

EDITO

An area of industry but above all innovation, the French city of Besançon and its regional technopole have built their reputation on their ability to work in synergy.

Together, manufacturers, students, researchers and experts can identify and meet the challenges of technology, entrepreneurship and innovation, thereby creating one big living laboratory forming the basis of emerging new talents, products, processes and start-ups or activities.

The TEMIS Innovation – Maison des Microtechniques resources centre is a special place where this collaboration is played out. It is here in this melting pot of technological innovation that projects and companies benefiting from incubator, nursery and accelerator programmes receive the resources, advice, coaches, mentors and connections with industrial, financial, academic and business communities that will guarantee their future success.

This cooperation is reflected in collective actions such as that implemented in Lille at the third year of MedFIT, a European convention dedicated to innovation in medical devices where our region, with its engineering schools, research and transfer centres and the dynamics of the Innov'Health regional cluster, is now a recognised and vital player alongside the Grenoble, Lille, Strasbourg and Belgian clusters.

Our next challenge will be to make Besançon a major research and development centre for the medicine of the future, but also and above all for bioproduction. Highly specialised in blood-related products and technologies, BIO INNOVATION will be our spearhead. This centre will facilitate the engineering of innovation projects and clinic access, etc. based on the expertise and connections of industry stakeholders. The stakes are high because they are linked to a paradigm shift in medical treatment for patients. We must play our part and offer real long-term prospects for the production of these personalised drugs in Besançon at reasonable prices for our health system.

We are committed to this and confident in our ability to act together.

Enjoy reading this edition,
Jean-Louis FOUSSERET,
President of TEMIS



PIXEE MEDICAL

With its new prosthesis positioning aid solution, French firm Pixee Medical uses augmented reality to assist surgeons wearing smart glasses. A start-up worth exploring > **P.2**

MOVEMENTS IN THE TEMIS INNOVATION TECHNOPOLE

From acquisition to relocation, the companies based in the Temis Innovation technopole are continuing their expansion from Besançon > **P.3**



BUSINESS & ENTREPRENEURSHIP
Property projects
Start-ups – Acquisitions



RESEARCH & INNOVATION
Incubator – Seminar
Microfluidics

DECA BFC

In just over a year, the incubator has developed its network and hosted 32 projects. Activity report > **P.5**

MICROFLUIDICS

Here we look back at the second summer school held by the EASI Paris Region, focusing on a technology that is of great interest to the health sector. > **P.8**

TALENTS CONTEST

The aim of the contest run by national business creation and takeover support network BGE since 1997 is to reward business success, with the 2019 regional final held in the Temis Innovation technopole

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TALENTS & CAMPUS
Business creation
Marathon – Contest



PIXEE MEDICAL USING AUGMENTED REALITY TO EQUIP SURGEONS WEARING SMART GLASSES

A newcomer to the field of augmented reality, Pixee Medical offers a solution to help with the positioning of prostheses. Its imageless solution, which does not use preoperative imaging, is a world first and has been patented. It lets surgeons get their bearings directly during surgery and therefore perform less invasive and simplified operations. This improves patient recovery and outpatient surgery is even an option, with a positive impact on the patient's morale.

Pixee Medical helps improve the care journey by providing medical comfort to patients and surgeons and competitive high-tech solutions.

Right from the start of the development, there has been a desire to develop an economically competitive high-tech product that gives surgeons a real practical advantage.

As a result, Pixee Medical now offers an alternative to single-use products but also often heavy and very expensive robotised equipment. Combined with a business model based on the purchase-subscription relationship, the imageless solution will undoubtedly find its market and spread quickly throughout the profession.

This universal solution, which adapts to different prostheses, is now available for the knee (80,000 prostheses per year in France). A second product range is being created for shoulder prostheses, a market that is finally mature but whose success depends largely on positioning. Prostheses may be produced for all joints in the future.

The start-up already has global ambitions in the USA, Europe, Australia, China and Japan. There is a global demand and future customers are at the starting blocks. For it to develop, Pixee Medical is supported by various institutional and private investors; a €2-million fundraising campaign is currently being finalised.

