



ECOINN DANUBE

"TO ENHANCE COOPERATION
IN THE FIELD OF
ECO-INNOVATIONS"

WE THINK
GREEN



Interreg



Danube Transnational Programme

Ecolnn Danube

Project co-funded by European Union funds (ERDF, IPA)

EcoInn Danube

Eco-innovatively connected Danube Region

A stream of cooperation



General objective of the project is to increase the cooperation of innovation actors in the field of ecoinnovations with special emphasis on development and application of ecotechnologies in the Danube Region.

Project Specific Objectives:

- Increase transnational cooperation in ecoinnovations
- Increase the match of demand and supply in ecoinnovation
- Bring ecoinnovation actors together

Programme: Danube Transnational Programme

Priority: Innovative and socially responsible Danube region

Specific objective: Improve framework conditions for innovation

Start date: 01/12/2016

End date: 31/05/2019

Budget in Euro: Overall: 2,126,924.97

ERDF Contribution: 1,587,447.20

IPA Contribution: 220,439

www.interreg-danube.eu/ecoinn-danube

Project co-funded by European Union funds (ERDF, IPA)



EcoInn Danube Virtual lab

Virtual lab is an online platform designed so that people can publish their ideas for eco-innovations, their needs for eco-innovation technologies and find matches between the two.

The virtual lab is created as part of the EcoInn Danube project co-funded by the Interreg Danube Programme. By means of this platform you can submit an offer either for a challenge you are facing or for a solution you propose.

The objective of the Virtual lab platform is to bring together representatives of the eco-innovation environment: innovative SMEs, start-ups, spin-offs, research & development institutions generating noteworthy and innovative eco-technologies; entrepreneurs and companies as representatives of the industrial sector which is obliged to seek out eco-solutions to decrease the environmental pollution. Public institutions and the third sector (non-governmental organisations, etc.) as important stakeholders will also be involved in these kinds of matchmaking activities. Virtual lab is also a place where you can interconnect with experts from various countries, fields of interest and make contacts.

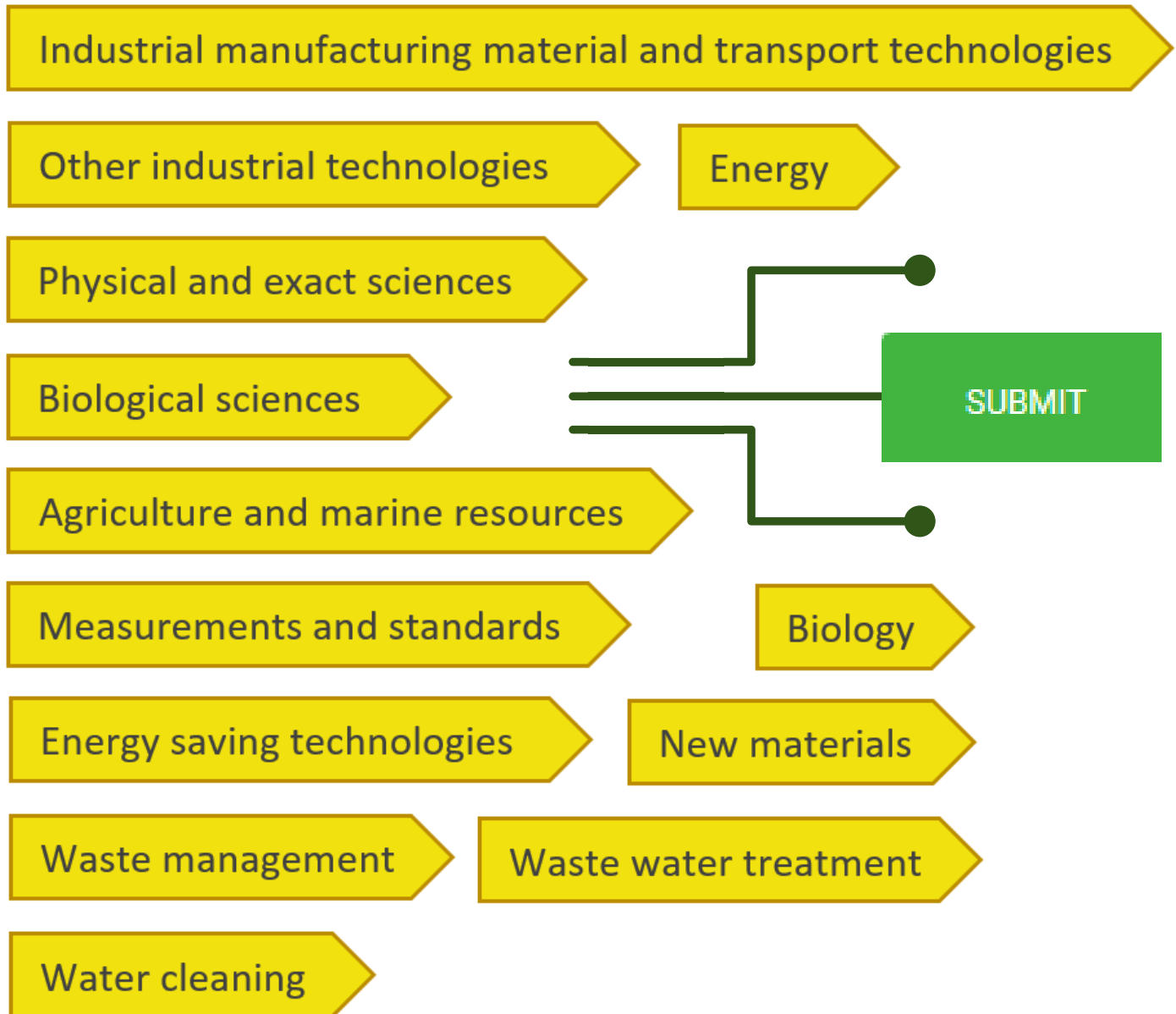
Have you created an eco-friendly technology?

Do you want to share it with potential investors?

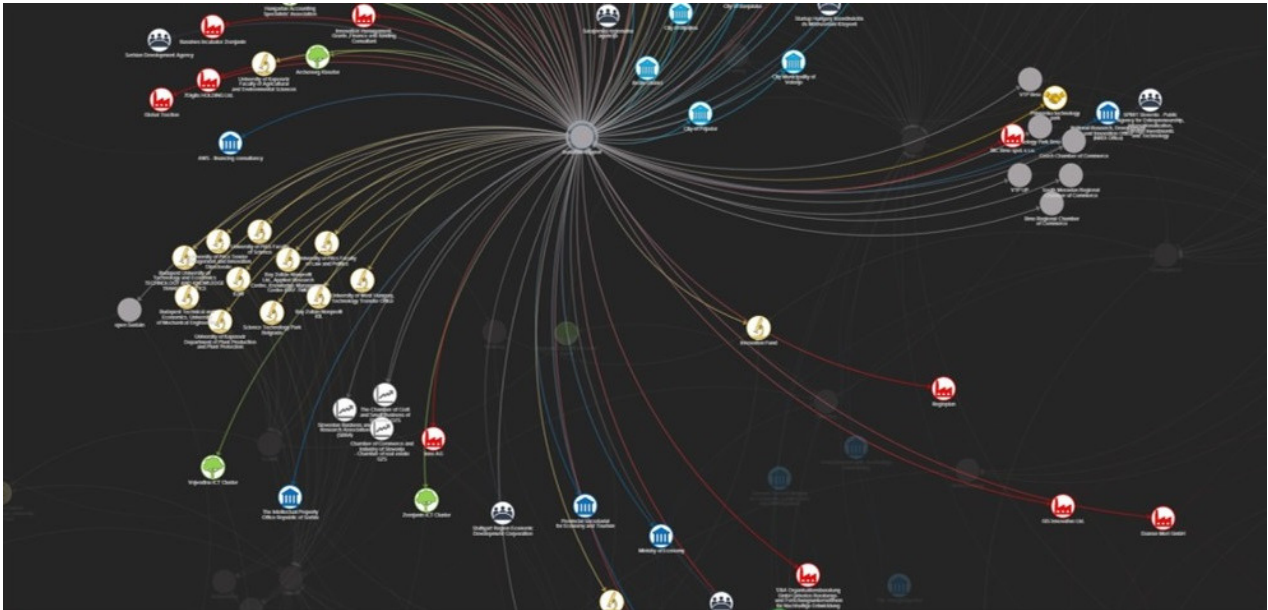
Do you need an eco-friendly solution to assist your company?

