It is an honor to once again present to you the 100 most promising university startups from around the world. Through the University Startup World Cup these amazing startups come together to exchange ideas, build network and compete for the chance to be awarded the world’s best university startup 2022.

Driven by talent, research and an unwavering ambition to make a positive impact on the world, university startups are leading the way towards better and more sustainable solutions for our society. It is therefore essential for Venture Cup Denmark and our main partner Venture Cup China to provide entrepreneurs with a platform to share knowledge, build network and showcase their concepts. With the University Startup World Cup we aim to create a global network that jointly strives to help more knowledge-based startups succeed and empowers developing regions in establishing local entrepreneurship initiatives built on best-practice from around the world.

Best of luck to all participating startups and thank you to everyone who is supporting the University Startup World Cup 2022.

**FOREWORD**

By Morten Ugelvig Andersen
CEO of Venture Cup Denmark
Empowerment, friendship and encouragement

Those were the three biggest upsides for 2015 University Startup World Cup winner, Caleb Kumar, in the process of building his own company. Factors that also helped the young entrepreneur through the biggest trauma of his life.

As the youngest college graduate in Minnesota history, Caleb earned an associate’s degree in mathematics just 13 years old. But, shortly after graduating Caleb had his life turned upside down, when he had a very serious traumatic brain injury that paralyzed nearly 50% of his body. Despite years of rehabilitation there are still some residual deficits and because of his injury he now also had to battle anxiety.

In spite of those years of ordeal, in 2013 Caleb Kumar was accepted into Stanford University at the age of 17. The time at Stanford University became revolutionary for him as he started developing his own software. Out of his Stanford dorm room Caleb started building AI software that would help clinicians diagnosing patients; “Because of my own health challenge, I was empowered to bring timely diagnosis to patients and limit cost, so that additional financial burdens are not created for patients. Satisfying the need of patients was a major driving factor for me,” Caleb explains.

In establishing his own company Caleb joined forces with his now close friend Aslan Maleki, whom he met through Peter Theil’s ‘20under20,’ where they were both semifinalists. Together the two young entrepreneurs would develop the company VesaliusMed including AI-powered software and a microscope to provide a non-invasive and accurate screening workflow for detecting cell-based diseases such as cancer.

When Caleb and Aslan reached Phase 2 of FDA trials they met a need for funding for patents and clinical testing and decided to apply for the 2015 University Startup World Cup (USWC). The two founders experienced a great amount of support from the international biotech industry and experts in their field. “I fondly remember my visit to Novo Nordisk headquarters in Denmark. It was a pleasure to meet innovators and entrepreneurs from around the world – many of whom I still keep in touch with,” Caleb remembers. During the USWC Caleb and Aslan were also molded from novice speakers to competent orators. A talent that meant a lot to them as they learned how to effectively communicate the value proposition of their company.

Finally, the founders decided that bigger players in the AI medical industry were better equipped to develop a product in this category, and VesaliusMed was acquired in 2021. “To achieve our end goal of getting the product into the market and saving lives, it would be better for us to transfer our knowledge and technical findings to a bigger company that would be able to compete and incorporate our technology in standard care around the world,” Caleb explains.

The greatest personal ‘up’ of this startup was the boost it gave to my confidence and mental health. Winning the Grand Award at the University Startup World Cup changed my life.

Aslan Maleki, HRH Crown Princess of Denmark, Caleb Kumar
A startup fighting period poverty in Sierra Leone

While studying in Norway and the United States Haja Isatu Bah realized that the variety of period products in these countries were excessive compared to her home country Sierra Leone. As she discussed this with women in her family, she realized that there was a need for healthier and more sustainable products available to Sierra Leonean women.

Haja had experienced NGOs donating pads for women in her country, but realized that there was a demand for something more permanent: “Many of the existing NGOs or companies that hand out period products are not for profit and it’s only a one-time thing. It’s not sustainable because once you’re done with them, you don’t know how to get another one. So I decided to run a business, a company to make it more sustainable.”

So, the university student from Skidmore College founded her own company Uman4Uman to produce reusable pads that would not only help the environment, but also educate women about healthy period products. But running and developing a startup has been complicated for Haja: “There have been a lot of challenges involved because I am not a business-person, I am an environmental studies student. I care a lot about the environment and women’s issues. But stepping into the business arena has been very complicated, because I had to learn a lot about financial statements and whether you are making a profit or a loss.”

However, participating in the USWC gave the founder confidence in Uman4Uman as she learned a lot from workshops and peer entrepreneurs: “In the workshops there were a lot of other interesting people with a lot of interesting questions that really make you question what you are doing. I learned a lot from that.”

The competition also meant that Haja learned a lot about herself and her company as well as how to communicate her mission to others: “It’s a competition with a lot of prepping. You get to understand the processes and what you need to do, it’s not a one-day thing. Even a simple comment that somebody says can make you consider, how do I run my business? How can I make it better for my customers, so they can actually understand my mission and vision?”

Finally, the prizes that Uman4Uman won at the USWC 2021 as the Early Stage Overall winner and Social Category winner have meant that the company could take the next step of moving production back home to Freetown, Sierra Leone, even though this too has been a complicated process. “Producing locally has been tough because we realized that most of the materials we’ve been using are not produced locally. That has also given us more room for improvement because we are also working to try other materials that are produced in Sierra Leone, so if it works, we are definitely going to switch some materials. This is also possible because we now have the financial resources to be able to do all of these trials.”

