



RDI2CluB:
Rural RDI milieus in transition towards smart bioeconomy clusters and innovation ecosystems

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**Benchmarking visit
in the Świętokrzyskie Voivodeship, Poland**

3rd – 6th June, 2019

Świętokrzyskie Voivodeship
Regional Science and Technology Centre
Foundation for Education and Social Dialogue Pro Civis

Kielce, 2019



REGIONAL SCIENCE
AND TECHNOLOGY CENTER



ŚWIĘTOKRZYSKIE
VOIVODESHIP

Pro Civis
Foundation for Education
and Social Dialogue

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1. Some facts and figures on the region

The Świętokrzyskie Voivodeship covers an area of 11,710 km², that is 3.7% of total Poland's area. Świętokrzyskie is situated in the south-eastern part of the country and borders the largest urban agglomerations: Warsaw, Cracow, Katowice, Lublin and Łódź. In the region there are the “Starachowice” Special Economic Zone and the Tarnobrzeg Special Economic Zone, as well as the Kielce Technology Park and the Regional Science and Technology Centre. The capital of the Świętokrzyskie region, Kielce city, is situated at the crossroads of important Polish transport routes. Kielce is located close to major Polish industrial and cultural centres: Warsaw - 180 km, Cracow - 120 km, Katowice - 160 km, Łódź - 140 km, Rzeszów - 180 km, Lublin - 180 km.

Świętokrzyskie is one of the ecologically cleanest areas in Poland. Forests, covering an area of 328.1 thousand ha, constitute a leading part of the natural structure of the voivodeship. Forest areas have multiple and useful functions such as protective (provide protection to other elements of nature) and economic (they constitute a source of raw materials for lots of industrial branches), social and cultural, which is manifested by a growing interest of the public in leisure in forests. Forestation of the voivodeship is currently 27.5% and is slightly lower than total for Poland (28.7%). It clearly differs from the European average (33%), and even more from the adopted in the EU countries guidance rate (42%).

Numerous qualified staff for the needs of industry and other economy sectors, developed economic infrastructure, including financial institutions in Kielce and other major cities of the region, a developed educational base, great opportunities for the development of agricultural and food production, rich sources of curative mineral waters, or the growing number of organic food producers are the advantages of the Region.

In 2017, according to the statistical data, there were 78 vocational secondary schools (including technical secondary schools) in the Świętokrzyskie Voivodeship. In addition, junior secondary school graduates were able to choose from among 76 vocational and first degree branch schools or vocational training schools (Statistics Poland, 2017). There are also 13 universities in the Region. Kielce is the largest academic centre with two public universities: Jan Kochanowski University and Kielce University of Technology as well as 6 non-public high schools.

The region has a population of 1,247,700 inhabitants and the unemployment rate according to the data provided by Statistics Poland in December 2018 was at 8.3%. GDP per person in the Świętokrzyskie region is EUR 8,102, with average earnings of EUR 966.74 (Statistics Poland, January 2019). The total number of enterprises is 112,296, of which 1,058 in the food and food processing industry. There are 1,688 active businesses in agriculture, hunting, forestry and fishing and 27,505 in construction sector.

2. Świętokrzyskie Innovation System

Świętokrzyskie Innovation System consists of the Świętokrzyskie Innovation Council and 7 thematic consortia corresponding to selected smart specialisations of the Świętokrzyskie Region.

The Świętokrzyskie Innovation Council is an advisory body for the Board of the Świętokrzyskie Region, in the field of regional innovation policy and acts as a consultation forum in the process of development of Świętokrzyskie Innovation System. The Council is chaired by the Presidium consisting of 2 people: President – Marshal of the Świętokrzyskie Voivodeship, Mr. Andrzej Bętkowski and Vice-President – Deputy Marshal of the Świętokrzyskie Voivodeship, Ms. Renata Janik. The council consists of 39 members, representing the following sectors:

- 1) local and cross-regional clusters;
- 2) business and business support institutions;
- 3) government and local self-government administration;
- 4) education - universities;
- 5) research and development institutions and scientific centres;
- 6) business environment institutions.

Moreover, the Council acts as an advisory and consultation body in matters related to implementation of the regional development policy in the areas of innovation and entrepreneurship as well as key projects and initiatives supported or implemented by the Świętokrzyskie Region. The Council indicates the areas and directions of activities that may form the basis for implementation of specific projects of initiatives, including those financed from available sources at the regional level. The Council meetings are organised and financed by the Marshal Office.

