**Study visit to Brussels**

***3Revolution: Reduce – Reuse - Recover***

**18th – 19th April 2018**

Profiles of polish organisations participating in the event:

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[HiProMine S.A. 3](#_Toc508879921)

[Ikea Retail Sp. z o.o. 4](#_Toc508879922)

[Płocki Park Naukowo – Technologiczny S.A. 5](#_Toc508879923)

[Institute Biopolymer and Chemical Fibres 6](#_Toc508879924)

[Institute of Geography and Spatial Organization Polish Academy of Sciences 8](#_Toc508879925)

[The Polish Geological Institute (PGI) – PIB 9](#_Toc508879926)

[Synthos S.A. 10](#_Toc508879927)

[Podlaskie Regional Office 11](#_Toc508879928)

[Podkarpackie Region 12](#_Toc508879929)

[The National Fund for Environmental Protection and Water Management 13](#_Toc508879930)

[KGHM Polska Miedź S.A. 14](#_Toc508879931)

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[Institute of Environmental Protection – National Research Institute 16](#_Toc508879933)

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[Centram Mining Institute (Główny Instytut Górnictwa) 24](#_Toc508879940)

[Wroclaw University of Science and Technology 25](#_Toc508879941)

[Century House Sp. z o. o. 26](#_Toc508879942)

[Elektrorecykling Sp. z o.o. 27](#_Toc508879943)

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| **Organisation** | Biotrem Sp. z o.o. | H:\00_General\2018_04_18-19_Study_VISIT_Środowisko\LOGO\Logo_uczestnicy\Biotrem_Logo_PANTONE_Orange021C-5a9d1926e35f0.jpg |
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**Description of your Organization**

BIOTREM technology – globally-unique, innovative and patented, sustainable  
method of processing by-products of the milling industry. Using modified servo-presses, the technology, allows moulding wheat-bran into designated forms. After processing the mouldings gain market value as biodegradable packaging. Their main application concerns disposable tableware or foodservice take-away-containers. Biotrem packaging products are  
simultaneously bio-based, biodegradable within 30 days, use annually renewable  
agricultural side-products and are free of chemical additives. The above characteristics position Biotrem product line as a premium offer with environmental standards beyond its market counterparts. Biodegradable packaging , as market research show, is the fastest growing niche of the packaging industry – a business opportunity the project plans to exploit, as it  
provides products that meet a demand generated by both legislation (imposing decrease of packaging waste) and consumer trends (environmentally conscious attitude).

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| **Organisation** | HiProMine S.A. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logo-no-text-5a9fb2bf77534.png |
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**Description of your Organization**

HiProMine is a Polish agri-tech startup developing innovative solutions for industrial production of insect biomass as a novel, sustainable protein source.

Company was established in 2015 by a team of Polish scientists within Bridge Alfa project. Over 3 years within 4 EU-cofounded R&D projects company has developed an unique portfolio of innovative technologies of insect production, rearing, breeding and processing (6 patents pending, 3 patent applications in preparation). HiProMine is an Executive Member of Brussels-based IPIFF (International Platform for Insects as Food and Feed) responsible for development of Good Hygiene Practices for the insect industry.

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| **Organisation** | Ikea Retail Sp. z o.o. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/IKEAlog_col-5a9e7b47bdb35.jpg |
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**Description of your Organization**

<http://www.IKEA.pl>

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| **Organisation** | Płocki Park Naukowo – Technologiczny S.A. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/PPPT-pion-logo-CMYK-5aa12977024ee.jpg |
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**Description of your Organization**

The Płock Industrial and Technological Park is a functional and investment area offering grounds and facilities for industry, technology and R & D. According to our motto: “All business in one place” the staff of the Park are making efforts every day to create a better place for business and technology development in Płock, ready to facilitate contacts both with local and global clients.

Currently, around 130 hectares of the investment grounds located within administrative borders of the city of Płock are equipped with all the media and facilities necessary for running businesses of various types. When planning investment in Płock you can expect professional help including technical and technological support, as well as comprehensive pre-investment assistance.