We want not only to be a Sierra Leonean based business, but also Sierra Leonean producers. We had that as a goal. But after winning this competition we were like okay, we think we have enough financial resources to not only make this a conversation but make it the reality. So we have partnered with a local in Freetown to produce locally.

Winning the University Startup World Cup (USWC) in 2021 gave Uman4Uman confidence and the last push to move its production back home to Freetown, Sierra Leone.
HiCura Medical working for smarter and safer patient care

“Technology shouldn’t stay in the lab. I think this competition is a great way to highlight some of the technology that comes out of those university labs.” Dr. Cailin Ng

As a result of her own traumatic experience with an epidural during childbirth, Dr. Cailin Ng became passionate about creating a smarter system for the popular anesthesia method. Together with Dr. Leng Yusong and Dr. Jun Ma, she developed a system that guides doctors during medical procedures using a combination of AI and ultrasound and founded HiCura Medical Pte Ltd.

Winning this award has definitely given us a lot of high profile. It helped a lot in regards to visibility, as well as when we are talking to investors. Winning the award definitely gave us some credibility that we have been recognized on the global stage. So I think that this has been a great help to us, especially now that we are on a fundraising journey,” Dr. Cailin says.

As part of their startup journey, the founders decided to apply for the University Startup World Cup (USWC) in 2021 where they ended up winning the overall prize for Growth Stage startups. A win that got the company a lot of attention in the press and on social media, as well as credibility with investors:

Since the beginning, the startup HiCura Medical has been fighting against the odds to ensure a safer epidural procedure. The Singaporean company faced the challenges of COVID-19, which meant that a lot of clinical studies were closed down due to lack of hospital capacity. On top of that, they struggled with cash flow, as development of MedTech in general is investment heavy and the road to commercialization long. However, through the USWC, they were able to network with other entrepreneurs in similar situations: “Joining the competition has allowed me to interact with other startups in the same space and look at how they are doing. There were also a few startups from Singapore who I got to know,” Dr. Cailin explains.

And, as a former university student from the National University of Singapore, Dr. Cailin Ng found that competing on a global scale in the USWC could be an efficient step in bringing technologies from the universities closer to commercialization:

“I think it’s great that this competition has brought to the limelight what the universities are doing and some of the interesting technology that is coming out of universities. Sometimes some of this technology is not being recognized, so I think it’s a great platform to encourage students to actually step up. Some of this technology is interesting and can help society and mankind in one form or another and it should be commercialized.”

Dr. Cailin argues that developing your communication and marketing skills is vital as an entrepreneur. She found that; “many of these people are engineers. Most of them have the technology and know what to do with the technology, but they don’t know how to sell the technology.

“The marketing and the business part of it is actually very crucial. When you put your device on the market, half of it is the technology but the other half is how you market the product, so that people would actually purchase it. So the workshops and training at the USWC I think would make a big difference for startups,” Cailin says.
In 2016, first time founders Malene Madsen (CEO) and Mikkel Bindesbøl (Head of Sales) developed the people intelligence platform WOBA, a software system designed to measure and improve employee well-being, engagement and retention. But the path of creating and expanding a business was far from aligned and easy.

Malene had spent years on scientific field work, researching work related stress in larger Danish companies, when she realized that the current focus of reducing stress was individually focused solutions that only seemed to treat the symptoms and not the cause of stress. She decided that this needs to change. But, as the two founders came from a humanities background and had no former experience in establishing a business, it was mostly learning by doing with WOBA.

“There are a lot of things you don’t see, when it is the first time you create a company. You lack the providence. But it’s not all bad, because then you are forced to just do it” CEO, Malene Madsen, explains. The founding couple were forced to alter their business plan numerous times.

“‘You can’t be too proud to change your road. If you see something that doesn’t work, you have to change it by the snap of your fingers. You have to be agile to succeed,” she elaborates.

Raising capital for the company was both important and challenging for WOBA. Malene tells; “It was tough as hell sometimes. When I was fundraising, I had nothing to show, I had no track record. I had to learn how to pitch, how to make a budget and how to comfort investors all the way around. This is particularly important when establishing a software company, which needs a lot of funds for acceleration and development. It was quite a shock, but we made it!”

Something that helped WOBA on its way in the early stages, was participating in the University Startup World Cup in 2016. Here, the founders got to meet a lot of peers and professionals who gave them valuable input.

After participating in the University Startup World Cup Malene and WOBA have made remarkable expansions and raised capital for upscaling for an international market. Malene has been recognised as one of Berlingske’s Talent100, she was nominated as CEO of the year at the Danish Diversity Awards and gave a TED talk about mental health as a first time founder.
DIGITAL
Innolidix
Technical University of Denmark
Denmark

Innolidix is a Danish startup that will innovate the mining industry drilling and blasting operations through data acquisition and processing. The company’s mission is to break ground on streamlining on-site operations through machine learning-based algorithms. The main applications provided by Innolidix are on-site data collection through Lidar equipped drone operations and machine learning-based data processing for determination of ideal drilling and blasting location patterns.

EduXMet
Universidad Nacional Autonoma de Mexico
Mexico

We are a startup that has the goal of making education more inclusive with the help of technology and games. Our mission is to create applications and tools that help the teaching of neurodiverse students and those with some disability. We believe that disability is in the environment and the lack of preparation and information.