Then our Virtual lab is the right place for you. Complete our form and your offer will be published. It can be seen by different companies from various areas of expertise. Experts from different professions can view your insertion and find a solution to your problem. Offers will also be sent to our contact points which could be helpful.

Matching Eco-technologies and Eco-solutions



Contact Map

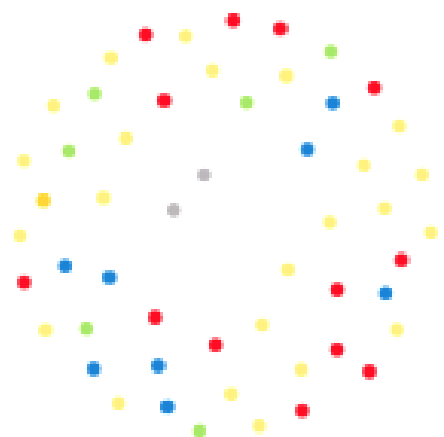


Contact map for eco-innovators in the Danube region.

Find institutions and agencies to develop, explore and implement eco-innovations together.

More than 600 authorities, experts and researchers from the area of eco-innovations.

Search information and experts advice.



Expert Database



COUNTRY



AREA OF RESEARCH /SPECIALIZATION



SCOPE OF ACTIVITIES



About the project EcoInn Danube

The general objective...

... is to enhance cooperation of innovation actors in eco-innovations with special emphasis on the development and application of eco-technologies in the Danube Region. The project mainly focuses on renewable energy and energy-saving (efficiency).

Expected project outcomes

Result-oriented research collaboration of researchers and innovators on the one side and entrepreneurs (companies) on the other.

Generation of practice-oriented eco-technologies ready for deployment.

Space offered to companies to present their eco-problems on the one hand and for eco-innovators to present their eco-innovative ideas on the other.

Practical training (workshops, summer schools) for acquiring highly relevant skills for the practical application of eco-innovative ideas into practice.

Enhanced matching of capital seekers and capital providers for eco-innovative projects.

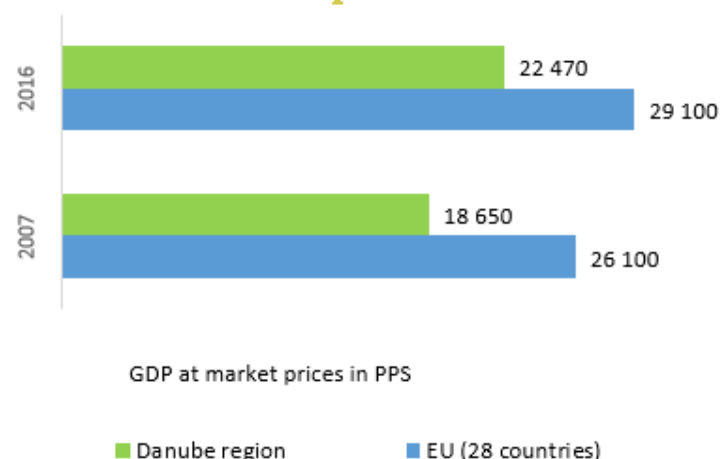
Increased general awareness of environmental challenges and importance of eco-solutions.

New solutions for global environmental and ecological challenges and needs particularly in renewable energy and energy-saving (efficiency), but also in those fields identified by stakeholders.



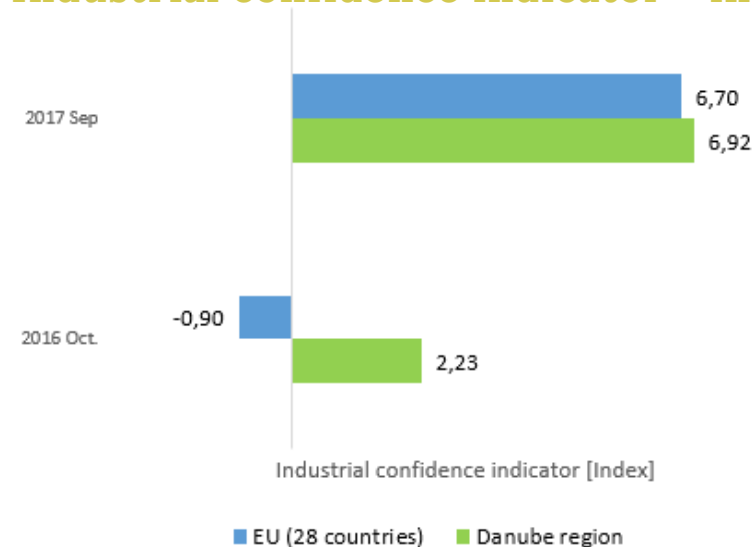
Main Economic Indicators

GDP at market prices in PPS



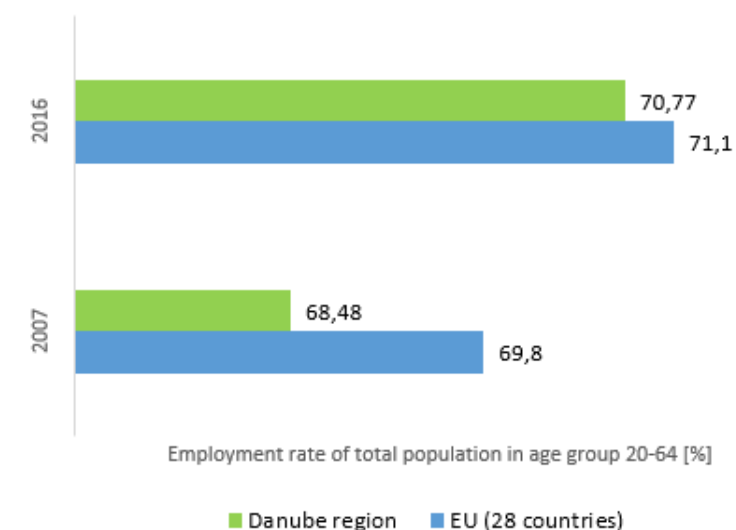
Source: Illustration based on Eurostat dataset

Industrial confidence indicator - index



Source: Illustration based on European Commission - Directorate-General for Economic and Financial Affairs (DG ECFIN)

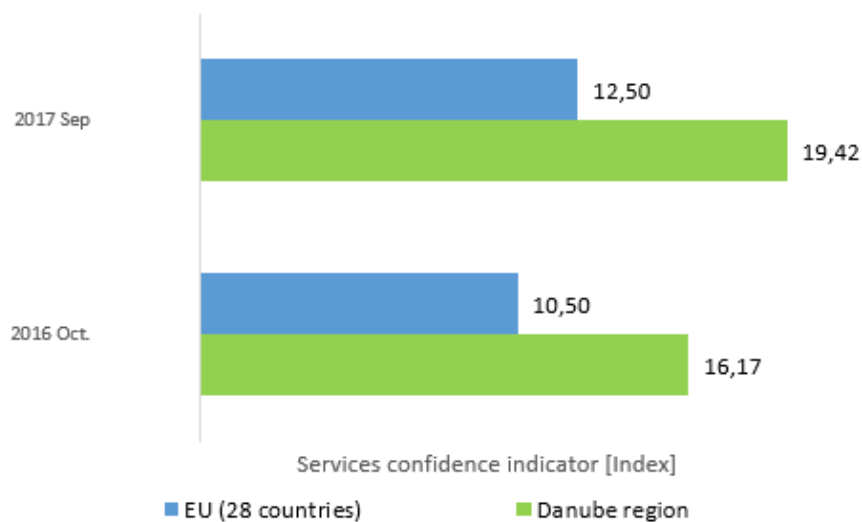
Employment rate of total population in age group 20 - 64 (%)