Together with the Łódź Special Economic Zone we have joined efforts to convert the PPPT’s investment grounds III – VI into a special economic zone, as a result of which investors would be entitled to an income tax holiday.

PPPT is also a leader of local community in creating a numerous projects. We engage local companies to our training programs to increase the awareness of new technologies or new methods of management.  
PPPT is also engaged in promoting local start-ups and helping young companies to establish their activities both on polish and European markets.

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| **Organisation** | Institute Biopolymer and Chemical Fibres | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/Logo-_IBWCh-5a9fee7bb2a4f.jpg |
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**Description of your Organization**

The Institute of Biopolymers and Chemical Fibres (IBWCh) specializes in R&D aimed at: biopolymers, functional thermoplastics including biodegradable, bioprocesses in modification and processing of polymers and fibres, biomaterials for medicine, agriculture and technique, nanotechnology, processing of synthetic polymers into film, fibrous nano-and micro-materials, non-woven and other products, paper technology, environment protection. Development works aim on the implementing of research results in medicine, agriculture, textile and plastic industry, packaging, pulp and paper industry.

Human resources potential: 109 Persons in total, 57 researchers including 13 postdocs and 3 professors.  
In the organizational structure of the Institute exists a functional administrative support system adapted to the specifics of the Institute's scientific activity and supporting the work of the scientific staff by carrying out activities related to the administration and management of projects, including comprehensive financial- accounting services as well as human resources and payroll services.  
International cooperation.

The Institute of Biopolymers and Chemical Fibers for many years has well-established international cooperation, including research entities from the European Union. This cooperation is based on the bilateral agreements, international agreements and EU projects. Within of international cooperation, the Institute's strong R & D position was established in a number of areas, such as:

• biopolymers  
• alternative technologies of fiber production  
• biomaterials for medical applications  
• biotechnology in polymers and fibers  
• special synthetic fibers.  
• polysaccharide fibers and films  
• nanotechnology for textile industry  
IBWCh participated in the following Framework Programs:  
4 FP UE:  
1. Biotransformation of cellulose and possible practical product applications - EC-Programme INCO COPERNICUS

5 FP UE:  
1. New environmentally friendly technology for high added value cellulose- chitosan three dimensional objects -NAS SPONGE  
2. Biomedical textiles from dibutyrylochitin and chitin– CHITOMED  
3. Advanced chitosan modified proactive biobased cheese packaging. – NAS BIOPACK  
6 FP UE:  
1. Biotechnological process for manufacturing cellulosic products with added value. – BIOCELSOL  
2. The European Polysaccharide Network of Excellence.– EPNOE  
7 FP UE:  
1. Marie Curie – Initial Training Networks – Shaping and Transformation in the Engineering of Polysaccharides. – STEP ITN  
2. Expanding EPNOE leadership towards Food and Health related materials and increasing industrial participation - EPNOE CSA  
3. Wood based materials and fuels - WOBAMA  
ERA NET IB programme:  
1. Novel carbohydrate modyfing enzyme for fibre modification- ELMO  
2. Development of tailor-made PHB composites for technical applications - PHB2MARKET  
COST programme:  
1. Bioprocessing of cellulosic fibres. COST 847  
2. Pro-ecological manufacture, use and utilization of fibers and textiles. COST 628  
NATO programme:  
1. Thermoresistant Polyester Fibres and Resins. NATO Science for Peace  
ERA – NET MATERA programme:  
1. Bioactive Nanocomposite Constructs for regeneration of Articular Cartilage- BioNanoCore  
2. Advanced Cellulose Materials - AdwanCellMat  
EUREKA programme:  
1. Nano-functionalised tampons for gynaecological use NanoFunTampons  
2. New composition materials from recycled paper for packing, furniture and interior design components  
Horizon 2020  
1. Industrial Feather Waste Valorisation for Sustainable KeRatin based Materials - KaRMA2020

