1. We offer both an innovative product and new processes to offset the continuous increase of CO2 levels in atmosphere and fix it in the ground. Our idea will transform the excessive amount of CO2 in atmosphere from a problem into a resource. The solution aims to accelerate the quantities of carbon integrated into the ground in the form of organic matter, through innovative soil improvers, based on natural clinoptilolite zeolite and an innovative encapsulation system to directly integrate clinoptilolite and micro-organisms into the soil. Application of biomolecular technologies for microbial characterization and augmentation. Use of optimized coated seeds, inoculated with soil micro-organisms, specific arbuscular mycorrhizal fungi (AMF) strains, PGPR and LAB bacteria. Our proposal aims to develop a more sustainable and effective product, combined with the best conservative agricultural management practices.　 クリノプチロライト系ゼオライトや微生物を使った土壌改良剤により炭素を有機物として土壌に効率的に吸着させ、土壌の改良とCO2削減を同時に実現。
2. An innovative startup from Taranto that produces and markets algal extracts with bio-stimulating properties for sustainable agriculture. These innovative products help crops to increase defenses and resist climatic stress. Engaged for two years in research on the bio-stimulating properties of seaweed, the team has developed a system of cultivation of local open sea seaweed (the first in the Mediterranean Sea) to self-produce the raw material it needs for the subsequent transformation into biostimulants. They also have a chemical analysis laboratory, created for the quality control of their products, chemical analyzes are also carried out in the agricultural field, in particular to monitor the effects of biostimulants on crops.　 生体活性剤を使用し、藻類エキスを生成、気候変動に対する農産物の抵抗力強化につなげる。生体活性剤の原料となる海藻の養殖システムも開発済み。
3. This project has developed an innovative humanized antibody targeting the MET oncogene, with a unique mechanism of action and a best in class agent for MET positive cancer. Strong pre-clinical efficacy can be used in combination therapy, backed by over three decades of research focused on a specific oncogene. The company benefits from a profound knowledge of the biology and pathology driven by the oncogene MET on cancer.　 METがん遺伝子を標的とするヒト化抗体の開発。有望な前臨床効果。
4. This startup is trying to solve a problem called Acute Kidney Injury (AKI). It occurs due to a systemic critical illness, occurring in about 50% of patients within the Intensive Care Units (ICU). AKI leads to a ten-fold increase of mortality rate and 3 B of healthcare costs per year in Italy. The problem is that today it is not possible to detect AKI before it happens, thus limiting its prevention. To solve this problem, U-Care is an innovative medical device that predicts AKI 24 hours before its onset, working as a Digital Biomarker. Combining Artificial Intelligence Algorithms with innovative sensors, U-Care helps the doctor in preventing AKI, saving patient's lives and reducing healthcare costs. U-Care technology has been developed within Politecnico di Torino as part of the research work of the group of Prof. Valentina Cauda. The team will constitute a company at the end of 2020. Winner of Proof-Of-Concept program by Venture Factory (Venture capitalist fund, VV3T Vertis), in January 2020, 50 K funding.　予測の難しい急性腎障害(AKI)が起きる24時間前にその兆候を知らせるデバイス。AIアルゴリズムと独自センサーを組み合わせ。
5. This company develops a unique and innovative medical device: the Heart Damper. The Heart Damper is a minimally invasive implantable cardiac device intended to provide a simple, quick and cost effective solution for patients affected by advanced heart failure, improving duration and quality of life, and reducing healthcare costs for their assistance.　心不全を起こした患者用の低侵襲性、低コスト心臓デバイス。
6. An innovative biotech startup that creates and sells human and animal 3d tissue for regenerative medicine and to test new pharmaceutical products. The products of Prometheus are realized and designed thank to an innovative technology, they are internally created, the 3d Bio-printer: a printer that use cells and biomaterials like ink to realize biological tissues with an high cells vitality.　 細胞や生体材料を原料として3Dプリンターで再生医療や新薬試験のためのヒトや動物の3D組織を生産。
7. This company is leader in atmospheric plasma technology and specializes in designing and manufacturing resource-efficient systems based on proprietary plasma technology. Grinp develops laboratory and industrial scale machinery. Grinp technology unlocks the development of sustainable processes in several fields: textiles, reducing water, energy and chemicals consumption, environmental (decontaminating polluted air and water), plastics (enhancing surface properties for automotive, packaging and flexible electronics). Grinp's ongoing R&I efforts to offer disruptive solutions that cater to customer needs, are based on three key concepts: innovation, performance, sustainability.　 大気圧プラズマ技術を使用した産業機械による空気清浄化、自動車・電子用プラスチック部品の表面加工。
8. This startup offers an innovative ophthalmic solution for the regeneration of corneal tissue, following refractive surgery. In fact, although the prevalence of corneal pathologies following surgery is significant, to date, there are no products to support the post-operative phase to accelerate the re-epithelialization of the cornea, a long and painful process. The company offers eye drops capable of promoting corneal re-epithelialisation following mechanical, traumatic and surgical epithelial loss. Thanks to its composition, HydroBlink forms a protective and uniform layer on the corneal surface, capable of hydrating the eye and facilitating physiological repair processes without altering the optical properties of the cornea.　 屈折矯正手術後の角膜組織の再生のための点眼液。特に機械的、外傷性および外科的上皮喪失に有効。
