

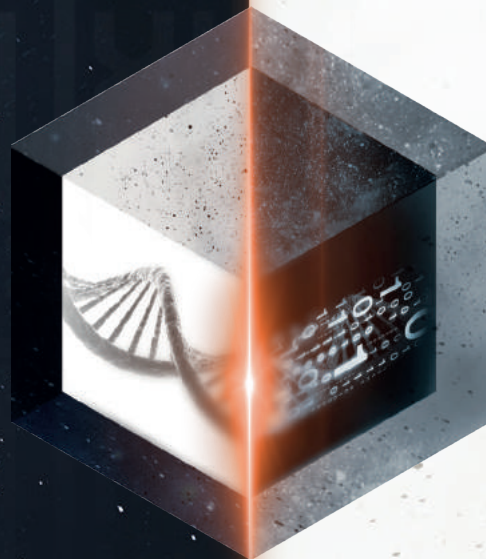
# PIONEERS'18

## PIONEERS500 REPORT

Vienna, May 2018

**PIONEERS**  
DISCOVER

  
**pwc**



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# WELCOME



We're proud  
of every one of the  
entrepreneurs in our  
Pioneers500  
selection, and believe  
in their potential  
to have profound  
technological impact.



Dear Pioneers,

Welcome to Pioneers'18!

From its bold beginnings, our flagship event has grown to become the ultimate meeting point for pioneering spirits as they look to the future and beyond. Thank you for being one of them.

Whilst these two days are always the pinnacle of our year, this is just the tip of the iceberg. We're constantly pushing the boundaries to foster innovation and growth, and establish a community of tech entrepreneurs.

Pioneers Discover drives open innovation projects for some of the world's top corporations, Pioneers Ventures specialises in advancing the growth of pre-seed and seed startups, while Pioneers Events hosts not only our flagship at the Hofburg, but also industry-focused events in govtech, mobility and health. Furthermore, Pioneers Digital creates a digital space for interaction.

I wish you a fruitful two days with us.

Inspire.Empower.Create.

A blue ink handwritten signature, appearing to read 'Oliver Csendes', written in a fluid, cursive style.

**Oliver Csendes**  
CEO, Pioneers

# PIONEERS

Founded in 2009, **Pioneers** is the ultimate One-Stop Hub for global tech innovators to access curated & qualified data of European startups.

We establish and facilitate direct and meaningful business relationships to foster growth & innovation through digital services, consultancy, investment services and inspirational offline experiences.



## PIONEERS EVENTS

**Inspirational, exclusive events for bold, pioneering entrepreneurs.**

Creating spaces under one roof where innovation can thrive.

## PIONEERS DISCOVER

**Consulting services for corporates & the public sector.**

Driving internal & open innovation by introducing entrepreneurial tools, methods and culture.

## PIONEERS VENTURES

**Investing in the growth of startups.**

Leveraging its global network of corporates, industry experts and entrepreneurs in partnership with Speedinvest.

## PIONEERS DIGITAL

**Growing a strong digital community of tech innovators.**

Online access, reports and matchmaking for all key stakeholders.

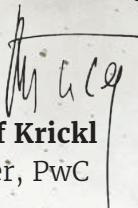


Dear Pioneers,

For seven years, entrepreneurs and investors have been gathering at Pioneers to shape the world of tomorrow together. Innovative ideas and inspiring partnerships are the result. These demonstrate that with commitment and courage extraordinary things can be achieved.

We share this passion. We also want to achieve great things with our network, our talent and our services, which is why one of our core values is *reimagine the possible*. For the fourth time, we are key partner to the Pioneers500 program with its focus on early-stage startups. Together with Pioneers we have chosen the Top50 startups who now get to pitch at the Hofburg. The dialogue with startups, their visions and creative impulses, helps us to think outside the box and develop further. This is indispensable, as innovation is the motor that drives every successful business.

Congratulations to the Pioneers500 who have passed the first hurdle. The potential of these startups is incredible and Pioneers'18 at Vienna's Hofburg promises to be a fantastic event.



**Rudolf Krickl**  
Partner, PwC



# WELCOME





The **Pioneers500** is the annual selection of the 500 most promising early-stage seed tech start-ups identified in cooperation with the global tech community and selected key players.

Once approved, Pioneers covers the costs of 2 Pioneers passes for each of the Pioneers500.

**That's how much we believe in our startups.**



## **Pioneer Of The Year 2018**

### **551\* Selected startups invited for free**

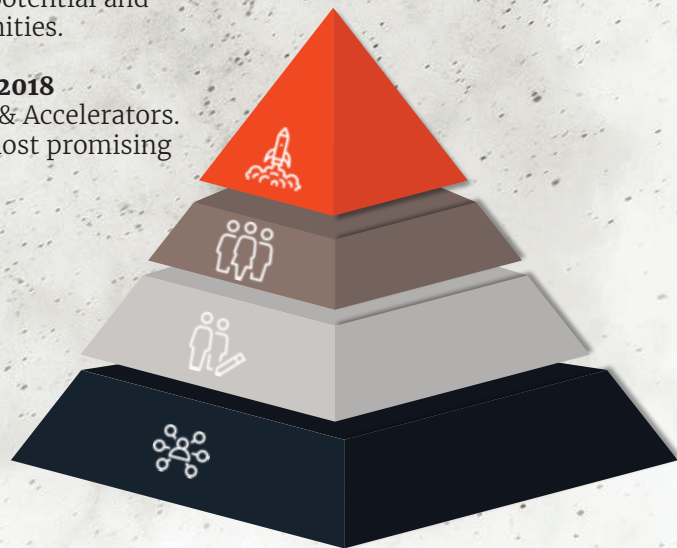
- Top50+1 Seed Startups Pitching on day one.
- 50 Series A - Exclusive Workshop.
- Industry pitching sessions on day two.
- Technology showcases during two days.
- Workshops, meetings and industry side-events.

