economic sector in France with operations in Switzerland and Morocco, Visiativ has nearly 700 employees.

Moovapps is a Smart Enterprise Platform built on technological engines (document management, workflow, omni-channel commerce, e-learning) to create business applications (Smart Apps), available on the Moovapps Store. Based on hundreds of successful customer digital experiences, Moovapps Smart Apps allows mid-market companies to design and accelerate their digital transformation platform.



Speed up your phygital transformation

Hall 8 - Booth F07



Vision for Your Automation

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www.visionerf.com

Specialised in industrial vision for more than 25 years, VISIO NERF was able to set itself apart, and thanks to products with increasingly higher levels of performance, offers an innovative range of 3D sensors.

These new scanners called cirrus3D make it possible to respond to complex applications in complete simplicity. From locating parts in bulk for loading machine tools, to correcting robot trajectories for depositing putty or a windscreen on a vehicle, without forgetting parts inspection directly on the production line, these high-end products push back the limits in industrial vision in order to offer you maximum performance and return on investment on your production lines.

Thanks to these fully "Plug and work" sensors, your production process is substantially optimised. Its ultra-fast scanning speed (0.2 to 1s) allows you to obtain unrivalled cycle times.

In order to meet any type of demand, cirrus3D comes in 6 models (from 150mmx150x70 to 1600mmx1200x1000) in order to best suit your needs.



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FLOOR PLAN

HANNOVER MESSE

Technical Floor Plan (in meter)

Subject to change
March 29, 2018



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- uprights truss system 4-point
- uprights truss system 3-point



AD VENTA

Hall 27 - Booth D75-11B



AD-VENTA

INNOVATIVE ENGINEERING

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AD-VENTA is specialized in On board Hydrogen Systems. Turnkey solutions proposed by AD-VENTA are developed thanks to a largest Patent portfolio, expertise and experience on the control of high pressure compressed gases. Its markets are focused around all mobilities: Automotive, Aerospace, Naval and others. The quality of its achievements is recognized by many partners and major French and foreign groups.

AD-VENTA AUTOMOTIVE, 1st subsidiary founded in July 2017 with FAURECIA CLEAN MOBILITY, produces and markets all EC79 approved components, thanks to knowhow and expertise of AD-VENTA.

AD-VENTA has designed the first multifunction On Tank Valve with an integrated regulator and pass is undertaking the tests to be approved for Fuel Cell Electric Vehicles.



AER Bourgogne- Franche-Comté

Hall 27 - Booth D75-3



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Supporting talent, improving business.

AER Bourgogne-Franche-Comté, an agency to support your development

All our actions are realized in close collaboration and in adequacy with innovation and economic development stakeholders (generalist, sectoral, technological, academics, experts, financials), and with employment and training partners.

Corporate project engineering by territory's strategic sector:

- Diagnosis of company's need
- Technical, financial, legal and HR engineering
- Corporate real-estate and building land research
- Partnership research
- Connection with public and private stakeholders of innovation and economic development

Innovative project engineering

- Eco-innovation – in partnership with ADEME Bourgogne-Franche-Comté
- Intellectual property sectoral, technological and collective intelligence – done in partnership Chamber of industry and commerce of Bourgogne-Franche-Comté.

AERIS GROUP

Hall 27 - Booth D75-2



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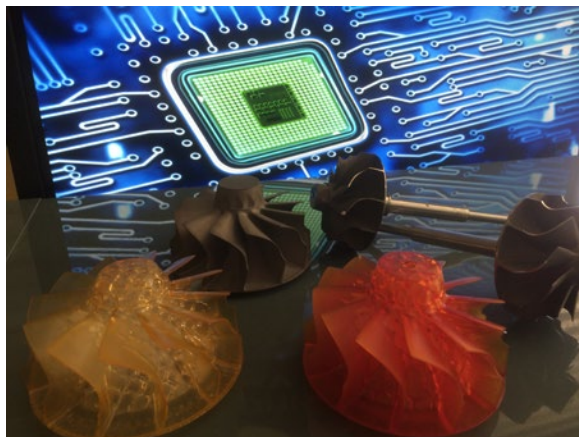
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AERIS is a company specialized in the design, the characterization and production of turbomachines for transportation applications. We provide customers with professional expertise in the fields of new composite materials and process in order to offer innovative and custom-tailored solutions.