9. BetaGlue is a highly innovative company engaged in the development of a project based on the treatment of solid tumors and margins of surgical resection with a proprietary bio-compatible ß-emitting matrix, delivered to the target through a dedicated device: both components are classified as medical devices. Our technology is the first to allow a highly controlled administration of radionuclides directly in the tumor mass (or on the surgical bed after its resection). BetaGlue has designed a device to ensure precise delivery of the required dose of energy where it is necessary, thereby overcoming some disadvantages of external beam radiotherapy. The applications of this ß-emitting radiation therapy vary from the intra-tumor treatment of non-tumors resectable or metastatic, to the treatment of surgical margins after tumor removal to avoid local recurrence. Further applications of the bio-compatible matrix are in the prevention of complications following biopsies lung/liver or other loco-regional therapies.　固形腫瘍および外科的切除の切除縁の治療のための生体適合性のβ放出マトリックス・外部ビーム放射線療法デバイス。生検肺/肝臓または他の局所療法の術後合併症防止、低減に有効。
10. This company has develop a circular economy project with the aim of producing natural active ingredients extracted from matrices of vegetable origin from the processing waste of agriculture and agro-industry, with the exclusive use of mechanical and physical processes, without the use of chemical processes and solvents. The products obtained are antioxidant polyphenolic extracts that are used in the nutraceutical, cosmetic, pharmaceutical, food and phytosanitary industry. Further development of the implemented project consists in the production of cosmetics and nutraceuticals for the retail market, made using the polyphenolic extracts of own production.　化学用材等を一切使わず廃棄農産物から化粧品、薬剤などに使用する抗酸化ポリフェノール抽出物を抽出する機械
11. The company concerns biomasses treatment to recover high added-value products suitable for different industrial applications. It fits fully into the concept of circular green economy, because starting from agrifood wastes it is possible to give secondary raw materials such as cellulose, hemicellulose, lignin and chitin. These materials are normally obtained through chemical processes with high environmental impact and energy-intensive conditions (i.e. high pressure, high temperature, strong acids and bases). We would like to propose a new eco-sustainable process using an innovative class of solvents called Deep Eutectic Solvent (DES). Two patents about the biomasses treatment are filled: the first covers the process of lignocellulosic biomasses and the second one covers the biomasses containing chitin. The project has been validated by Switch2product competition, Legambiente and ECRN (European platform S3).

深共晶溶媒（DES）を利用した農業廃棄物からのセルロース、ヘミセルロース、リグニン、キチンの回収。二件の特許を所有。

1. Recover Ingredients researches, develops and produces natural high-quality cosmetic ingredients from circular economy, in particular from inorganic marine biomasses. Our ingredients join high cosmetic performances with top security standards for the safety of consumers and the environment and have a high chemical and microbiological purity as they do not contain heavy metals or microbiologic residues.　 無機海洋バイオマスを原料に、重金属または微生物残渣のない高品質・純度の化粧品用成分を生成。
2. Acquainbrick is the first independent Italian project that offers the market customizable cardboard water, an innovative solution to the use of plastic for disposable bottles. The containers will be traced and subsequently collected and subsequently disposed of by means of enzymatic macerations and with a very low impact, to obtain new technical materials by exploiting the insulating and low conduction potential of aluminum present in the polyacopite. In this regard, the company in collaboration with scientific partners and ready partners such as the national association of Green Chemistry Bionet, will develop new innovative and sustainable materials for their remission on the market. The company also has the aim of developing, promoting and protecting the territory where the activities are located, promoting sustainable consumption and communicating these values through innovative augmented reality technologies.　プラスチック・ボトルの代替品としての紙容器。酵素的浸軟によるリサイクル。高い視認性によるマーケティング効果。
3. The business idea is an innovative approach that can have an important positive impact for the increasing eutrophication problem, well addressed by the so called Nitrate Directive (i.e. Community Directive 91/676 / EEC and in Italy Legislative Decree of 11 May 1999, No. 152 and Ministerial Decree of 7 April 2006), and at the same time, according to a circular economy approach, can guarantee economic drivers implementing the solution proposed. The approach can be summarized as follows:- Removal of nitrogen present in the sewage, manure and digestate.- Stabilization of biological process of anaerobic digestion (if the case).- Contextual recovery of Nitrogen in the form of ammonium ions.- Nitrogen reuse, in a circular economy approach, as a biological (liquid) fertilizer to replace the fossil based one.