### **Pioneer Of The Year 2018**

All start-ups are evaluated according to their traction, team, product, technology, market potential and partnership opportunities.

### **Pioneer Of The Year 2018**

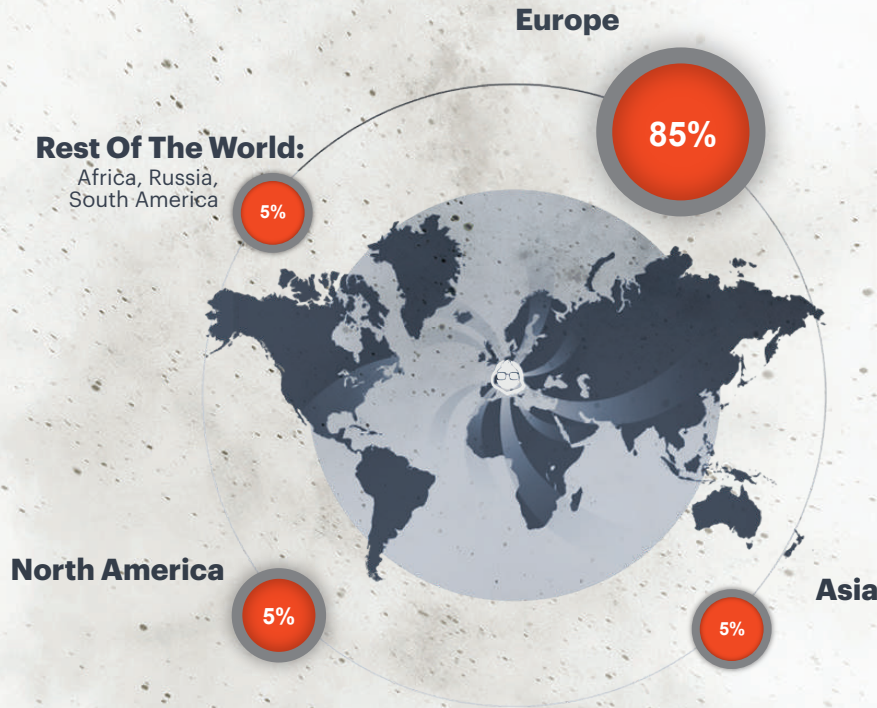
70 International VCs & Accelerators recommending the most promising start-ups.