Source: Illustration based on Eurostat dataset

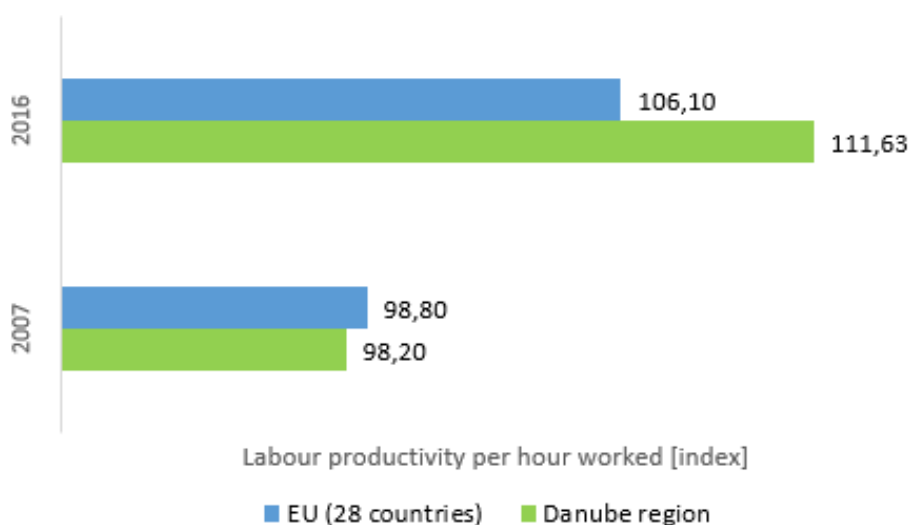
Main Economic Indicators

Services confidence indicator - index



Source: Illustration based on European Commission - Directorate-General for Economic and Financial Affairs (DG ECFIN)

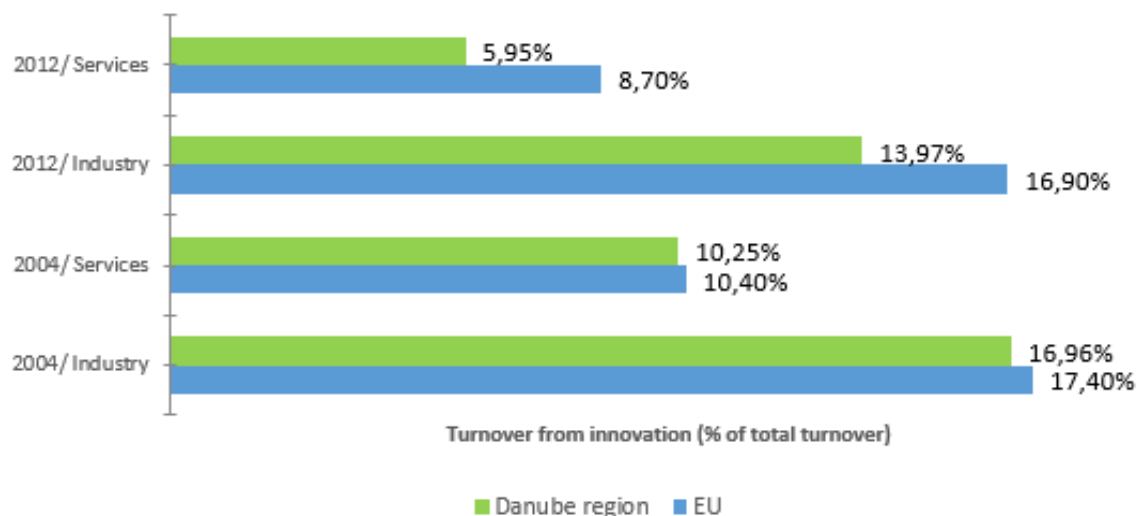
Labour productivity per hour worked - index



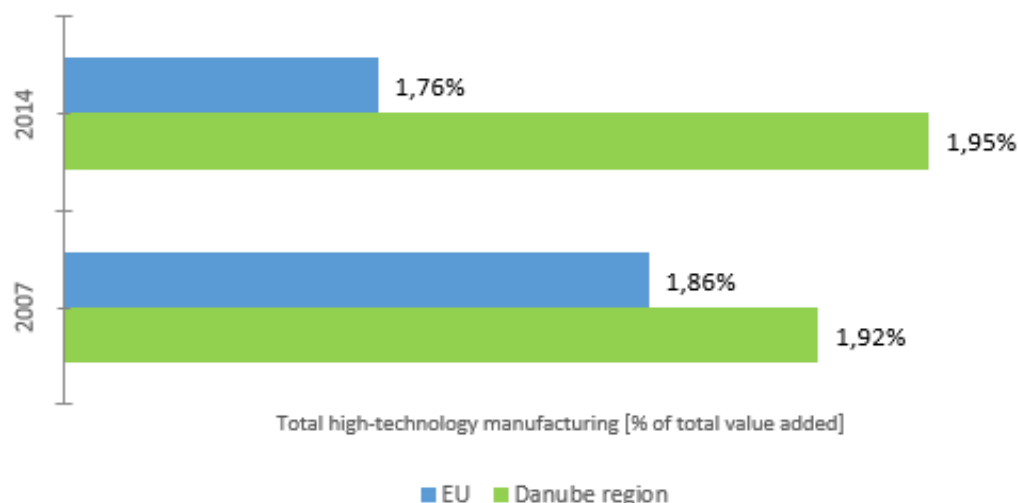
Source: own construction based on Eurostat dataset

Innovation Indicators

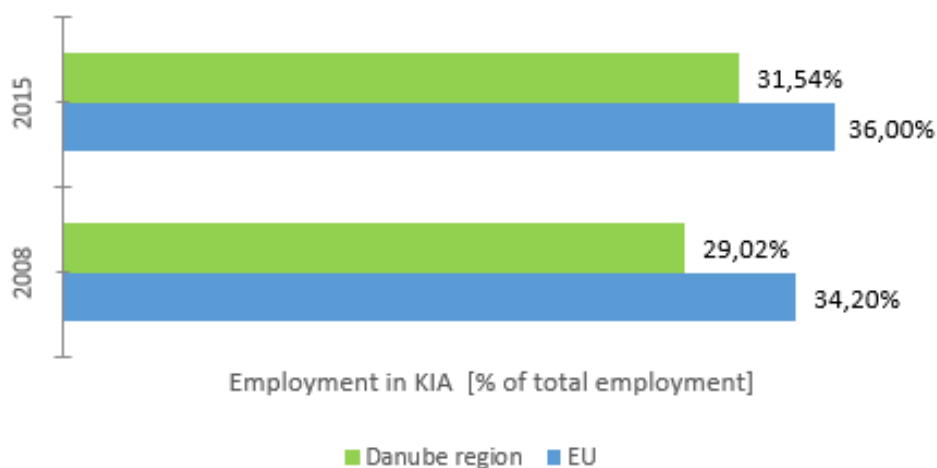
Turnover from innovation (% of total turnover)



Total high-technology manufacturing (% of total value added)



Employment in KIA (% of total employment)

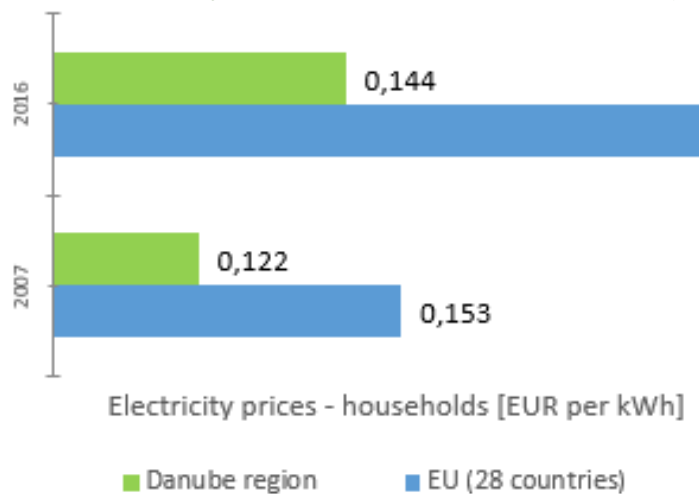


* Knowledge-Intensive Activities (KIA)

