

5-7 October, 2022

# START-UPS VILLAGE

Grenoble, France





## ARYBALLE

Aryballe combines biochemistry, advanced optics and machine learning to mimic the human sense of smell. Odors captured by the silicon photonics-based core sensor in our NeOse Advance are analyzed by the cloud-based Aryballe Suite to provide objective, fast analysis.

This enables customers to leverage odor data for improved decision making for R&D, quality control, and manufacturing

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## BAIO-DX

Baio-dx unique patented technology combined with artificial intelligence algorithms bring a breakthrough innovation for microbiological and biological applications.

Lensless digital holography technology provides large field image acquisitions for micron scale biological objects observation.

### Contact

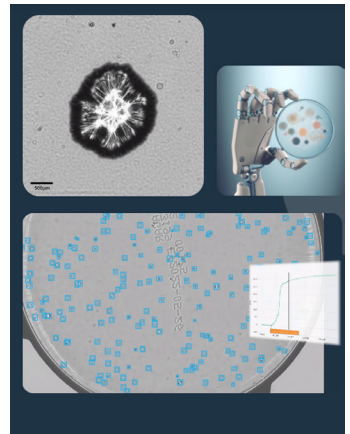
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## BEFC

BeFC produce electricity with papers & enzymes. Our paper biofuel cells use enzymes to convert glucose and oxygen into electricity, providing an organic and compostable energy solution for low-power electronics. Combined with optimised hardware, firmware and printed electronic solutions, BeFC offer data opportunities without the downsides of a battery.

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## BUBBLERAN

BubbleRAN accelerates and automates the delivery of 4G/5G network infrastructure and services by consolidating openRAN and cloud-native architectures with a green MANO offering at least 10x higher flexibility, efficiency, and observability for a wide range of edge and enterprise use-cases.

BubbleRAN technology and multi-vendor 4G/5G network-in-a-box product range are ready to accelerate the day-to-day operations of your 4G/5G network infrastructure and services.

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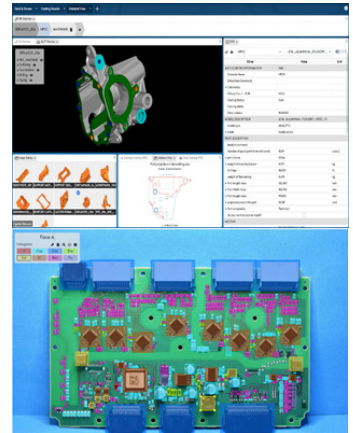
## D3S

D3S Digital Costing Solution is a powerful analytic engine computing detailed target costs, even in very large Bill of Material (+100 000 references). Major benefits already demonstrated in the aerospace and automotive industries.

Initially developed to optimize financial performance, now evolving to reduce environmental costs and optimize industrial footprint.

D3S is a start-up founded in 2016 in Grenoble.

We are proud to be invited to the WEF.



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## DIABELOOP

Diabeloop an Automated Insulin Delivery pioneer, develops machine-learning software for diabetes treatment.

Its highly sophisticated algorithms are integrated into easy-to-use products helping facilitate the chronic disease management, improving patients' clinical outcomes and their quality of life.

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## DIAMFAB

At DIAMFAB we synthesize and dope diamond for the semiconductor industry. Our high value-added wafers will be at the heart of the energy transition thanks to their superior electrical performance, record efficiency and high compactness. From the electric car to the future high voltage network, from hybrid aircraft to batteries for connected objects, diamond will be the key to the electrification of our society.

### Contact

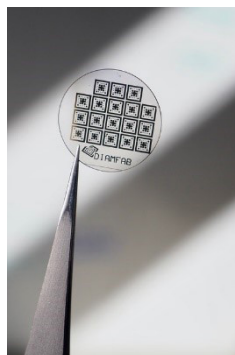
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## ELICHENS

eLichens has a portfolio of patents and know-hows, which enable it to develop and market complete sensor/data/services solutions to address Gas Leaks and Air Quality markets. eLichens has developed, a complete range of NDIR gas sensors. Based on eLichens' patented technologies, these gas sensors have the best performance and the lowest power consumption on the market in a compact formfactor. These ultra-low power gas sensors paves the way to the development of innovative battery-powered safety products.