\*Exception in 2018: +1 wildcard for Govtech.Pioneers Winner on 23.05.2018



## Startups - Regional Breakdown



# PIONEERS500 STARTUPS INFOGRAPHICS



# PIONEERS500 STARTUPS INFOGRAPHICS

## Startups with Product Focus On:

Software: **67%**

Physical product: **13%**

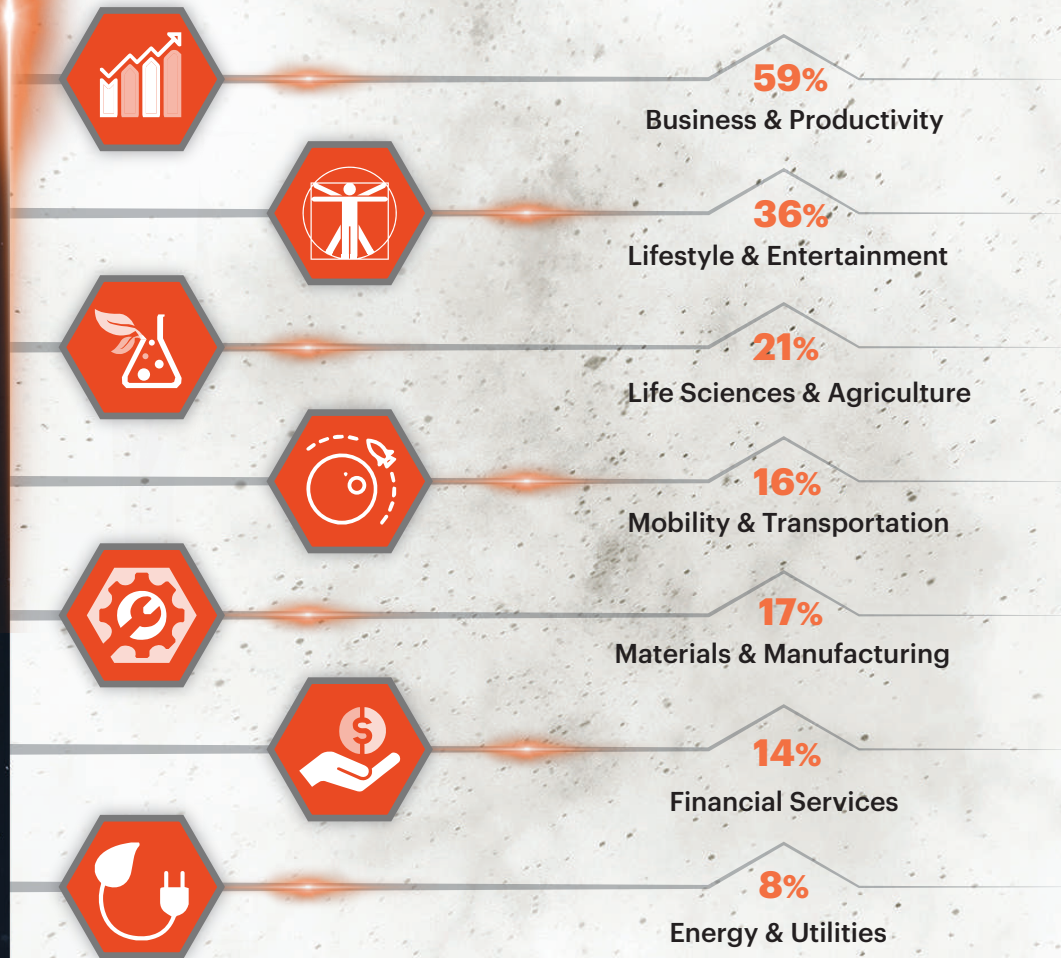
Both: **15%**

Other: **5%**



## Startups – Sector Overview

(Startups are active in multiple sectors)



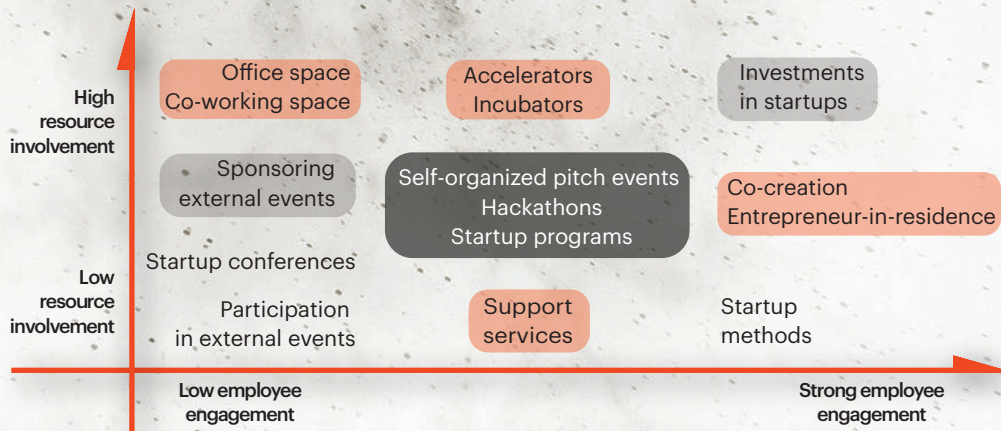


In the Age of VUCA innovation has become more important to ensuring sustainable business growth. Thus, corporates with complex structures are getting more engaged in cooperation with startups.

Startup-corporate collaboration has developed into a variety of formats in recent years. These formats vary in terms of the involvement of resources and engagement of employees.

Pioneers Discover selects the right collaboration format based on:

- ◆ Innovation strategy
- ◆ Collaboration goals
- ◆ Collaboration outcomes
- ◆ Availability of resources
- ◆ Dedication to cooperation



### STARTUP-CORPORATE COLLABORATION FORMATS

A successful  
collaboration begins  
with choosing  
the right format for  
your innovation  
initiatives!



## WHAT MAKES A SUCCESSFUL STARTUP-CORPORATE COLLABORATION?

Proactivity of the corporate partner is as critical to a collaboration's success as that of a hungry startup!



Along with choosing the right collaboration format, the following success factors help companies stay on top of their cooperation activities and ensure good long-term outcomes for both sides:

### ◆ **Top management support**

Top management's dedication to innovation and cooperation with startups helps ideas get implemented and brought to life, and keeps employees inspired for innovation activities.

### ◆ **Clear responsibilities**

To achieve the best collaboration results, it helps to appoint a Startup Champion, who coordinates all startup activities and brings expertise and inspiration for innovation to the whole company.

### ◆ **Feasible goals and KPIs**

Defining common goals, feasible milestones and measurable KPIs up front is essential in creating a sustainable pace for an ongoing cooperation.

### ◆ **Right choice of partners**

When selecting a collaboration partner, identifying clear selection criteria (industry, technology, development phase) increases the chances of fruitful outcomes for both parties.

### ◆ **Speed!**

Fast moving collaboration is more successful.



## Case Studies:



The world leader in booking hotels and other accommodation online.

With a goal of promoting sustainable tourism worldwide, Booking.com has two startup initiatives: Booster and Booster Labs. Booking Booster is an annual program bringing 10 scale-ups to three-week accelerator in Amsterdam to support their scaling strategies and boost their growth.

Booking Booster Labs are regional 3-day programs for early-stage startups focused on experimentation and growth hacking initiatives. The programs are an inspiration for both sides.

**BBVA** Open Innovation®

**BBVA Open Talent 2018** A global financial group providing financial services to 72 million customers in over 30 countries.

With the goal of finding the best talent and supporting the best FinTech initiatives with resources and funding, BBVA launched the biggest FinTech startup challenge, BBVA Open Talent. The finalists have a chance to win €50,000 Euro, visit the BBVA offices in Madrid, meet top BBVA executives and get access to events, exposure and visibility.