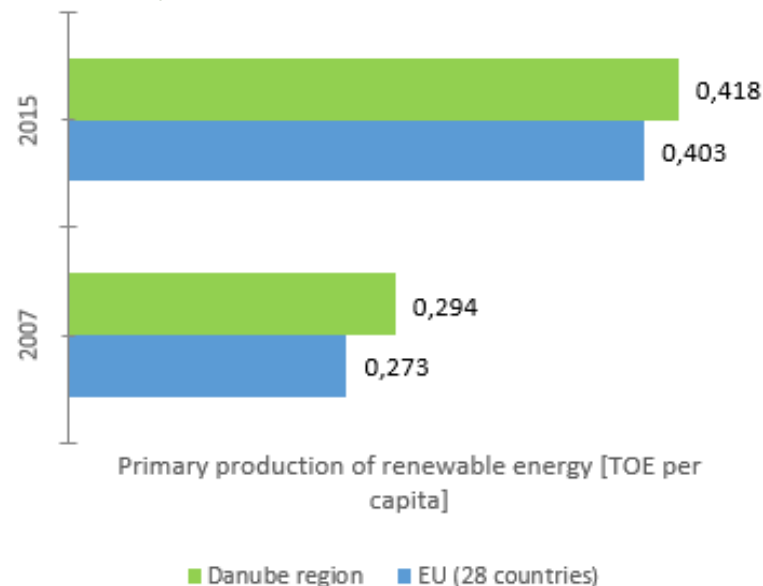
Source: Illustration based on Eurostat dataset

Energy Indicators

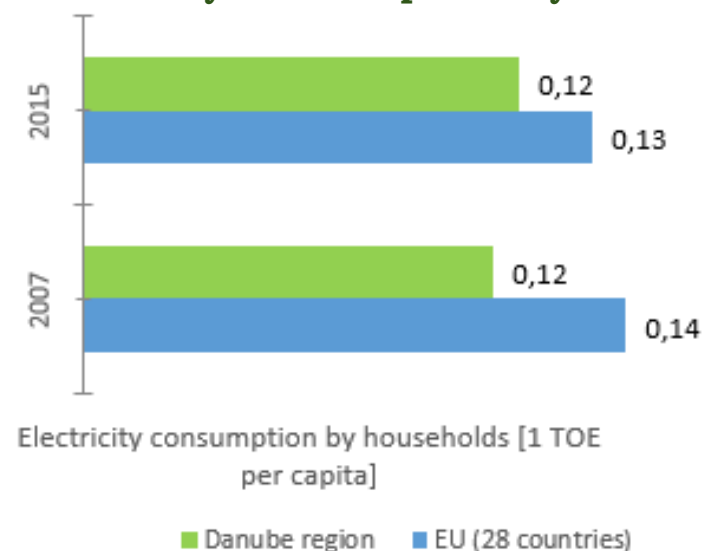
Electricity prices - households (EUR per kWh)



Primary production of renewable energy (TOE per capita)



Electricity consumption by households (1 TOE per capita)

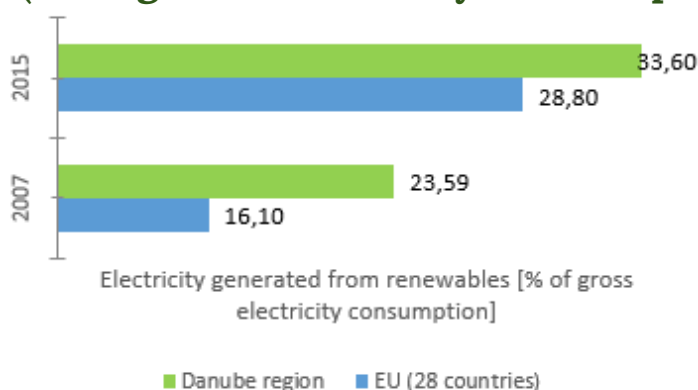


* Tonnes of oil equivalent (TOE)

Source: Illustration based on Eurostat dataset

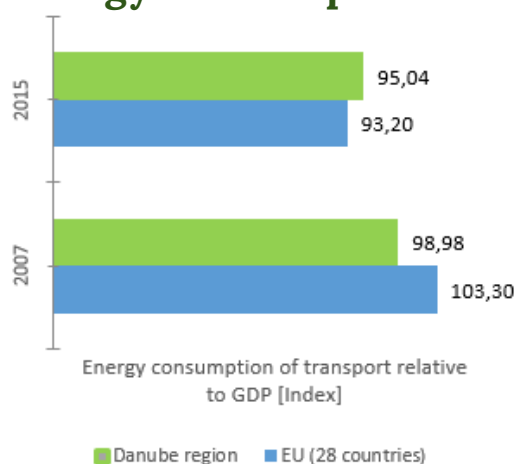
Energy Indicators

Electricity generated from renewables (% of gross electricity consumption)



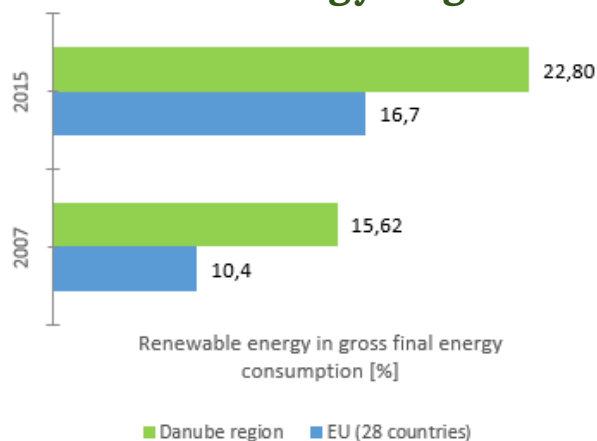
Source: Illustration based on Eurostat dataset

Energy consumption of transport relative to GDP (index)



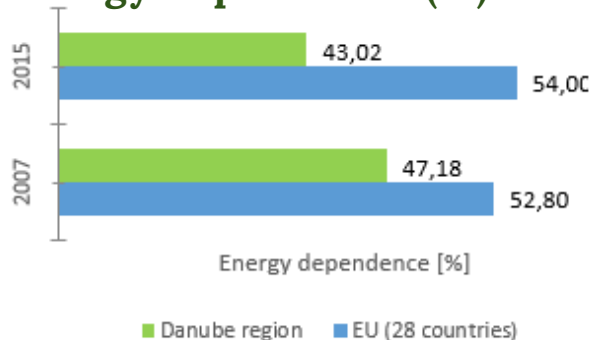
Source: Illustration based on Eurostat dataset

Renewable energy in gross final energy consumption (%)



Source: Illustration based on European Environment Agency (EEA)

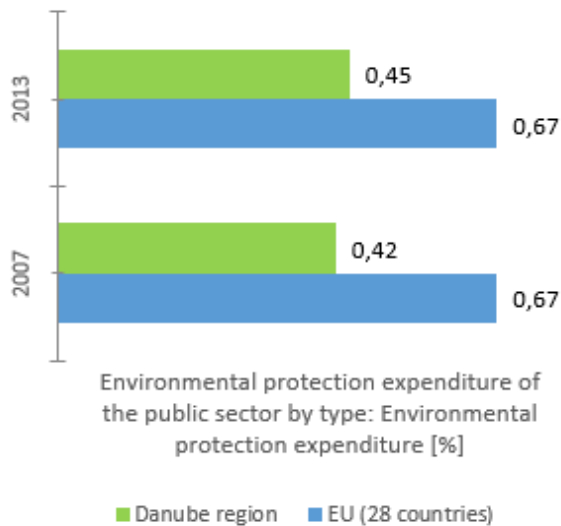
Energy dependence (%)



Source: Illustration based on Eurostat dataset

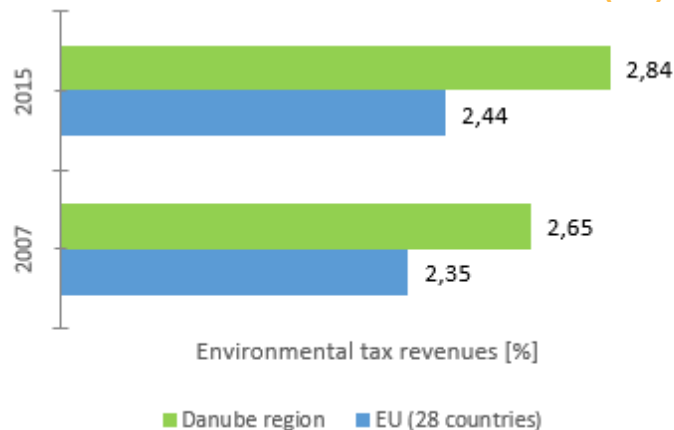
Environmental Indicators

Environmental protection expenditure of the public sector by type: Environmental protection expenditure (%)



