



Politechnika Gdańska

**Gdansk
University
of
Technology
65/106
years of
Academic
Tradition**

www.pg.gda.pl

Rebuilding the Transatlantic Bridge: U.S.- Polish Cooperation on Science, Technology, and Innovation

The National Academies, Washington D.C., 3-4 December 2009



**Gdansk
University of
Technology and
its Regional
Opportunity**

Henryk Krawczyk and Jan Hupka



Location in Poland



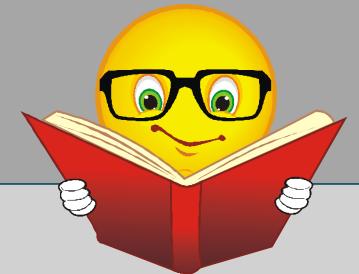


Pomerania Region Challenges for the Near Future

- Conversion of research to products and services to create jobs and improve living standards through innovations
- Sources of energy which power the economy and protect national security
- Attract businesses which use local suppliers and infrastructure - intellectual property protection guaranteed
- Clusters of businesses which bring new products and services to the market
- Further development of e-management systems for city administrations; on-line public services for citizens with web-based, mobile and smart card applications; e-participation services for citizens with interactive consultative applications



About GUT

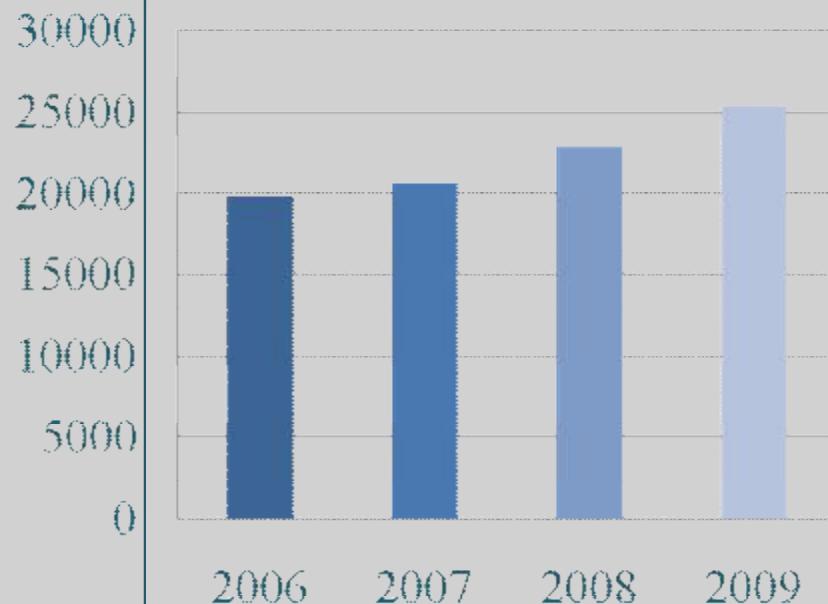


B.Sc. and M.Sc. students	25 457
Ph.D. students	509
employees	2 552
academic teachers	1 186
faculties	9
fields of study (planned)	27 (5)
Academic rights to award dr and hab.dr degrees	17+11
Major structural projects, E.U. projects, and grants	29+20+65