Aeris contributes to the reduction of engine CO₂ emissions while ensuring a higher level of performance (specific power).

Aeris' lead is eco-design based on the integration of the modern 3D solution for obtaining a reduced inertia rotor.

In a downsizing framework, AERIS offers its customers packaged fuel cell architectures integrating state-of-the-art stacks in turbomachines.



www.aeris-group.com

ALCRYS FLUID-CONTROL & SERVICES

Hall 27 - Booth D75-8



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The High-Pressure specialist, ALCRYS® reinvents industrial gasses regulation with its own advanced technology: no-fitting, compact, 5 minutes maintenance, easier installation... all these exclusive advantages significantly reduce the leakage risks, space taken up and cost for all kind of applications even the most complex regulation as hydrogen up to 110 MPa.

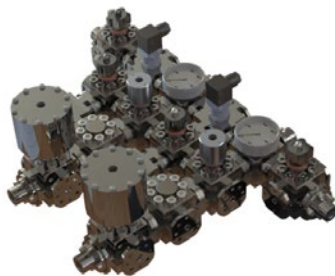
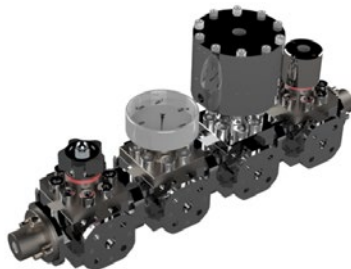
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French technology and manufacturing for all types of gas.

Alcrys® References: Safran, Air Liquide, Naval Group, CNES, Linde...

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Alcrys®, Together we harness the pressure.



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ARDEC METAL

Hall 27 - Booth D75-6

ARDEC
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ARDEC METAL

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ARDEC METAL, 8 plants in France, produces metal components especially in **stainless steel**, by:

- Turning and Machining
- Cold Forging
- Cutting and Stamping

We supply Automotive, Aeronautics, Aerospace, Medical, Connectics and Pharmaceutical Industries.



Automotive components



Medical components



Cutting parts

www.ardec-metal.fr

ATAWEY

Hall 27 - Booth D75-11A



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ATAWEY is a French company specialist in the hydrogen technologies. Atawey designs and manufactures turnkey energy storage solutions for off-grid applications and hydrogen recharging stations for hydrogen vehicles (bikes and cars).

Pioneer in the conception of energy storage solution connected to renewable energies, Atawey offers an innovative storage solution for off-grid applications (telecom antenna, island, eco-lodges...) based on the hybridation of batteries with hydrogen technologies to guarantee a standalone and continuous power supply 24/24 every day of the year.

With the upcoming hydrogen mobility deployment, Atawey offers its hydrogen expertise to design and manufacture hydrogen recharging stations at both 350 & 700 bar for cars and bicycles, including onsite hydrogen production.



CCI BOURGOGNE FRANCHE-COMTÉ

Hall 27 - Booth D75-14



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ELECSYS FRANCE

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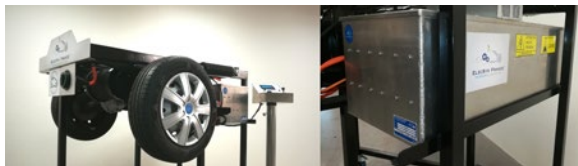
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ELECSYS FRANCE ® is a CUSTOM LI-ION BATTERY MANUFACTURER, an ELECTRICAL, ELECTRONICS and POWER ELECTRONICS DESIGN OFFICE, an EXPERT IN INTEGRATION OF COMPLEX SYSTEM in AUTOMOTIVE, MARINE and STATIONARY business area.

Since 2011, we have homologated 3 Electric vehicles in FRANCE, delivered a custom battery for the concept car "TreZor" of RENAULT, designed and presented a Hybrid Electric yacht at Festival YACHTING of Cannes.

A real success with an Electric Washer Car designed for our customer which is sold to Paris city, and all other France cities to clean the road. We are delivering Electric control units, dashboards, electric management boxes, Electric parking brakes, and our robust, reliable LI-ION BATTERY by ElecSys France ®.



