



**INNOVATION  
DRIFT**

**EXHIBITION  
CATALOGUE**



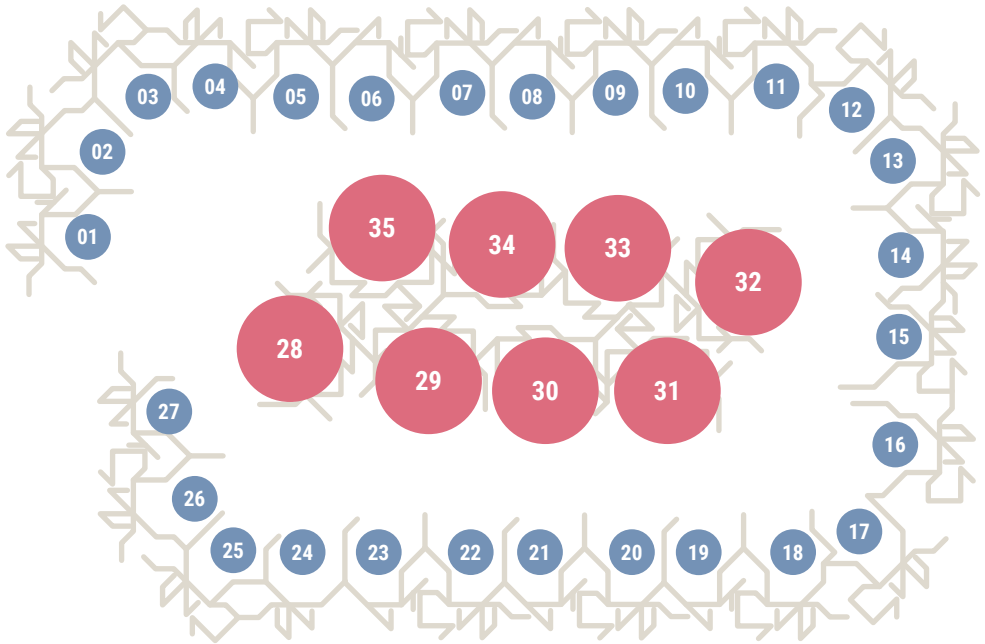
# WELCOME

We feel that the globalization of product and service markets is accelerating. Lithuanian companies as well as Europeans face increasing competition not only for sales, but also for technical know-how and skills. It is important in the long period to foster business investments in R&D and innovations, to bridge the gap between research and market by helping innovative enterprises develop their technological breakthroughs into viable products and services. Lithuania has to innovate and be a country of success.

I am sure that young Lithuanian entrepreneurs are on a right way. A lot of start-up companies with brilliant ideas are now been established in Lithuania. I strongly believe that they create innovative products and will enter the global business. In the exhibition of Vilnius Innovation Forum the most promising technological start-ups are presenting their products. You can discover a number of innovations, new technologies, and prototypes. All information about participants of exhibition you can find in this catalogue, which is a guide for you, facilitating the navigation and providing necessary contacts.

I hope you will enjoy your time visiting the exhibition!

Arūnas Karlonas  
*Director*  
*Agency for Science, Innovation and Technology*



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# TOYBIC

New generation personalised toys. It gives a platform for creating personalised toys and then printing by a 3D printer. With a help of an online application users are able to select one of the templates and change design and other characteristics according to their preferences. Users can simply order/buy the toy they created or print its certain elements by a 3D printer.

Remote-controlled car model with extra parts to be chosen in the graphical environment. A toy provided with features: war, race and other game scenarios using a camera, speakers, Wi-Fi, infra-red and other technologies.

Ignas Talalas | director

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# GLOBALIOS TECHNOIDĖJOS

JSC „Globalios technoidėjos“ – is a company that was born from passion to create. We are private inventors and creators. The company is developing two inventions, and have much more ideas for the future. Company is trying to create better, greener environment for all of us. During the first year we achieved:

- European patent pending for two inventions
- Took part in KIC InnoEnergy 2015 forum
- Took part in Climate Launchpad 2015 forum

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# INTERACTIO APP

Interactio - mobile application that fully replaces simultaneous interpretation equipment in multilingual events. Interpreter only needs a laptop with a connected microphone and attendees listen to translation using their smartphones. Interactio application may also provide feedback from the participants and creates a spot for the additional information about the event or the speaker.