The second pillar of Świętokrzyskie Innovation System includes also Consortia (innovation ecosystems) for the development of smart specialisations of the Świętokrzyskie Region. The Consortia cooperate with the regional self-government on the basis of an agreement concluded on 15th June, 2015. The agreement was extended for another 3 years on 28th June, 2018 till 31st December, 2020. The key task of the Consortium is to implement the concept of smart specialisations development and forum for experience and knowledge exchange in particular fields.

There were 7 Consortia's Coordinators selected – one for each of the smart specialisations. These are:

for:

- 1) Environment friendly and cost effective construction - Consortium Coordinator is Staropolska Chamber of Industry and Commerce

Consortium Members are:

- Kielce University of Technology
- Regional Centre for Innovation and Technology Transfer Ltd.
- "Lewiatan" Świętokrzyskie Association of Private Employers
- Targi Kielce. Exhibition and Congress Centre
- Dorbud joint-stock company
- Fabet joint-stock company

- 2) Metallurgy and metal industry - Consortium Coordinator is: Staropolska Chamber of Industry and Commerce

Consortium Members are:

- Kielce University of Technology
- Regional Centre for Innovation and Technology Transfer Ltd.
- Regional Development Agency – Foundation in Starachowice
- National Association for Entrepreneurship Support
- „Odlewnie Polskie” joint-stock Co.
- PERFOPOL Company
- FANSULD Iron Foundry
- „Starachowice” Special Economic Zone
- Świętokrzyskie Cluster of Metal and Foundry Industries „METAL-CAST
- Targi Kielce. Exhibition and Congress Centre

3) Modern agriculture and food processing industry - Consortium Coordinator is: Centre for Business Promotion and Entrepreneurship in Sandomierz

Consortium members are:

- Świętokrzyskie Agricultural Advisory Centre in Modliszewice
- Świętokrzyska Chamber of Agriculture
- EPRD Regional Development and Economy Policy Office
- „POLKON” Fruit and Vegetables Processing Plant Ltd.
- SAN-EXPORT-GROUP Ltd
- WIR Meat Processing Plant Ltd
- Jan Kochanowski University in Kielce
- Regional Centre for Innovation and Technology Transfer Ltd
- Targi Kielce. Exhibition and Congress Centre

4) Health and Pro-Health Tourism -Consortium Coordinator is: Health Resort Busko-Zdrój Joint-stock Co.

Consortium members are:

- Jan Kochanowski University in Kielce
- School of Economics, Law and Medical Sciences in Kielce
- Świętokrzyskie Health Resorts in Kielce
- Economic Chamber of the Health Tourism Centre
- "Bałt" Association for the Development of Bałtów Commune
- Regional Centre for Innovation and Technology Transfer Ltd
- “Lewiatan” Świętokrzyskie Association of Private Employers
- Regional Science and Technology Center
- Centre for Business Promotion and Entrepreneurship in Sandomierz
- Targi Kielce. Exhibition and Congress Centre
- FONTIA Ltd

5) ICT - Consortium Coordinator: Kielce Technology Park

Consortium members are:

- Jan Kochanowski University in Kielce

- Kielce University of Technology
- Regional Centre for Innovation and Technology Transfer Ltd
- FutureHub ICT Cluster Association
- EPRD Regional Development and Economy Policy Office
- InnoTech Central Economic Chamber
- Targi Kielce. Exhibition and Congress Centre

6) Congress and exhibition industry - Consortium Coordinator is : „Grono Targowe Kielce” Economic Chamber

Consortium members are:

- Jan Kochanowski University in Kielce
- Kielce University of Technology
- Targi Kielce. Exhibition and Congress Centre
- EPRD Regional Development and Economy Policy Office
- Regional Tourist Organisation of the Świętokrzyskie Voivodeship
- Regional Centre for Innovation and Technology Transfer Ltd.
- ZETO Center of Computer Systems Joint-stock Co.