Meanwhile BBVA meets plenty of potential partners and new technologies.

# PIONEERS

DISCOVER

How two of the  
world's biggest  
companies tap into  
the startup world with  
Pioneers Discover





Thanks to artificial intelligence, robotics and other technologies, a startup or a company that is still on the drawing board today could be the market leader in ten years.

## Bringing Innovation to Life at the PwC Experience Center

Digitalization is a central challenge for startups and companies. Thanks to artificial intelligence, robotics, and other technologies, a startup or a company that is still on the drawing board today could be the market leader in ten years. And established companies have to keep up with developments in technology in order to remain at the cutting edge.

However, digital transformation is not just about new technologies but above all about people. Technology changes the ways people communicate, work together, provide services, or buy products. Digital transformation begins and ends with the user experience, therefore organizations need to respond to these changes.



In our PwC Experience Centers, we support companies in developing new business models, innovative strategies for the digital age, and make use of emerging technologies. With more than 20 locations worldwide, PwC's Experience Centers build a community of makers from around the world. We help clients break down silos, unearth new value, and pioneer tomorrow. Together with business experts and technologists, our community solves complex problems and helps our clients to develop innovative digital solutions through user-centered design and a focus on experiences. To do so, we apply the BXT approach – combining Business, eXperience and Technology (BXT). Visitors to the PwC Lounge will discover how companies can apply this BXT model to approach business challenges.

As an example for approaching today's challenges, we present the eValuation tool. This digital business valuation platform is a particular highlight for startups: They can use the tool directly on site and receive a valid estimate of their business value in only 20 minutes – perfect for the next meeting with all the investors visiting Pioneers.



We support companies in developing new business models, innovative strategies for the digital age, and making use of emerging technologies. To do so, we apply the BXT approach – combining Business, eXperience and Technology (BXT).



**Drop by the PwC Lounge, receive a valuation for your business and test the usability of your particular solution. And above all: Find out how PwC enables innovations and brings them to life.**

But that's not all. To lead products and services to success, companies need to listen to end-users. Only by considering their true needs and offering a seamless experience, can a new company be successful on the market. A good user experience is the result of careful planning, analysis and continuous, iterative improvements (“break it till you make it” or “try fast, fail fast”).

PwC's UX Accelerator program enables startups to conduct their own user experience (UX) research and experiment with users to measure their reactions to new products and services. At the PwC Lounge, visitors can gain practical insights into what UX research means. With an eye tracking tool visitors can test a website or an app and obtain valuable knowledge about implicit user behaviour and the appeal of their own products in a real environment.

Drop by the PwC Lounge on the groundfloor, receive a valuation for your business and test the usability of your particular solution. And above all: Find out how PwC enables innovations and brings them to life.



# The Winner's Story

In 2017, it was Stromkind that prevailed in the Pioneers Challenge Award. The Austrian startup was recognized for its KAT 300 aquatic drone, which automates aquatic problem-solving, including cleansing water of algae.

Since their prize trip to Silicon Valley in September, good news has flowed. They've just signed a Joint Development Agreement with the China State Shipbuilding Corporation for developing autonomous electric technology solutions.

2017

Pioneer Of The Year

STROMKIND™

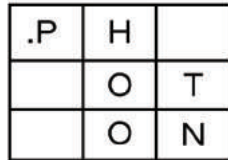


“Winning the Pioneers Challenge Award was a strong signal to our corporate partners, creating trust in Stromkind’s team and technology. It also helped us connect with US investors.”

Andreas Desch, Managing Director, Stromkind



# TOP 50 + 1 Startups



Geneva · Dotphoton.com

## FiliGrade

### A watermark solutions company

FiliGrade inserts invisible digital watermarks into printed objects to fight counterfeiting. It helps the public distinguish copies from genuine articles. The patented technology works in print, plastic, glass and metal. Additionally, it can be used in other use cases such as recycling, product tracking, marketing and gamification. The counterfeit consumer goods represented 7% of global trade in 2014.

## Dotphoton

### Quantum-inspired raw image compression

Dotphoton is an image compression solution for professional applications: it reduces the file size of RAW images by up to 10 times with a strong guarantee that quality is preserved. This saves professionals a corresponding amount of time and money. Dotphoton's technology enables the next generation of high quality imaging solutions in photography, cinema, AI, biomedical and aerospace.



## HUBBIG

### Digital platform for cargo transportation

The biggest challenges in logistics are paperwork, cargo tracking and real-time prices. HUBBIG solves these problems by optimizing supply chain management. It minimizes time on getting the right offer, sorting the documents needed to be issued and knowing where your cargo is. You no longer need to look for different offers and manually compare prices.

The HUBBIG logo is displayed in a bold, black, sans-serif font. It is centered within a white hexagonal shape that has a thick grey border. The hexagon is part of a vertical stack of two similar shapes, with a bright orange horizontal light effect passing through the center of the stack.

**TOP 50 + 1**  
**Startups**

## Gustav

### Contingent workforce platform on autopilot

Founded in April 2016 and based in Vienna, Gustav is a modern contingent workforce management solution. It provides a community marketplace on which businesses source, manage and pay their contingent labour. Gustav connects thousands of staffing suppliers, recruiters and head-hunters online by “one click” with companies to help them find employees faster, easier, and at a lower cost.