ERGOSUP

Hall 27 - Booth D75-7



ERGOSUP

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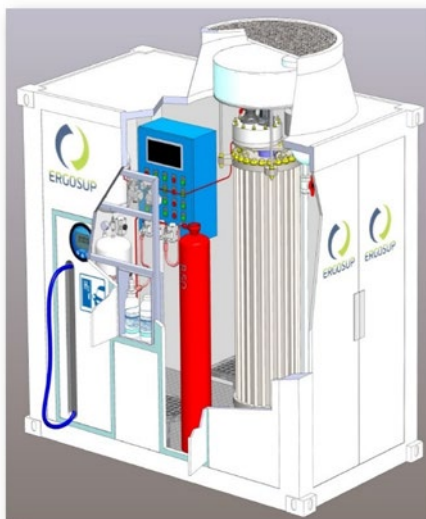
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HyRIS MOBILITY is a simple and cost competitive (low capex) H2 generator which goal is to fill-up "plug&play" composite cylinders in the range 100-300gr at 300 bars to address Fuel Cell transportation applications that require delocalised and fast hydrogen recharge (drones, bikes, scooters, forklifts...).

HyRIS STATIONNARY is a H2 generator supplying 0,1 to 1 kg/day of Hydrogen under pressure dedicated to laboratories or small industries that want to control their hydrogen production and remove gas supply with logistics (B50 bottles at 200 bars), maintaining the hydrogen consumption flexibility.

These products integrate ERGOSUP innovative hydrogen production process: decentralized and decarbonized H2 production, directly at high pressure (350 bars without compressor) with higher electrolysis process safety.



H2SYS

Hall 27 - Booth D75-5



H2SYS

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H2SYS is a company specialized in hydrogen fuel cell systems and hydrogen powered gensets. We design and manufacture PEM fuel cell systems that deliver power in a range from 500W to 3,5 kW. H2SYS fuel cell systems are equipped with balance of plant and user interface. A specific control software has been developed to control and record all data in real-time giving a plug-and-play experience to the user. H2SYS fuel cell systems are designed for both embedded and stationary applications.

H2SYS also proposes a range of electric generator powered by hydrogen. Totally noiseless and providing CO2 free electricity, the generators are hybrid systems where fuel cells systems and electric storage are integrated in a reduced volume making it easy to carry them everywhere. They can provide up to 15 kW of electric power. On the customer interface (number and type of plugs) is customizable to answer specific needs for professionals.



H2V PRODUCT

Hall 27 - Booth D75-13



H2V PRODUCT

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H2V INDUSTRY the world changes.

An ambitious industrial plan who reduce carbon impact.

H2V is an industrial company of massive hydrogen production by electrolysis of water, based on 100% renewable energy certified, it is the energy of the future.

Our projects are developed in collaboration with architectural firms and engineering offices specializing in the construction of chemical plants. In France, the first plants are under construction, and international developments are also very advanced.

The evolving H2V INDUSTRY program provides an answer to all applications that will need low-cost ecological hydrogen: the petroleum and chemical industry, energy storage, mobility. By 2025, the industry developed by H2V INDUSTRY will have created 12,000 jobs and invested 3.5 billion euros.



www.h2vproduct.net

HAFFNER ENERGY

Hall 27 - Booth D75-15



HAFFNER ENERGY

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HAFFNER ENERGY has developed a thermolysis process called HYNOCA® to produce renewable pure hydrogen from biomass at a cost at the pump approximately two times lower than Hydrogen produced by electrolysis.

HYNOCA® converts 67% of the primary energy into compressed hydrogen for electric hydrogen vehicles. With 25 years of experience and 19 patents filed, the company also brings its experience in terms of technical engineering for the production and operation of power plants from biomass.

The proof of concept is made and HAFFNER ENERGY will launch in 2018 a continuous industrial demonstrator with a capacity of 120 kg of hydrogen per day. This project has obtained active support from ADEME and the "Commissariat Général à l'Industrie", with a financial aid of 2.7 million euros.



