



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education "Industry Contact Points for the Horizon Europe Research and Innovation Framework Programme"



Industry
Contact
Point
Medical
Technologies
and Health



Industry
Contact
Point
Digital
Transformation



Industry
Contact
Point
Industry 4.0

LOWER
SILESIA



DOLNY
ŚLĄSK

STUDY VISIT & MATCHMAKING

Digital hospital

Please wait

Organisation name: Łukasiewicz Research Network – PORT Polish Center for Technology Development (Wrocław, Poland)



Organisation type: Research institute specializing in applied and basic research in material engineering and biotechnology

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Łukasiewicz – PORT | Research & Innovation



Łukasiewicz – PORT Polish Center for Technology Development is a leading research institute within the Łukasiewicz Research Network. The institute focuses on advanced research and development in **biotechnology, medicine, materials engineering and information technologies**, including **artificial intelligence (AI)** applications for healthcare.

Our work combines **advanced laboratory infrastructure**, a **biobank integrated with European networks**, and expert research teams in **life sciences, materials engineering and medical technologies**. We explore solutions in areas such as **precision medicine, diagnostics**, and **digital health**, applying AI and data analytics to accelerate innovation.

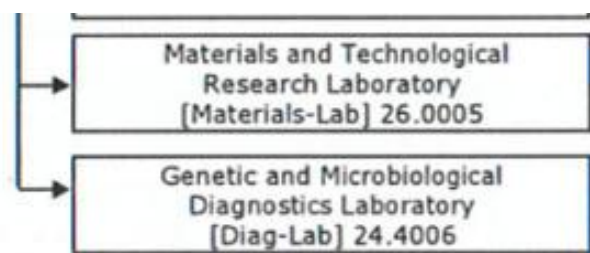
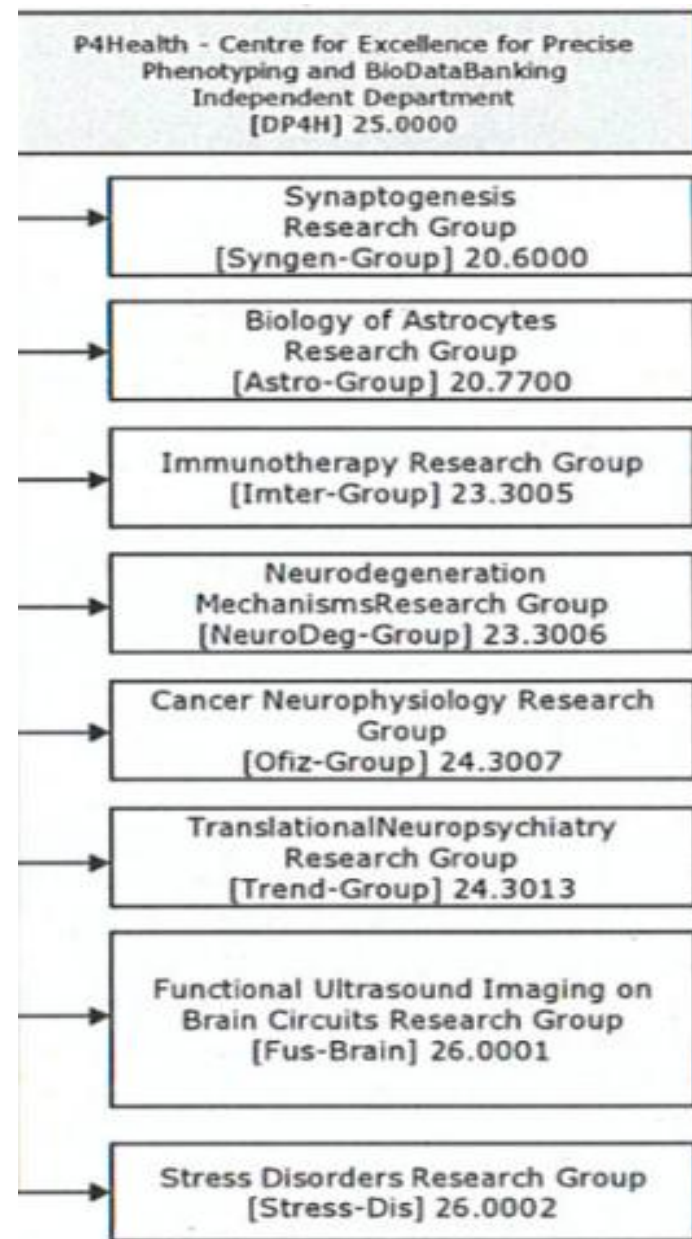
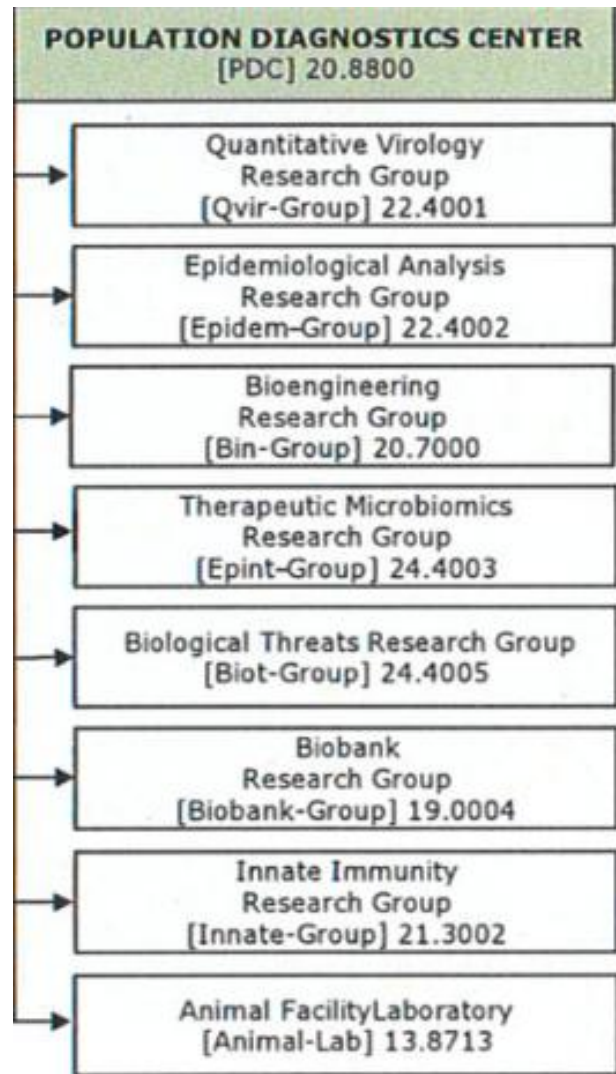
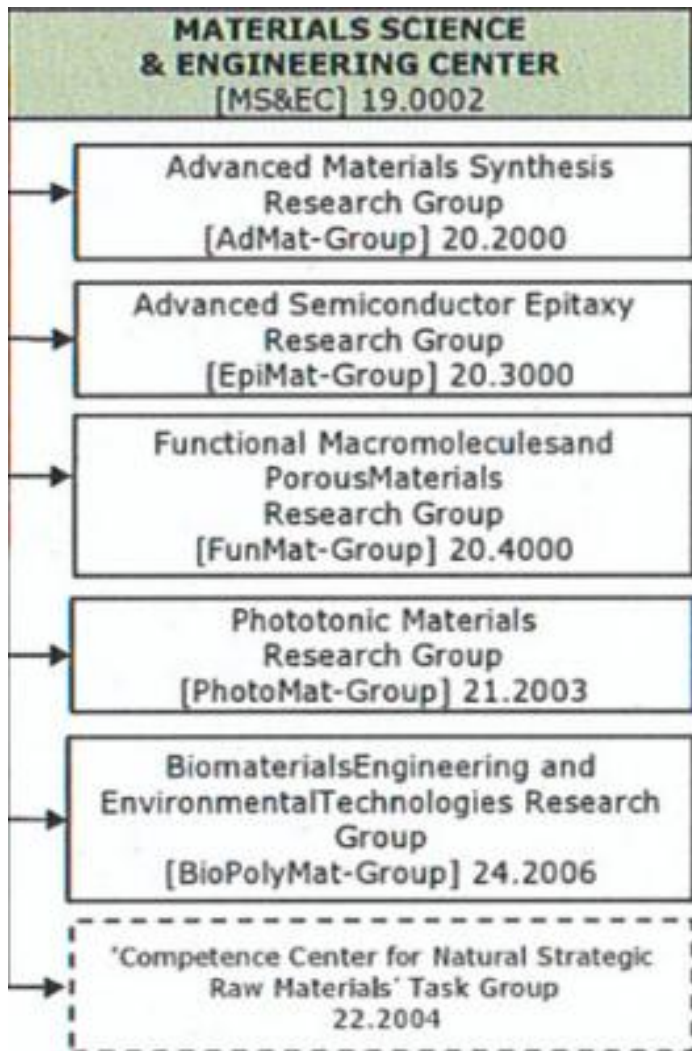
As an international research hub, Łukasiewicz – PORT collaborates with universities, hospitals, and industry partners worldwide to deliver breakthrough technologies that improve human health and quality of life.