Time Trek
CMACED Superior University
Pakistan

Time Trek is creating an innovative low-cost solution for the digital restoration of archaeological sites by using emerging and futuristic technology of Augmented Reality (AR). This product will offer tourists engagement with 3D displays and animations through handheld devices (smartphones, tablets, etc.) at actual locations of attractions, and will be the first of its kind deployed in Pakistan. Time Trek is a new product offering within affordable range of tourists from developing countries visiting Pakistan. In this lies immense potential for religious tourism, as it is host to multiple ancient interfaith sites (Muslim, Buddhist, Hindu, and Pagan).

Ventryr AS
The Arctic University of Norway
Norway

Ventryr is a platform for buying and selling last minute tickets to experiences nearby. Tour operators sell their remaining tickets at a reduced price to our end-users on the app for extra income. Our end-users get last minute deals and get to discover what the local travel industry has to offer.

eAgro
National University of Science and Technology
Zimbabwe

Cropfix by eAgro is a WhatsApp-based chatbot that assists in identifying plant damage from pests, diseases and nutrient deficiency with the help of machine learning and artificial intelligence. Images taken by farmers in the field are sent and automatically analyzed by our algorithm which identifies crop diseases, pests or nutrient deficiency within seconds. Then critical information on symptoms, triggers, agro-chemicals as well as natural/biological treatments are provided for the farmer to immediately prevent further spread. Through use of Artificial Intelligence it will improve crop yield by helping fight crop losses and unnecessarily or wrong use of pesticides.

Deep Signature
Ho Chi Minh City University of Technology
Vietnam

Deep Signature is a software system based on a blockchain algorithm that we patented in the United States in October 2021. This algorithm allows Deep Signature to use any decentralized blockchain (e.g. Bitcoin, Litecoin, Bitcoin Cash, etc.) to encrypt a product ID that is consistent with the manufacturer’s blockchain wallet address, creating a unique “signature” that helps authenticate the goods to the right origin, making counterfeiting impossible.
**SIML.ai**

**Technical University of Košice, Slovakia**

SIML.ai is a software platform for building extremely fast AI-based physics simulators. By leveraging physics-informed neural networks (PINNs), it helps significantly shorten the time to develop technologies like nuclear fusion, optimize designs for lower energy consumption, find best ways to reduce carbon and even enhance robots with understanding physics to survive in extreme conditions.

**Solar Powered Machines**

**Sokoine University of Agriculture, Tanzania**

Smart farming meters run by solar helping millions farmers to grow more by reducing production cost encouraging them to use high quality farm inputs. The meters are designed for connecting to any type of storage equipment/containers/tanks facilitating on farm delivery and automation counting and flow of organic fertilizer, pesticides and seeds in both forms liquid and solid. The meters allow digital payment whereby farmers pay using mobile money and electronics cards “pay as you farm”. Through this technology farmers can pay for organic farm inputs from anywhere they are using digital money.

**Evala**

**University of Split, Croatia**

Evala - digital tourist guide is an interactive smartphone application which uses storytelling for creating unique tourist routes and replaces the services of a physical tourist guide. The idea was born as a product of market observation shortcomings in the context of the tourist offer. The goal of the application is to offer guests interactive city tours and reveal interesting information about historical sites. Our goal is to make every city visitor not only passenger but its guest, to get familiar with ways of living and the city’s soul.

**Shesmart Pty Ltd**

**Baisago University, Botswana**

Shesmart Pty Ltd provides a library/repository mobile app solution called Metlobo Mobile App, that can be accessed at any place at any given time of the day. The mobile app will allow you to search, download and save STEM data. The Metlobo mobile app is here to solve the issue of accessibility to libraries, repositories, archives and accessibility to quality information. Metlobo Mobile app was developed for students to download the information that they need from wherever they are. Metlobo Mobile app will provide information resources to students that are in line with their curriculum.

**Mothers and Beyond**

**UCLA, Spain**

WeAre1 created Mothers and Beyond (M&B) software phone app. This phone app is the only software app that serves pregnant women and women in general before and after delivery, it comes with 13 services for them to cover all their needs. Mothers require additional sustainable ways to keep in touch while on the go with their daily lives especially with the pandemics we are still facing. The development of a mobile phone app would also serve the newly born babies by providing the mothers with all skills they need to be able to keep the safety of their babies.

**Interna**

**National Open University of Nigeria, Nigeria**

Interna is closing the talent supply gap, by enabling local and global companies to find, hire and retain top vetted Nigerian talents - democratizing access to high paying, high impact jobs for talented Nigerians. Interna is a recruitment as a service company that uses technology to help employers find, hire and retain 1% of talents from Nigeria, and the rest of west Africa. Interna equips jobseekers with job readiness and job focus training that is required to excel on entry level jobs, and manages this talent in a vibrant community until they are outsourced to companies.
**EARLY-STAGE**

**Moustachari-dz**  
University of Algiers  
Algeria  
Moustachari-dz is a web platform for legal services. Provides fast and safe legal development. Moustachari-dz offers online legal consultation 24 hours a day, 7 days a week in complete security. We guarantee high quality services for lawyers, notary, bailiff, legal experts and their clients.

**LiberFly**  
Universidade de São Paulo  
Brazil  
LiberFly started its operation in 2016 with the objective of bringing technology and ease to the consumer who does not tolerate the slowness of the judiciary. Supported by the Civil Code and the Consumer Defense Code, LiberFly is a legal asset manager focused on the acquisition and anticipation of consumer legal claims. We use advanced technology and proprietary jurisprudence for the acquisition and pricing of your potential legal asset. With speed and liquidity, you guarantee the receipt of an advance amount due to the inconvenience experienced in just 48 hours.