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| **Organisation** | Institute of Geography and Spatial Organization Polish Academy of Sciences | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logo_igipzpan-5a97f4c6d46cb.jpg |
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**Description of your Organization**

The Institute is an important research centre in Poland in the fields of socio-economic geography, physical geography as well as spatial organization. Within the framework of the Institute, the Central Library of Geography and Environmental Protection is operating, this being one of the largest library centres of the kind in the world. The IGiPZ PAN’s special asset is an active involvement in international scientific collaboration that, in recent years, have resulted in participation in more than 50 scientific and practical programmes and projects. In addition, in the last decade there have been ca. 200 national research and practical projects, expert evaluations, etc., which have been carried out by the IGiPZ PAN.

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| **Organisation** | The Polish Geological Institute (PGI) – PIB | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/lpgo_pgi-5a9d14e9751f8.png |
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**Description of your Organization**

• Comprehensive studies of the geological structure of Poland  
• Geological, geoenvironmental and hydrogeological mapping  
• Evaluation of national minerals resources potential  
• Evaluation of quality and resources of groundwaters including mineral and thermal waters  
• Monitoring and analysis of wide spectrum of geological issues of the natural environment, including groundwaters  
• Acquisition, storage, processing and dissemination of geological and geoenvironmental information on the entire territory of Poland, including the marine sea  
• Expertise on a wide array of geological issues for the state administration and self-governments

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| **Organisation** | Synthos S.A. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logo-SYNTHOS-RGB-5a90036a81e4b.jpg |
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**Description of your Organization**

Synthos is the largest European manufacturer of synthetics rubbers and expanded polystyrene (EPS) and one of the world’s largest manufacturers for this group of plastics in the world. In its manufacturing sites in Poland, the Czech Republic, France and the Netherlands it employs over 3.500 people and produces sophisticated products for a wide range of customers, including from the automotive, construction and packaging industry. The Synthos Group is headquartered in Poland

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| **Organisation** | Podlaskie Regional Office | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/Logo-Podlaskie-5a93c81fd8a71.jpg |
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**Description of your Organization**

Regional Office of the Podlaskie Voivodeship in Brussels.

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| **Organisation** | Podkarpackie Region | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/podkarpackie-forma-podstawowa-infinite-possibilities-5a9ea9b5213a8.png |
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**Description of your Organization**

One of Polish regions.

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| **Organisation** | The National Fund for Environmental Protection and Water Management | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/Logotyp-07-5aa14cfc412e3.jpg |
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**Description of your Organization**

The National Fund for Environmental Protection and Water Management (NF) has an unique character on global scale and plays a key role in financing environmental protection in Poland. To show the scale of its activity: the National Fund allocates approximately 1.2-1.4 billion euros per year to finance environmental projects - half of it is European funds and another half is its own funds. Since 1989 when it was established, the National Fund co-financed investments of total value of nearly 50 billion euros.

The National Fund supports the state ecological policy in many areas. It mainly contributes through grants and preferential loans. Among supported projects are investments in circular economy, waste management, energy efficiency, renewable energy sources, as well as water and sewage management. It is worth to mention the National Funds’ pilot project dedicated to five municipalities which want to develop circular economy solutions on their area.

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| **Organisation** | KGHM Polska Miedź S.A. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logo-jpg-5aa233b709fcb.jpg |
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**Description of your Organization**

