



NUTRIBIOMED Cluster



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NUTRIBIOMED Cluster

The NUTRIBIOMED Cluster is a scientific and industrial consortium.

The Cluster was established in 2007 as an initiative of Prof. Tadeusz Trziszka from Wrocław University of Environmental and Life Sciences as well as the Board of Wrocław Technology Park

At present, the Cluster consists of:

- 8 institutions of higher education,
- 3 business environment institutions,
- 44 (SME) companies mainly from the food, biotechnology, pharmaceutical and biomedical industries.

Wrocław Technology Park is a formal coordinator of the NUTRIBIOMED Cluster.



NUTRIBIOMED

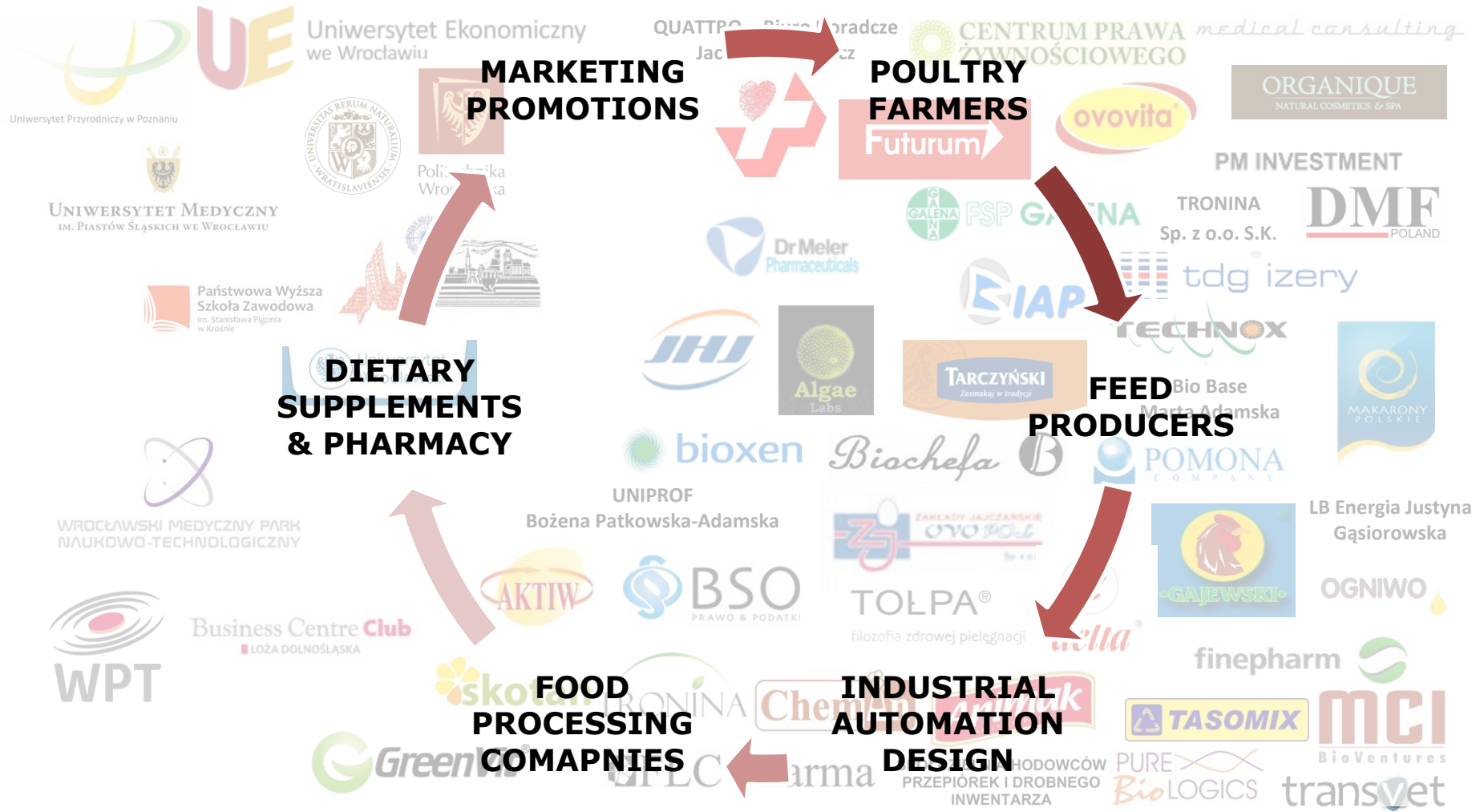
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Members