**GROWTH-STAGE**

**PharmaServ Ltd**  
Igbinedion University, Okada  
Nigeria  
PharmaServ Ltd is your distribution management partner. Take control of your distribution performance in fast-moving and fragmented marketplace, increase your reach and unlock opportunities through data-driven insights and seamless sales execution. We provide an integrated field service automation solution for your sales team to view secondary demand and supply chain management signals to help companies thrive in the experience economy and accelerate growth across emerging markets.

**Synectify**  
National University of Singapore  
Singapore  
Crysalis is value-capturing waste energy to help renewable energy transition. We help the world’s solar PV power grow by increasing the energy grid’s flexibility; and we do it by taking computing power to where the energy is, matching surplus energy to revenue-generating high-performance computing services supplied by modular, containerised data centres, for blockchain, machine learning, financial modelling, engineering simulation, scientific research, education, and predictive modelling.

**Agricon Business**  
Pontifícia Universidade Católica do Rio Grande do Sul  
Brazil  
Agricon Business is a startup that connects the Brazilian rural producer to the global buyer in a direct, dynamic and disruptive way. It prioritizes the traceability, quality certification, segregation and transparency of its processes and agricultural products marketed, through a Blockchain Platform. The rural producer registers his LOT (sales interest), the global buyer registers his LOI (purchase interest) and when our technology receives this information, it crosses it and connects the ends. The Agricon team, through logistical and operational partners, manages the entire process of removing the product from the rural property until delivery to the global buyer. Agricon delivers to its customers a complete solution, which ensures all the details involved in the marketing of agricultural products. With our technology, we add traceability, certification of origin, transparency, security and simplicity in all your negotiations.
GREEN
At StaySeat we believe in responsible use of our resources. Today, restaurants use heating lamps to maintain and create revenue in their outside areas. Each heating lamp uses significant electricity (average of 1,500 watts) causing a yearly CO2 emission of + 2 billion tons globally. Our solution is an intelligent heating seat with an adjustable heating effect, which heats locally and only where the heat is needed. That way we can save a lot of energy. Where 1 heat lamp heats an average of 2.5 people, we can heat as many as 50 chairs with the same electricity as one heat lamp.

The product is a vertical farming system that fits on the same space as a normal grow table and has automated control of watering, airflow, fertilizing and the LED light between each layer. It is specifically designed for industrial gardeners, who want a more efficient production, that meets the highest environmental standards. The Hydrovertic system delivers a consistent size and quality of greens and facilitates stability in workforce dependence and is the only system on the market that is designed as a plug-and-play solution that fits the gardener’s internal layout and production needs.

Pili Seal is a new product invention of sustainable sealing material made from the waste material particularly the waste of Pili Tree Resin which is also called “spent resin”. It is a pioneering study and a revolutionary activity in the field of adhesive and sealant industry that uses the waste material as the base ingredient for the sealant production. One of the unique features of this product invention is that it offers safe and non-toxic effects to the user’s health including the mechanics and technicians since this product underwent Toxicity Test. This product is beneficial and effective for the aviation and construction and building sectors particularly in the metal sheet substrates or materials.

The cost for a bag of flour is increasing day by day and bakeries owners are complaining everyday. Livestock/poultry farms are complaining for feed in order to maintain their farms. This issue has caused a decrease in the size of baked bread and other cakes. We at AgroChange Farm thought of a solution by having flour from cassava which is nutritious and can be accessed easily. The remains from the cassava can also be processed into fine feed for livestock and chickens.

Softly makes it simple to support products you believe in and shop sustainably. Softly is an easy add to your browser that compares products based on your values. Tell us what’s important to you in a product, such as if it’s low carbon, organic, or cruelty free. Softly will then work in the background as you shop on any online site to suggest sustainable alternatives to the products you’re already looking to purchase. Softly is a robust search and recommendation engine that will empower consumers to support important issues - making the world a better place, one purchase at a time. Simple. Sustainable. Softly.

Bionet as an initiative is addressing the global food waste problem, environmental pollution, promoting sustainable agriculture, and creating a market for food waste; therefore, driving value out of every output from a farmer’s farm. Using an innovative approach, our solution, Biome, is an agricultural and food waste valorisation system that is driven by artificial intelligence and the Internet of Things to breed Black Soldier flies for the production of protein-rich nutrition, livestock feed, essential oil, and organic fertilizer for farming.
ReFilamer
University of Szeged
Hungary

The ReFilamer team develops plastic recycling machines and connecting softwares to consumer and business usages. Our machines upcycle household and industrial plastic waste into filament (the raw material of 3D printing). Our unique value is a small and cheap machine as we target the home hobby 3D printer owners and SMEs.

Saltric
Polytechnic University of the Philippines
Philippines

Our Saltpanel makes clean electricity from the salty ocean. Unlike fossil fuels that harm the environment, it is safe. Unlike expensive nuclear plant development and solar and wind that needs batteries, it is affordable. The ocean is present 24/7, so making electricity is limitless and trustworthy.