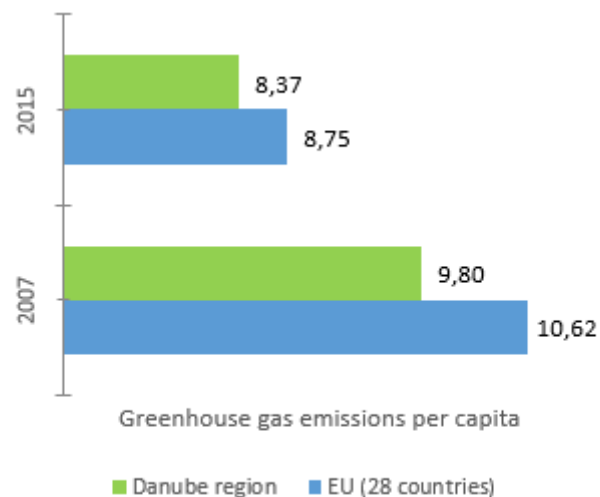
Source: Illustration based on Eurostat dataset

Environmental tax revenues (%)



Source: Illustration based on Eurostat dataset

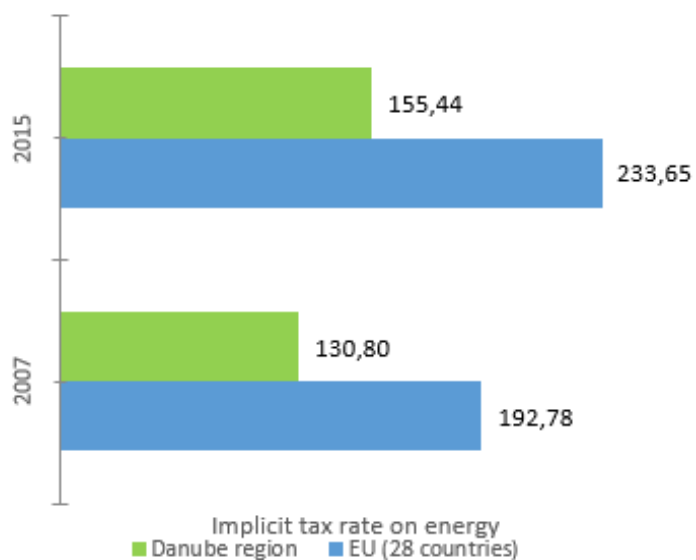
Greenhouse gas emissions per capita



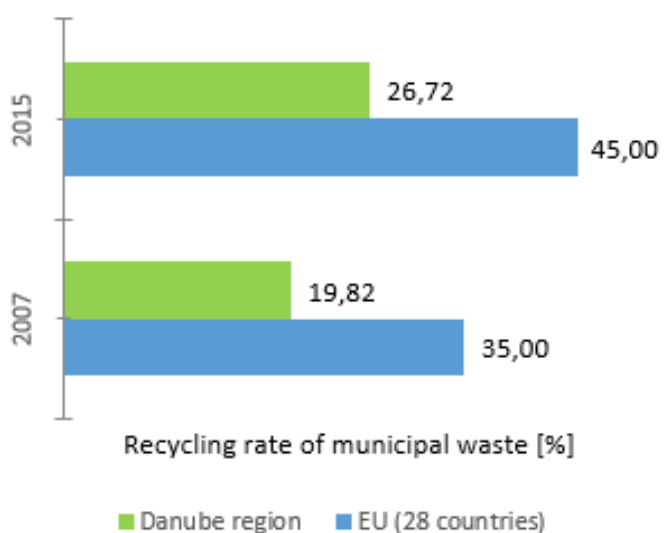
Source: Illustration based on European Environment Agency (EEA)

Environmental Indicators

Implicit tax rate on energy



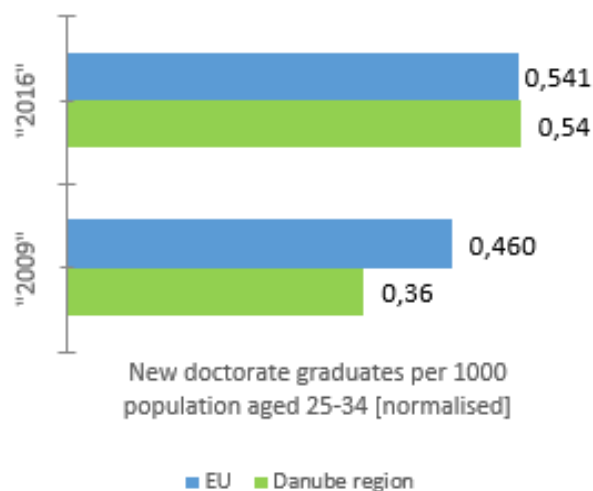
Recycling rate of municipal waste (%)



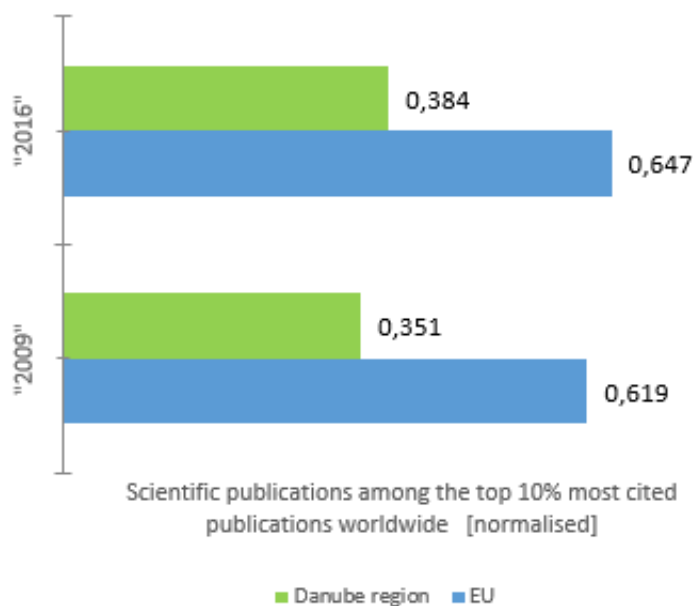
Source: own construction based on Eurostat dataset

European Innovation Indicators

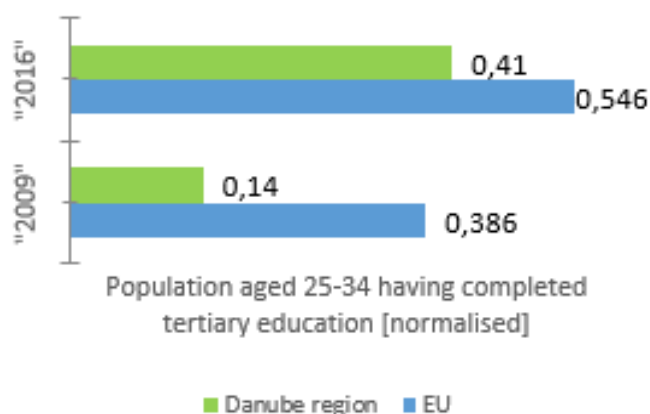
New doctoral graduates per 1 000 population aged 25 -34



Scientific publications among the top 10% most cited publications worldwide



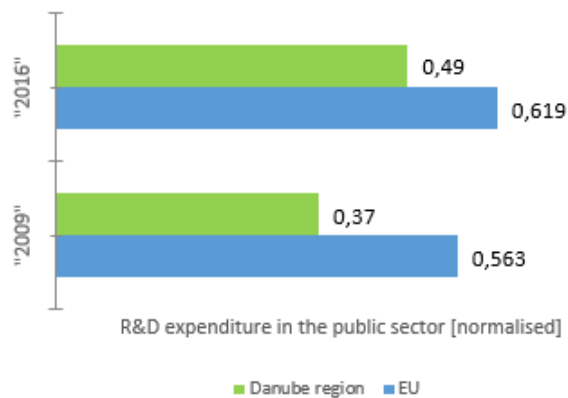
Population aged 25 - 34 having completed tertiary education