7) Sustainable development of energy - Consortium Coordinator: Regional Centre for Innovation and Technology Transfer Ltd

Consortium members are:

- Jan Kochanowski University in Kielce
- Kielce University of Technology
- “Staropolska” Chamber of Industry and Commerce
- Kielce Municipality/Kielce Technology Park
- Lewiatan Świętokrzyskie Association of Private Employers
- „Świętokrzyskie Effective Energy Use” Association
- Targi Kielce. Exhibition and Congress Centre
- RES Institute
- DOTO Polska

3. General programme

Regional Science and Technology Centre (RSTC)

<http://rcnt.pl/>

Regional Science and Technology Center as a budget unit of regional self-government of the Świętokrzyskie Region was established in 2009. At the current moment, it is one of the most promising and rapidly developing business environment institutions. As part of its business activity, through the implementation of many EU projects, RSTC is an important link in the implementation of the development goals of the Region established by the Świętokrzyskie Regional Self-government. Any investment made in the framework of the Center activity, results directly from the objectives of both of the Świętokrzyskie Regional Development Strategy and Świętokrzyskie Strategy for Research and Innovation. Through the implementation of activities, such as development of infrastructure in the investment areas equipment for the Conference and Training Center, creating the Świętokrzyskie Biobank along with a complex of research and implementation laboratories, ending on the Leonardo da Vinci Science Center, one can say that Regional Science and Technology Center is one of the most important institutions of the Świętokrzyskie Region.

Centre for Knowledge and Bioeconomy Development (Centre)

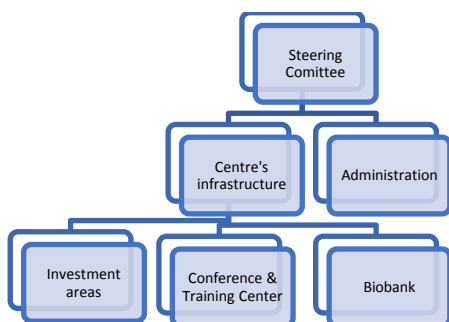
<http://rcnt.pl/index.php/biznes-park/centrum-wiedzy-i-rozwoju-biogospodarki/>

Centre for Knowledge and Bioeconomy Development, operating in the Regional Science and Technology Centre, is the animator of bio-business development activities. It is a place where business entities form production, services, consulting sectors can exchange their experience, know-how or establish direct cooperation between themselves. The main task of the Centre is active lobbying for establishing bioeconomy new smart specialisation of the Świętokrzyskie Region for the new EU financial perspective 2021-2027. Representatives of the following sectors are invited to join the Centre: R&D, business, local self-government, science, education and media.

The Steering Committee is the managing body of the Centre and consists of:

- R&D (RSTC);
- business (Reslab Ltd.);
- regional self-government authority (Świętokrzyskie Region);
- media (Telewizja Polska S.A., Kielce branch);
- science (PhD Anna Rabajczyk);

The Centre organisation chart:



Kielce University of Technology (PŚk)

<https://international.tu.kielce.pl/>

Polish state technical university based in Kielce, founded in 1965. It provides high-quality education and student development, including integrated scientific research and cooperation with domestic and international research centres, the economic and local government environment. The academic community of Kielce University of Technology consists of approximately 500 academic staff and 10 thousand students per year who have the opportunity to study at the first, second and third cycle studies. The university offers full-time and part-time studies. The structure of PŚk comprises also numerous scientific circles and student organisations. It is a university of numerous opportunities, educating specialist staff in the following Faculties:

- Faculty of Construction and Architecture,
- Faculty of Electrical Engineering, Automatics and Computer Science,
- Faculty of Mechatronics and Mechanical Engineering,
- Faculty of Management and Computer Modelling,
- Faculty of Environmental Engineering, Geomatics and Energy.

The Faculty of Environmental Engineering, Geomatics and Energy offers three fields of study: environmental engineering, geodesy and cartography and renewable energy sources. The Faculty is best renowned for its headquarters. It is located in an intelligent, energy-saving educational and laboratory building called ENERGIS. The whole object is powered by renewable energy sources. It combines didactic, research and scientific functions. It is equipped with photovoltaic and solar panels and heat pumps, ventilation units, and the recovered heat heats the water. There is also a biomass boiler room. Those installations have got also didactic functions.