Adaptop
University of Agder
Norway

Adaptop is a unique docking station delivering desktop class performance to your laptop. Laptops today lack ports, have mediocre graphic performance and are not user upgradeable. With its all-in-one design, Adaptop gives your laptop desktop performance without compromises. Housing a desktop class graphic card, blazing fast NVMe SSD storage and all essential ports while simultaneously charging your laptop, Adaptop will get the job done regardless of the challenges.

Europe Night Trains
University of Žilina
Slovakia

The startup is about creation of regular night train lines across Europe, as there are currently no similar lines connecting European states. Traveling by night trains is the most ideal use of time for the passenger, as the passenger moves across Europe while sleeping and wakes up in the morning rested at the destination of his journey. These connections will be implemented with a modern vehicle fleet, which will ensure quality services. Modern electric locomotives and modern passenger cars will make up almost our entire fleet.

Yaaka Investments Limited
Copperbelt University
Zambia

Yaaka Investment Limited is divided into two Categories: Waste management and smart energy solutions. Waste management involves collection, transportation and safe disposal of different types of waste mainly within Kitwe. In addition, collection, transportation and sell of recyclable waste from town center shops to recycling companies in Zambia. Yaaka Investment also venture into various types of energy solutions, in construction and other related fields throughout Zambia e.g. SaaS Platform for mobile air emissions monitoring, energy analytics, energy budgeting, workload adjustment etc.

Phytavaren Technology Ltd
University of Reading
United Kingdom

Phytavaren is developing an innovative start up that focuses on improving the systems for vertical planters to re-purpose wastewater to sustain planting on the exterior part of buildings. The technology combines phytoremediation and biophilic design to support biodiversity net gain aims, reduce flood risks, cleanse water waste, and minimize air pollution on the site with carbon capture properties. Phytavaren promotes the flexibility of the installation process of the vertical planter using magnetic connectors that can be installed across the built environment cycle.
CropFix
University of Zimbabwe
Zimbabwe
CropFix is a what-app and text based chat-bot that assists in identifying plant damage from pests, diseases, nutrient deficiency with the help of machine learning and artificial intelligence. An image taken by a farmer in the field is sent and automatically analyzed by our algorithm which identifies the crop disease, pest or nutrient deficiency within seconds. Then critical information such as symptoms, triggers, agro-chemicals as well as natural treatments are provided for the farmer to immediately prevent further spread.

Ishara
Massachusetts Institute of Technology
United States
Ishara’s purpose is to create an eco-friendly environment by encouraging plastic waste segregation with incentives, accumulate segregated plastic waste straight from source, and recycle accumulated plastic waste. This is done by giving users an opportunity to use their plastic waste as a currency. The plastic from users are transferred to stakeholders higher on the plastic value chain for value addition.

Water MiniLab Ltd.
Budapest University of Technology and Economics
Hungary
The Water MiniLab water analysing device is able to perform precise and accurate measurements on water quality and its certain chemical parameters without human intervention. Thanks to automated and data-based measurements, more environmentally friendly and cost-effective operation can be achieved in the wastewater industry and other water industry areas. Our Unique Selling Proposition is the fact that we can measure more than one parameter in one device, whereas our competitors are selling devices that can measure only one parameter.

WeavAir
University of Ottawa
Canada
WeavAir harnesses advanced sensor technology and predictive analytics to manage high value HVAC systems, save money, improve health and streamline operations. We develop modules that attach to vents and filters to measure the air coming out of these systems. It is the world’s first device for air conditioning systems that tracks the biggest number of metrics wirelessly in real time and uses them proactively to improve the building operations and air quality.

CLIMATENZA SOLAR
ICT University
India
The new collector from CLIMATENZA in partnership with StorEnergy is designed for solar heating and cooling applications that require high temperature for storage but also good performance in lower temperature intervals. CLIMATENZA have innovated a revolutionary solar concentrator, with high performance and low production, maintenance and operational costs compared to flat panels, even in cloudy conditions, it produces 50% higher annual output at 85 C.
Trashin
Instituto Federal do Rio Grande do Sul (IFRS)
Brazil
We started with a small management operation of waste in condominiums and schools in Porto Alegre. Over time, we expanded the portfolio of services, working with projects and operation sustainability solutions throughout Brazil. We work with consulting, plans and management systems waste, reverse logistics projects, destination and transformation of most different types of materials. We understand that the demands are many and cover different segments, but we are here to bring real and positive results of sustainability, in the adapting to each market reality and contributing for the solid ESG advancement of your business.

SALUBATA
Draper University
Nigeria
Completely repurposed from plastic wastes, feathery shoes (only 0.5kg), extremely comfortable insole and now fitted with air bubbles.

Termica Solutions
Sustentare Escola de Negócios
Brazil
We are TERMICA Solutions, an INDTECH, a corporate spin-off of the PERFIL Group, founded in Joinville/SC. We have professionals with more than 25 years of experience and a multidisciplinary team, focused on industrial equipment and processes. We develop, implement and integrate software and hardware for the digitalization of equipment and industrial processes, making them 4.0, in such a way that they can interact with people and other intelligent machines, improving the efficiency and effectiveness of these processes. In addition, we help your company to save money and contribute to sustainability by reducing thermal losses.

Asel Tech
Université Grenoble Alpes
Brazil
Asel-Tech has more than 15 years’ experience working with petroleum, petrochemical gas and energy industries, particularly focused on pipelines integrity and management. Based on proprietary and patented technologies as well as strategically partnerships with leading worldwide companies, Asel-Tech delivers a wide range of equipment, systems, operational safety, integrity management projects.