下水、肥料、消化物に存在する窒素の除去、嫌気性消化の生物学的プロセスの安定化（該当する場合）、アンモニウムイオンの形での窒素の回収、肥料として窒素を再利用。

1. The company is working on creating a biodegradable and water soluble bioplastic packaging made from fish industrial waste. The project aims to reduce pollution from traditional plastics that are poisoning our seas, meanwhile adding value to fish waste. It is a circular economy business model: our product is obtained from a secondary raw material and does not pollute once is melted in water. Even though it comes from fishe it is completely transparent and odourless. Unlike other bioplastics currently on the market, it does not need to grow vegetable crops, but enhances waste by transforming it into a resource. The main outcomes of our market entry will be: reduction of traditional plastic usage, reduction of marine litter, decreasing risk for aquatic fauna and, in the long run, decrease the percentage of plastic particles into cities water networks.　 魚屑を原料とするプラスチック代替物。透明で無臭。魚屑とプラスチック廃棄の低減による環境改善。
2. SBS Steel Belt Systems (founded in 1984) is an engineering and production company specialized in the design and manufacturing of steel belt systems for continuous industrial processes. SBS has 53 employees and 13.8 million Euro in 2018 with 2 plants. SBS counts more than 500 installations all over the world. Recently, SBS realized the opportunity in mixing to Sulphur & bentonite also organic waste to produce a new ORGANIC-MINERAL FERTILIZER for a sustainable recovery of soils. To scientifically study this new type of fertilizer an agreement was signed with the Mediterranea University of Reggio Calabria - Agronomic Department. The organic-mineral fertilizers are:1.Green & Circular Economy product: because the organic waste material is recycled 2.Organic-mineral product: because there is NO chemical transformation, but only physical [processing.Org](http://processing.Org)-mineral fertilizers substitute the chemical fertilizers and deliver a productivity up to +30%. 　有機廃棄物、硫黄とベントナイトを成分とする環境にやさしい有機鉱物肥料を生産。化学肥料に比べて30%高い生産性。
3. An innovative startup founded in 2018. Its mission is the development of enzymes and plants, including microalgae, specifically designed to meet the needs in several manufacturing sectors. Enerzyme first product is CELL-GAS, a patented mix of thermostable cellulolytic enzymes produced from microalgae specifically designed for the biogas sector. Enerzyme has developed CELL-GAS, a mixture of thermostable cellulolytic enzymes produced from microalgae, which is able to boost the digestion of plant biomass to increase biogas production. This product was conceived to improve the performance (with an estimated gain in profit of 500/day) of biogas plants fed with biomasses (estimated to be 6.800 in Europe, located mainly in Germany and Northern Italy), thus promoting the competitiveness of the sector. Furthermore, Enerzyme aims at developing crops able to produce by themselves the cellulolytic enzymes needed to increase their energetic potential to be delivered to the bioethanol market.　微細藻類から生産された熱安定性セルロース分解酵素によってバイオマスが活性化、発電を効率化。特許あり。
4. The company produces the unique autologous, patient-specific bioengineered human skin for the complete regeneration of deep and extended skin damage.　 広範囲の皮膚損傷を再生するために、独自の患者固有の生体由来の皮膚を製造
5. An innovative spinoff of the University of Catania whose services are aimed at the development, production and marketing of innovative high-tech services in the pharmaceutical, nutraceutical, cosmetic and veterinary sectors. Its activity is aimed at the study, research, design and formulation of innovative molecules, or their mixtures, capable of performing a beneficial action on the mitochondria of healthy cells or a therapeutic action on the mitochondria of cells affected by various pathologies, such as neurodegenerative diseases, currently incurable and with high social impact such as Alzheimer's disease, Parkinson's, Amyotrophic Lateral Scleris, Huntington.　カターニャ大学のスピンオフ。 健康な細胞のミトコンドリアに対する効用、または様々な病状の影響を受けた細胞のミトコンドリアに対する治療効果のある革新的な分子、またはそれらの混合物の設計と製剤。神経変性疾患、アルツハイマー病、パーキンソン病、筋萎縮性側索筋、ハンチントン病などを想定。