Knowledge and teamwork – are the corporate pillars on which KGHM has been building the position of a leader in copper and silver production for 55 years. As a modern and global organisation it influences sustainable development worldwide. KGHM engages in the extracting and processesing of valuable natural resources with the largest Euopean deposits of copper ore located in the south-western part of Poland right in the heart of its catchment area. Owing to its vast experience, openness and constant improvement of competencies, the company has built a unique culture of teamwork ranking high on the international arena. Knowledge-based experience in technologies and processes combined with employee competencies constitute the most precious resource of KGHM and provide the foundation of the company value. All this contributes to the growth of the company as an environmentally friendly, socially sensitive and inclusive corporation. Knowledge-based experience is also instrumental in discovering new sustainable methods of extracting and processing natural resources.KGHM ranks among the world\'s best producers of silver and copper. Apart from these metals, KGHM also produce molybdenum, nickel, gold, palladium and platinum. It is also the only company in Europe producing rhenium and ammonium perrhenate from its own resources. KGHM plans to join the biggest multi-resource companies in the world. KGHM cultivates its reputation of a reliable producer, a trusted business partner and a company with a sustainable development policy. KGHM is also a responsible employer acknowledging and recognising the commitment and cultural identity of its employees around the world. The company employs a total of 34 thousand people who believe that their work is important to the world. Without their expertise, integrity and courage precious metals would hardly reach the global market and make sustainable development possible.

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| **Organisation** | IZNAB SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/IZNAB_logo-5aa2559b7b28f.png |
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**Description of your Organization**

IZNAB Sp. z o.o. (IZNAB) is an dynamic engineering-consultancy SME, focused on Cost-Effective processing technologies for Energy-efficient Buildings, Smart & Green Transport, Clean & Green Energy, Environmental and Nano-Bio-Technology applications. IZNAB headquarters is located in Warsaw, Poland.

The goal and strategy of IZNAB is to apply a whole new analysis technique in order to improve High-performance materials, Energy-efficiency and to reduce GHG emission from overall Industrial/Building facilities. IZNAB Team have high expertize in design, optimization and integration of new compatible eco-innovative cost- and energy-efficient manufacturing technologies and processes, by using the latest tools for Finite Element Analysis (FEA) & Life-Cycle Analysis (LCA/LCCA) and applying it to understand the behaviour of innovative materials/complex structure, characterizing them, as well as application of Computational Fluid Dynamics (CFD) into the modelling of industrial processes and equipment, as well as in buildings. We achieve this using simulation programs, such as TRNSYS, Abaqus and SimaPro.

Moreover, IZNAB has an extensive expertise in Industry IoT and Industry 4.0 solutions, on areas like Product Development, Process Development, Production Management, Integrated Plant Management, and Manufacturing System where advanced technologies are applied.

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| **Organisation** | Institute of Environmental Protection – National Research Institute | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logo-JPEG-5aa2659160be9.jpg |
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**Description of your Organization**

The Institute of Environmental Protection – National Research Institute (IOŚ -PIB) is a governmental institute in Warsaw, supervised by Ministry of the Environment. The core of activity of the Institute is to conduct research and development works for the national economy in the field environmental protection, sustainable development, climate change and R &D for the rational use of the environment and its resources, including optimization of the spatial structure of protected areas. In 2005 the Institute of Environmental Protection has been designated to play the role of the National Administration for the Emissions Trading Scheme.  
IOŚ -PIB main research activities are as follows:

• Development of the principles of Polish environmental policy and strategies  
• Industrial contaminated sites  
• Air protection  
• Climate protection  
• Noise and vibrations control and abatement  
• Conservation of landscape and nature  
• Protection of land surface  
• Protection and renewal of water resources  
• Protection of the Baltic Sea and its coastal zone  
• Environmental impact assessments of substances, products and installations  
• Integrated environmental monitoring  
• LCA  
• Waste management  
• Accredited Laboratory and monitoring stations  
• Environmental Technologies Verifications under the EU ETV Pilot Programme (Energy Technologies and Materials, Waste & Resources).