GROWTH-STAGE
**Yuman**  
Technical University of Denmark  
Denmark

We develop innovative robots to assist nurses as their own autonomous “transport buddy” by facilitating the delivery of food, laundry, and medicine in hospital wards. Unlike other robots, we create a practical solution around nurses’ needs to improve their working conditions and make more time for patient care.

**PragmaClin Research Inc.**  
Memorial University of Newfoundland  
Canada

PragmaClin develops solutions that improve the lives of people suffering from neurological diseases. The initial product is a remote monitoring solution for Parkinson’s Disease (PD), which affects ten million people worldwide. PRIMS (Parkinson’s Remote Interactive Monitoring System) is a fully integrated system that will monitor, analyze, and rate the severity of PD symptoms remotely and objectively. PRIMS will improve accessibility, especially for rural patients, and the high volume of granular data collected will enable clinicians to tailor treatment on an individual basis. PRIMS will decrease healthcare costs by reducing clinic visits and short-circuiting emergency department trips.

**D’Tectreat**  
Cavendish University Uganda  
Uganda

D’Tectreat strives to increase and ease access to healthcare for people regardless of their financial status or geographical location. The company uses technology to increase and ease the testing and medication for chlamydia, syphilis, gonorrhea, HIV/AIDS, malaria, pregnancy, and cancer in Africa. The technology is a combination of the chip and an application that tests and diagnoses these diseases in their early stages and all other stages. People get to know their status instantly by simply inserting “D’Tec-chip” in their mouth after following the prompts on the “D’Tectreat App” at their convenience.

**Doro Health Services**  
The University of Bamenda  
Cameroon

The Doro health service project aims to facilitate healthcare, authentic medication and medical equipment access to underserved patients, hospitals and communities in Sub-Saharan Africa. Through our mobile application system, patients are able to connect with medical doctors, get access to blood donors’ check blood availability in various hospitals, contact emergency units (ambulance services) during emergency situations, book appointments with doctors, carry out virtual consultation, have a chat with a doctor from the comfort of their home, store their medical records electronically and more.

**Peopl**  
University of Engineering and Technology  
Peru

Peopl has two-way communication with the patient through appointment and medication scheduling/reminders, relevant information, and constant monitoring of their symptoms/adverse events. Peopl provides the pharmaceutical company with actionable insights in real time regarding the profile of its users and the barriers they face in accessing or adhering to their treatments. Peopl provides a channel of access to the Patient Support Programs (PSP’s) that are provided by the pharmaceutical company with the aim of closing adherence and access gaps.

**Ichosia Biotechnology**  
The George Washington University  
United States

Ichosia Biotechnology is developing a stem cell-based platform technology for mass-producing laboratory-grown RBCs, called ErythrosynTM, to make blood safer, less expensive, and more reliable for clinical transfusions. Our vision is that once this technology is fully developed, lab-grown RBCs can entirely replace donor blood, providing safer, less expensive, and more reliable transfusion therapies for patients and providers.
**EARLY-STAGE**

**NuixHexa Technologies**
*Busitema University*
*Uganda*

NuixHexa Technologies is an IT startup company formed in Uganda with a goal to produce innovative products in the health sector with the aid of ICT technologies like Robotics. A Remote-Controlled Mortuary Robot is a robot to aid the mortuary attendants carry out mortuary tasks hence safeguarding them in the mortuaries since mortuaries are hazardous areas to work from. This is developed with aid of artificial intelligence and machine learning hence providing a contactless mortuary.

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**DECAP R&D**
*McGill University*
*Canada*

DECAP R&D’s first product, the DECAP device, is a single-handed, all-in-one needle uncapper, recapper, and disposal unit designed to prevent needlesticks before they happen. By disrupting needle-use, DECAP provides a more ergonomic, safety-oriented and user-friendly approach to working with needles. DECAP devices represent a simple solution that eliminates the risk of needlestick injuries by making the risky-two handed recapping motion into a simple and safe one-handed motion. This opens up a free hand for workers to more easily handle patients, animals, and equipment to reduce stress and improve workflow.

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**MedMxr**
*University of Southern California*
*United States*

Medication administration should be simple. However, many patients with congenital adrenal hyperplasia, diabetes, and other diseases need to mix components of their medication right before administration, a process that is difficult and can lead to lethal consequences if performed incorrectly. MedMxr simplifies the delivery of multi-component medications, thus reducing the risk of error, improving patient adherence, and most importantly, giving patients peace of mind. We have designed MedMxr, “the EpiPen of multi-component drugs,” an autoinjector that separates drug components until time of use, mixes the components, and delivers the medication.

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**GROWTH-STAGE**

**Teleatherapy**
*University College Cork*
*Ireland*

Teleatherapy is helping Speech Therapists provide better, more consistent care to the 90% of people with Parkinson’s Disease experiencing changes to their voice. Teleatherapy has developed a platform to monitor patients on home therapy programs, meaning patients are more compliant with home programs needing less face-to-face therapist care. Meaning better outcomes for patients and reduced waitlists for healthcare clinics.