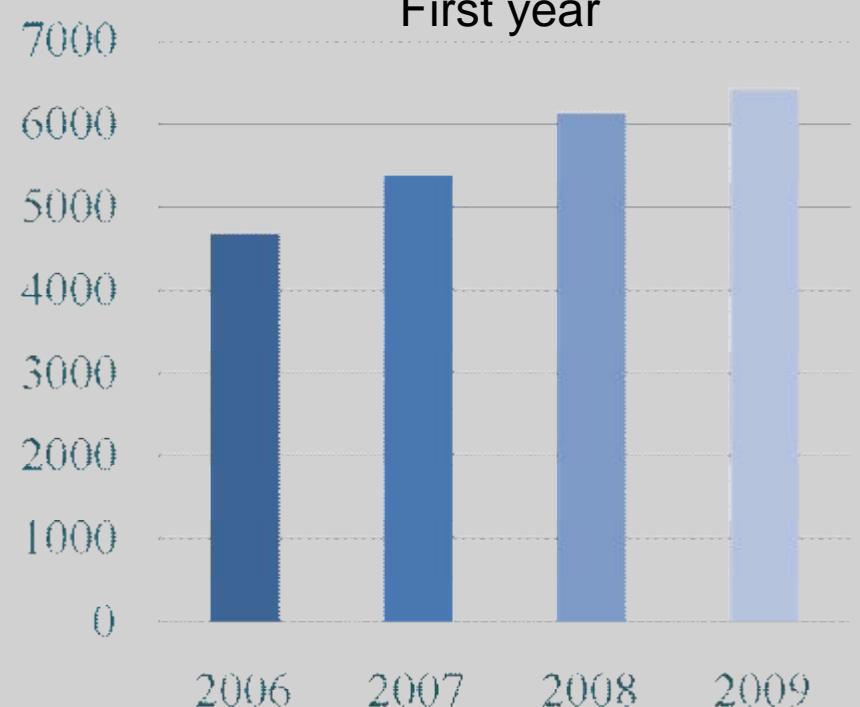
Number of Students at GUT

Overall



Despite worsening
demographic situation

First year





Partnerships in Higher Education in Pomerania

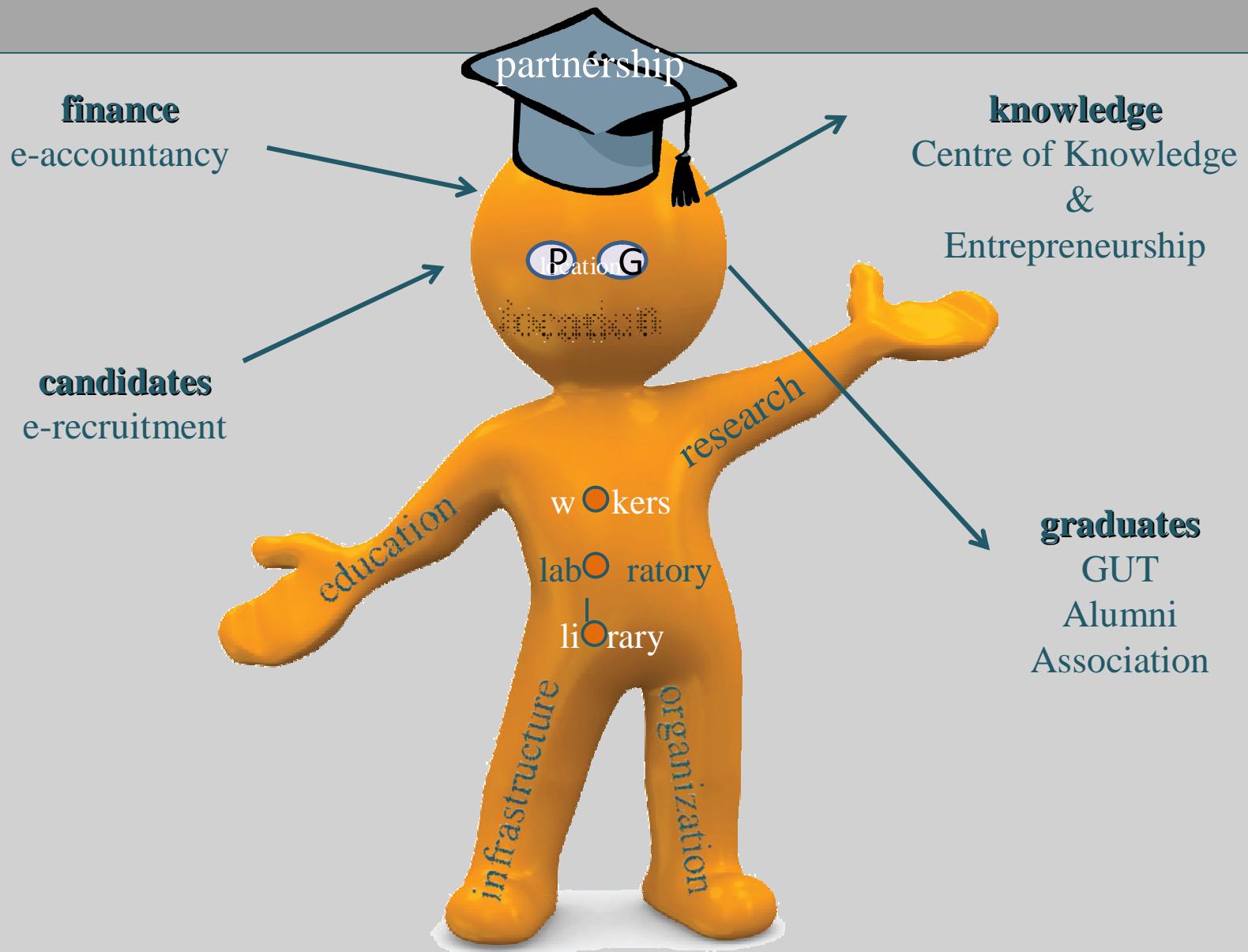


**Clustered Pomeranian Institutes of Higher Education – 14 May 2009
a Letter of Intent was signed**

ÜConnects the intellectual potential, human and financial resources, and background technology, organisation, and I.T., of the Institutions