The team plans to grow from 10 to 20 people for the marketing launch with skills in augmented reality, computer vision, artificial intelligence and biomedical and mechanical engineering, etc.

For this new business venture, its founder Sébastien Henry has returned to the Temis Innovation technopole in Besançon. He had already created his first company, OneFit Medical, within an "attractive and dynamic cluster" there before getting on with Pixee Medical. Having started from scratch, he only has to meet the requirements of ISO 485 and CE marking before flooding the market.



AUDERMARS PIGUET REPAIRING ITS WATCHES IN BESANÇON

Swiss watch manufacturer Audemars Piguet has two after-sales service centres in Europe for its ultra-high-end watches, one in Madrid and the other in Besançon. Established in Besançon since 2000, it has just invested in a brand-new centre with the resources for it to expand from the Temis Innovation technopole. At the opening of the company's new premises, the family group chair Ms Audemars stressed that this investment in Besançon would anchor it in a particularly specialised skills pool. The European centre in Besançon now employs 34 people and the team is expected to grow further. The new Temis Innovation premises allow the brand to develop its production site, where over 2,000 watches are sold each year, while remaining close to its subcontractors, who are particularly prevalent in the region.



www.audemarspiguet.com

MEGEP JOINS THE CRYLA GROUP

In 2018, the group's "Cutting" division was strengthened by the dual acquisition of SERODE and Lavoilotte. The integration of MEGEP has strengthened the "Precision Machining" division. MEGEP, which is certified to the ISO 9001, EN 9100 and QN100 standards, has a high-performance machine fleet and qualified staff. This is a major asset for the CRYLA Group, which is pursuing its transformation plan from centres of excellence to meet the technological challenges of the most demanding sectors. This acquisition is part of the "CRYLA Group 2025" strategic plan managed by CEO Thierry Bisiaux and his teams, who all have one objective: "to be a European leader in the miniaturisation of intelligent components and assemblies".



www.cryla.fr



MCGP MOVING TO NEW NEIGHBOURHOODS

By investing in a modern industrial site, the MCGP Group is strengthening its position as a leading manufacturer of all jewellery.

Those performing work in late 2018 have kept their promises, as the MCGP Group has been able to operate in its new premises since early September.

The imposing building of nearly 8,000 m² over more than two hectares was built by Vinci with a refreshingly eco-friendly approach for an industrial site.

The group is also focusing on skill development, with over 150 jobs to be created in Besançon.

WE TAKE GOOD CARE OF STARTUPS IN BURGUNDY-FRANCHE-COMTÉ

PROPULSEUR: AN ACCELERATOR OF SKILLS & BUSINESS

The accelerator Propulseur has set its sights on increasing the skills of managers to accelerate business and give them all the keys to success.

Launched in early 2018, this start-up development tool can accommodate pre- or post-marketing projects since the support is provided on an à la carte basis.

The fruit of the French Tech accreditation system, this regional competitiveness accelerator stands out thanks to its public and private funding, which covers up to 70% of the services available. It is supported by the Bourgogne-Franche-Comté region, the urban community of Grand Besançon Métropole, regional cooperative bank Caisse d'Épargne Bourgogne-Franche-Comté and the bank Crédit Agricole Franche-Comté. Access is free of charge, but applicants must give a professional pitch in front of a dozen experts who examine all aspects of the project.

Support begins almost systematically with a strategic, operational and business diagnosis. Key questions are asked to identify the project, its strengths and weaknesses, and help it move in the right direction. Does the manager have a clear strategy? Has it correctly identified its market, or even its market segment? Start ups often aim too wide, and get lost in spending too much energy and resources to reach vastly different target groups. Is the team in line with the project? Is there a business policy in place and is the company making money?

The diagnosis then identifies indicators and enables the continued provision of additional support, which may include international development, business training/assessment/a business plan or even transition management. The issue of financing is also recurrent, with meetings with investors and fundraising assistance included in the pitch preparation programme. In addition to the historical partnerships with Crédit Agricole Franche-Comté and Caisse d'Épargne Bourgogne-Franche-Comté, new ones have been set up with the banks Banque Populaire and CIC Bourgogne, as well as BFC Angels, the regional business angel network.