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**ImaginAble Solutions**
*McMaster University*
*Canada*

ImaginAble Solutions is a Canadian company that creates assistive technology to improve the quality of life for people living with a disability. The company’s mission is to not only empower people living with disabilities to learn, work and be creative but also to educate and improve awareness within our community on disability innovation and accessibility issues. Guided Hands™ is an international award-winning assistive device that enables people with limited hand mobility to write, paint, draw, and access technology through touch-screen devices.
**Multipet**  
Brazil  
From homemade productions to large industrial productions, we have developed several solutions for bottlers; technological and automatic blow molding machines, production management system, specialized technical assistance and spare parts. Our experience has enabled us to meet the demand from Brazil, other countries in South America, Africa and the USA. We are constantly developing to serve our customers with the best solutions from productions. This is just the beginning of our story. We are sure we will go much further.

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**E3A**  
National University of Singapore  
Singapore  
E3A is a leader in smart newborn and women’s health devices. We brought together a team of world-class engineers, designers, and business minds to redesign the existing unattractive and technologically outdated medical devices in newborn and women’s health into sleek products that could be used at home—revolutionizing categories that had been overlooked for many years and lacked innovation, including neonatal jaundice, fertility health, pelvic floor health, and menstrual pain management. Our core team comes from leading institutions including the National University of Singapore, Johns Hopkins University, UC Berkeley, Tsinghua University, and Wuhan University. To date, E3A has completed over 30 patent applications and has completed three rounds of venture capital financing from leading investors, including the National University of Singapore, Hong Kong X Fund, and Sunbo Angel Fund.

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**ErleaDx**  
The Wharton School  
Singapore  
We are a team of Scientists, Engineers, Chemists and Clinicians who are committed and working towards the common goal: To develop ErleaDx’s mirLung detector to spot lung cancer early and improve patient outcome. Lung cancer is the leading cause of cancer death. The majority of patients have advanced incurable disease at diagnosis. Screening smokers with low dose CT scans reduces lung cancer mortality but 60% of those diagnosed with lung cancer are not eligible for screening. There is currently no blood test or biological marker of lung cancer in clinical use. The development of a blood test that could improve screening selection or early detection especially in those not eligible for screening could have a transformational clinical impact.

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**Emay Gene**  
China  
Developer of gene therapy drugs. The company develops a platform of adeno-associated viruses that can efficiently target different types of cells and aims to treat hearing disorders, thereby improving the treatment of hearing and vision disorders by leveraging gene therapies.

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**Hollo Limited**  
The University of Hong Kong  
China  
Hollo is a health-tech social enterprise with a platform of research-backed Digital Therapeutics, that uses proprietary Behavioral Health AI to create sustainable health plans for chronically ill patients. Our award winning company is focused on developing our digital therapeutics to be accessible by all—especially through our software and AI models we’re closely generating through research and clinical studies with our research partners.
Interenclub
Universidade Estadual de Ponta Grossa
Brazil

Interenclub is a social startup that aims to facilitate access to English learning and international opportunities for low-income students in Brazilian public middle and high schools, democratizing the language for non-native speakers. Currently, we are in the early stage of developing our own study method and improving our networking, either in the education section or in business connections.

LEAN Platform
Hong Kong University
Vietnam

LEAN Platform is an online study ecosystem where students can stream their learning sessions solo or with others and earn tokens for their study time. These tokens can be used to redeem rewards from entertainment brands (fun) or youth education organizations (growth). LEAN incentivizes students’ learning with rewards that brands can post for free to attract customers. Our learn-to-earn platform impacts the whole learning journey of a student making it not just more fun but an entirely more productive experience. We aim to revolutionize the way teenagers and university students view studying, cultivating intrinsic motivation along the way.

VictualMart LTD
University of Calabar
Nigeria

VictualMart makes it possible to generate a two-way conversation between Nigerian farmers and consumers through our e-commerce platform. We enable farmers/smallholders to sell off all their surpluses and encourage them to produce more according to market specifications. When these partners can know each other easily and can function as nodes in a single marketplace, agriculture will thrive. We aim to reduce importation to the barest minimum, encourage utilization of funds available to develop the agricultural sector in Nigeria and become a major exporter of agro-based products/services.

Humanity-centred Designs ®
University of the Arts London
India

Humanity-centred Designs ® has designed and developed an innovative circular recycling framework that helps and supports more than 150 apparel manufacturing MSEs towards sustainable transformation and recycling textile waste. As an outcome, we have created a range of innovative recycled textile materials. We have termed it as HCD-Tex® (Humanity- centred designs- textile).

Boltay Huroof
CMACED Superior University
Pakistan

Boltay Huroof is a startup with an aim to provide accessible and inclusive reading material for the visually impaired, by prioritizing innovation and a culture of empathy and inclusivity. Our primary product is a braille converting software that converts regional and international languages into braille. We work on providing inclusive braille books and forms which will be used by both the visually impaired and sighted. Furthermore, we are introducing the novel concept of tactile graphics with ink print which will revolutionize the educational experience for visually impaired students in the field of science.

humAId ApS
University of Southern Denmark
Denmark

humAId develops an intelligent and easy to use translation service for deaf people. Thereby breaking down the existing communication barriers, and solving inclusion problems for deaf and hearing impaired people with the use of artificial intelligence, and existing camera technologies on users own smartphones or computers.
**Soolvit**

*Université Paris Saclay, France*

The first SaaS platform for crowdsourcing and open innovation in North Africa. Soolvit is a platform that connects innovators to companies and institutions, and allows them to take on challenges through the design of a collaborative experience in the form of hackathons, startup challenges and business cases for our community of problem solvers, e.g. SMEs, developers, students, marketers, and startups.