JUSTY INGENIERIE ENERGIES

Hall 27 - Booth D75-4



JUSTY INGENIERIE ENERGIES

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JUSTY operates in 3 areas linked with renewable energies: wind energy, training in the wind sector and hydrogen.

- Market, potential and dimension studies in order to realise production centers and renewable energy storage.
- Dismantling and repowering wind farms.
- Wind study, acquisition, sale, rent, installation of measurement masts. Meteorological analysis and calculation of theoretical wind turbines.
- Conception and realisation of training support and educational tool for renewable energies, training in the wind energy sector.
- Assistance to the contracting authority throughout the project and for the construction of hydrogen production centers.

They trust us: General Electric, Vestas, Enercon, Nordex, EDF Energies Nouvelles, Servion.

MAHYTEC

Hall 27 - Booth D75-1



MAHYTEC
Innovative Hydrogen Solutions

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Established in 2008 in France, MAHYTEC develops hydrogen tanks based on two technologies. MAHYTEC manufactures light, Type IV tanks that can store hydrogen for all kind of applications. Our product range extends from big volume 60bar tanks for stationary applications through 525bar tanks for gas transportation, and up to 700bar tanks for on board systems in cars. MAHYTEC also offers solid storage in the form of metal hydride tanks.

Thanks to its large scope of knowledge, MAHYTEC also supplies complete energy system that integrated hydrogen generation and its conversion in electricity for back up energy system. MAHYTEC is also working on hydrogen filling stations for the development of hydrogen mobility.



Metal hydride tanks



Hydrogen station for energy autonomy and clean mobility

www.mahytec.com

PÔLE VÉHICULE DU FUTUR

Hall 27 - Booth D75-3



PÔLE VÉHICULE DU FUTUR

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PÔLE VÉHICULE DU FUTUR is one of the leading automotive clusters in Europe (Eastern part of France).

Federate industrials and research units in the field of future vehicles and mobility.

Actions:

- Collaborative research projects to bring near-market innovative products or services.
- Improve the industrial performance of companies: lean manufacturing and industry 4.0.

Products:

- Hydrogen vehicles / Fuel cell / Composites / Automotive components / Infrastructure and Car-to-X Communication / ITS / Mobility services.

380 members / 180 funded projects (28 European).

European Gold Label Excellence / Comprehensive experience in the European research and cooperation programmes / Partnerships with german and swiss clusters.

PRESSE ETUDE

Hall 27 - Booth D75-3



PRESSE ETUDE

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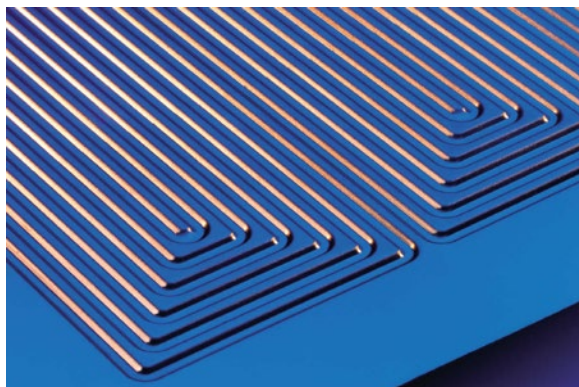
PRESSE ETUDE works in the design and manufacture of very high precision stamping tools for the production of bipolar plates for fuel cells.

This know-how contributes to the technological evolution of batteries, in particular to their miniaturisation.

50 years old factory, specialized in precision tools and NC precision machining – high accuracy quality works. Miscellaneous industries: energy - connectors - defence - food - medical – sensors - smart card – watch...

40 skilled employees – Design office (R&D) Solidworks 3D – Homemade precision tools and automatic machines workshop – assembly workshop - stamping works (max 80 tons).

40 NC precision machines – Prototypes and medium sized batches – dimensions up to Ø200 and 500 x 500mm: 18 mills (Mastercam 3D) – 8 lathers – 5 grinders – 6 wire & sinking EDM machines – 2 fast drilling machines (down to Ø0.15mm), laser engraving, quality control equipment office...