Municipal Waste Landfill in Promnik

<http://www.zuo.pgo.kielce.pl/>

Waste Management Company Ltd. was established in 2001 in the Świętokrzyskie Voivodeship as a commercial law company. The company's actions mainly include:

- running the regional mechanical and biological installation for municipal waste treatment,
- management of waste landfills,
- disposal of waste through landfilling of non-hazardous and neutral waste,
- selective collection and sorting of packaging waste,
- production of electricity and heat from renewable energy sources.

The project aims at system and comprehensive management of urban waste collected from the city of Kielce (the region's capital) and 17 municipalities and communes surrounding it. The Regional Waste Treatment Plant is an important part of the company, thanks to which it was possible to limit the amount of waste going to the landfill. The plant was established in the area neighbouring the existing landfill site in Promnik, about 15 km from the centre of Kielce city. Its task is to get rid of mixed urban waste and waste collected in a selective way in a highly efficient process of their multi-stage, mechanical-biological processing. Urban waste is deposited in a sectoral manner and consists in laying horizontal waste layers

together with an insulating and heavy duty layer. The waste is compacted using compactors (2 compactors Ł 34, with pressure of 24 tonnes each). The sorting line in Kielce has 4 work stations with a total capacity of 15,000 m³/year (i.e. 60 m³/shift) and deals with sorting waste collected selectively (PET bottles and glass). Additionally, in 2004, a Small Biogas Power Plant (MEB) was built at Promnik landfill which has the *Green Energy Certificate*. Part of the electricity produced in the MEB is used for current needs at the landfill and its surplus is entered into the power grid network in accordance with the provisions of energy law. In addition, for heating purposes of the social-storage facilities of the landfill, waste heat from generator engines was used. It made it possible to completely abandon heating buildings from traditional energy sources.

Plastinvest Ltd

<http://www.plastinvest.com.pl/eng/home>

Plastinvest company was established in 2011 and is a manufacturer of EKOpoly boards. EKOpoly is a product made entirely in recycling technology. Company decided to invest in a processing line that complements the philosophy of processing plastic waste and creating entirely new products. The company uses very carefully selected raw material but the final components of the mixture are the result of many experiments and trials of the company's engineers. All boards are highly resistant to moisture and water as well as most chemicals available at the market. They have increased resistance to UV radiation. Boards are used in construction, furniture and agriculture industries, both indoor and outdoor. All the company's products are available in three colours: red, green and blue.

Ekopoly may be used as:

- alternative to plywood – it is durable, lighter than standard plywood and weathertight,
- furniture surface, e.g. tops, which can be a perfect alternative to MDF or plywood,
- flooring, e.g. in lorries as protection for metal floor and improvement in noise dampening,
- in a garden: houses, fences, kennels, simple furniture and toolboxes,
- a safety precaution: protection from wind and rain, on construction sites, concerts, festivals and other events.

4. Wood construction programme

Ethnographic Park in Tokarnia, Museum of Kielce Countryside

http://mwk.com.pl/pl/sg/nasze_obiekty/park_etnograficzny_w_tokarni/

The Museum of Kielce Countryside - Ethnographic Park in Tokarnia, since 1977, presents the tradition of wooden folk architecture from various sub-regions of the Kielce Region: the Świętokrzyskie Mountains, Kraków-Częstochowa Upland, Sandomierz Upland and the Nida Basin. Looking at Polish architecture, few people realise that until the beginning of the 20th century, wood was basic building material in Polish villages. Since the middle of the 20th century, wooden buildings have begun to give way to bricklaying, until disappearance of wood. At present, wood is slowly coming back into favour thanks to growing pro-ecological awareness and technological progress. That is why the Ethnographic Park in Tokarnia is an ideal place for conducting transnational workshops devoted to joint activities of the RDI2CluB partnership, including those related to low-emission wooden construction. In this way, we combine business with pleasure: by presenting Polish and Świętokrzyskie traditions and potential for development of wooden construction, we encourage you to common innovative return to tradition!

Daleszyce State Forest Administration, Seed-Nursery Gardening Farm in Suków-Papiernia

A modern seed-forest container nursery built by Daleszyce State Forest Administration in Suków-Papiernia covers 6 ha of land and is one of the most modern centres of the type in this part of Europe.

The nursery produces mainly oak and beech seedlings that will be used to renew the forest and afforestation of land for recultivation in the entire Świętokrzyskie region. The adopted production technology and applied innovations and logistic solutions make the facility a comprehensive response to the needs of the region in the field of seeding and nursing.