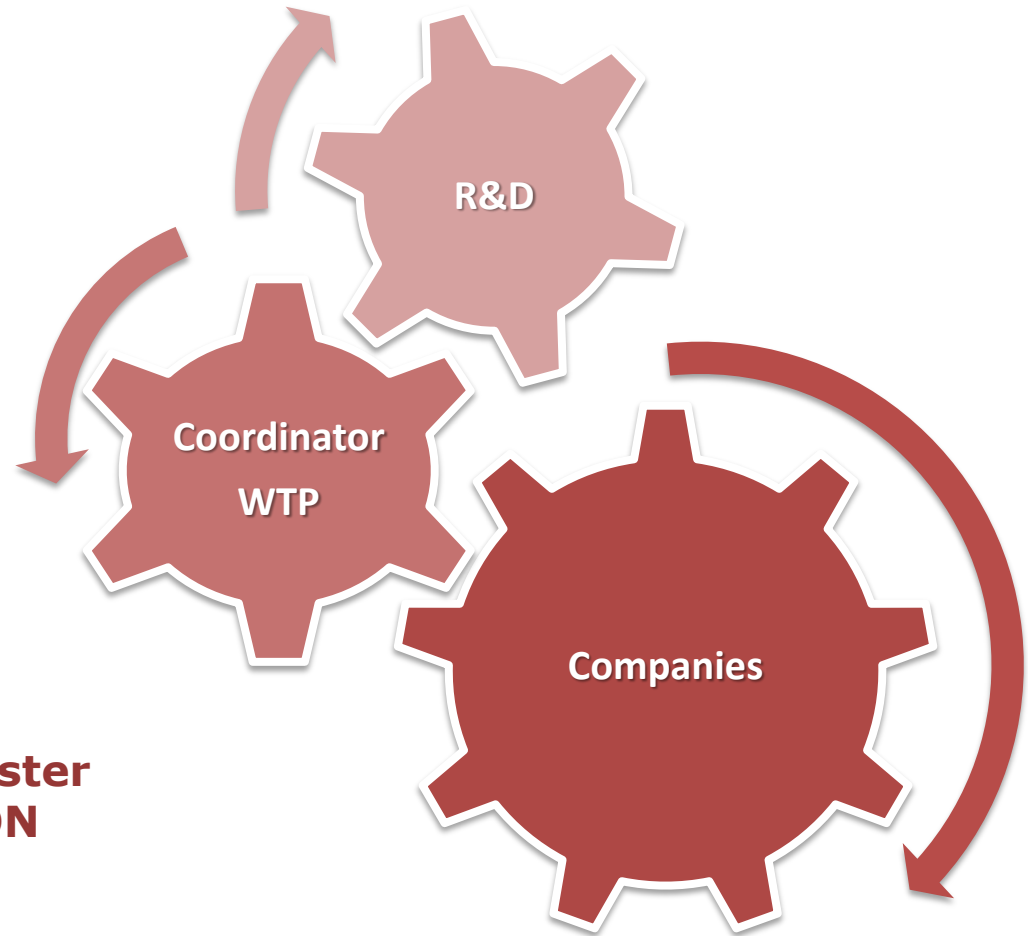


Aims

**FUNCTIONAL FOOD,
DIET SUPPLEMENTS
and
NUTRACEUTICALS
PRODUCTION**

**TECHNOLOGY
TRANSFER**

**NUTRIBIOMED Cluster
BRAND CREATION**



Coordinator

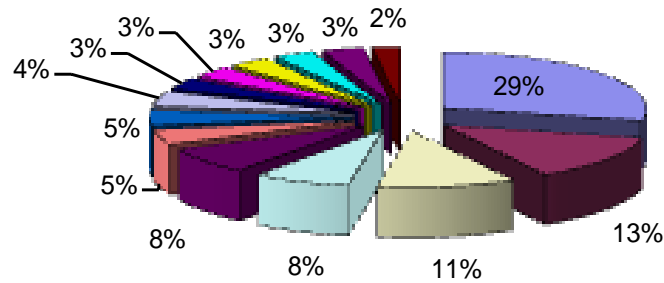
Wroclaw Technology Park

- **15 years** of experience
- **40 000 m²** offices, laboratories and production space
- **10 laboratories** with the new equipment
- innovative technological line **NUTRIBIOMED**
- **150** innovative enterprises mainly **SME**
- **1350 persons** employed in these enterprises
- **90 spin-off's** and **spin-out's companies** were incubated in the **Lower Silesian Academic Incubator of Entrepreneurship**
- **60** children in the **kindergarten TECHNOLUDEK**
- **supplier** of the high-tech technology apparatus for the European X-Ray Laser Project **XFEL**
- **13,5 ha Investment Areas**