The tenth start-up is about to join Propulseur in a few weeks' time to benefit from rapid support which will ensure business sustainability and development.

APPOINTMENTS WITH PROPULSEUR

25 November 2019 / 6 pm to 7:30 pm
Cocktails after work / Temis Innovation technopole

Visitors will find out about the Bourgogne-Franche-Comté Angels network, which supports regional companies in the creation and development phase, with capital, skills and contacts.

Registration/Limited places
contact@bfcangels.com

+ www.propulseur-bfc.com
Régis Roche
contact@polemicrotechniques.fr



ONE YEAR ALREADY: DECA-BFC THINKS ABOUT THE FUTURE

Around a hundred guests, members, partners, founders, incubatees and company directors attended the general assembly of regional incubator DECA-BFC on 25 June at French engineering school ENSMM in Besançon.

After more than a year, the Bourgogne-Franche-Comté incubator has developed not only its business but also its network.

Over 70 members in Bourgogne-Franche-Comté have now joined DECA-BFC in its drive to support start-ups.

In terms of local areas, 19 partnership agreements have been signed; 12 local authorities, including Grand Besançon Métropole, have decided to join DECA-BFC for the establishment of innovative companies in their local area. This local area network provides real added value in that it represents a force for action for DECA-BFC.

As far as project managers are concerned, 32 support contracts have been signed. These projects address scientific, technological and societal challenges in various business sectors such as health, artificial intelligence, augmented reality, robotics and microtechnology, etc.

DECA-BFC is there to foster the emergence and establishment of these challenges by allowing start-ups to transform their scientific or technological projects into business projects and above all to acquire the standing of a company director. Entrepreneurship workshops are put on for them to clearly identify and specify everyone's needs, while providing them with tools and methods in a simulative context.

DECA-BFC acts upstream and downstream of the incubation process to optimise ongoing support. This happens first with academic partners to stimulate the emergence of new projects, then with the innovation ecosystem (including Technology Transfer Accelerator Offices (SATT), business accelerator the Village by CA, and nurseries) to guarantee continuing support once the company is created.

The future can be reasonably planned, with DECA-BFC set to have hosted and supported over 40 projects since its creation by 1 January 2020. The flow of projects is already accelerating and the DECA-BFC team is adapting with the recruitment of a new project manager!



www.deca-bfc.com
sophie.magniez@deca-bfc.com
06 37 95 05 04



TEMIS IN A TUMULT

TOP-UP ON MEETINGS IN 2019

COMPANY CREATION IN THE SPOTLIGHT AT THE BGE **TALENT CONTEST**

Created in 1997 by national business creation and takeover support network BGE, the talent contest promotes entrepreneurial success. The first regional and national contest for business creation, it highlights entrepreneurship in all its geographical, social, economic and human diversity. Above all, it confirms that the sustainability of companies also depends on the level of the founder's support.

Since its launch, the BGE talent contest has enabled more than 1,400 company directors to obtain an average price of 2,000 euros and to benefit from a nationwide communication campaign. The contest's prominence, seriousness and selectivity all give the winners credibility in the eyes of professionals (banks, institutions and companies, etc.).



This year in Bourgogne-Franche-Comté, nearly 120 candidates were in the running. Based on their written application, thirty companies were preselected from six categories: innovation, handicraft, trade, rural dynamics, social and solidarity economy and services. Alexandre Douablin from molecular biology firm Biomnigène won the innovation category. Hosted in the Temis Innovation – Maison des Microtechniques (TIMM) resources centre, the company offers quality genomic analysis services, including state-of-the-art experimental protocols in molecular and cellular biology.

 www.bge.asso.fr

THREE DAYS TO MATURE 30 PROJECTS AT THE START-UP WEEKEND

From 28 to 30 June, some thirty project managers from all walks of life were able to work on their idea over the course of a weekend with the support of mentors and coaches. This was a good opportunity to advance their projects with support.