The most impressive object is a six-walled foil tent, almost 100 m long, 60 m wide and over 40,000 m³. Another object is the sowing hall – it is where polystyrene or styrofoam containers (so called cassettes) are filled. The whole process is largely automatic. It mainly produces deciduous species (English oak and beech) and coniferous (Scots pine). The target production of seedlings will amount to app. 3 million pieces. In the nursery, there are also production fields, that is where the seedlings will reach maturity after leaving the tent, and two storerooms. They house about 2 million seedlings that can safely grow there in winter. An important place in nurseries is seed storage sites. In the one in Daleszyce State Forest Administration, about 20 tonnes of acorns and 6 tonnes of furrows will be safely stored with the possibility of increasing the numbers.

The construction of the nursery was nearly PLN 18.2 million. The whole project was financed from the forest fund, that is, from the State Forests own funds.

DEFRO Spółka z o.o. sp. k.

<http://www.en.defro.pl>

Tradition of DEFRO sp. z o.o. sp. k. goes back to 1973. Currently it is the largest manufacturer of boilers for solid fuels in Poland and one of the largest in Europe. Annually, the company produces app. 40 thousand boilers, i.e. about 200 boilers a day. A modern production plant has an area of over 30,000 m² and employs app. 630 people. It also cooperates with 2,000 installers and over 1,000 distributors.

DEFRO is a company focusing on continuous development. It has fully up-to-date machinery, constantly modernised production line consisting of several technological blocks. The company has also got its own

research laboratory where it can conduct its own research and development projects in the field of clean solid fuel technologies for units up to 1 MW and test boilers at all stages of their design. DEFRO has its own design office where a product creation process can lead from the concept stage to the multi-series production.

Since 2012, when the PN-EN 303-5: 2012 standard was updated, the greatest emphasis has been put on 5th class boilers. A boiler of 5th class is a guarantee of the lowest emission of CO, dust and organic carbon to the atmosphere and high efficiency which means lower fuel consumption. Devices of this class are often subsidised by different programmes for the purchase price of a boiler. Devices for biomass burning are supreme in this class: boilers with pellet burners and wood gasification boilers.

5. Food programme

Świętokrzyskie Culinary Heritage Network

<https://www.culinary-heritage.com/regions.asp>

The Świętokrzyskie Culinary Heritage Network is a part of the European Network of Regional Culinary Heritage (ENRCH), which has been carrying out activities aimed at developing a market for high quality food and culinary tourism by supporting local natural, safe and tasty food since 1995. The Świętokrzyskie Voivodeship joined the ENRCH in 2009 - becoming the owner of the license for the use of the guarantee trademark Świętokrzyskie Culinary Heritage Network. Currently, the Network brings together 82 entities from the Świętokrzyskie Region: producers of raw materials, processors, restaurateurs, owners of catering and hotel facilities, wholesale and retail sellers of agricultural and food products. Many of the members of the Network are winners of Our Culinary Heritage+ Tastes of Regions competitions. The competition promotes traditional products and shows the rich potential hidden in the Polish countryside. It underlines the culinary tradition, is its showcase and tourist attraction. It also serves to build the region's brand and is a form of a region's promotion.

District Dairy Cooperative in Opatów

<http://www.krowkaopatowska.pl/>

District Dairy Cooperative (OSM) in Opatów has existed for over 100 years and its history reflects the turbulent history of Poland in 20th century. In 1992, the company took over the production of sweets "Krówka Opatowska" from the cooperative called Spółdzielnia Pracy Przemysłu Spożywczego Zakład Cukierniczy in Opatów which was then going bankrupt. Fudges are made by hand, according to a traditional recipe, only from natural ingredients such as milk, sugar, potato syrup, vegetable fat without colouring agents. After cooling, the fudge is hand-cut into cubes and packed into special paper. One employee is able to pack 100 kg of fudge in 8 hours a day which equals about 6000 pieces!

Since 2007, when most Polish small dairies ceased production of dairy products, OSM in Opatów has concentrated on the production of *Krówka Opatowska* (Fudge). Its taste is known not only in Poland, but also in Slovakia, Hungary, the Czech Republic, Germany, France and Canada.