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# IDĖJA 3D

We offer 3D printing and 3D scanning services. "IDĖJA 3D" can help you design, improve your ideas and bring them to life.

3D printing is a technology which allows 3D digital model to be printed into a real solid object in a short period of production and for affordable price. An object is created by laying down successive layers of material until the entire object is created. With this technology it is possible to create complex form, which otherwise would be nearly impossible to achieve.

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## SEMSEYE

SEMSEYE - intelligent embedded systems for IoT environment, people counting and retail analytics, provided as unique business model - "Counting as a service" (IaaS & SaaS). SEMSEYE delivers MLA (Mobile Location Analytics) based on Internet connected devices enabling retailers, real estate owners (such as shopping malls, airports, bus or train stations etc.) to track and analyze customers' behavior, proactively support on decision-making processes and get report analysis.

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## KOMPIUTERIZUOTI SPRENDIMAI

We want to help you to get more value with IT: products, services, consulting and training. Our most innovative products are:

1. Kindergarten system.
2. Secure and easy login/authentication/identification/payment by scanning QR code via smartphone.
3. Medical diagnosis - Parkinson's disease, vocal cords, some allergy via smartphone or skin problems via photos in development stage.
4. More accessible/findable/understandable legislation to general public.

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## LEVELON

JSC "Levelonas" - a young but ambitious company that has developed a system "LEVELON".

This system is designed to measure the fluid level in the reservoirs, as well as to measure the liquid level and volume of different size and shape tanks, reservoirs, wells, and to inform consumers about the actual level (volume) changes via GSM network.

Companies developed solutions save up to 10% of fuel expenses for our customers, does not leave customers without fuel during the busy season and generates clear reports on fuel consumption.

JSC "Levelonas" courageously adopts new challenges and willingly are looking for the best solutions to maximize customer's satisfaction.

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## BREATHCOUNT

We prevent asthma attacks so that the patient should not have to limit oneself to avoid them.

We prevent asthma attacks using monitoring. Current monitoring devices were designed 60 years ago and require pen, paper and calculator to use. That's why Breathcount is a smart device that sends your measurement data to your smartphone and personalizes it, sends for your doctor, parents, etc.

There are 256 M asthma patients worldwide and 60% of them are children. 15.000 people are diagnosed with asthma daily.

Visit us in social media and support education about the illness.

Povilas Sidaravičius | director (CEO)

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# VILNIUS iGEM

Product: "Coliclock"

We are Vilnius iGEM team, supported by Vilnius University and the Institute of Biotechnology (Vilnius, Lithuania).

Our goal is to tackle one of the biggest problems of Synthetic Biology – the regulation of the spread of GMOs in the environment. The aim of the ColiClock project consists of creating a bacterium with an integrated "count-down timer" triggering a self-destruction mechanism. The idea would apply to cells that need to have a limited lifetime outside of a laboratory environment.

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## ESG

ENERGETIKOS SPRENDIMŲ GRUPĖ

# ESG

Our team has years of experience working in an energy sector. We provide high quality services for power grids (electricity, water, gas and heating) and industrial companies. Our specialists work in collaboration with expert industry partners and have a strong relationship with high quality and reliable suppliers of energy products. Energy Services include:

- Monitoring the physical processes;
- Development of control systems (hardware and software);
- Analysis;
- Consulting;
- Control solutions/algorithms;
- Energy management and efficiency programs.

Clear vision and strategy lead us to strong market positioning with reputation as a trustful partner in creating energy products.

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## LED AKIS

UAB Ledakis is a new spin-off company established by Vilnius University scientists. The goal of the company is to commercialize an innovative design of compact-sized daytime running lights (DRL) for bicycles.

Visibility on the road is an essential factor for the safety of any vehicle. DRL are conventional yet effective solution already used widely for cars and with lots of potential for bicycles:

- Lamps are two units in handlebar grip ends for best visibility.
- Efficient light distribution for the traffic.
- Lamp dimensions are extremely small.
- No additional visible parts (e.g. wires, battery case) on the outside.
- Easy installation.