The event was the brainchild of Aziz Baaiz, who was regularly asked about business creation in various fields during his career as project manager/training centre director. Questions typically had to do with choosing statutes, searching for partners, applying for subsidies and networks, etc. The event thus brought together for the third time future managers and experts for a weekend at Temis Innovation.

Welcomed at different stages – from conception to creation, over three days project managers received help with business creation from experts who pointed out their project-specific problems and helped solve them, whether in accounting, communication, web development, financing or industrial property, etc.

The weekend ended with pitches to present the progress of the projects and the presentation of three awards: Tag-Eat, a contactless app for ordering food in hotels and restaurants (Société Générale award), Habitat EcoRes, alternative modular wooden housing (CPME award) and Andalous'hair, a bride beautification, hairdressing and rental service (ORCOM award).



 www.startupweekend.fr

AER HONOURS TEMIS AT ITS INNOVATION SEMINAR

The Temis Innovation technopole was in the spotlight at a seminar proposed by the Bourgogne-Franche-Comté Regional Economic Agency (AER BFC) on 13 June. Held on the premises of Temis Innovation, it allowed those present to rediscover this ecosystem which is rich in stakeholders of innovation and business creation support.

The day brought together around forty people at round tables, visits and pitch sessions.

The focus was on the structures in place in the technopole, of which the business incubator and hotel, the FEMTO-ST institute and its clean room, the DECA-BFC incubator and the Microtechnology Cluster.

Four companies hosted in a nursery/business hotel also reported on their history at Temis Innovation: David Heriban from Percipio Robotics, Christophe Moureaux from Cisteo Medical, Johann Cussey from Aurea Technology and Sylvain Balandras from frec/n/sys.

Finally, four project managers incubated by DECA-BFC pitched in front of their peers: Masoud Nezamabadi from the Micro-Tamisage project, Aliyasin El Ayouch from Metabsorber, Bruno Gobert from Habitat EcoRes, as well as Julie Desoomer from Maddy Lou.

This day was part of a programme of eight local area seminars proposed by AER as coordinator of the Regional Innovation Network (RRI) to facilitate the mobilisation of its resources by project leaders.



[+ https://aer-bfc.com](https://aer-bfc.com)

MEDFIT LILLE : THE REGIONAL MEDICAL TECHNOLOGIES SECTOR STRENGTHENS ITS TIES WITH EUROPEAN CLUSTERS

This European convention on early-stage innovation in medical technologies was recently held for the third year. Over the course of two days, innovators, manufacturers, researchers and investors met to learn and talk about medical devices. This year, it brought together nearly 700 participants and organised 3,000 business meetings.

TEMIS and Innov'Health were part of the project with a strongly promoted regional group area. The feedback from participants from Bourgogne-Franche-Comté was very positive overall. Indeed, while there were fewer investors than in 2018, the quantity and above all the quality of the appointments made were much appreciated.

TEMIS, Innov'Health and ISIFC had the chance to promote the scientific and technological skills that the actors in the sector, both industrial and academic, can use to serve an innovation and/or entrepreneurship project.

This was an opportunity to present the new development centre, BIO INNOVATION (scheduled for commissioning in early 2020), and to review the event, which is now a must in regulatory affairs. Medical devices are back.