OSM Opatów, as a producer of *Krówka Opatowska*, also joined the Świętokrzyskie Culinary Heritage Network in 2010. In 2011 *Krówka Opatowska* was entered on the List of Traditional Products of the Polish Ministry of Agriculture and Rural Development in the category of bakery and confectionery products. In 2015, it was awarded the title of "Quality Tradition".

In 2015, in the unused part of the Dairy, the Krówka Opatowska café called "Krówkarenka" was opened, where workshops on manual production of Krówka Opatowska are conducted. This project was co-financed from the funds of the "Świętokrzyskie Mountains, Our Future" programme - a Swiss cooperation programme with new EU member states.

"AG FOOD" Fruit&Vegetables Producers' Group in Jasienica

<http://www.agfood-polska.pl/index.php/pl/>

"AG FOOD" Fruit&Vegetables Producers' Group started its trade and production activity in 2012. The seat of the company is Jasienica – in Łoniów Commune. This picturesque place is famous for its fruit growing tradition for centuries in the Sandomierz Basin. The seat of the Company is in one of the biggest fruit growing regions in Poland. It is characterized by, perfect production of fruit microclimate as well as

environmental and soil conditions. The group consists of 46 fruit producers who manage over 285 ha. The Group fulfils its strategic aims thanks to modern investments. Building the storeroom was one of basic achievements of the Group. It consists of 42 chambers equipped with the newest generation devices and devices for KA/ULO (Controlled Atmosphere/Ultra Low Oxygen). An innovative system of dynamic atmosphere supervision was applied in some chambers. The Group has got fully automated sorting line of 8t/h efficiency. It also owns a pre-sorting system with hydro-loading and systems of automatic palletizing. The Company has a possibility of selling apples in different packages, card-boards or poly-bags – everything according to customers' expectations and requirements. There are apples of different types: Jonagored, Champion, Eliza, Ligol, Gala, Mutsu, Idared and some vegetables on offer. An important achievement of the Company is introducing and functioning of GLOBALG.A.P. and HACCP systems. In the future, the Company is going to develop its trade and production activity by increasing acreage and undertaking cooperation with new customers. An increase of sold products by packaged vegetables is also planned.

Dreher Poland

<https://www.spirit-of-fruits.de/home-polski/dreher-poland/>

The production plant of Dreher is based in Koprzywnica nearby the city of Sandomierz in the Świętokrzyskie Voivodeship, in the very centre of the fruit production basin. Short distances between the grower and factory are the basis for optimizing the production processes. The highest quality apple juice (NFC) has been produced in the state-of-the-art technique since 2017. Dreher produces fruit juices (NFC), concentrates (FC) and purees which are delivered to customers and their partners across Europe. During the last few years the factory has undergone significant technological development, thanks to which the production uses the latest equipment. The facility is located on a plot of over 60,000 m². In the first stage of expansion, the production buildings will take up 6,000 m². As the company employs Polish staff, there will be many new jobs created in the region.

The new production plant is situated 200 km to the south of Warsaw and benefits in several ways from the closeness to enormous fruit growing areas, which provides advantages for the raw material logistic as well as a very good starting position for deliveries to customers in the north and south of the current supply areas. Beside the support of the production, logistic and component suppliers, the new location benefits especially from the know-how of the main plant in Stockach. This is also the place, where trained many employees for the high "Dreher-Standard". This standard will be used likewise in Poland.

6. Annexes

Programme of the visit in the Świętokrzyskie Voivodeship

MONDAY, 3RD JUNE 2019 (DAY 1)

09.45 Bus transfer from Warsaw Chopin Airport <https://www.lotnisko-chopina.pl/>

13.00 – 15.00 Benchmarking visit to Seed-Nursery Gardening Farm in Suków-Papiernia near Kielce

<http://www.daleszyce.radom.lasy.gov.pl/nadlesnictwo>

Presentation of the Świętokrzyskie Forests - representative of the State Forests

Potential of low-emission construction in the Świętokrzyskie Voivodeship

15.00 – 16.00 Lunch in Suków-Papiernia

16.00 – 17.00 Transfer to the hotel in Kielce city, accommodation

17.30-19.00

- Welcome meeting and presentation of the benchmarking objective at Best Western Grand Hotel <http://grandhotelkielce.pl/>
- Transnational workshops: Session on local pilots , facilitator – PP10