Laboratory infrastructure

- 4 laboratory buildings
- 8 660 m² of laboratory space
- 12 500 m² of technical area, rooms, social facilities
- 3 research centers
- 6 core facilities
- 21 research groups







Health, Precision Medicine & Biomedical Research:

 Precision medicine and personalized healthcare

 Neurodegenerative, neurological and psychiatric disorders

 Oncology and translational biomedical research

 Immunology and innovative therapeutic approaches

 Advanced diagnostics and biomarker development

 Clinical and population-based health research

Infectious Diseases, Public Health & Health Preparedness:

 Infectious diseases and pathogen-host interactions

 Molecular epidemiology and disease surveillance

 Microbiome research and immune response

 Biological threats, biosecurity and preparedness

 Public health analytics and population studies

 Climate-related health challenges and food security



Advanced Materials & Industrial Technologies

 Functional and smart materials

 Semiconductor technologies

 Photonic materials and optical technologies

 Biomaterials and sustainable materials engineering

 Functional macromolecules and porous materials

 Strategic and critical raw materials

 Innovative solutions for industrial and R&D applications

Artificial Intelligence & Data-Driven Healthcare:

 AI applications in medicine and life sciences

 Biomedical data integration and analytics

 Digital health technologies

 Advanced phenotyping and health data management

 Decision-support systems and predictive modelling



Advanced Core Facilities



Accredited Laboratories (ISO/IEC 17025)

- Proteomics, metabolomics, cytometry
- NMR, LC-MS/MS, microscopy



Medical Diagnostics Lab

- RT-PCR, serology
- Population diagnostics



Quality & Confidentiality

- Accredited quality systems
- Dedicated project managers
- Full data security



High-End Equipment

- Confocal & electron microscopes
- Flow cytometers
- NMR spectrometers
- PCR platforms, automated pipettes
- LC-MS systems



Project Support & Collaboration

- Grant writing (e.g., Horizon Europe)
- Technology transfer & spin-offs



Strategic Research Areas

- Diagnostics & treatment of civilization diseases
- Pharmacological safety enhancement national biomedical security



Chemistry for industry

- Functional materials with sensory properties and semiconductor technologies



**We welcome opportunities to
contribute as a scientific partner,
technology developer, validation site,
data provider, or research
infrastructure partner in European and
international consortia.**





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Thank you

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