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**UniServices**

*Michigan State University, United States*

Giving students opportunities to earn money in college on their own time, doing jobs they want to do, and giving residents access to affordable labor anytime they need it is what UniServices is all about. We are creating a mobile and web app to seamlessly and instantly connect students and residents to get jobs done. Utilizing community partnerships with local cities, and the Universities we work in, we are laying the groundwork for what will become concrete relationships between each college community and their UniServices UniHelpers.

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**Remostart**

*G H Raisoni College Of Engineering, Nigeria*

Remostart is a blockchain remote HR-tech platform for minorities and people from underrepresented communities. Remostart is building an HR-Tech blockchain platform to help talents from minority backgrounds to work for global startups remotely by removing biases and barriers to their hire. While offering startups an availability of talents at a cost 10-20% cheaper than their conventional alternatives and helping them meet their diversity and inclusion goals effectively.

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**FarAway**

*Vienna University of Economics and Business, Austria*

FarAway’s main objective is to make travel blogs and trips you see posted online bookable. Currently, most blog websites have a huge amount of affiliate links that send you to dozens of websites. If you want to book the trip a blogger posted you would have to use many different websites and links, which makes this process complicated and annoying. At FarAway we offer a possibility to post blogs and enter the visited hotel(s), destination(s), and experiences into our blog. Through partnering with our travel API Partners, we offer an opportunity to book exactly these trips. By earning a brokerage fee on these bookings, we earn our money as well as give 10% of that fee to the bloggers themselves.

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**eva academy**

*Queensland University of Technology, Mexico*

eva academy is a platform that develops entrepreneurial skills for the development of knowledge, skills and capacities in vulnerable groups that are made up of women and youth. With this support the development of their social and/or sustainable entrepreneurship becomes a means or tool to improve their environment. Support will be provided in training, courses, mentorship, consulting and e-commerce. At the same time, it develops collaboration between the participating entities, generating knowledge for its replication of the model generated with interaction with peers in USA, NGOs, government, academic and business entities to achieve the objectives.
Seekr
The Hong Kong University of Science and Technology
China

Seekr is a compact wearable aimed at being a lifelong visual companion to the elderly and visually-impaired. Our vision is to revolutionize everyday human interactions through AI and intuitive designs. We develop products that leverage state-of-the-art AI and Computer vision algorithms to make life easier and safer for people with low vision.

Senior Deli
Imperial College London
United Kingdom

We provide comprehensive health improvement solutions for people with dysphagia, the elderly and their caregivers through independent scientific research. As the first relevant local scientific research company in Hong Kong, we hope to bring more self-developed products to Hong Kong through our professional scientific knowledge and experience, and at the same time contribute to the development of Hong Kong’s scientific research. The research and development process of all products is carried out locally, including the production of soft meal powder for instant soft meals. Therefore, the team mainly develops coagulation powder, ingredient softening powder, food shaping powder, and ready-to-eat original soft meals tailored for people with dysphagia, providing them with more affordable and high-quality food options, helping them to eat safely, increasing their daily lives’ nutrient intake and maintain a nutritionally balanced diet.

A great thanks to all the participating startup teams. Venture Cup Denmark and Venture Cup China recognise the great amount of work that has been put into building your startups and showcasing them on a global stage.
For the third time, the University Startup World Cup is hosted by Venture Cup China in collaboration with Venture Cup Denmark.

Venture Cup China was established after Chinese participation in the University Startup World Cup (USWC) years ago, and has ever since been a strong country partner and worked to promote global impact entrepreneurship in beneficial collaboration with Danish and international partners.

This partnership has been essential in the mission to create a global network of startups who use the platform to come together for knowledge sharing and to showcase their projects.

The University Startup World Cup 2022 is hosted in the great city of Wenzhou at the World Young Scientist Summit (WYSS) that is supported by China Association for Science and Technology and the People’s Government of Zhejiang Province. The vision of WYSS is to build a community under the theme ‘Converging the World’s Talents Creating a Better Future’. The summit has, during the last three years, brought together thousands of young people from all corners of the world and has led to academic and cultural exchanges as well as enabled higher level scientific technological innovation.

We at Venture Cup Denmark are grateful for the successful partnership that has brought a lot of great international relationships, knowledge sharing and potentials for both startups, investors, mentors and other international partners who have been a part of the USWC.

Stay updated on the latest USWC news at [www.venturecup.dk/uswc](http://www.venturecup.dk/uswc)
Innovation Centre Denmark in Shanghai has been an important partner of the University Startup World Cup (USWC) as it has played a key role in facilitating local and regional collaboration as well as representing Denmark formally at the events held in China.

Innovation Centre Denmark (ICDK) in Shanghai is a trusted advisor and partner that has aided Venture Cup Denmark in developing relations within the Chinese startup ecosystem and acted as a sparring partner for Venture Cup China. They have provided valuable insights into Chinese culture and stakeholders and in understanding the fast-paced Chinese innovation and development.

The collaboration between Venture Cup Denmark and ICDK Shanghai originates from a joint vision of promoting, enchanting and internationalizing student entrepreneurship. We aim to support university entrepreneurs by giving them knowledge, tools and network to develop, test and scale their startups on the global stage.

"Danish university startups are increasingly born global with an international outlook even at the early stages. This is why we are excited to offer them access to network and guidance internationally through our collaboration with the Danish Innovation Centre in Shanghai," says Morten Ugelvig Andersen, CEO of Venture Cup Denmark.