20.00- 21.30 Dinner at Best Western Grand Hotel

TUESDAY, 4 TH JUNE 2019 (DAY 2)

7.00-8.00 Breakfast

Bio-construction Programme	Food Programme (12 persons)
8.00-9.00 Transfer to Benchmarking visit to the the Municipal Waste Landfill in Promnik	8.00-9.00 Transfer to Opatów
9.00 – 11.45 Benchmarking visit to the Municipal Waste Landfill in Promnik http://www.pgo.kielce.pl/strona_glowna.html	9.00 – 10.30 Benchmarking visit to the District Dairy Cooperative in Opatów http://www.krowkaopatowska.pl/
	10.30 – 11.00 Transfer to Jasienica
	11.00 – 12.00 Benchmarking visit to “AG FOOD” Fruit & Vegetables Producers’ Group in Jasienica http://www.agfood-polska.pl/index.php/pl/
12.00 – 14.00 Benchmarking visit to DEFRO; production of 5th generation boilers for pellets http://www.en.defro.pl	12.00 – 12.30 Transfer to Koprzywnica
	12.30 – 13.30 Benchmarking visit to Dreher Poland https://www.spirit-of-fruits.de/home-polski/dreher-poland/
14.30-15.30 Lunch at Antresola Restaurant in Snochowice https://zajazdantresola.pl/kontakt/	14.00-15.30 Lunch at Karczma Świętokrzyska in Staszów https://karczmaswietokrzyska.pl/kontakt/

15.30 – 17.00 Transfer to Ethnographic Park in Tokarnia

17.00 – 19.00 Visit to Ethnographic Park in Tokarnia, Museum of Kielce Countryside, Granary from Rogów <http://mwk.com.pl/>

- **Quick Sightseeing of Ethnographic Park in Tokarnia**
- **Transnational workshops: Session on the JAP progress , facilitator – PP11**

19.00 – 21.00 Dinner and presentation of the Świętokrzyskie Culinary Heritage Network,
a part of the European Culinary Heritage Network <https://www.culinary-heritage.com/regions.asp>

22.00 Return to the hotel in Kielce

WEDNESDAY, 5TH JUNE 2019 (DAY 3)

7.00-8.00 Breakfast

8.15-8.45 Transfer to Regional Science and Technology Center (PP7)

9.00 – 10.00 Regional Science and Technology Centre – sightseeing <http://rcnt.pl/>

10.00-10.30 Presentation of the Świętokrzyskie Innovation System, regional cluster policy and instruments of its support – present and future (Department for Investment and Development, Marshal Office of the Świętokrzyskie Voivodeship)

10.30 – 11.00 Presentation of Regional Science and Technology Center (PP7) and Centre for Knowledge and Bioeconomy Development, newly created by PP7 – bio-hub

11.00 – 11.15 Coffee break

11.20 - 12.45 Seminar: Launch of the Bioboard.eu platform, part 1 – facilitators PP1 & PP6

12.45-13.00 Coffee break

13.00 - 14.00 Seminar: Launch of the Bioboard.eu platform, part 2 – facilitators PP1 & PP6

14.00 – 15.15 Lunch

15.15 - 16.00 Seminar: Launch of the Bioboard.eu platform, part 3 – facilitators PP1 & PP6

16.00 – 18.00 Transnational workshops: Session on first pilot interaction of OMIM and OVBH, facilitator – PP9

18.00 – 20.00 Dinner

20.00-20.30 Return to the hotel in Kielce

THURSDAY, 6TH JUNE 2019 (DAY 4)

7.00-8.00 Breakfast

8.30-9.00 Transfer to Kielce University of Technology

9.15 – 10.00 Visit to Kielce University of Technology <https://international.tu.kielce.pl/>

10.00-10.45 Transfer to Suchedniów

11.00-12.00 Visit in Plastinvest Ltd - manufacture of products entirely in recycling technology
<http://www.plastinvest.com.pl/eng/home>

12.00 – 12.30 Transfer to the restaurant - **Mobile Transnational workshop: Closing Session**

13.00 -14.00 Lunch at Promień Hotel and Restaurant in Skarżysko-Kamienna <https://www.facebook.com/hotelpromien/>

14.00-16.30 Bus transfer to Warsaw Chopin Airport <https://www.lotnisko-chopina.pl/>