The GUSTAV logo features the word "GUSTAV" in a bold, teal, sans-serif font. It is flanked by two stylized teal symbols that resemble double chevrons or wings. The logo is centered within a white hexagonal shape with a thick grey border, which is part of a vertical stack of two similar shapes.



TIMEULAR

**TOP 50 + 1**  
**Startups**

**>KORUZA**

### Timeular

#### Hardware for effortless time-tracking

ZEI<sup>o</sup> is a customizable polygon with a wireless connection to the computer. Through the Timeular software, users can assign a project to each face of the polygon and immediately start tracking time on a project just by placing the polygon with the corresponding project face up. Shaking the polygon opens a text field for details or the project's to-do list. ZEI<sup>o</sup> can also be integrated as an add-on.

### Fabrikor | KORUZA

#### Affordable light-speed networking solution

KORUZA is a wireless optical internet access system, empowering an instant optical network roll-out in high-density urban networks. Data is securely transmitted point-to-point over an eye-safe collimated beam of IR-light at 1 Gbps or 10 Gbps and to distances up to 150 m. It enables rapid network-deployment for existing optical infrastructure expansion and versatile installation options.



## Flowtify

### End-to-end hygiene process optimization

Flowtify improves the flow of information in the food industry by providing a web application for quality management and end-to-end optimization. Certain tasks can be automated so that even untrained employees are able to perform unfamiliar tasks themselves with the aid of photos, videos and PDFs. In the event of any abnormalities, e.g. different temperature, notifications will be sent automatically.

## Nanomass Corporation/ Eco Partners SB

### Processing biomass fuel

The patented Nanomass Technology System turns biomass waste from the forest such as dead trees and agricultural waste, into a dry powder – which could be considered as biomass 3.0 and is suitable for coal power plants– in a single flow through step. The final product is a biomass fuel additive and could be a next generation fuel as it includes full combustion in suspension and produces nearly zero pollutants.

Business & Productivity



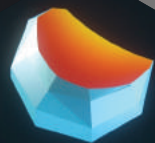
**TOP 50 + 1  
Startups**



Energy & Biotech 19



## TOP 50 + 1 Startups



**HeatVentors**  
The cool way to store heat!

### GEAENZYMES

#### Creating the proteins of tomorrow

GEAENZYMES catalyzes the discovery of new proteins for its application in disrupting fields such as new functional ingredients, new generation preservatives or antimicrobials. By providing a proprietary Artificial Intelligence, MADi, GEAENZYMES designs proteins much faster than current methods. Customers get full tested and characterized candidates from lab to pilot scale and property rights.

### HeatVentors

#### Thermal battery for saving energy

HeatVentors offers innovative thermal energy storage with phase change materials (PCM) like melting and solidification. Possible use-cases are heating and cooling of offices, households and industries, cooling of server farms as well as of e-car batteries, renewable energy systems and waste heat recovery. Space is saved due to concentrated heat storage and increases the efficiency of energy systems.



## WoodCube

### Mobile housing experience closer to nature

WoodCube offers a new way of sustainable living in comfort rooms that are stylish, mobile, multi-purpose houses e.g. used as offices, for living or for wellness, industrially manufactured and made of 100% wood. They are environmentally friendly, 100% cradle-to-cradle principle with a minimum carbon footprint and as a customer option even equipped with a self-sufficient energy system.

## KITRO

### Food Waste Management Simplified

The swiss company Kitro solves the problem of increasing food waste by providing the first IoT smart bin that detects and classifies food waste thrown away by canteens and restaurants in the food and beverage industry. By using the latest techniques in deep learning to classify the waste, Kitro provides easy-to-understand and actionable statistics to restaurant managers in order to reduce their waste.

Energy & Biotech



**TOP 50 + 1  
Startups**

The logo for Digi.Bio, featuring the word "digi" in white and ".bio" in teal, both in a sans-serif font, set against a black square background.

digi  
.bio

## Digi.Bio

Biology goes digital with Digi.Bio.

Digi.Bio is building a machine to reprogram life: an end-to-end Microfluidics platform powered by AI and cloud access which enables hands-off plug-and-play research. Integrating several lab functions in one sleek automated device, our device radically increases go-to-market times. Quality science is made affordable to any researcher and lab, and accessible from anywhere around the world.

# TOP 50 + 1 Startups



## Fleksy

The world's only private smart software keyboard for mobile devices.

Capable of mapping user behaviour securely, offering relevant content suggestions across all apps. Working with handset manufacturers globally to provide a secure, 1st class typing experience to governments and corporate clients.

Winner of Govtech.Pioneers Challenge, wildcard winner to Pioneers'18/Pitching round.



## Skymatic | Cryptomator

### Open-source cloud storage encryption

Cryptomator is the first client-side cloud storage encryption software that is both open source and highly user-friendly. It encrypts files automatically before they leave a user's device for the cloud storage. Cryptomator is available for all major operating systems including mobile devices. It offers individual white-label versions that are available for governments and organizations.



**TOP 50 + 1  
Startups**

## GOVWISE

### B2G sales prediction tool

GOVWISE opens the 90% of public procurement opportunities that are restricted to the majority of SMEs. Through open data crawling and machine learning, GOVWISE reveals the future opportunities to be revealed to all companies. GOVWISE offers an application that offers sales teams methods to identify procurement information such as price, place, date and which competitors will attend in specific business areas.