Hall 27 - Booth D75-9



SCHRADER

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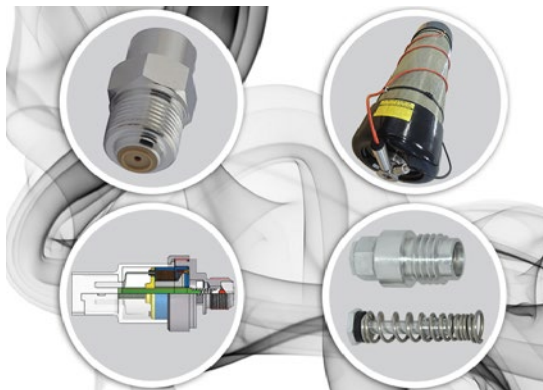
SCHRADER is a global leader in fluid control valves across a wide range of markets as automotive, aircraft or industrial.

Schrader designs and manufactures high engineered valves for pressurized systems.

The valves are shut off valves for charging circuit, pressure regulators, safety valves, check valves and fast connectors... There are implemented in the automotive air conditioning circuits, in the high-pressure gasoline engines or on the high-pressure accumulators...

All valves are produced internally with a high level of control and automation. The zero defect is our culture indeed our valves have safety functionalities. That's why Schrader is a multi-certified company: ISO 9001, IATF 16949, ISO 14001.

It's in this context that Schrader has solutions to secure Hydrogen's storage in case of over temperature or over pressure.



STREIT GROUPE

Hall 27 - Booth D75-2



STREIT GROUPE

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Located in France and Eastern Europe, STREIT GROUPE specializes in the **design, manufacture and assembly** of precision machined components.

The Company offers its customers a global service, from product and process development to delivery, assisting them on all technical requirements (development of cast parts, assembly, surface treatments, deburring and cleaning, quality control...).

The company expertise provides enhanced production flexibility, from small to large batches and machines a wide range of materials such as cast-iron, aluminum and various kinds of stainless steels. STREIT Groupe services a number of sectors including agriculture, heavy industrial, automotive, energy...

Innovation, quality and total customer support are guiding principles of the company strategy.



TENERRDIS

Hall 27 - Booth D75-11A



tenerdis
ENERGY CLUSTER

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Innovation Manager Hydrogen and
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TENERRDIS is a the French cluster for the energy (innovative Cluster) based in Grenoble, capital of the Alps. It aims to promote sustainable business growth and job creation across the new-energy-technology industries by developing new technologies to drive the energy transition through R&D projects involving industrial, institutional, academic and scientific partners.

The cluster's activities encompass support for innovation, the development of collaborative R&D projects with the capacity to shape emerging new-energy-technology industries, and targeted support for SMBs.

It covers the following topics:

- Solar
- Hydroelectricity
- Biomass & biogas
- Wind
- Hydrogen
- Energy grids & storage
- Energy-efficient buildings



VLAD

Hall 27 - Booth D75-12



VLAD

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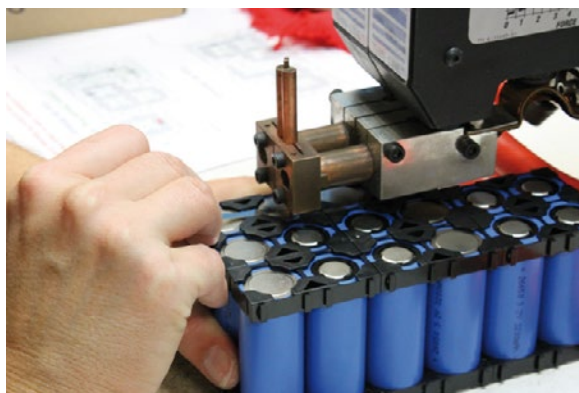
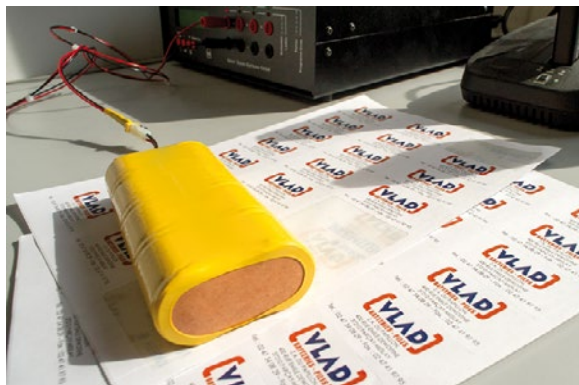
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Since 1985, VLAD has become the reference for autonomous energy for healthcare & industry.