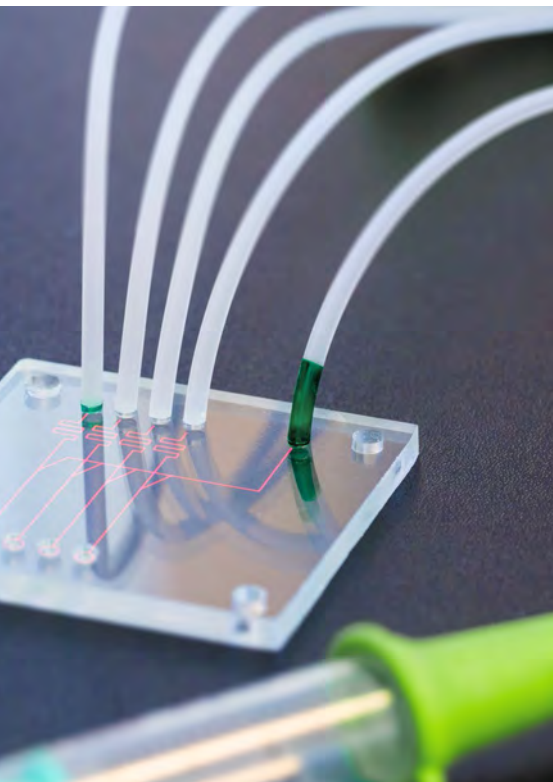
Other clusters were present and keen to strengthen their connections in a fierce and legally restricted competitive context; Innov'Health and the Belgian (Biowin, LifeTech Brussels), Lille (Eurasanté, MedFIT organiser) and Alsatian (BioValley France) clusters were thus able to draw up a list of areas of cooperation. This included the development of joint innovation projects, the identification of needs and associated skills searches, events and training.

There are plans to attend MedFIT in 2020 (30 June to 1 July), at the request of companies.



Cluster Innov'Health | www.pmt-ih.fr
Benjamin Goizet | b.goizet@polemicrotechniques.fr





MICROFLUIDICS FOR HEALTH: INNOVATION AT ALL LEVELS

Microfluidics, which focuses on health among other applications, was recognised at the second summer school held in Paris by the EASI Paris Region and its partners from 26 to 30 August. Here we take a look back at this event which Medicen Paris Region partnered in.

Internationally renowned speakers such as Jacques Lewiner, Patrick Tabeling, Valérie Taly and start-ups such as Millidrop, Poetis, Astraveus, Fluigent, and Microfactory came to Paris to discuss the challenges of microfluidics. These speakers are important because microfluidics has many innovative applications in health. Thus, at pharmaceutical level, this technology is used for the analysis of cytotoxic molecules or antibiotics; it is also used to improve the way drugs are administered, for example through encapsulation. There are also applications in genomics – for the individual study of cells – or even in cosmetics.

French microfluidics research is at the forefront of the field and wishes to improve its functioning by mixing skills more to generate more breakthrough innovations. This will involve creating an “open house”, where a researcher can come for a year or two to work with peers from other organisations. Medicen Paris Region, as a competitiveness cluster, ascribes to this approach to ensure that this future institute benefits from its network. As a partner of Medicen, the cluster PMT will do the same.



www.microfluidicsforhealth.paris/

Information is also available at www.industrie-techno.com



agenda

18-20 October 2019

Besançon

HACKING HEALTH BESANCON

This year, the 48-hour hackathon will be led by nearly 400 innovators, benefiting 20 issues proposed by patients, health professionals and caregivers. The projects are still as rich as ever, focusing on disability, occupational therapy, dermatology, drug delivery and neurological diseases, etc.

Registrations are open to all, to bring intelligence to intelligence. The applicants required are very varied, ranging from health professionals to patients, engineers, designers, computer enthusiasts and occupational therapists among others.

For further information, project details and registration, see

www.hh-besancon.fr

18–21 November 2019

Düsseldorf - Germany

COMPAMED

Visit Hall 8B, Stand G10 to visit regional companies in the community led by CCI Bourgogne-Franche-Comté (chamber of commerce). Register for business meetings organised by Enterprise Europe Network.

<https://medica2019.b2match.io/>

10–11 December 2019

Marseille

BIOFIT

There will be 1,300 attendees, 900 structures present and 35 countries represented. BioFIT is an important meeting place for technology transfer and to identify emerging innovations in the field of biotechnology.

www.biofit-event.com

1 October 2019

High Tech Campus Eindhoven,
The Netherlands

PHOTONIC INTEGRATION CONFERENCE

Discover photonics applications ranging from agriculture to health and life sciences, 5G, the Internet of Things, production and autonomous systems, etc.

www.phiconference.com

Information : www.temis.org | +33 (0)3 81 50 46 95 | contact@temis.org



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