## TOP 50 + 1 Startups



Pago

### Pago

#### All payments in one app

Pago is an app for paying utility bills, insurance, taxes, traffic fines, highway tolls and mobile recharges. Bills are retrieved automatically every month and are ready to pay in the app. The app was developed in partnership with Mastercard Romania, who are providing guidance and are financing marketing efforts.

cap:ratio 

### Capratio

#### Wealth management for lower-income population

Capratio offers a web and mobile-based platform that provides wealth management for communities of lower income. With Capratio's solution, everyone is able to view and manage their portfolios. The platform provides specific risk management by using artificial intelligence and machine learning. Capratio enables populations of developing countries to start saving and investing their money.



## Combine

### Control your expenses across countries

Combine creates a wallet that combines all your financial and non-financial accounts such as bank accounts, credit cards, cryptocurrencies and loyalty points in one place for having better control over your finances. The solution is a software application that includes all expenses across multiple financial institutions and also specifies on cross-country finances simultaneously.

**COMBINE**

## UBIBON

### Digital Meal Vouchers

UBIBON enables companies to benefit from a tax scheme for employee benefits without the administrative burden and cost and at the same time offering a state-of-the-art mobile payment UX for employees @ POS. Employees don't have any issues with forfeit, loss, limited acceptance or social shaming @ POS and companies don't face any legal/financial risks anymore.

  
ubibon

**TOP 50 + 1**  
**Startups**



## TOP 50 + 1 Startups



### PocketDefi

#### Saving lives

PocketDefi is the first personal defibrillator or AED (Automatic External Defibrillator). PocketDefi is the smallest and most affordable AED, that provides unique user experience by being monitored and serviced through the mobile network. With PocketDefi, first aiders can react immediately in case of cardiac emergency and defibrillation becomes widely available. This way more lives can be saved.

### Libra@Home

#### Virtual Reality for neurorehabilitation

Libra@Home has developed a tool for physical therapists that uses virtual reality to deliver therapeutic stimuli, sensors, and wearables to monitor, progress and track outcomes. It is for both clinic and home and targets balance and vestibular disorders. Patients are led through a series of exercises that elicit specific eye and head movements to train the vestibular and promote balance recovery.



## Bisu

### Internet of toilet health startup

Every day more than seven billion people flush tera-bytes of data on their health down the toilet. Bisu has built smart devices which capture data through urine analysis to help people to reach their health and fitness goals and provide them with personalized advice, products and services. The Bisu product is a standalone device which tracks multiple dietary health markers from a single test.

## PBimmunomics

### Accurate and cheaper diagnostics

PBimmunomics offers a patented platform to discover disease-specific biomarkers for developing numerous clinical tests for the early detection, diagnosis, treatment selection and monitoring of disease.

PBimmunomics is currently developing a pre-Type 2 diabetes screening test and a breast cancer treatment selection test which can both be laboratory based or placed on a point-of-care lateral flow assay.

Healthcare



**TOP 50 + 1  
Startups**



## TOP 50 + 1 Startups



### FreeFlow Medical Devices

#### Anti-thrombotic and anti-biofilm coatings

FreeFlow manufactures an inert patented coating for medical devices to prevent biofouling, e.g. the formation of biofilms and thrombus, without using blood thinners or antibiotics. This is the leading cause of the vast majority of hospital-acquired infections. FreeFlow intends to manufacture its own coated devices and partner with existing medical device companies to coat their devices.

### meemo-tec

#### Health solutions for mental disorders

Meemo-tec develops a smartphone app that offers established methods of psychotherapy for people suffering from bipolar disorder, also known as manic-depressive disorder. The treatment of this chronic mental disease is a combination of medication and psychotherapy.

By interpreting smartphone usage and sensor data, the app investigates physical & social activity, sleeping habits and work-life balance.



## GenSmart

### Personalised health management platform

GenSmart is an artificial intelligence powered platform that uses sequenced genomic data to provide health, performance and lifestyle goals by offering tailored nutrition and lifestyle recommendations to users. Based on their own DNA as well as biometric solutions the software monitors and tracks ongoing health management. Through daily life hacks, users are guided to implement the changes.



**TOP 50 + 1  
Startups**

## Baze

Baze develops a data-driven approach informed by measuring a blood sample taken at home. Subscribers receive a personalized monthly pack of high-quality nutrients or personalized supplements based on their molecular nutrient status. Baze offers a multiplex, low cost and low sample volume labs platform as well as the patent-pending nutrient dosing algorithms. On the platform, users receive personalized guidance.



## TOP 50 + 1 Startups

The logo for Ribbon Biolabs, featuring the word "RIBBON" in a bold, black, sans-serif font, with "BIOLABS" in a smaller, black, sans-serif font directly below it. A stylized blue DNA double helix is positioned behind the text.

**RIBBON**  
BIOLABS

### Ribbon Biolabs

#### Redefining molecular biology

Ribbon Synthetic Biolabs defines new standards for molecular biology by applying innovative procedures that repurpose specific methods and techniques for DNA synthesis. Ribbon provides custom long synthetic DNA sequences and genomic libraries, of minimum lengths of 10,000 base pairs, on-demand, at new speeds and at competitive prices. The solutions cover high throughput requirements in synthetic DNA.

