

2022 MassChallenge Switzerland Cohort

FoodTech and AgriTech

[Ambrosia Bio Ltd. \(Israel\)](#): develop a disruptive enzyme technology platform designed to convert high-calorie, obesity-promoting sugars into both rare, practically no-calorie sugars, such as Allulose, and dietary fibers.

[AgriEdge \(Morocco\)](#): a digital platform to support farmers in sustainably maximizing the profitability of every unit of resources employed

[Alghètica \(Italy\)](#): this biotech company utilizes CRISPR to improve or modify compounds, naturally present in microalgae, for food applications.

[betterECO GmbH \(Germany\)](#): their Blockchain-based software platform allows for time- and cost-efficient transactions in organic agricultural raw materials.

[BioLumen \(United States\)](#): this proprietary fiber sequesters 6x its weight in sugars and starches, rendering them unavailable for intestinal absorption.

[Biomation Ltd \(United Kingdom\)](#): they convert organic food industry waste into a soil improver which allows crops to be grown in arid environments with 50% less water.

[Biorefic \(Latvia\)](#): they develop a next-generation biorefinery technology for producing advanced prebiotic ingredients and algal Omega-3 fatty acids.

[BIOWEG \(Germany\)](#): they replace microplastics from your day-to-day consumer products with biobased and biodegradable alternatives.

[Bluana Foods \(Romania\)](#): vegan sashimi (tuna/salmon), for flexitarians, wanting to solve the problem of taste and the clean label of alternatives to ocean fish.

[Climate Action \(Sweden\)](#): they aim to transform a food security issue into a climate solution, by using Agtech & Fintech to improve the way we produce our food.

[Cultimate Foods \(Germany\)](#): their solution enriches plant-based meat alternatives with cultivated fat biomass for an authentic taste, mouthfeel, and texture.

[Cultivated Biosciences \(Switzerland\)](#): Creamy fat from GMO-free yeast. The indulgence plant-based dairy needs to appeal flexitarians.

[Dhriti Bio Solutions \(India\)](#): Moringa protein isolate: Plant-based, economical alternate proteins for consumers demanding healthy, sustainable, and non-animal proteins

[FarmCorps \(Nigeria\)](#): they help agro-processing and food companies source quality agri-raw material from clusters of smallholder farmers.

[FlyFarm Worldwide Ltd \(Singapore\)](#): they're applying robotics and IoT technology to harness the power of insects to bioconvert food waste into sustainable protein & fertilizer.

[Food4You \(Argentina\)](#): this biotech platform creates alternative ingredients for the plant-based food industry using bacteria fermentation.

[Frudist \(Germany\)](#): they offer the best product quality of dried fruits and vegetables available on the global market, produced by their own protected technology.

Gaia Technologies GmbH (Switzerland): they develop decentralized treatment and valorization of agricultural side-streams to high-value ingredients while promoting full circularity.

green loop UG (Germany): Here's a hydroponic household appliance to grow food at home, to reduce food-waste, transportation, and packaging.

Inulox Ltd (United Kingdom): this FoodTech startup is developing an active food ingredient that converts 30% of sugar from foods into vegetable fibers after consumption.

Kitovu Technology Company (Nigeria): they use data to eliminate guesswork and supply chain inefficiencies from African agriculture so as to enable farmers to earn more.

Kly (Switzerland): this Swiss upcycling startup has a mission to tackle food waste by eliminating resource inefficiencies in global grain production.

Lignovations (Austria): they improve the sustainability of consumer products by replacing harmful ingredients with powerful lignin particles from biomass.

Manna Insect (Finland): they have developed a solution to produce high quality and cost-effective animal feed onsite to replace soy.

Moa FoodTech (Spain): they aim to achieve sustainable and healthy nutrition based on Single Cell Protein through the fermentation of food by-products.

Mimic Seafood (Spain): they provide better food choices to consumers that save oceans.

Naturannova (Chile): this food tech company combines computational biology and biomanufacturing processes to design the next generation of ingredients.

NoPalm Ingredients (Netherlands): they brew microbial oil from waste streams as a sustainable alternative to palm oil in food and cosmetics.

Novani (Switzerland): a FoodTech startup developing a cost-effective extrusion process to make realistic whole-cut meat alternatives like steaks & chicken breasts.

Pallaby (United States): this tech-enabled premium pet nutrition and wellness brand tailors customized meal plans to the unique needs of each pet they serve.

Peelon (United States): they develop a 100% plant-based protective coating for a longer shelf-life.

Unlimited Foods (Singapore): cell-based dairy products that are sustainable for the planet and more nutritious for people. Dairy-it where solution meets taste.

Winich Farms (Nigeria): Winich Farms is an Agritech Company that is fusing together Agriculture and Technology aiming at providing food security.