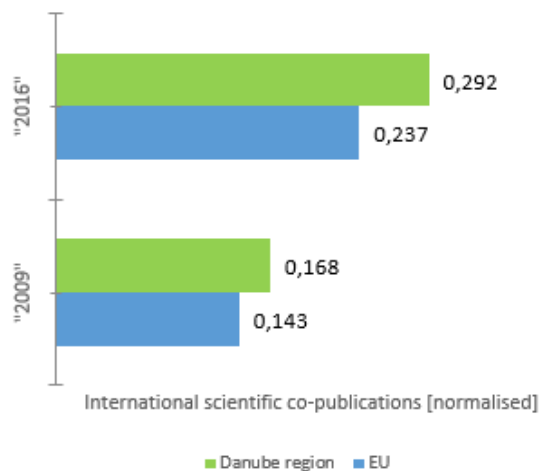
Source: Illustrationn based on European Innovation Scoreboard 2017 Database

European Innovation Indicators

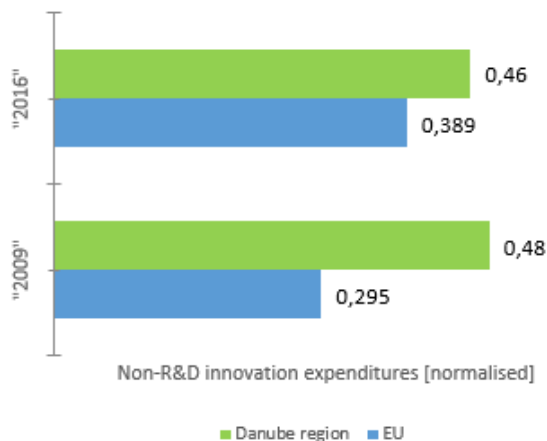
R&D expenditure in the public sector



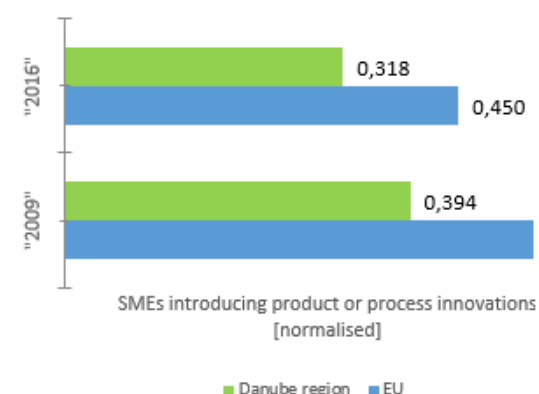
International scientific co-publications



Non-R&D innovation expenditures



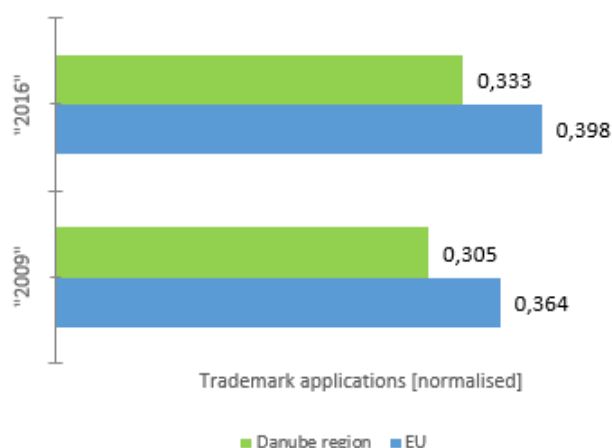
SMEs introducing product or process innovations



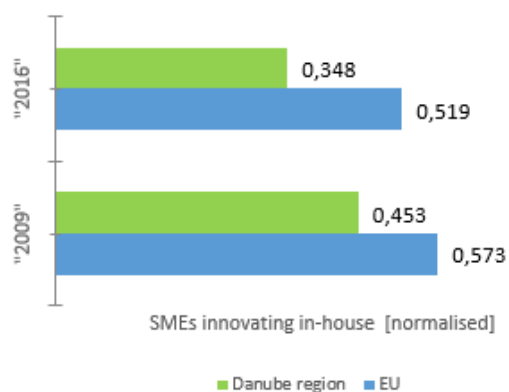
Source: Illustration based on European Innovation Scoreboard 2017 Database

European Innovation Indicators

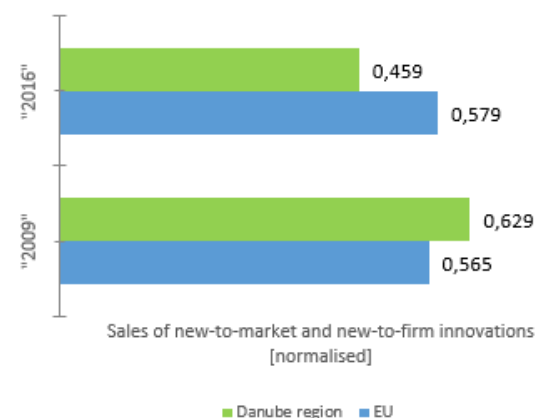
Trademark applications



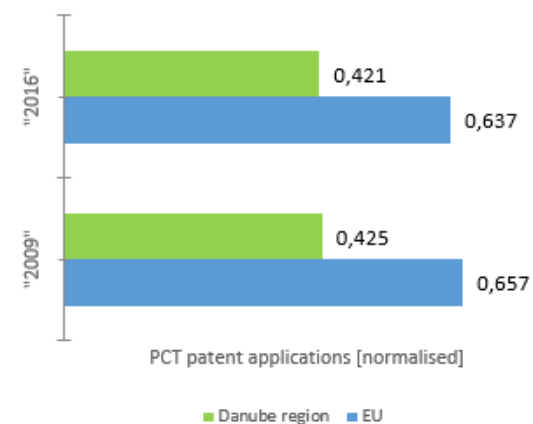
SMEs innovating in-house



Sales of new-to-market and new-to-firm innovations



PCT patent applications



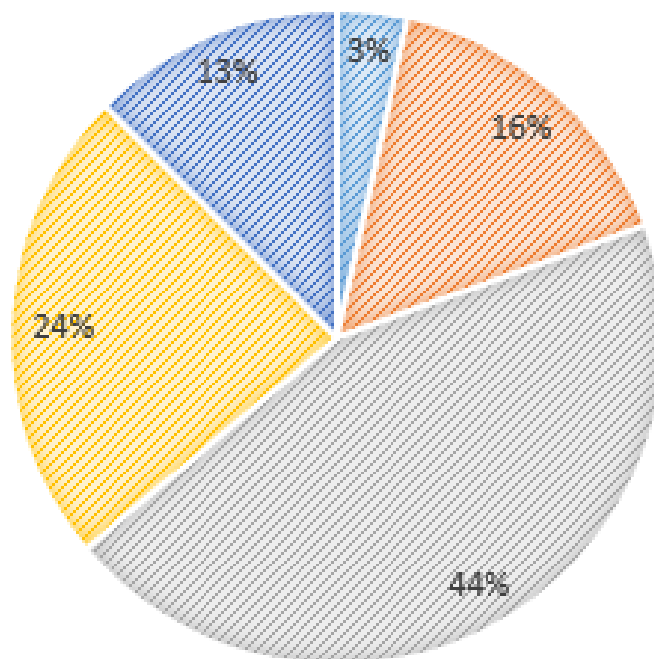
*The Patent Cooperation Treaty (PCT)

Source: Illustration based on European Innovation Scoreboard 2017 Database

Public Perceptions of Ecology

Private companies opinion on how eco-innovation helps to improve company's business:

■ Not at all ■ Very little ■ Moderate ■ Quite ■ Fully



Source: Survey on eco-innovations in the Danube region - EcoInn Danube project:
<http://bit.ly/2psitbi>



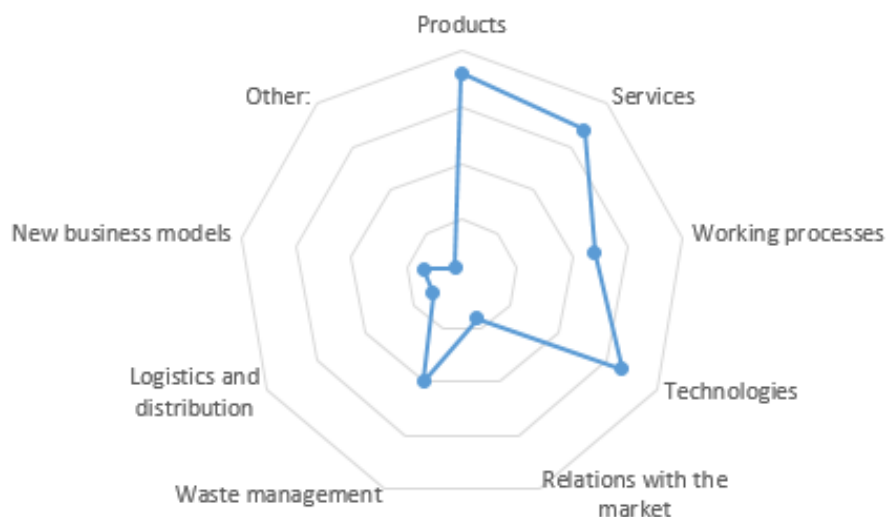
Public Perceptions of Ecology

Areas of the biggest need for eco-innovation



Source: Survey on eco-innovations in the Danube region – EcoInn
Danube project: <http://bit.ly/2psitbi>