The logo for SzeleSTIM, featuring a blue icon of a triangle with a dot at each vertex and lines connecting them, followed by the text "SzeleSTIM" in a blue, sans-serif font.

 SzeleSTIM

### SzeleSTIM

#### Disrupting health by personalized electroceuticals

SzeleSTIM develops smart personalized electroceuticals for the treatment of chronic pain patients. The wearable stimulates the auricular branch of the vagus nerve in the pinna of the ear. The software offers a comprehensive online therapy management system that controls the therapeutic progress. It includes a dashboard for physicians and a smartphone app for patients.



## recalm

### Making noise disappear

Recalm introduces an intelligent acoustic device to improve your quality of life by making unwanted noise, (e.g. construction noise) disappear. By sending out a signal with opposite polarity to the noise source, noise can be eliminated by destructive interference. Recalm integrates the hardware consisting of speakers, microphones, and PCB into seats and can reduce noise up to 75 % around the user's head.



**TOP 50 + 1  
Startups**

## Materialize.X

### Adhesives technology powered by machine learning

Materialize.X offers a bio-adhesive to replace urea-formaldehyde and an optimization software tailored to your specific manufacturing process to increase productivity and integrate new technologies. The adhesive industry is changing, by regulation and customers demand to shift to non-toxic alternatives. Materialize.X helps companies, large and small, to cope with these regulations.



The logo for Batchforce, featuring the word "Batchforce" in a blue, sans-serif font. It is positioned inside a white hexagonal shape with a thick grey border, which is part of a larger vertical arrangement of hexagons on a dark, starry background.

## TOP 50 + 1 Startups



### Batchforce

#### Providing engineers manufacturing superpowers

Batchforce is an online manufacturing outsourcing service that delivers the right capabilities at the fastest lead times, through intelligent sourcing and procurement technology. Its mission is to ensure that engineering companies can manufacture what people need when time is of the essence. With the matching algorithm, it ensures the best production pricing available in the market.

### Skysense

#### Fully automated charging and service infrastructure for drones

The charging infrastructure removes the need for human operators in the fields of autonomous and remote battery charging and remote drone stationing. Drone operators become safer, economically scalable and truly autonomous. Customers are enterprises planning to deploy drones at scale in the security, infrastructure, agriculture and logistics markets.



## Exomys - Augmented Humanity

### Industrial exoskeleton supporting workers' health

Exomys develops passive modular exoskeletons for industrial application and logistics, supporting employees during long shifts standing upright or when carrying heavy loads. The first module can be used as an invisible chair to allow workers to rest anywhere. By taking the load off the body, it increases productivity, prevents injuries and enables high performance for a longer period.



**TOP 50 + 1  
Startups**

## Agribot

### Agricultural robotics company

Agribot is an autonomous agricultural robot. Its purpose is to automate agronomic tasks to increase productivity and competitiveness of plantations and farms. It falls into the category of driverless tractors and was designed to work on permanent crop plantations, help to overcome the problem of insufficient workforce supply, reduce production costs and lower health risks among farm machinery operators.





## TOP 50 + 1 Startups



### SkAD Labs

The future standard of engineering software  
SkAD Labs develops SkeletonCAx, a virtual product development software enabling a 50% speedup in the development process of mechanical engineering products. SkeletonCAx is an advanced, intelligent system, capable of autonomously creating designs, simulating physical behavior and achieving a specific optimization goal. This makes engineering product design as easy as running software codes.

### hiMoment

Helping people become happier

hiMoment is a mobile application that helps people become happier and grow. Based on research in positive psychology and neuroscience, it combines artificial intelligence, design and entertainment to deliver happiness in a unique and exclusively algorithmic way. Going beyond existing digital solutions, hiMoment's powerful algorithms harness the power of a user's personal life moments to make them the best version of themselves.



## iazzu

### The ultimate art app experience

The iazzu app eliminates one of the biggest obstacles when purchasing art, answering the question: “How will the artwork look on my wall?” iazzu has developed an application that combines browsing art with Augmented Reality, allowing art enthusiasts to visualize how artworks will look in their home or office space. With iazzu, you’ll always make the perfect choice. Become the curator of your own space!



**TOP 50 + 1**  
**Startups**

## Artivive

### Bringing art to life

Artivive offers an easy to use augmented reality tool for artists to create, museums to expand and galleries to impress. The Artivive augmented reality solution is combined with a cloud-based image recognition and a video overlay. The free smartphone application is the visualization component and the content management system, called “Bridge by Artivive” is the creational component that links two worlds.



Lifestyle



## Steed Equine Monitoring Solutions

For the love and welfare of horses

Horses die prematurely of undetected disorders, diseases and self-inflicted injuries. Steed is the first autonomous biometric wearable for horses that monitors their wellness 24/7 and alerts owners at the earliest signs of distress such as colic, the #1 cause of death of adult horses and primary reason for emergency medical intervention. It also serves as an elegant fashion accessory for equestrians.

## TOP 50 + 1 Startups



## Smokeless

Conquering smoking-addiction

Smokeless is the first holistic, fully-automated, closed-loop solution that is able to consider every necessary aspect of smoking addiction, on an individual basis. The smart e-cigarette based on the special technology is able to manage, analyze and adjust the consumer's nicotine intake with full automation. The community app uses challenges and social psychology methods to conquer mental addiction.