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## EVA

EVA is a world leader for high throughput drone infrastructure and has developed patents and expertise in offering a turnkey solution for drones with the highest concern about safety.

EVA drone docking stations have been used for healthcare, logistics, disaster relief missions. Their solution is being used in Saudi Arabia, France and India in life saving day to day operations. EVA is also the only known company in the world to actively work on Drone Super Highways in 4 different continents in the world.

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## GREENWAVES



GreenWaves is a fabless semiconductor company founded in 2014 and based in Grenoble, France. We design and market ultra low power processors for energy constrained products such as hearables, wearables, IoT & medical monitoring products.

GreenWaves' system-on-chips enable companies to develop and bring to market products with new to world features enabled by state of the art machine learning and digital signal processing techniques. Our leading edge development tools enable audio and machine learning developers to productively harness the power of GAP processors.

## Contact

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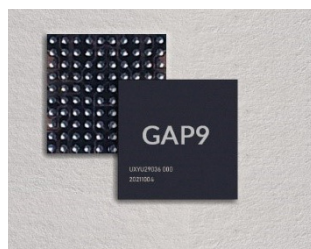
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## HAWAI.TECH

HawAI.tech (Hardware for AI) develops hardware accelerators increasing the capabilities of probabilistic artificial intelligence to enable trust, explainability, frugality and transparency. This new AI is based on probabilistic reasoning that meets the current needs of industry.

### Contact

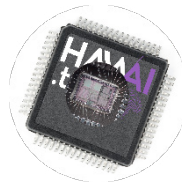
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## IEXEC

iExec helps companies build high-value Web3 & blockchain projects. Having developed our own Web3 infrastructure combining Blockchain and Confidential Computing, we use our expertise & technology to design solutions to address the challenges of the Web3 economy: Data Governance, Data Confidentiality & Trusted Execution. Whatever your industry, we offer solutions that allow you to process, share, and monetize your sensitive data while maintaining full privacy and ownership; certify your data integrity and authenticity by immutable proof of every action conducted; or allow your customers to manage governance over their personal data.

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## IGO

IGO offers expertise and 3D geospatial technologies to model territories in 3D and facilitate access to increasingly massive technical data, enhance it and transform it into decision support and application.

We support our customers in their digital transformation to meet the challenges of smart territory. IGO is GEOFIT Group company. We work with large organization, cities, and local government organization.

### Contact

**Philippe Bour**

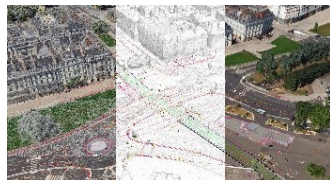
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- We build 3D digital twin from photos and/or Lidar data through computer vision technology and HPC. We deliver all formats for GIS, CAD, 3D.
- We design 3D Platform from several technologies: open source (cesium, three.js), video game engine, Skyline technology.



## KENTYOU

Created in 2020, Kentyou is a technology startup resulting from 7 years of research and development work carried out at CEA Grenoble. Kentyou develops the vision of a smart city that puts local ecosystems and citizens' needs at the centre of the Smart City. To achieve this, Kentyou provides open-source solutions to collect and analyse urban data and build software solutions that meet the demands of citizens and the needs of communities. Our solution is built on top of the open-source Eclipse sensiNact platform and has been deployed and tested in various application domains, such as smart cities, mobility, smart buildings, energy and environmental applications.

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## LOAMICS

Loamics enables players from all business sectors to implement a real «data-driven» management and decision-making process based on the cross-referencing of heterogeneous, intelligent, reliable and secure data with real time capability. Our solution is unique because it fully automates and industrializes data preparation and processing and can be deployed on a plug&play mode. It is the first complete end-to-end solution that reveals the power of our customers' data to accelerate their organization's success.

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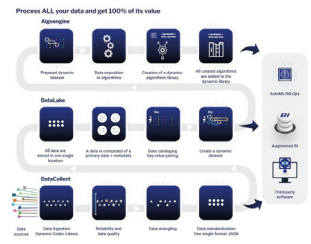
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With Loamics the use-cases are multiple and unlimited.

Thanks to the powerful data management platform, you can boost medical research, implement industry 4.0, develop smart city, monitor fraud in banking and insurance sectors. Creativity becomes the new limit.