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## NANOAVIONICS

NanoAvionics, JSC – is an aerospace company founded as a spin-off from Vilnius University, Lithuania. Founders of the company are members of successful first Lithuanian CubeSat project LituianicaSAT-1 which was one of two first European CubeSats launched from International Space Station. Company is focused to deliver following services and small satellite systems solutions:

- Highly integrated CubeSat bus which combines flight computer, ADCS and communication sub-systems all on one single PCB;
- Propulsion technologies based on non-toxic “green” monopropellants enabling high impulse orbit transfer, drag compensation and de-orbit maneuvers for small satellites;
- Small satellite TT&C solutions for unmanned aerial vehicles.

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# PERSIMONAS

Interactive video-advertisement stand is created for Interactive stands which are adapted for shopping centers, offices, universities, hospitals etc. They are a transmission of video ads, recording and representing statistical data about the consumers who watched the advertisement and transmitted the ad for target audience.

Consumer analysis system records statistical data about consumers who watched the advertisement.

Interactive stands are adapted for shopping centers, offices, universities, hospitals etc.

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# LEDIGMA

Ledigma LLC is a Vilnius University spin-off company dedicated for commercialization of smart solid-state (LED) lighting technologies developed by scientists of Lighting Research Group and by collaboration with 3rd parties. In particular illumination systems for art, retail, fashion and film industries are of primary interest. Human-centric lighting controllers with wireless connections embedded into luminaries are being developed for Windows, Android, iOS operating systems or unified HTML interface.

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# BIOANALIZĖS SISTEMOS

Biosensors are bioanalytical systems that selectively respond to one of thousands of compounds in complex media solutions. Such electrochemical systems work on principle of enzymatic substrate specificity; they are being used frequently in devices such as portable glucose in blood meters.

Our activities involve creation and service of bioanalytical systems based on biosensors. Our founders and employees are researchers from Institute of Biochemistry of Vilnius University – experienced scientists working with biosensors, capable of producing over 30 types of biosensor electrodes and dedicated automated analytical systems. Such systems measure glucose, urea, lactose, ethanol, etc. in various media – blood, milk, industrial waste, etc.

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EKOMAS

# EKOMUNIKACIJA.LT

Efficient time and cost reduction for Your Business

ekomunikacija.lt – virtual meeting and remote training system including customer service.

It's a system of communication by Internet providing opportunity to communicate with your colleagues, partners, project teams, customers, managers and others easily and comfortably without need to leave your office or home.

Also it's a channel of sales and promotion as well as information sharing including e-shop services.

Furthermore our team can digitize learning stuff and prepare it according to fast learning technique.

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# FĖJANA

The company develops a product for intelligent lighting and energy management that provides intelligent services based on indoor positioning of residents and assessment of their physiological parameters. These services have the ability to adapt to the specific housing needs and habits of residents. The products developed by the company and the scope of its qualification covers the development of intelligent systems from hardware level (design and prototyping of specialized IoT microcontrollers) to software level (development of specialized IoT and cloud computing software).

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# FEMTIKA

Femtika is a Vilnius University Laser Technology spinoff company. Company is equipped with deep working knowledge in the area of laser based precision microfabrication in transparent materials. Femtika is targeting to supply growing worldwide demands of available tools and technologies enabling true 3D laser fabrication, with custom design components in micro- and sub micro scale.

Laser Nanofactory:

- Milli to Nano Resolutions
- Precision Microfabrication
- Two Photo Polymerization
- Software for 3D Processing

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# HOLTIDA

JSC "Holtida" specializes in the development of unique optical document security products that ensure authentication. JSC "Holida" is a spin-off company established in 2014, which continues to build on the 20 years of experience and expertise a team of researchers developed in this area. Following orders from state institutions and commercial structures the company creates and manufactures optical security products for document and good protection including hologram labels; it uses advanced technologies such as interference (dot matrix) hologram lithography, electron beam nanolithography, optical microlithography, vacuum and electrochemical coatings technology and other emerging nanotechnologies.