Coordinator

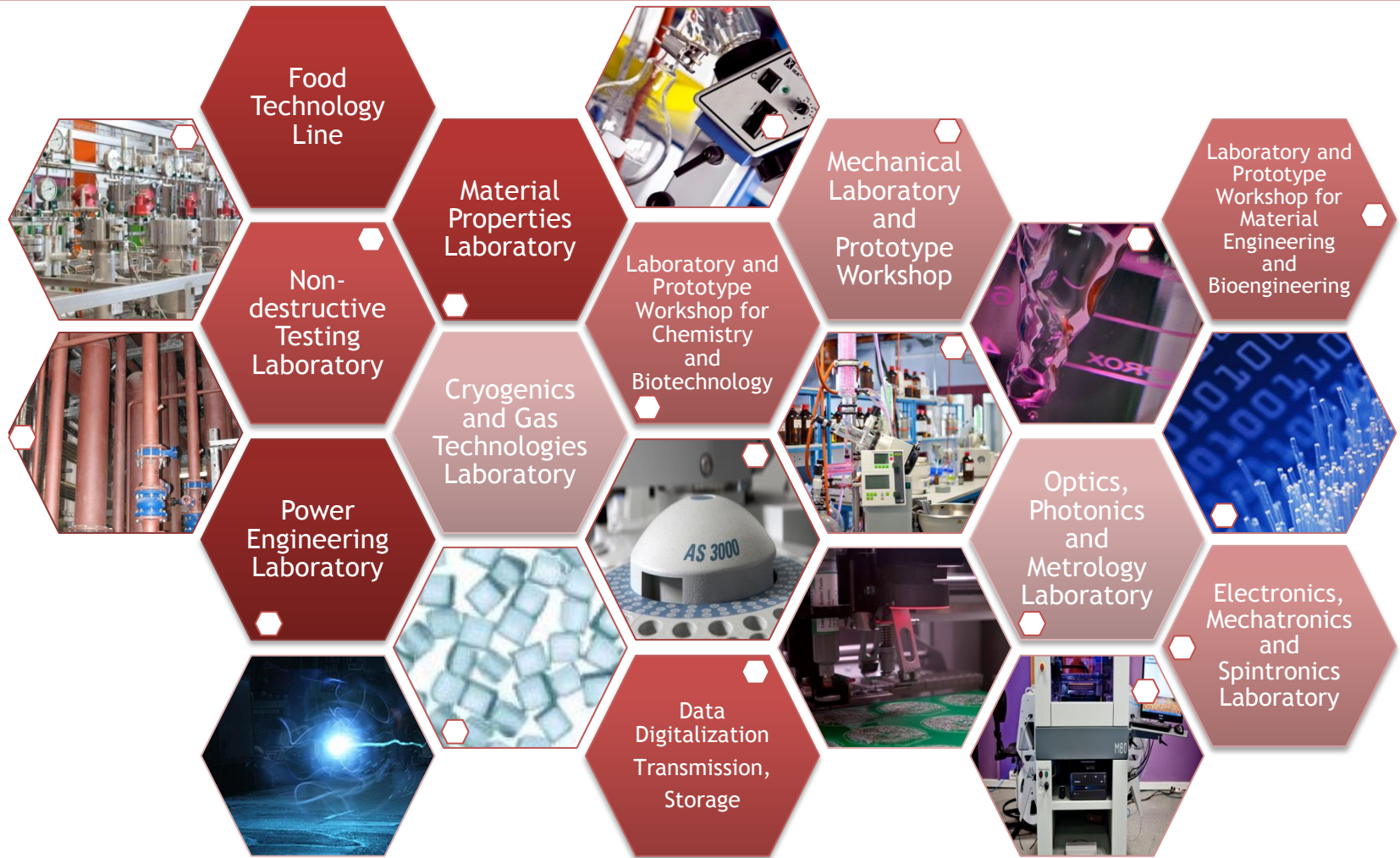
Market sectors



- | | | | |
|--------------------------|----------------------------|--------------------------|--------------------------|
| IT | Electronics | Consultancy and training | Construction engineering |
| Power engineering | Telecom | Chemical engineering | Metering equipment |
| Environmental protection | Medicine | Mechanical engineering | Other |
| Biotechnology | Material-related solutions | | |



Coordinator – Labs & Workshops



Coordinator – Expertise

Wroclaw Technology Park is a member of a consortium concerned with supporting projects:

Construction of Large Hadron Collider CERN, Geneva

Construction of the X-Ray Free-Electron Laser XFEL, DESY, Hamburg

Construction of the FAIR Synchrotron, GSI Darmstadt

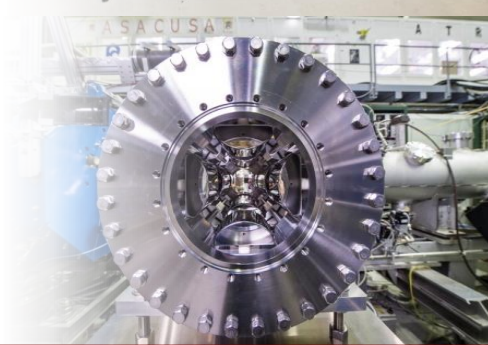
Construction of the Wendelstein 7-X stellarator, Greifswald

Construction of the ITER tokamak, Cadarache

Big Science

Official commissioning of the Polish contribution (Wroclaw Technology Park's part) in the accelerator module test facility of new X-ray laser European XFEL with Massimo Altarelli (European XFEL), Barbara Kudrycka (Poland's Minister of Science and Higher Education), and Helmut Dosch (DESY).

European XFEL and DESY



Commercialization

Project is supported by the **EU structural funds** (2007-2013) within the Operational Programme Industry and Enterprise (OPIE, Priority 5.1)

The investment lead to the **development of a diet supplement production line** - over **3 million EURO**.

The production line has implemented GMP/GHP systems and certificated HACCP system.

Production line system is combined **with laboratory** and serves as a **complete solution for the designing, testing and production of new products in food sector**.

Additionally WTP supports companies in development of innovative technologies by granting *de minimis* public aid.

Technology development and production

Innovative solutions led to new, high quality products.

Several technologies developed on the production line resulted in a patent application and a product on the market.