IOŚ -PIB has three accredited Testing Laboratories:

Environmental Monitoring Laboratory  
Laboratory of the Integrated Environmental Monitoring Station  
Laboratory of the Environmental Acoustics Department

IOŚ -PIB has also successfully implemented a significant number of international projects in area of environmental protection under INTERREG IIIA&B, 6FP, 7FP, Civil Protection FI, TACIS, NOP and PNRF (AUSTAL2000; UNIDO/GEF; Implementation of work programme of UNECE Regional Coordinating Centre on Industrial Accident Training and Exercises in cooperation with EU, Germany, Switzerland and USA; SKEP; GEMS; ACCENT; CivilArch ; RiverShield and Leonardo da Vinci.  
Institute also issues a scientific magazine entitled Environmental Protection and Natural Resources.

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| **Organisation** | Forum Elektromobilności | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logo-czarne-na-przezroczystym-5aa29a53e12ba.png |
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**Description of your Organization**

The Electromobility Forum (FEM) is an information portal that provides the latest and most interesting information about electric vehicles and EV infrastructure. We create a platform for the exchange of information, contacts and merger of entities on the market of electromobility. Polish and foreign companies creating the Polish electromobility market, are looking for effective forms of support for their business. We do it effectively through B2B contacts, media and trade fair events. We have created a place that describes trends, promotes technologies, informs on an ongoing events for EV branch. We share the experience of experts, provide knowledge about the Polish electromobility market and create a promotion channel for all initiatives aimed at developing transport solutions based on electric motors. We have scientific background in the field of the impact of electric vehicles on the natural environment. We are the publisher of the "Forum Elektromobilności" magazine and the website: http://www.forumem.pl  
  
Specialization: publishing printing and electronic media, organizing events and exhibitions for electromobility branch, boosting electromobility business

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| **Organisation** | Mazovia Science and Technology Park - Cooperative | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/MPNT-logo-5aa29aeec4962.jpg |
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**Description of your Organization**

Mazovia Science and Technology Park (MSTP) is an initiative aimed to primarily support the agri-food sector using the competitive advantages of the Mazovia region. The Park cooperates with entrepreneurs, scientists and regional public institutions to achieve common goals and implement joint projects. The Park is also focusing on biotechnology development, renewable energy, innovations in agriculture, as well as enhancing clusters. Mazovia Science and Technology Park is registered as an association of legal entities (legal form: cooperative), which carries out joint economic projects in the interest and on behalf of its members. This legal form allows every member to have a real influence on the scope of the Mazovia Science and Technology Park’s (MSTP) activities.  
MSTP provides integrated and complex support and promotion services: linking science with practice, through supporting knowledge transfer between sectors; enhancing innovation – facilitating the set up and development of enterprises (especially in rural areas), which operate in line with innovative solutions; supporting enterprises’ activities, create cluster initiatives and operational groups.  
Our filed of actvity is the agri-food sector and in relations to this sector: renewable energy, biotechnology, ecology.

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| **Organisation** | #13 Foundation | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/Logo-23.07.17-5aa2a5ee9e013.png |
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**Description of your Organization**

#13 Foundation is a think tank founded by three individuals with expertise in areas of the environment protection, climate change, air quality and its impact on health and financial mechanisms. Foundation was founded in 2015 when the idea of turning our intellectual capacity into broader activity emerged. Our key objectives are pursuing activities related with developing and promoting knowledge about sustainable development, climate protection, natural environment and resources through initiation, support and management of studies and scientific research; raising awareness and to educate the participants of socioeconomic life in terms of sustainable development.  
Currently Foundation is involved as a co-beneficiary in the Project Coal as a toxic financial asset - financial campaign targeting financial institutions in Poland engaged in and supporting new and existing lignite and coal capacities while demonstrating that there is need and interest to redirect this money into low-emission development financed by the KR fund coordinated by Foundation ‘Rozwoj Tak Odkryki Nie’. Foundation has also a grant from European Climate Foundation, that engages Ministry of Health to become a stronger stakeholder for cleaner air by supporting them with technical expertise.

Foundation doesn’t employ permanent staff as the Board decided to recruit task related experts. This concept allows us to dedicate more funds to better performance while attaining project objectives.