Our trades:

- Distribution of medical batteries;
- Generic batteries assembly in our French factory (ISO 9001, 14001 and 13485 - medical devices);
- Battery refurbishment to manufacturers' standards;
- OEM battery design for industrial & medical manufacturers.



Technical expertise and high quality product from VLAD

www.vlad.fr

WIND FOR FUTURE

Hall 27 - Booth D75-3



WIND FOR FUTURE

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WIND FOR FUTURE is a wind energy cluster located in Bourgogne-Franche-Comte. The cluster gathers 90 members in the whole value chain of wind energy sector in France.

The main activities concern innovation projects and training programs. Wind for Future supports innovation projects in renewable energy. For example, Wind for Future heads a energy storage project regarding hydrogen production from wind energy in Auxerre. The goal is to power 5 urban hydrogen buses in 2019 and the entire urban buses fleet in 2025. Other hydrogen/wind projects are currently in progress.

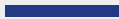
The cluster also organizes BZEE and GWO training sessions for maintenance technicians in wind energy sector.

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HANNOVER MESSE 2018

IF partnerships are the heart of
Industry Renaissance,

IF WE

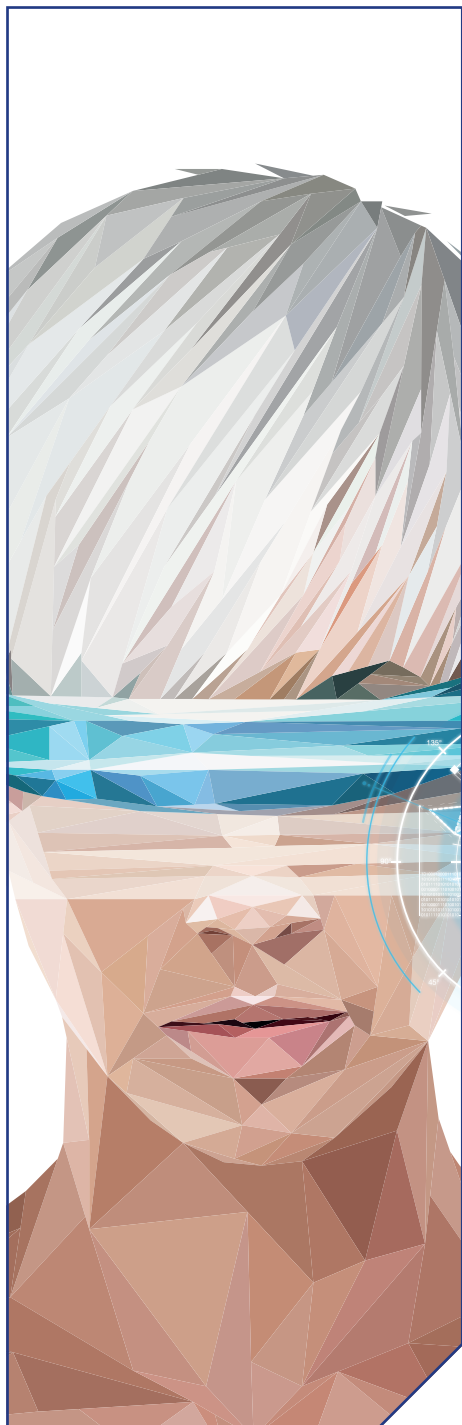
WE need new ways of
working together

Something really big is happening today in the industry.
New ways of working are needed to remain relevant
and competitive in today's Industry Renaissance.

Join us in **Hall 6, K.30** to see...

New Ways of Manufacturing,
New Ways of Engineering, and
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HANNOVER MESSE

GERMANY
23-27 APRIL 2018

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Créative France is an unconventional campaign that enhance France's economic attractiveness and image abroad. The purpose of the campaign is to highlight our country's full range of strengths, skills and savoir-faire. For more information: creative.businessfrance.fr