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# ADPOS

UAB „Pažangūs pozicionavimo sprendimai“ (ADPOS) is an R&D and consulting company in Lithuania and a spin-off from Kaunas University of Technology. Our company mission is to make high-tech mechatronics solutions affordable and easy to use. Our company vision is to be worldwide recognized company providing innovative solutions.

Company activity areas:

- Innovative solutions, design and development of mechatronic systems;
- Design and development of technological solutions for space and aeronautics;
- Design and development of systems of energy-efficient and renewable natural resources;
- Development and commercialization of engineering products and solutions.

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## VAI KAI

Vai Kai is a Berlin-based startup, aiming to change the way today's children grow up in a connected world. Our first product—Avakai are wooden dolls that use technology to emote, communicate and react to their surroundings.

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## VIATENDER

Viatender.com is a B2B cloud based tool for efficient procurement management. It is an integral part of buyers and suppliers co-operation eco-system. It remarkably increases productivity of entire procurement process (submission and approval of internal requests, tendering, contracts, supply catalogs management and purchasing orders submissions) for both – buyer and supplier – parties at all-in-one viatender.com platform.

Furthermore, the system is accustomed for integration of e-invoicing, automated accounting processes adoption and ERP.

In the near future suppliers will be able to manage their e-catalogs and offer to each buyer dedicated version with different level of access and pricing through the system.

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## ICUS

New security system RAKINK assures calm and safe life for many people due to system allows to check whether doors are locked or not and when it was done, thus detect any threats and secure the property.

RAKINK is an innovative door lock monitoring system, created by JSC ICUS LT, that allows tracking door lock status remotely on a mobile phone or web application on real time. RAKINK is designed for people living in flats or houses, as well as for legal persons, organisations, commercial landlords, who wants to be sure that at particular moment the doors are securely locked.

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## mCITY

mCity is a full suite of IT solutions to make your city more efficient. It includes mobile apps plus all back-end and front-end solutions for parking and public transport ticketing.

Every element can be installed separately to fit your specific needs. Customizable apps for users and inspectors along with integrated systems for managing payments and fines.

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## METANOJA

Cellulose nano-crystals and bio-composites are derived from hemp fiber using ultrasonic method. The idea solves pollution problems by extraction of cellulose nano-crystals from natural cellulose materials. Cellulose nano-crystals and materials are competitive in price, environmentally friendly, and also could offer: sustainable materials economy, reduction of carbon dioxide, easily recycling or recovering of products, ecological products that would be not dangerous for humans and nature. 1-3% cellulose nano-crystals admixtures in polyethylene terephthalate (PET) plastics influence the package of the product of about 30%, when package becomes more robust, this allows to reduce plastic consumptions. Nano-crystals of cellulose could be used: bioplastic industry, heating of organic materials, mortars, textile, automotive, aerospace industry, and so on as for example - carbon fiber alternative.

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## PROBIOMAS

MB Probiomas is Lithuanian research company that develops supplements enriched with probiotic bacteria. Probiotics are beneficial bacteria favourably alter the intestinal microflora balance, inhibit the growth of harmful bacteria, promote good digestion, boost immune function and increase resistance to infection. Absence or lack of probiotic bacteria will reduce immune system and intestinal barrier against pathogenic bacteria. Addition of probiotics in food industry is a way to enhance the functionality of consumed product. MB Probiomas mission is to develop the best food product enriched with probiotic bacteria which will have beneficial health effects.

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# LOKACIJU SISTEMOS

DATAMUSE is a new innovative platform that enables businesses like yours to obtain high-end data about your customers and goods. DATAMUSE allows you to utilize this single integrated storage feature to monitor, record, predict and analyze customer's locations, preferences, trends, needs and future "wants". Besides it is an advanced user-friendly indoor and outdoor location tracking technology that is based on RFID and NFC. It offers integrated and accurate solutions to support you in managing your business and making informed decisions.

DATAMUSE is designed for businesses that pay attention to details and aspire to wow customers and achieve performance excellence that enhances brand value as well as financial results.