Zero Cow Factory (India): India's first milk & dairy/food products (world's first A2 milk protein) using bioengineering the microbes & precision fermentation.

Healthcare/ Life Sciences

Ayati Devices Private Limited (India): a new device to screen diabetic patients for foot neuropathy at an early stage to prevent foot amputations.

FimmCyte (Switzerland): they developed a novel immune-based treatment for treatment-resistant endometriosis.

Gloomo (Portugal): they are developing a medical screening device that complements the breast self-exam, to detect breast cancer at an early-stage.

HEALTHY-LONGER GmbH (Switzerland): they provide personalized preventive nutrition recommendations based on forward-looking health risk analysis using biomarkers and genetics.

InnoSpina (Switzerland): they design and develop novel implants and unique surgical guiding instruments enabling surgeons to treat chronic back pain in less than 30min.

Intragel Therapeutics (Israel): a safe, effective, and targeted anti-cancer therapeutics for solid tumor oncology patients.

Immunyx (Israel): a revolutionizing immunotherapy by treating neutrophils in chronic disease with a TargEted Neutrophil Nanoparticle (TENN) platform.

Lutroo Imaging (Germany): they're developing the first (patented) technology that enables pain visualization. Our goal is faster, cheaper, accurate diagnosis.

NeuroTrigger (Israel): they have developed and tested a portable and user-friendly system that automatically stimulates artificial eyelid blinking.

Opharmic Technology (HK) Limited (Hong Kong): a non-invasive alternative to eye injections.

Psigrph Inc. (Canada): their first product, Cholestello, is an innovative health and wellness solution for customers seeking support for healthy cholesterol levels.

Recovery Cat (Germany): they optimize psychiatric outpatient care in order to increase quality of life and reduce rehospitalization

SensArs Neuroprosthetics Sàrl (Switzerland): highly selective peripheral nerve stimulators for the treatment of neuropathic pain and sensory loss of people affected by neuropathy.

Stamurai (India): Current speech therapy is expensive (\$5,000), relapsable (80% relapse) and inaccessible. They aim to solve this by automating speech therapy.

TechNovator Health (Poland): they invented a new method of energy transfer & are going to bring new technology into the active human implants market.

High Tech

AllRead Machine Learning Technologies (Spain): they're a deep tech Spin off in the smart logistics ecosystem, with a robust computer vision software to read codes in supply chains.

ARHUB (Switzerland): developer of a proactive security solution intended to identify, prevent and predict security breaches at homes and buildings.

AXS Motionssystem (Hungary): Safety and Health at work is everyone's concern. AXS's Ergonomic Evaluation system helps in producing healthy workplaces for preventing WMSD.

BDATA (Canada): they help to secure IoT, Edge, and Endpoint devices by creating unique digital fingerprints for each device and store them on the blockchain.

Chiral (Switzerland): nanotransistors are key components in quantum computers and IoT sensors. Today, they are produced manually. They can produce them 100x faster.

[Circularise](#) (Netherlands): they provide supply chain traceability software, to empower businesses to transition towards a circular economy.

[Factmata](#) (United Kingdom): they provide AI to address the global issue of misinformation which affects everyone from individual to conglomerate, faster than other tools.

[Isochronic AG](#) (Switzerland): they develop a new type of industrial robot for pick & place applications, capable of transporting multiple parts simultaneously.

[Ligence](#) (Lithuania): a Deep Tech company developing AI solutions in Healthcare. their team is composed of medical doctors with a background in AI.

[MicroFuse Technologies](#) (Nigeria): this IT company is specialized in software development, artificial intelligence, and machine learning.

[PSi](#) (Ireland): they are a voice tech platform for stakeholder intelligence and improved decision making, so everyone can shape decisions that affect them.

[Stratio, Inc.](#) (United States): they create AI-assisted visible and infrared imaging technology with a mission for everyone to access the potential of infrared vision.

[Surveily sp. z o.o.](#) (Poland): Automated OHS safety procedure supervision with machine learning & computer vision.

[traplinked GmbH](#) (Germany): they automate pest control through sensor-controlled trap systems.

[uHoo](#) (Singapore): the solution monitors your environment, so you know exactly what to do to create healthier and more sustainable homes and buildings.

[VerifiedVisitors](#) (United Kingdom): their bank grade AI/ML visitor platform increases ROI, protect clients, and saves 40% of web energy costs by stopping bots in the cloud.

[World from Space s.r.o.](#) (Czech Republic): they integrate satellite monitoring into the food production industry at scale.

General

[Block solutions Oy](#) (Finland): they are producing environmentally friendly building blocks from fibers and recycled plastics

[Green Future Logistics](#) (Switzerland): they are building a SaaS to manage transportation in a more sustainable way by promoting collaboration and optimization.