Examples of technologies developed on the production line as a result of cluster's internal cooperation

- egg yolk phospholipids enriched in DHA - chemical and supercritical fluid extraction;
- ultra pure β - glucan, insoluble dietary fiber and oats protein;
- improved bioavailability calcium citrate from egg shells;
- MUFA esters synthesis;
- lysozyme from egg white;
- biologically active substances from Colostrum;
- biologically active polyphenolic substances;



Internationalization

European Strategic Cluster Partnership for "Food, Health & Wellbeing"

• **Fondazione Parco Tecnologico Padano (Lombardy, Italy)** www.tecnoparco.org

• Agropolis International (Languedoc-Roussillon, France) www.agropolis.org

• East

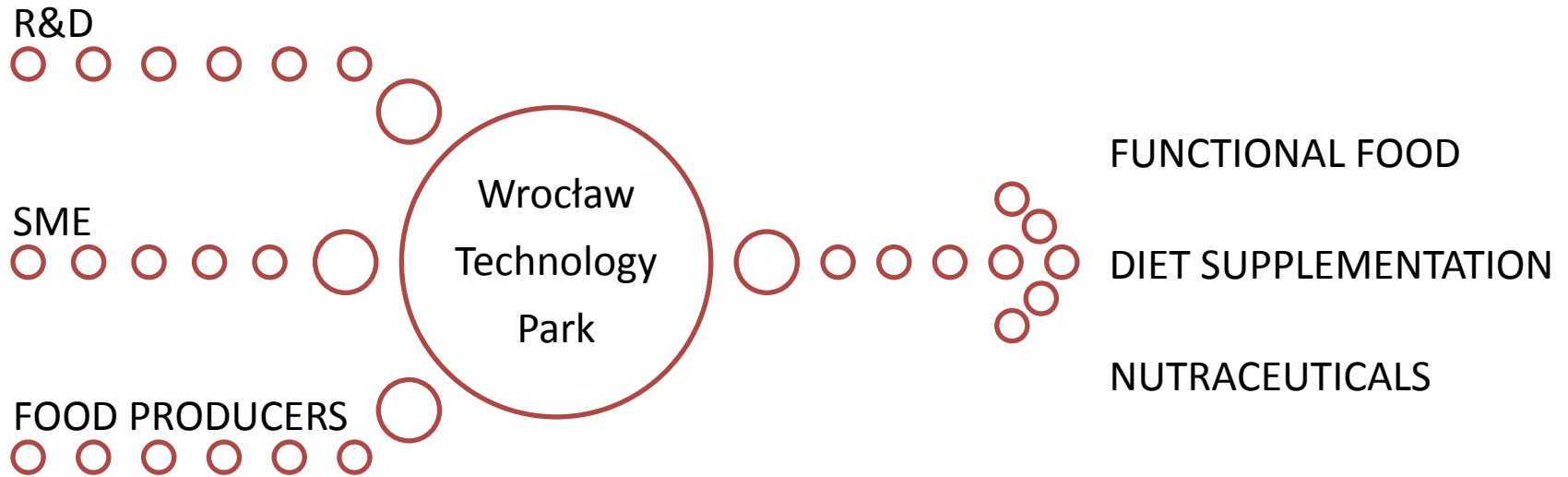
• **NUTRIBIOMED Cluster takes part in European projects to, e.g.:**

- **U**
- **F**
- **M**
 - Strengthen the collaboration and networking;
 - Exchange good practices;
 - Create the good background for SME to collaborate with foreign partners;
 - Strengthen export outside Europe;
 - Strengthen knowledge development and its implementation to the companies;
- **T**
- **T**
- **F**
- **C**
- **E**
- **E**

The partnership aims at intensifying cluster and network collaboration across borders and sectoral boundaries leading to "European Strategic Cluster Partnerships" in the AgroFood sector and related sectors, from Biotech to New Materials and Machinery



The best practices



NUTRIBIOMED Cluster have been chosen as one of 35 clusters and clustering initiatives* (out of 246 registered clusters in Poland) to take part in Clusters Benchmarking in Poland (2012).

The NUTRIBIOMED Cluster is the best in:

- Infrastructure resources of clusters
- Creation of knowledge innovations

• According to Polish Agency for Enterprise Development

Summary



NUTRIBIOMED Klaster®

Thank you for your attention!

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