Areas of eco-innovations according to survey



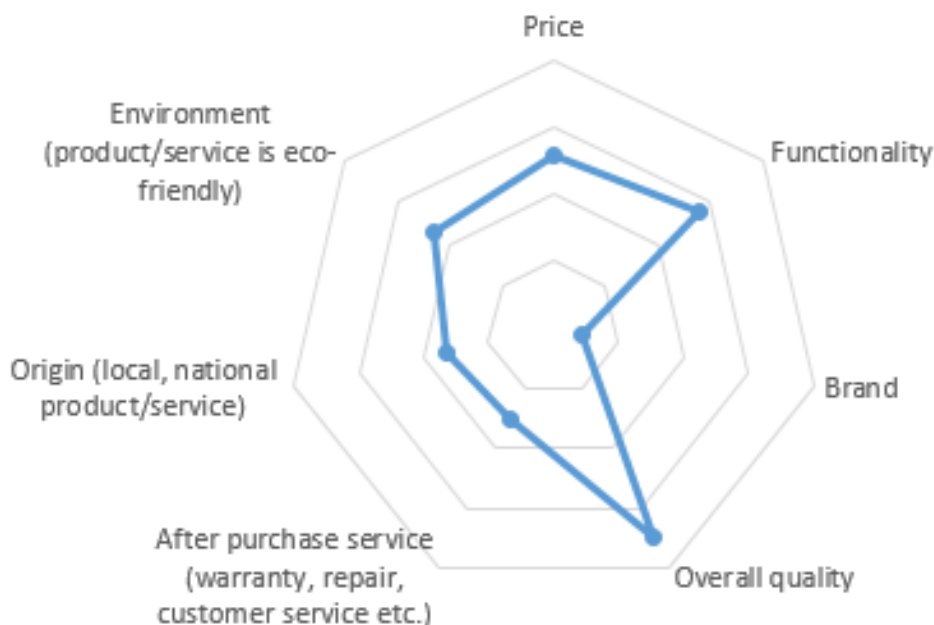
Source: Survey on eco-innovations in the Danube region – EcoInn
Danube project: <http://bit.ly/2psitbi>

Public Perceptions of Ecology

The survey carried out within the EcoInn Danube project in 2017 completed by 812 participants representing private companies, R&D institution, NGOs, public authorities and general public; and consumers has identified factors influencing the most the choice of products: quality of product 23%, functionality 19%, price 17%, eco-friendliness 16%.



Responses on importance of various factors when choosing a product or service



Source: Survey on eco-innovations in the Danube region – EcoInn Danube project:
<http://bit.ly/2psitbi>

Stakeholder Meetings

Identified issues of eco-innovations in the Danube region

Cooperation

- weak links among the existing systems and clusters
- low level of cooperation between research and practice
- local authorities, municipalities are not sufficiently engaged in ecology projects

Finance

- limited financial resources and inefficient use of resources
- existing resources are uncoordinated

Communication, promotion

- general public has a low level of knowledge of eco-innovation
- lack of communication of best practices of eco-innovations

Education, assistance

- lack of ecology education (in schools, and also in tertiary education)
- inexperienced entrepreneurs (management, legal, economy skills)

Legislation

- complicated legislation subject to frequent changes
- tax regulations
- low integrated legislation within Europe

Special problem in the Eastern countries: brain-drain



Stakeholder Meetings



Examples of Successful Eco-innovations

Company name: JKH Kft

Country: Hungary

The containerised, off-grid electricity-producing and power-system storage is capable of supplying electricity to a household without interruption all-year-round at 3 x 16 Amp, max 10 kWh/day.

Growth strategy: the demand for an innovative solution to supply electricity to locations where there is no public grid came from a service provider. They faced a problem: where the distance between an existing grid and the consumer was more than 1,700 metres, the costs of connecting the consumer to the grid were unfordable both for the consumer and the service provider. They found that there were more than 6,000 such locations in Hungary alone. Not including international opportunities (e.g. Romania), the growth potential of the product is substantial.

This eco-innovative solution saves 7.8 tons of carbon dioxide per year from being released into the atmosphere, which is a significant impact in such a small location. Its economic impact is that it pays a return on the money invested right from the outset, since it is less expensive than to install the grid. The operating cost is so low as to be negligible. But the social impact is greater than the foregoing, an isolated family that has had no access to electricity now is “connected” to modern society, they can use household appliances – e.g. washing machine, TV, computers, etc. – and the Internet which is essential today.

ELECTRICITY

Examples of Successful Eco-innovations

Organization: Brno University of Technology, Institute of Landscape Water Management

Country: Czech Republic

WASTE WATER

As a matter of fact, all wastewater treatment technologies are ecological since they help improve water quality in rivers, tanks and reservoirs. The use of natural methods of wastewater treatment, among which we particularly include root treatment plants, has a series of eco-added values over other frequently used technologies:

- improvement of water quality due to quality treatment technology
- use of nature-friendly materials and processes
no need for a source of electricity (in an ideal case)
- smaller carbon footprint during construction and operation
- improvement of the water cycle and microclimatic conditions
- landscape-forming element and a bio-centre for small animals.

New technological solutions, new materials and the use of new procedures, particularly as regards constructed wetlands, are innovative features in our research outcomes.

Examples of Successful Eco-innovations

...

Environmental impacts and benefits: technology of constructed wetlands is a natural technology based on natural processes. These types of wastewater treatment plants are able to treat the wastewater appropriately, and their operation and construction is more environmentally friendly than for conventional water treatment plants. Constructed wetlands fit perfectly into the landscape and they can be a great bio-centre for small animals or birds.

Economic impacts and benefits: Investment costs for constructed wetlands are lower or comparable to other technologies. Operating costs are very low compared with those of other technologies, being tens of percent of these. This means that this technology is widely available to a number of customers who cannot afford another way to treat wastewater.

Social impact and benefits: The technology of the constructed wetlands is quite simple to build. Construction works can also be carried out by unqualified personnel, so the construction of constructed wetlands can provide employment opportunities for locals. Improving the quality of watercourses generally has a very positive impact on the social conditions and quality of life in a particular locality.

WASTE WATER

Examples of Successful Eco-innovations

Company name: PR Krajné, s. r. o.

Country: Slovakia

RECYCLING TEXTILES

STERED is a unique technology which recycles and adds value to mixed technical synthetic textiles used in automotive industry.

100% recycling of car textiles.

New material qualities: sound absorption, thermal insulation, vibrations damping, retention features, recuperative evaporation, repeatedly recyclable.

Patent-protected technology.

The textile for the car parts production has been specially developed to meet the needs of the automotive industry. It meets the high demands on sound-insulation, thermal and anti-vibration properties. An advantage over other conventional materials is also a greater resistance to moisture, mould, reduced flammability, mechanical resistance and, last but not least, it is hygienically sound and friendly to the human body.

Slovakia produces the highest number of cars per capita globally. At the same time Slovakia struggles with waste dumps, both legal and illegal. The issue of recycling textiles from scrapped vehicles has not been investigated either in Europe or in the rest of the world.

Examples of Successful Eco-innovations

**Company name: Kreisel Electric
GmbH & Co KG**
Country: Austria

Kreisel Electric GmbH develops and builds own products for stationary storage of electrical power and charging infrastructure. The company sees itself as solution provider, offering know-how in the fields of battery technology and car components as well as solutions for building technology and energy management.

Kreisel Electric GmbH offers not just one eco-innovative solution. In fact, all its products and services (the company provides both) carry a strict eco-innovative signature. On the one hand, Kreisel Electric has an in-house production of ready-to-use battery packs whose innovative and eco-friendly properties are most superior to those of any competitor. As a complementary product, the company presented its first stationary electrical power storage unit in 2016. These products are attracting increasing attention at the international scale.