[LAM'ON](#) (Bulgaria): they produce bio-based and suitable for compost laminating and packaging foils.

[Ridelink](#) (Uganda): they're giving SMEs access to 1million trucks at the tap of a button; they are democratizing transport for SMEs.

[Xegate SA - Project Arcadia](#) (Switzerland): with their Arcadia process, they recycle concrete and wood waste, into objects of many shapes. With Arcadia, you recycle forever.

Energy / Climate Tech

[Arboretica](#) (Netherlands): Arboretica develops OSINT technology to solve the massive data sourcing, verification and analytics problem of the environmental sector.

[ALGBIO Energy Treatment and Engineering Corporation](#) (Turkey): they treat industrial wastewater and flue gas with microalgae to produce carbon negative biofuels and bioplastic.

Basebike (Switzerland): E-bikers, don't worry about your autonomy, enjoy your day. Their convenient battery charging stations network will make sure you get there.

BatteryCare (E-Vision) (Slovakia): they're developing the technology for a non-invasive way of battery lost capacity restoration & internal health diagnostics.

BMTA&C (Morocco): BMTA&C is a deep tech startup developing a new off-grid refrigeration technology to help smallholder farmers save post-harvest losses.

ClearCO2 (United Kingdom): this platform empowers SMEs to profit from carbon accounting, buy from sustainable suppliers, and reverse climate change.

Clera.One (Slovenia): their mission is to bury laundry environmental damage by saving water and stopping microplastic pollution at once.

[ECOWORTH TECH PTE. LTD.](#) (Singapore): they are unlocking the potential of waste(water) by turning waste to worth!

[ECOSTP Technologies P Ltd](#) (India): Zero Power, Zero Chemicals Sewage Treatment Technology. You put 'bad water in and get good water' out - it has no moving parts.

InstaHeat (Switzerland): they heat any conductive liquid where you need it and only if you need it. Eliminating the need for boilers with their huge standby losses.

[MIXTERESTING GmbH](#) (Austria): their B2B software virtually simulates concrete mixtures and helps our customers to develop CO2 friendly concrete 10x faster than before.

[Rheiazymes](#) (Switzerland): they help to decarbonize industries with hard-to-recycle material mixes by using enzymes to recover raw materials from waste.

[Veridis](#) (Netherlands): they aim to revolutionize plastic recycling with the first scalable plastic analysis method designed for the industry needs.

Voltiris (Switzerland): they improve greenhouses' energetic efficiency by producing clean electricity without impacting their high agricultural yield.

Social Impact

[Aquammodate](#) (Sweden): they use nature's finest separation process to sustainably accommodate the World's need for clean water and other valuable resources.

[AXS Motionsystem](#) (Hungary): safety and health at work is everyone's concern. AXS's Ergonomic Evaluation system helps in producing healthy workplaces for preventing WMSD.

[Blue Lobster App ApS](#) (Denmark): they we make the fishing industry more sustainable by incentivizing sustainable fishing practices and enabling direct reporting.

[Complex](#) (United States): automatically identifies and eliminates a parasite harming honey bees, contributing to yearly die-offs.

[Composite Recycling](#) (Switzerland): they developed an innovative technology to close the loop on glass fiber reinforced plastics in boats, wind turbines, etc.

Defire (Thailand): is a Climate Finance platform for improving crop burning practices.

Deshifarmer Limited (Bangladesh): tech-enabled fresh produce supply chain of Bangladesh that directly connects rural farmers with retailers & consumers.

ETB CaT (Netherlands): enabling bio-plastic and bio-rubber for tires.

Evoware (Indonesia): from sustainable seaweed farming to seaweed bioplastic pellet to solve the plastic waste problem at scale and increase farmers' livelihood.

Jasberry (Thailand): The world's first staple superfood that can transform the health of consumers worldwide and take millions of farmers out of poverty.

Plastics For Change (India): PFC's platform helps brands source ethically recycled high-quality plastic and create sustainable livelihood opportunities for waste workers

SALUBATA (United States): they occupy a niche of recycled, low-cost plastic shoes that makes a profit, whilst also benefitting people and planet.

SHAMBA RECORDS (Kenya): their solution is a gateway to financial inclusion for small-scale farmers in the 300\$ billion agriculture market in Africa.

Transfoam (United States): harnessing engineered microorganisms and renewable feedstocks to tackle plastic pollution at the beginning and end of the product life cycle.

Wika Media (Singapore): their solution lets people with hearing and/or visual disabilities learn (educational) and enjoy (entertainment) videos.

Zero Wave (Bulgaria): they turn waste into resources by making a 100% biodegradable tableware and food products from by-product after the production of beer.