



# Good practices of industry-academia co-operation in Poland

Przemysław Sobański and Marcin Wiatrów

Ministry of Science and Higher Education

Departament of Innovation and Development

# Major challenges:

- Need for a helping hand for entrepreneurs in finding the appropriate sources not only co-finance, but also knowledge;
- Need for a guidepost in a complex maze of rules and regulations, especially for SMEs;
- Increasing awareness of scientists about possibilities of cooperation with business and providing them proper knowledge;
- Bridge connecting Polish business and academic entities with their international counterparts;
- A forum to discuss global issues, to address them in a coherent manner.

# How to address challenges?

- provide instruments supporting R&D conducted on the level of entrepreneurs (OP SG)
- provide competences as regards R&D activities (TOP500Innovators)
- develop a comprehensive support mechanisms for the whole cycle of innovation (TANGO, GEKON)
- build an institutional support for transfer of knowledge (Lukasiewicz Research Network).

# **GEKON**

**10 technology readiness levels**

**Research + Development + Implementation**

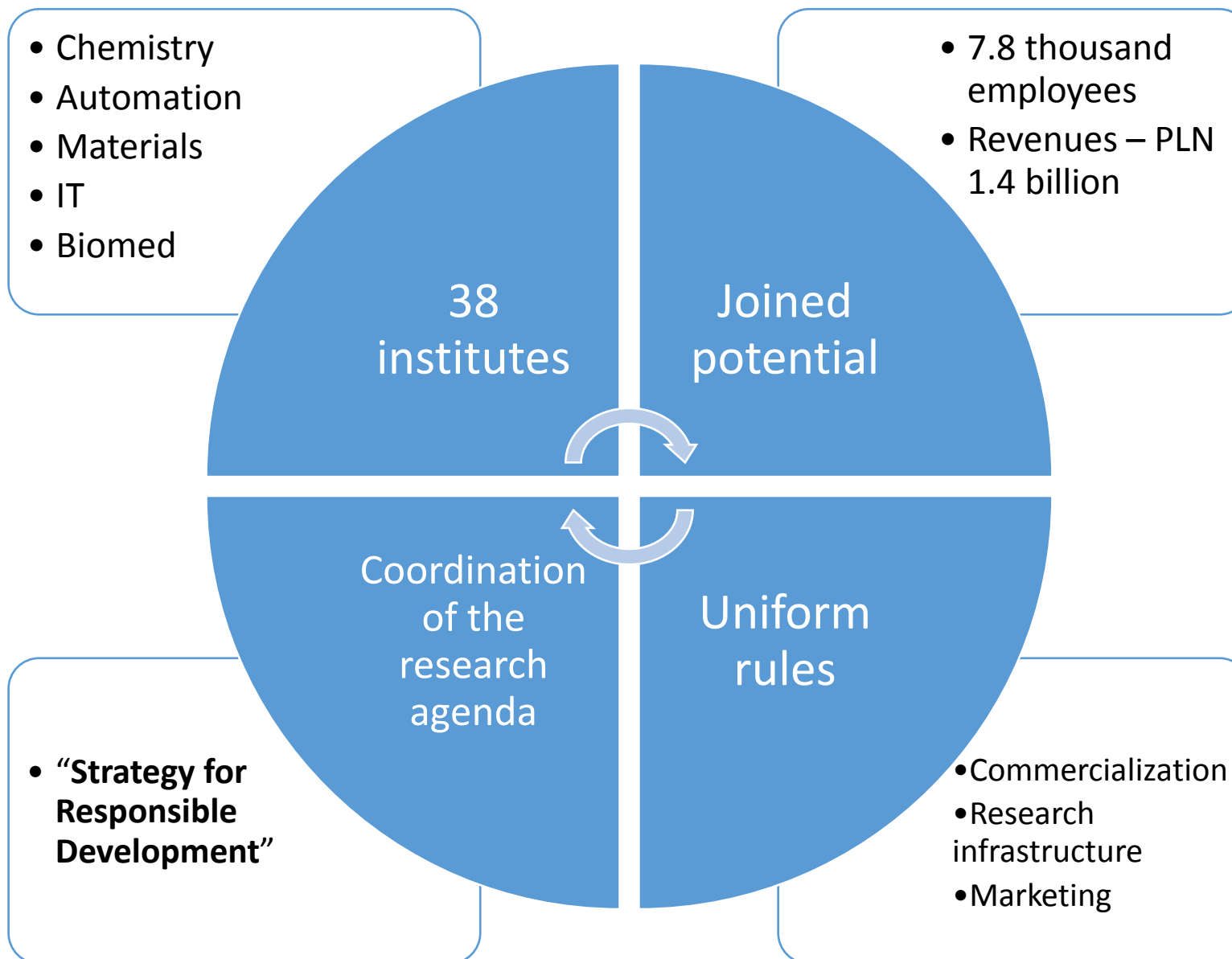


200 millions PLN

max. 4 years

200 millions PLN

# Łukasiewicz Research Network (in 2018)





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**Case studies from Poland**

## Case study 1

# *innovation in middle town*

Title, consortium,  
UE funding

- „**Graphen containing thermal insulation materials with reduced thermal conductivity**”
- University of Technology and Humanities in Bielsko-Biała & Semper Paints Limited liability company
- Smart Growth Operational Programme 2014-2020, Regional scientific-research agendas, NCBR cofunding: 3 668 461.59 PLN (below EUR 900 000)

Short description  
of project

- **The objective is to conduct research, which will result in the development of technology of production of styrofoam process, modified with graphene, exhibiting enhanced thermal insulation properties.** The project intends to implement in industrial partner's production, a new insulation material "Graphene Styrofoam", which will be used in: houses, public buildings and industrial buildings, packaging and so on.

What is  
important

- The idea of use graphen is well known also in Poland (but rather in nanoelectronic) however up to now the using graphen on industrial scale is relatively rare.
- Focus on graphene platelets instead of more expensive large-area single-layer graphene (typically used in nanoelectronic) – where large capital necessary and there are not potential clients in Poland .
- Possible future steps – initial talks with companies in the automotive or aviation industry, with producers of cables, fibers, etc
- Middle town, small University and local company.