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# MITA

Agency for Science, Innovation and Technology (MITA) is the main governmental institution implementing innovation policy in Lithuania. It aims to bridge the gap between business and science and create a favorable environment for entrepreneurship in Lithuania. MITA provides services for clients interested in developing strong relations with international partners and getting financial support for innovation and R&D projects. MITA presents Electronic Science Gateway (E-science gateway) – a new portal, where business meets science. This portal helps Lithuanian and foreign business to find each other and order different services: scientific research, specific inventions, feasibility studies, technologies, new methodologies, prototypes of products.

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## LIC

Lithuanian Innovation Centre is a non-profit organization, providing innovation support services to enterprises, research institutions, industry associations and business support organisations. Its mission is the provision of the innovation policy. The main strategic goal of LIC is increasing Lithuanian international competitiveness by stimulating innovations in business.

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## SUNRISE VALLEY

Sunrise Valley constitutes neighborhood of academic campus: Joint Life Science Center, the National Center for Physics & Technology, institutes and laboratories of Vilnius University and Vilnius Gediminas Technical University.

Sunrise Valley STP provides a range of services to support entrepreneurship, innovation and technology transfer, and the development of technology-driven businesses clusters. Sunrise Valley offers premises in the science and technology park and business incubator facilities for start-ups and university spin-offs.

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# KLAIPĖDA STP

Challenges of the global economy and scopes of innovation culture development enhanced science and business collaboration in the Klaipėda region and necessitated foundation of the Science and Technology Park. The Klaipėda Science and Technology Park (KSTP) was founded on September 6, 2002 in cooperation of Klaipėda University and the Ministry of Economy of The Republic of Lithuania. The mission of the KSTP is to promote the development of modern scientifically susceptible technologies, to provide infrastructural and consulting services for innovative enterprises and business ideas in the western Lithuania and in the whole country.

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# NORTHTOWN TP

Northtown Technology Park (NTP) is a high technology business centre for start-ups, young and receptive to knowledge and science businesses to start up and to grow by providing them high quality innovation support services and different types of business consultations. The tool of NTP success is a complex collaboration, which comprises relationships between universities, research organizations, technology business, the capital market and government organizations. In strategic collaboration projects with state authorities and universities NTP has assembled a good practice, which is reflected in the received awards. From NTP inception, many companies have expanded and become good examples of thriving business. The achievements of NTP are evident indicator in the promotion of innovation business, creating favourable innovation infrastructure.

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Kaunas Science and  
Technology Park

## KAUNAS STP

Kaunas Science and Technology Park is the largest partner of science and business cooperation in this Baltic country. More than 300 incubated to the date with a success rate exceeding 90%.

Today, we integrate more than 80 companies from IT sector, high tech sector, consultancies, advertisement & publishing companies and associated members. Kaunas Science and Technology Park is an experienced and qualified partner to more than 50 science institutions and business associations from 23 countries.

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## FIMTP

Science and Technology Park of Institute of Physics (STP) is a non-profit organization active in the photonics and laser engineering fields of physical and technology sciences, innovations, knowledge society, as well as collaboration of science, studies and business. Implementation of research results and promotion of cooperation between science and industry are main activities of the STP. It is located in a strategic place in Vilnius which is the capital of Lithuania where financial and industrial potential is concentrated.

STP is acting as the technological business incubator in its activity areas – lease premises to incubated enterprises under favorable conditions and render services of business management, information, consultations, qualification training and accounting.

STP operates as a coordinator for the laser and engineering technologies cluster LITEK.

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# VITP

Visoriai Information Technology Park (VITP) – upcoming knowledge economy centre in the field of information and communication technologies. The main goal of VITP – develop favourable infrastructure for the establishment of new businesses and growth of existing ones. VITP seeks to provide comfortable environment for commercialization of R&D activities and integration of business, science and studies.

Visoriai is prospective location for new knowledge economy centre for few more seasons: Institutes of Biotechnology and Ecology are also based in the same district; next to Visoriai is located the largest centre of medical institutions and hospitals Santariškės, laser and biotechnology companies are operating in neighborhood.

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