## MENTA

Menta eFPGA Soft IPs offer SoC, ASIC and sensors designers the mean to evolve their chips over time and in the field for applications such as security/ cryptography, artificial intelligence, motor control and telecommunication. Menta products are used worldwide by companies serving the defense, space, internet of things, industrial, 5G or automotive markets.

### Contact Yoan DUPRET

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Less than five companies in the world have industrialized the breakthrough technology for hardware reprogramming of any chip manufactured in the world, and Menta is a European and global leader in the field.





## MORPHOSENSE

Morphosense provides innovative Structural Health Monitoring (SHM) technology - NEURON system - for structures in civil engineering and energy sectors. Using the state-of-the-art Digital twin based on NEURON, we help our customer to optimize their Structural Integrity Management with higher efficiency and reduced costs.



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**MyDataModels**

Small Data Big Impact

## MYDATAMODELS

MyDataModels has created a unique frugal Artificial Intelligence that automatically generates predictive models and is highly effective on small data. Our models are interpretable, robust, lightweight and embeddable. We develop AI components that can be integrated into our clients' products and create predictive analytics platforms by business, adapted to our users' skills: from no code to software for data scientists. They trust us: Thales, Schneider Electric, SNCF, CEVA Logistics, Biogen, Sanofi, Allianz...

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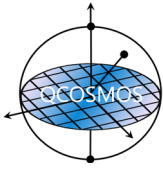
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## QCOSMOS

QComos develops and sells the first universal quantum computer capable to tackle high impact societal challenges. Our mission is to provide a way to optimize solution for energy distribution, a way to compute chemicals properties to fasten time-to-market of new drugs. We are enabling the quantum revolution. The start-up is a spin-out from CEA and CNRS, it builds up on more than 15 years of collaborative partnership.

The innovation? We found out how to turn a transistor into a good qubit and thus we benefit from the know-how of the semiconductor industry and its cost effective way of fabricating millions of identical objects.

The start-up is a fabless company that leverages the French and EU semiconductor fabrication capabilities to trace the path towards quantum supremacy.



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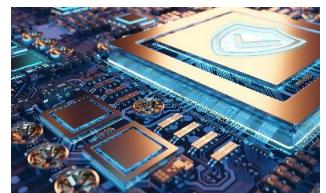
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## TIEMPO SECURE

Tiempo Secure offers complete and certified security solutions to chip makers and embedded software developers, allowing them to secure connected objects at the highest levels of security. The company delivers secure element IP cores and secure software libraries that are guaranteed to enable Common Criteria EAL5+ or equivalent security certification of any System-on-Chip (SoC) or application processor chip integrating these cores. Thanks to a well-established ecosystem of expert partners, Tiempo Secure offers complete secure hardware and software solutions for various secure operating systems and applications, such as authentication on mobile networks with integrated SIM (iSIM/iUICC), embedded payment functions (EMVCo), government or private identification, Web authentication (FIDO 2), smart car access, and communication with autonomous vehicles (V2X HSM).

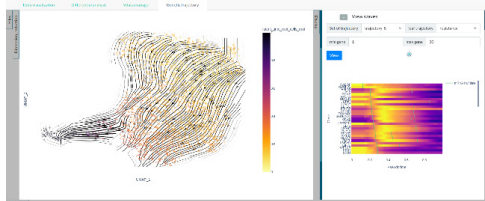




## VIDIUM

As navigating systems did for urban networks, Vidium Solutions has created the first navigation map of genetic networks, to guide biologists through the long difficult sequential process of research in Biology. A disruptive state-of-the-art technology, put at the service of biology to untie the cell decision-making process. Dynamic, causal and retro-engineered executable in silico model technology, installs Vidium as the pioneer and unique platform to understand the stochastic (random) cell behavior mechanisms, and furthermore to take control of the cell fate!

Vidium collaborates with top academic leaders and biotechs with a particular focus on oncology and cell therapy.



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## WISE-INTEGRATION

Wise-integration is a spin-out of CEA-Leti that develops power-electronics solutions. By combining a GaN component WiseGan® and an advanced AC-DC system architecture with digital control WiseWare®, Wise-integration enable more compact, lightweight and more efficient power supply and charger.



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