

# Mazovian Green Chemistry Valley

*Mazowiecka Dolina Zielonej Chemii*

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# About us

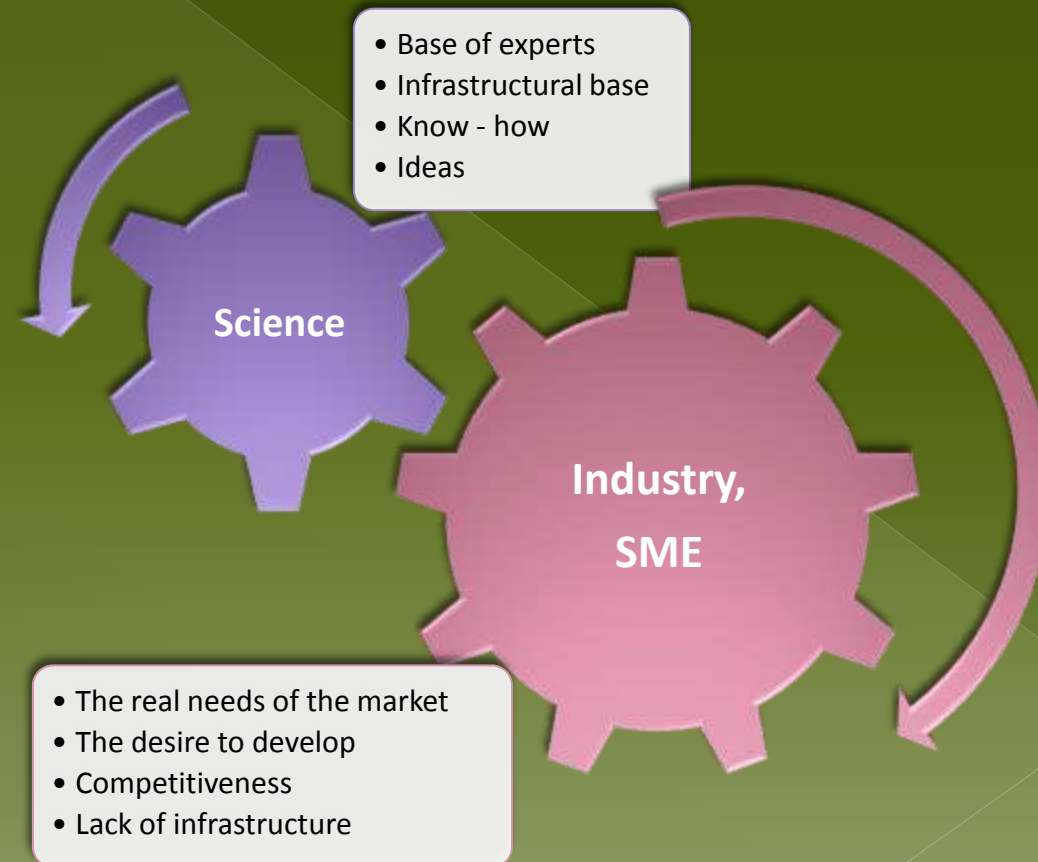


# Characteristic of region



- Central part of Poland
- The best chemical research facilities
- High quality of young science staff
- High chemical industry competitiveness
- High cost of R&D for SMES
- Unsatisfactory level of commercialization of research and technology transfer
- Insufficient science – economy cooperation

# The need to build a science bridge – the economy of Chemical industry in Mazovia





Integration of  
scientific - research  
of chemical  
industry in Mazovia

Creating innovative  
cluster structure on  
the European scale

Mazovian Green  
Chemistry Valley



# Warsaw Universities



Warsaw University of Technology, School of Advanced Chemical and Materials Sciences:



Faculty of Chemical and Process Engineering (WIChiP PW)



Faculty of Materials Science and Engineering (WIM PW)



Faculty of Chemistry (WCh PW)

University of Warsaw:



Faculty of Chemistry (WCh UW)

Military University of Technology:



Faculty of New Technology and Chemistry (WTC WAT)

# Research Institutes



Institute of Nuclear  
Chemistry and Technology  
(IChTJ)



Industrial Chemistry  
Research Institute (IChP)



Pharmaceutical Research  
Institute (IF)



Institute of Industrial  
Organic Chemistry (IPO)



# Institutes of Polish Academy of Sciences



Institute of Physical Chemistry,  
Polish Academy of Sciences (IChF  
PAN)



Institute of Organic Chemistry,  
Polish Academy of Sciences (IChO  
PAN)

# Our Activity

- Laboratories with synthesis equipment and unique equipment for chemical analysis as well as modification of materials:
  - Structural Research Laboratory
  - Centre for Radiochemistry and Nuclear Chemistry
  - Centre for Radiation Research and Technology
- Laboratories equipped with production lines on a laboratory and pilot scale:
  - Faculty Technology Park
  - Line for the production of oral forms of products that are being developed or modified technology (series of laboratory and technical ¼)

# Action leading to the use and commercialization of research

- Radial Sterilisation Station of medical products (IChTJ)
- Experimental Radiation Station for agricultural Fixation (IChTJ)
- Quality Control Laboratory of plant protection products (IChO)
- Experimental production of blasting agents (IChO)
- Synthesis in pilot plant scale – custom synthesis Z.D. Chemipan (IChF)
- Masovian Centre of Surface Analysis (IChF)
- Research the availability and bioequivalence of medicinal (IF) and pesticide (IPO) products

# Cooperation with business partners (examples)



# Actions to promote knowledge in field of chemistry



- ◉ Doctoral programs in various fields of chemistry
- ◉ Studies and research fellowships for foreign students
- ◉ Organization of national and international scientific conferences
- ◉ The public presentation of science:
  - regular science news for the Polish media,
  - scientific picnics and festivals,
  - museum nights,
  - lectures in schools,
  - courses "University for children",
  - presentations / lectures for different age groups.