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| **Organisation** | Odin Brokers | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/ODIN-BROKERS-5aa45fec9c1bd.png |
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**Description of your Organization**

Odin Brokers is an association of brokers. In 2017 we started Green Hub Project: non-formal initiative of regional stakeholders interested in the zero waste movement, circular economy, recycling and health related issues. Green Hub is an initiative of local and regional NGOs, business, and researchers who are willing to establish a cooperation and raise awareness building the bottom up approach and understanding towards circular economy.

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**Description of your Organization**

Institute of Innovative Economy is a **non-governmental organization based in Warsaw, Poland,** operating in development, implementation and promotion of **modern, systemic approach** for innovation development in different areas of economy.  **The mission of the IIG** is to create a platform enabling **experience sharing** between policy makers, scientific institutions, business and start-ups. Our main area of operation include circular economy, healthcare , energy sector and human resources development with special burden on gender balance. More information [www.ingos.pl](http://www.ingos.pl)

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| **Organisation** | Institute for Ecology of Industrial Areas | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/IETU_logo_pods_kolor-5aa7ca1ca4f3d.jpg |
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**Description of your Organization**

The Institute for Ecology of Industrial Areas (IETU) is a research institute acting under the Minister of the Environment. The research and services offered by IETU focus on environmental challenges posed by industrialised and urbanised areas in the context of circular economy, resource efficiency, adaptation to climate change and mitigation of its effects. With its expert knowledge and experience IETU supports local and state administration, as well as business entities. Offering a wide range of research and consulting services, we provide our customers with high quality products based on our expertise and 45 years’ experience. At the same time, IETU researchers and experts continue to develop new knowledge, methods and tools for faster and more accurate diagnosing the condition of the environment and forecasting environmental quality changes, taking into account their impact on other components of the ecosystem and human health. The state-of-the-art and the effectiveness of IETU’s R&D activity are based on stimulation of innovations and fostering their application, as well as on dissemination of research results and their use in environmental management and commercial technologies.

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| **Organisation** | Centram Mining Institute (Główny Instytut Górnictwa) | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/Clipboard01-5aaa48cee9b62.jpg |
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**Description of your Organization**

The Central Mining Institute (Główny Instytut Górnictwa - GIG) is one of major Polish research institutions. GIG is a scientific and development organization, working not only for the benefit of the mining and energy industry, but also for enterprises representing different branches - including SMEs, state and local administration institutions and offices, and foreign partners. The Institute is committed to exerting a positive impact on the relationship between the economy, people and the natural environment. Currently the four basic areas of GIG activities constitute: mining engineering, environmental engineering, problems relating to quality, education and training. The Central Mining Institute is mainly involved in activities on the implementation of the principles of sustainable development and circular economy in the field of energy technologies and the use of renewable energy sources, especially those in the area of Clean Coal Technologies (CCT). The basis of GIG’s activities are modern management methods, scientific potential as well as qualifications of employees – highly qualified staff consisting of professors, persons with a post-doctoral degree, doctors and engineering workers, all practitioners. In consistently venturing into new areas of research, GIG responds to the challenges that the modernday Polish and European economies are facing which is also circular economy.

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| **Organisation** | Wroclaw University of Science and Technology ­ | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/logotypy-pwr-5aaa3a98ea7c3.png |
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**Description of your Organization**