6. In Europe 4 million tons of used cooking oils (UCO) are produced per year, of these only 5% is collected. The rest is wrongly disposed of, polluting our environment. REWOW T valorizes this waste product through a biotechnological process to produce bio-based materials which can find application in different fields. REWOW's idea solves 2 problems: the improper collection of UCO and the unsustainable production of fossil-based materials. Bio-based materials are competitive compared to fossil-based products. he global bioplastics market accounts yearly to approximately 1 billion euros. Our goal is to reach 0.001% in ca. 3-5 years. REWOW is based on business-to-business marketing where the bio-based materials will be sold to other companies to produce finished materials.　欧州で年間400万トンに達する使用済み食用油に独自の処理を行い、さまざまなバイオベースの材料を生産します。
7. This company exploits extracellular vesicles (EVs) and their biological content to develop novel tools and platforms for detection of disease biomarkers of clinical utility. Through the exploitation of novel technologies allowing high throughput isolation and analysis of EVs, AEVA biotech aims at providing novel solutions for fast and accurate molecular diagnosis of solid tumors with unprecedented resolution using non-invasive liquid biopsies from patients.　 細胞外小胞（EV）とその生物学的成分を活用して、疾患バイオマーカーを検出。患者からの非侵襲的液体生検を使用し高解像度での固形腫瘍の迅速かつ正確な分子診断。
8. The worldwide production of tens of thousands of chemical compounds, including the so-called base, specialty and consumer chemicals, boasts an annual turnover of over 3.5 trillion euros. Oil, coal and natural gas are certainly the raw materials used for these productions. However, most of these compounds can be obtained thanks to the biological transformation of (not edible) biomasses. Despite the important progress already achieved in this sector, it becomes important (i) to further expand the range of new compounds obtainable by biological transformation and (ii) to greatly reduce both costs and production times so that these processes are sustainable not only for the environment, but also economically. We are developing bioprocesses for the direct production of bioplastic, 100% bio-based and 100% compostable, using new microorganisms. Patent application is currently under evaluation.　化石燃料を使った化学素材をバイオ素材で代替する研究。 新しい微生物を使用した100％バイオベース、100％堆肥化可能なバイオプラスチックの生産プロセスを開発。 特許出願中。
9. The outcomes of neurodegenerative diseases and serious traumas of the nervous system are incurable. Therapies currently available are aimed at limiting damage and attempting to induce compensatory responses by the entire portion of the damaged nervous system. The social-health problem, which arises from the lack of resolving treatment, is serious, unresolved and involves enormous suffering and social costs. The mission of the CNR spin-off company ProNeuro is very ambitious: to identify and develop drugs that allow the damaged nervous system to resume functioning properly, limiting or avoiding the development of serious and permanent disabilities. Our vision is that of a biotech Pharmaceutical Research and Development company, able to provide solutions to dramatic and unresolved social needs, through a business based on the ability to discover original, innovative and constantly developable solutions for pharmaceutical companies interested in developing and selling products for neurological diseases.　 損傷した神経系が適切に機能を回復できるようにする薬の開発
10. The activity of BH-STARTUP is based on development of the registered industrial patent, a biodegradable and bio-compatible hydrogel placed in the soil accumulates water and then releases it slowly, therefore it can support plant sand seeds in the early stages of growth. The company intends to propose products for the retail and industry market, which favor innovative forms of agriculture characterized by reduced chemical and energy input, recovery of microbiological activity and soil fertility.　 土壌に置かれた生分解性および生体適合性のヒドロゲルは水を蓄積し、その後ゆっくりと放出するため、成長の初期段階で植物の種子を保護する。化学物質やエネルギーの投入量の減少、微生物活動の回復。