# Main objectives of Masovian Green Chemistry Valley



- Building a strong structure-based on research departments at universities, research institutes and institutes of sciences, and their cooperation with design offices and industry
- Supporting the development of various fields of chemistry, by providing access to well-equipped laboratories and pilot semi-technical installations
- Support for education and informational programs (supporting of doctoral studies)

# Tasks of Mazovian Green Chemistry Valley



Support for large research areas, by improving access to laboratories with the unique equipment

Support for interdisciplinary research in all fields of chemistry (from physical chemistry to biochemistry)

Support for basic research in cooperation

Supporting small spin-off companies by improving access to laboratories, research results in the fields of chemistry, education, and improving the flow of information

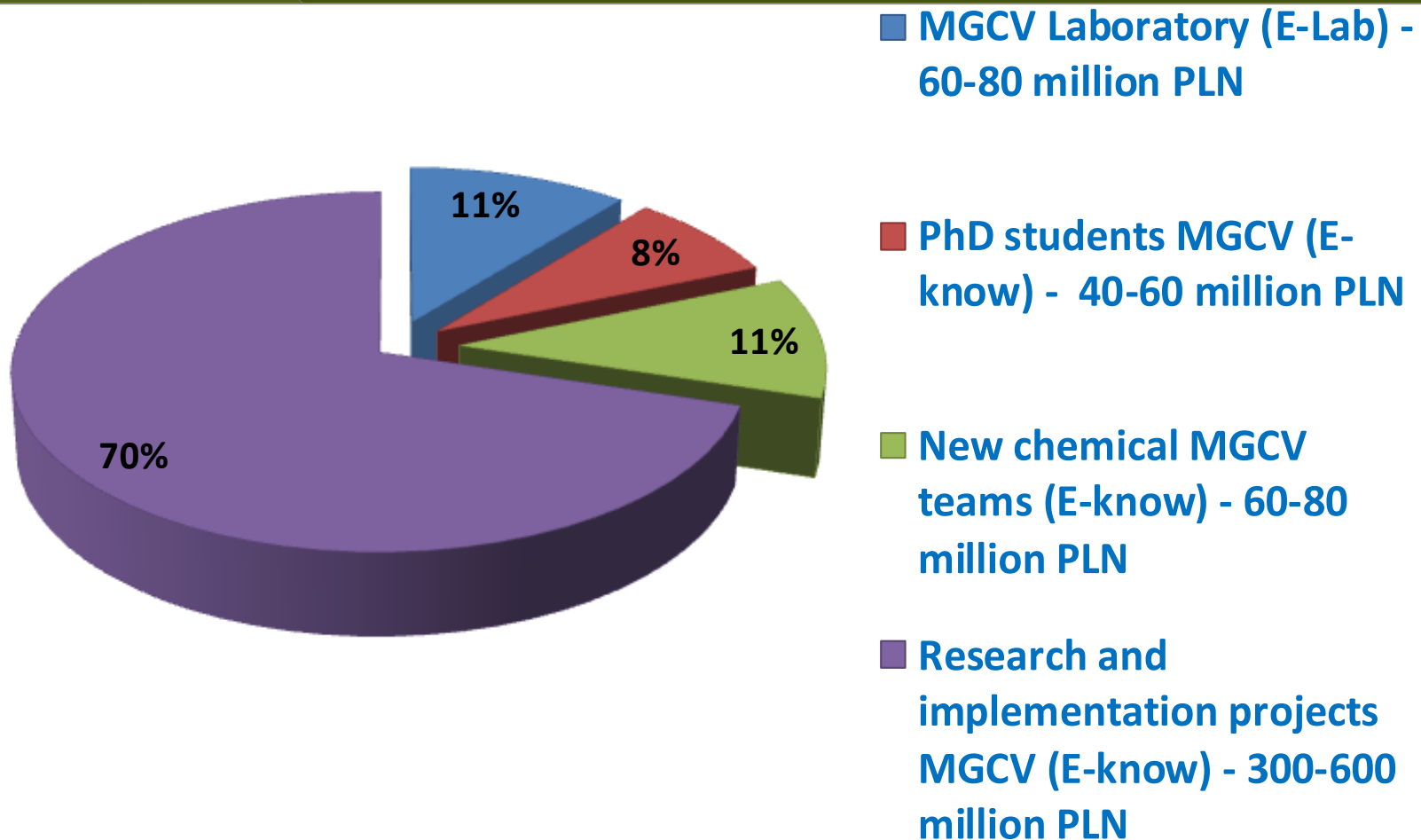
Expanding public awareness of the field of chemistry

# Vision of the cluster initiative for the coming year

- Develop a strong business strategy
- The integration of science and industry
- Obtaining legal and administrative support
- Learn from best practices of experienced European chemical clusters
- Establishing cooperation with the European chemical networks



# The vision of cluster development for the years 2014 - 2020



# What are the benefits?

- The image of the organization affecting the economy (planned 10-20 companies per year after 2020)
- Structural Projects 2014-2020 (finance doctorates, equipment supporting E-lab, new bands supporting E-know. Buildings - including laboratory base for spin-offs, research and implementation projects)
- Implementation and benefits of the implementation at a small expense, without the red tape and delays
- Cooperation in the commercialization always with the same partner - MGCV (speeding up the process and the development of procedures)



Thank you for your attention !

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