## Case study 2 *food from worms*

### Main information

- Two EU co-funded project via NCBR(The National Centre for Research and Development). **Bridge Alfa** - allowed to finance research and develop a method of breeding insects for fodder. **Fast Route** – commercialization.
- Startup Hub Poland seed fund and Giza Polish Israeli VC fund invested in the project on pre-seed stage of development. With a help of the funds from NCBR **HiProMine** was brought to life in 2015 (in Robakowo, Robakowo means Wormville).  
<http://www.hipromine.com>

### Short description of idea

- **The main idea is quite simple - industrial breeding of insects for food purposes.** Insect products are a source of protein, fat, fiber (chitin) and minerals not contaminated with any impurities. Insect protein may replace soy protein, whey protein or fish. Main focus is now on the **production of animal feed. Insect food is a cheaper alternative, and at the same time ecological**, due to the very low emission of greenhouse gases during production and the fact that it is waste-free.

### What is important

- **3 individual scientists**, who started with insect farm in 2010. University partners rather from abroad.
- **Possible answer to the global challenge** – how to produce food cheaper and more ecologically in the context of growing number of world population (Deloitte prize for potentially disruptive technology)
- **The technology is fully scalable** – possibility of global expansion
- **New possibilities** – oil in **pharmaceutic and cosmetic industry.**
- **What was the most difficult? Are there dark sides of grants?**



## Case study 3

# *not only industry – cinema for all!*

Title, consortium,  
UE funding

- „**Audio Movie**”, many partners in consortium: Foundation Siódmy Zmysł, Instytut Techniki Innowacyjnych EMAG, Jagiellonian University, Cinema „Kino pod Baranami”, Foundation on Development Audiodescription „Katarynka”, Center for Technologies Transfer EMAG
- EU Programme **Social Innovation** with NCBR support
- <http://audiomovie.pl/>

Short description  
of project

- **Project "AudioMovie "** aims to create an **innovative solution** involving the development of an application **for mobile devices** (smartphone and tablet ) which will allow for reproduction of audio description (AD ) and audio subtitles (AS) **in cinemas and during film festivals for individuals with visual or hearing impairment or dyslexia**. At the moment, all these people due to congenital or acquired disability, have limited access to culture and are excluded from the society.

What is  
important

- good example of cooperation of scientific institutions, non-governmental organizations and entrepreneurs
- good example of cooperation between filologist and IT specialists and joining language studies and IT
- counteracting social exclusion



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and Higher Education

Republic of Poland

**Thank you for your attention**