## Hushme

### Manufacturer of world's first voice mask

Hushme is a personal acoustic device that protects speech privacy and reduces noise pollution when speaking on the phone in open plan offices and public places. It works with electronics in the headband and algorithms. The algorithms modulate the sound relative to the intensity of your voice. The device is painted with a special sound-absorbing paint and uses sound-absorbing foam.



Lifestyle

**TOP 50 + 1  
Startups**

## AVILOO

### Battery Diagnostic for Electric Vehicles

AVILOO develops a diagnostic system for batteries for used electric vehicles. It can be tested with the use of a small device and a short test drive, receiving a Battery Certificate with AVILOO rating. Knowing the state of health of the vehicle's battery is important to determine the reselling value of the car since the battery represents a large part of the vehicle's value.



# TOP 50 + 1 Startups



### Hyper Poland

We design the agile transportation of tomorrow

Hyper Poland is the only company that openly opts for the use of the hyperloop technology for logistic purposes. Our biggest advantage comes with our Smart Logistics Platform which is Hyperloop compatible while being possible to commercialize without major regulatory amendments. The platform consists of both hardware (vehicle and infrastructure) and software (supply chain optimization).



### EcoG

The monetization engine of EV charging

The technology enables profits over the entire charger lifetime with additional shared revenue streams in EV Charging. Whether you are manufacturing high performance chargers (HPCs), are an operator for HPC or are a site-owner on which premises an HPC is or will be installed, we offer you digital services that generate value beyond the pure charging process.



## cycuro

### Smart Mobility Data Trust Platform

Cycuro is a cloud solution for secure mobility data exchange. It provides data validation and identity verification services for companies that collect and exchange data pertaining to mobility applications. Cycuro fuses together data from a wide range of sources (e.g. vehicles, smart cities, etc.) and deploys dedicated machine learning tools for mobility anomaly detection and behaviour analytics.

## Sono Motors

### Solar-Electric Vehicle for Mass Market

Sion by Sono Motors is the first electric vehicle able to recharge its batteries from the sun. It has 330 integrated solar cells, protected with polycarbonate, which under proper conditions generate enough energy to cover 30km per day. Fully charged, it can drive up to 250km and supports high power rapid charging. It is also able to provide energy thanks to the bidirectional charging technology.



**TOP 50 + 1  
Startups**





### Pure Watercraft

**Making boating clean, quiet, and high performance**  
Pure Watercraft has developed an integrated electric propulsion system for boats, including a high performance electric outboard motor, modular lithium ion battery pack, and charger system. It is easy to install and needs nearly no engine maintenance for 10+ years. It is designed to replace a 9,9 to 40 hp outboard motor. Pure Watercraft 26,8 hp can push a boat like a 40 hp gas outboard.

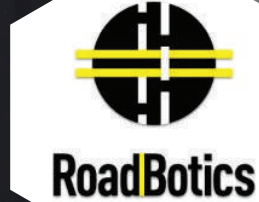
## TOP 50 + 1 Startups

The logo for embotech, with the word "embotech" in a lowercase, sans-serif font, followed by an asterisk. The letters "ch" are in a reddish-orange color, while the rest are dark grey.

### Embotech

**Motion Planning for Autonomous Vehicles**  
embotech develops algorithms for embedded trajectory planning and driving policy in autonomous vehicles that convert sensor and mapping information into safe, comfortable motion. Based on numerical optimization technology from the founders' PhDs, embotech has developed a state-of-the-art numerical core for solving complex decision-making problems in real-time on embedded computing hardware such as automotive ECUs.



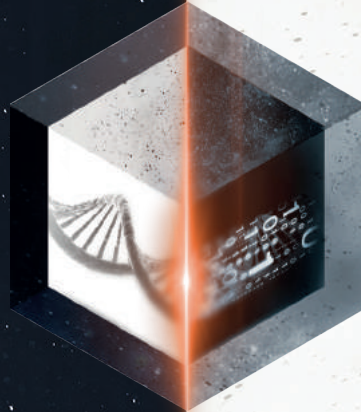


## RoadBotics

### Roadway assessment with machine learning

RoadBotics uses a standard smartphone, any vehicle and our cloud-based machine learning platform to assess the quality of roadways including road surfaces, signage and other common features of an urban or rural road as well as highways. The result is a live multi-colored map that public works departments can use to understand the near real-time status of their roads, bike paths, bridges etc.

**TOP 50 + 1**  
**Startups**



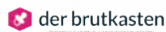
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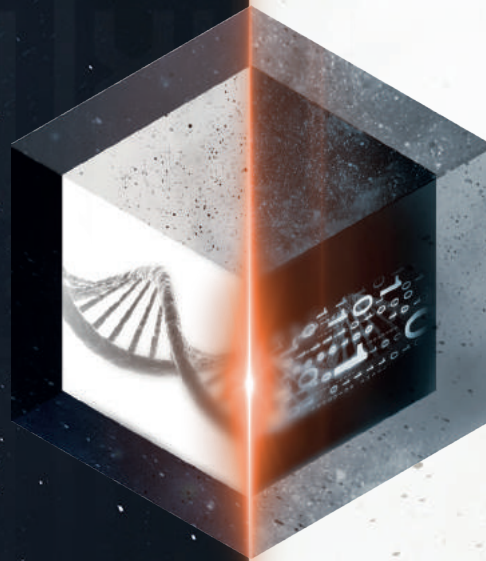
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