Wroclaw University of Science and Technology is the leading scientific and educational centre in Poland. Its position among technical universities in both Europe and the rest of the world is increasing every year. Development of the University is confirmed by research potential, didactics at the highest level, innovation and also cooperation with industry. Our Laboratory of Advanced Polymer Materials and Recycling located at the Environmental Engineering department had participated in many local and international projects. Examples of projects related to the Circular Economy are listed below: "New classes of engineering composite materials from renewable resources" (BIOCOMP) NMP2-CT-2005-515769 (FP6), 2004-2008 "Innovative molecular modeling approach to up-grade polymeric materials from post industrial rejects" (MOMO) NMP3-CT-2003-505471 (FP6) "Eco-sustainable Food Packaging based on Polymer Nanomaterials", COST Action FA0904 (FP7) "Conversion of phytogenic silica reach food industry by-products into value-added products", (Convert-Si) ERA-IB-2, 2017-2019 "Biocomposite Packaging for Active Preservation of Food", M-ERA.NET 2, 2018-2020 Our field of expertise includes structure development during processing of polymer blends, biocomposites and biodegradable plastics (starch, PLA, PHB, PVOH, PCL, hemp, flax, kenaf, wood flour), influence of multiple processing on structure and properties of polymer blends and composites, compatibilisation of polymer blends, reactive processing, restabilisation and modification, new plastics for special applications (toughened materials, in situ composites, nanocomposites, hybrid composites, magnetic composites, electrically conductive plastics, medical grade plastics), lightweight materials (microfoaming).

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| **Organisation** | Century House Sp. z o. o. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/IMG_1100-5aa95170e50ae.png |
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**Description of your Organization**

The Lobe team are experienced specialists associated with the metallurgy and mining industries for several decades. This is our profession and passion at the same time. Our goal is to introduce in these both quite confined industries as many as possible innovative solutions that will facilitate the work of many teams and will have a significant impact on improving the environment Recovery Process of Iron and Zink from waste material in according to our Patent It can be used in every place where is steel production.

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| **Organisation** | Elektrorecykling Sp. z o.o. | http://www.kpk.gov.pl/wp-content/uploads/wpforms/37697-caa378928a3e9ae8a71f93a1be8f4013/ER_logo-5aa8d0b88b48c.jpg |
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**Description of your Organization**

Elektrorecykling Ltd. as one of the largest processing WEEE companies in Poland deals with the collection and recycling of waste electrical and electronic equipment. The company provides comprehensive WEEE management services - physical dismantling and mechanical machining, selection of metal fractions, plastics and electronic components and sale of recovered material. It creates systems for collecting and processing used equipment. It has a modern, assisted information system for the recycling of refrigeration equipment. It also has a line for processing large appliances (washing machines, dishwashers) and small household appliances. The Company's catalog of services includes: collection, transport and management of WEEE; milling and grinding of waste, glass and printed circuit; cleaning and separation of waste, raw materials and scrap metals. Many years of experience in the industry, rich know-how in the subject of recycling market and legal aspects, as well as active participation in the Waste Management and Recycling Cluster enabled the company to grow and become a major player in the Polish market and a credible partner in foreign trade.

ELEKTRORECYKLING Sp. z o.o. Elektrorecykling Sp. z o. o. zajmuje się odbiorem i recyklingiem zużytego sprzętu elektrycznego i elektronicznego, prowadzi jeden z większych zakładów przetwarzania ZSEE w Polsce. Firma świadczy kompleksowe usługi w zakresie gospodarowania ZSEE – demontażu fizycznego i obróbki mechanicznej, selekcji frakcji metali, tworzyw sztucznych i elementów elektronicznych oraz sprzedaży odzyskanego materiału. Tworzy systemy zbierania i przetwarzania zużytego sprzętu. Posiada nowoczesną, wspomaganą systemem informatycznym linię do recyklingu urządzeń chłodniczych. Ponadto dysponuje linią do przetwarzania urządzeń wielkogabarytowych (pralek, zmywarek) oraz małego sprzętu AGD/RTV. W katalogu usług Spółki znajdują się: zbieranie, transport i zagospodarowanie ZSEE; mielenie i rozdrabnianie odpadów, szkła i obwodów drukowanych; doczyszczanie i separacja odpadów, surowców i złomów metali. Wieloletnie doświadczenie w branży, znajomość rynku recyklingu i prawnych aspektów prowadzonej działalności, a także aktywne uczestnictwo w Klastrze Gospodarki Odpadowej i Recyklingu umożliwiło Firmie rozwój i osiągnięcie statusu potentata na polskim rynku oraz wiarygodnego partnera w handlu zagranicznym.