ENERGY

Examples of Successful Eco-innovations

Company name: Holofon Zrt.

Country: HUNGARY

This eco-innovative solution reduces the amount of waste from plastics recycling. Instead of the waste going to landfill, the solution creates new products from it.

The treatment technology of solid intermediate waste is a process which reduces the amount of waste from plastic waste recycling. The current technology of plastics recycling generates two unwanted materials: a fraction of small plastic particles, mixed with other waste, and wastewater, which is discharged into the drainage system.

The innovative process developed by Holofon Zrt. affords not only the optimal treatment of the waste materials, but also sanitised and recycled water. The eco-innovative solution is therefore a way to reduce landfilled waste.

Recycled plastic drainage kerbs and recycled plastic posts have a number of clear advantages over concrete, wood and metal products. The recycled plastic products are biologically inert, waterproof, splinter-proof, maintenance-free, corrosion-resistant, do not conduct electricity, are safe to handle and are colourable.

Key drivers of the innovation included the New Széchenyi Plan Funds, the increasing level of landfill tax and increasing fees for drainage system use.

The primary motivation for the development of the process and products is to reduce the waste generated by plastics recycling.

RECYCLING PLASTICS

Examples of Successful Eco-innovations

Company name: AquaQube

Country: Czech Republic

The aim of AquaQube is to give people the opportunity to have a life with as little chemical influence as possible, as they already have too many chemicals in their life and, with current lifestyles, it is quite impossible to decrease it. AquaQube is an innovative device that increases the quality of life of its users via 2 modes – Drinking water and Active water.

In the Drinking water mode, the water is purified by the Advanced Oxidation Process (AOP) and bacteria, viruses, parasites, chlorine or other chemicals are eliminated. In the Active water mode, water with dissolved active oxygen is produced. This active oxygen acts as an ecological disinfectant since it reacts with any impurities that it encounters.

Active water has multiple applications, but some prime applications are: prolonging the freshness of fruit, vegetables or meat by 2- to 3-fold, removing chemicals or pesticides from the surface of fruit/vegetables, the ecological disinfection of surfaces at homes – instead of chemicals, using Active water instead of a mouthwash.

ACTIVE WATER

Examples of Successful Eco-innovations

**Company name: GREEN CITY
SOLUTIONS**

Country: Germany

The CityTree is a mobile and intelligent biological air filter for interior and exterior use. The innovative construction – with or without a bench – uniquely combines the natural abilities of air-purifying mosses with cutting-edge Internet of Things (IoT) technology.

The CityTree makes it possible to overcome the obstacles of implementing air-pollution-eating moss cultures in urban environments by means of IoT technology. It is adaptable to urban planning situations, reduces air pollution independently of its source and its impact is wholly traceable. It combines IoT technology with special, vertically-installed moss cultures and vascular plants that consume particulate matter (PM), nitrogen dioxide and ozone – offsetting 240 tonnes of CO₂ -equivalents per year in total. The CityTree has the same effect as 275 urban trees but requires 99 percent less space.

Every CityTree annually binds 150 kilograms of CO₂ via the growing process of the plants. In 24 hours, the plant filter could reduce up to 25 percent of fine dust and 25 percent of nitrogen oxides. Thus, the air is up to 30 percent cleaner, 17 degrees cooler and humidified at the device outlet.

AIR

Examples of Successful Eco-innovations

Company name: MP Centar
Country: Serbia, Novi Sad

In relation to other solar systems, REFLEXOL has a higher degree of utility of effect. The degree of energy efficiency is up to 85%. Unlike other solar panels, REFLEXOL uses both sunshine effects: heat and light.

The poor energy efficiency of existing energy systems were the market conditions and surroundings which prompted the eco-innovative solution.

The goal was to increase energy efficiency as much as possible and at the same time minimise the anthropogenic impact on the environment.

SOLAR SYSTEMS

Examples of Successful Eco-innovations

Company name: CENTROMETAL Ltd.
Country: Croatia, Medimurje County

HEATING

BioTec Plus – boiler with 2 combustion chambers and lambda probe.

BioTec Plus is one of the latest products/technologies developed by Centrometal Ltd. which entails steel hot water boiler with two combustion chambers and it is intended for burning wood pellets and logs. The main functions are:

- **Hot water boiler with two combustion chambers for burning logs and wood pellets, with power output of 25, 31, 35 or 45 kW;**
- **Compact boiler of high efficiency and low maintenance (with the standard built-in automatic cleaning of the grate of pellet combustion chamber, it is possible to order additional automatic cleaning of flue-gas tubes);**
- **Boiler operation is managed with an integral boiler-control unit using the lambda probe, boiler sensor, a temperature sensor in the wood gasification boiler combustion chamber and flue-gas temperature sensor by flue-gas modulating fan;**

Examples of Successful Eco-innovations

...

- Modulating boiler operation (30 –100%);
- Filling level sensor in the pellet tank.

Using pellets the set-time switch can automatically burn the wood already in the wood gasification part of the boiler.

It is engineered for installation in open or closed heating systems only through the accumulation tank (CAS), volume min. 50l/kW.

The boiler is tested and certified in accordance with EN303-5: 2012 and meets Class 5. It is manufactured in accordance with ISO 9001 and ISO 14001 standards. Innovation in the form of two combustion chambers enables end-users to retain minimum warmth by burning pellets during the time when no one is in the house/building and then in the night-time or during the weekends to burn logs.

Also, the device is fitted with a newly developed multifunctional digital controller with a colour touch screen which conducts the wood gasification-burning process in the log-burning boiler and can automatically turn on the wood pellet-burning part of the boiler when there are no logs remaining in the boiler.

HEATING

Examples of Successful Eco-innovations

Company name: Chockie

Country: Bulgaria

Chockie is an automation device for b2b clients (small hotels, offices and enterprises). It can decrease electricity bills, while controlling air-conditioners and other devices in a smart way. This can be achieved manually, through smartphone or Chockie's website.

Currently, devices such as air-conditioners do not work in a smart and efficient way. They can only be controlled locally and they consume a great deal of power.

The motivation for creation of this product was the lack of a proper solution, because we already know it is possible to use electrical devices in a smart way, but nobody was implementing it. For example, many small hotels have air-conditioners in their rooms but guests need to be inside the room in order to adjust the temperature to their comfort; which is not acceptable in the 21st century. That was the biggest motivation – to make technology work for our comfort.

Examples of Successful Eco-innovations

Company name: SIČ MOTORS ENERGY
Country: Serbia

New transmission and new petrol engine technology. Increases the power of petrol engine. Reduces CO₂ emissions. Increases the efficiency in rotating parts in the gearbox.

The motivation to develop this eco-solution was to preserve the environment and conserve global energy; the company seeks energy efficiency and reduction of CO₂ emissions.

Global dominance of big companies was the most significant factor in the success of this eco- innovative solution.

CO₂

Examples of Successful Eco-innovations

Company name: Aurora 3M+ d.o.o.
Country: Slovenia

Aurora 3M +, d.o.o. is a young innovative start-up company that develops energy-efficient heating systems. Their main product is the Ecocell® heating system, an electric ion boiler with a special liquid that allows cogeneration (production of heat with electricity). It belongs to the family of wall mounted boilers intended for storey apartment central heating.

The energy source used for heating is electricity. It is an ideal way of heating in urban areas and in areas where there is a limited access to other energy sources. The Ecocell provides thermal comfort even for the most demanding users. Using ecocell ion electric boiler will contribute to the conservation of the environment, due to its high efficiency. Main advantages include easy maintenance, product longevity, small energy consumption and ease of installation.

Examples of Successful Eco-innovations

Company name: ENSO-D d.o.o.

Country: Slovenia

ENSO-D is a company that develops innovative products in the areas of green energy, water conservation and filtration systems. Main products include the EVOLUTION 200 (an ultrafiltration unit for water purification), GPCS (a water recycling system for automatic carwashes) and the AQUATOR (a mobile hybrid-solar powered ultrafiltration system).

The company is also developing the DSE-5 unit for desalination of sea water with solar energy. The company is a member of the Technology park Ljubljana and is part of the cluster of the Slovenian defence industry. The company is based in Ljubljana but has established partner organizations from many countries around the globe.

WATER

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