ÜThe signatories of the Letter of Intent are 11 institutions

New Model of GUT Functioning



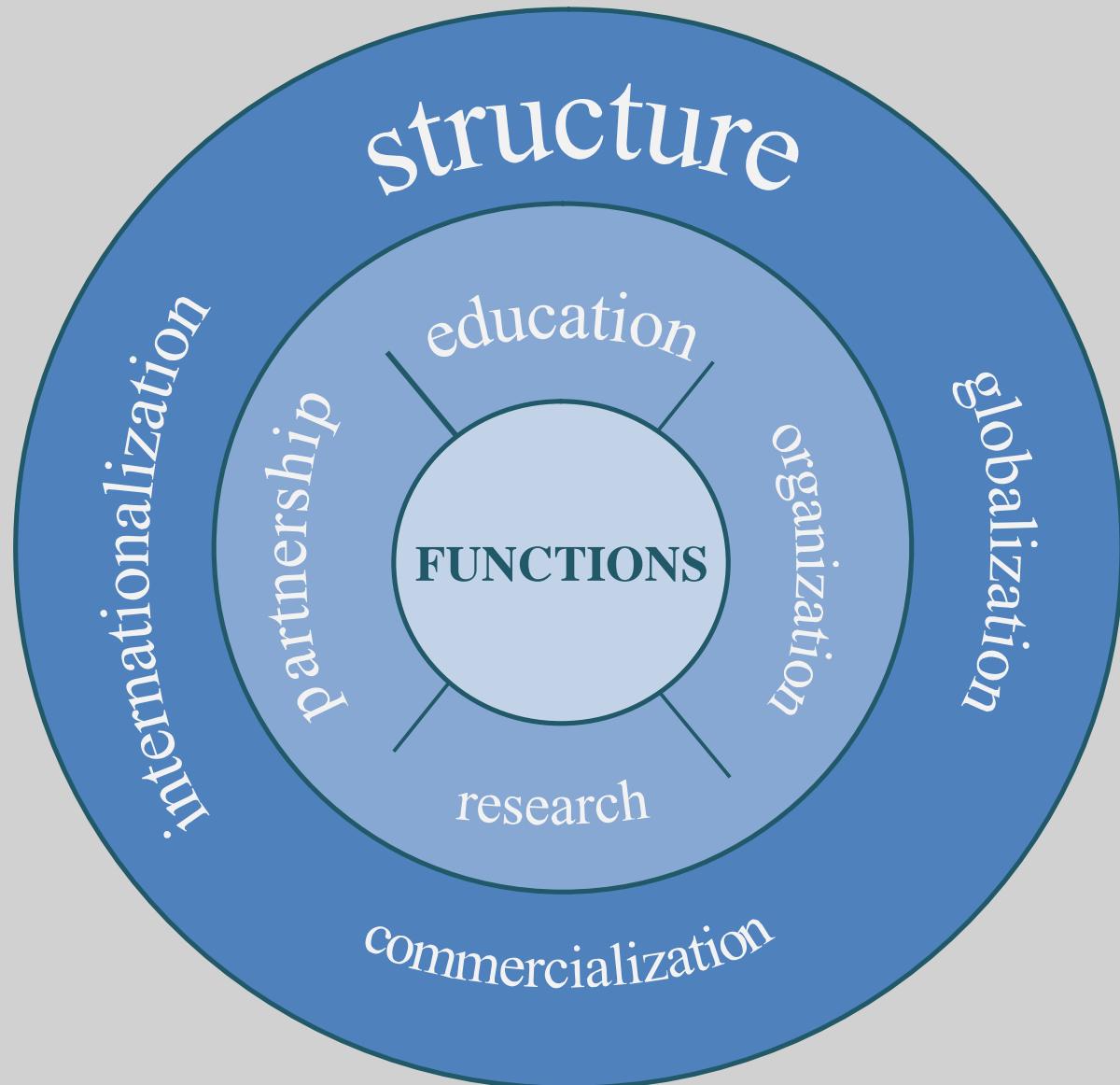


GUT Resources



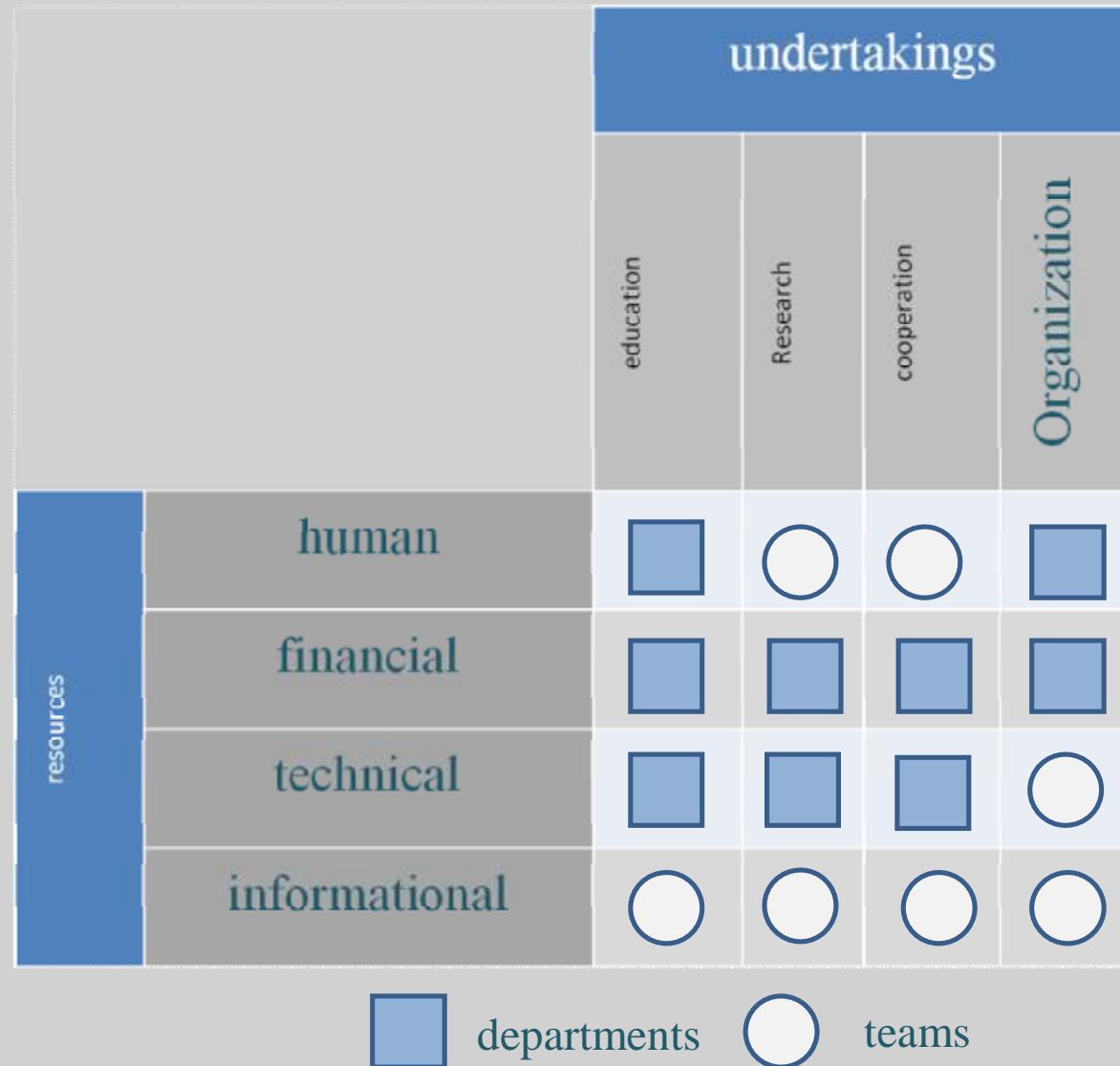


GUT Major Functions



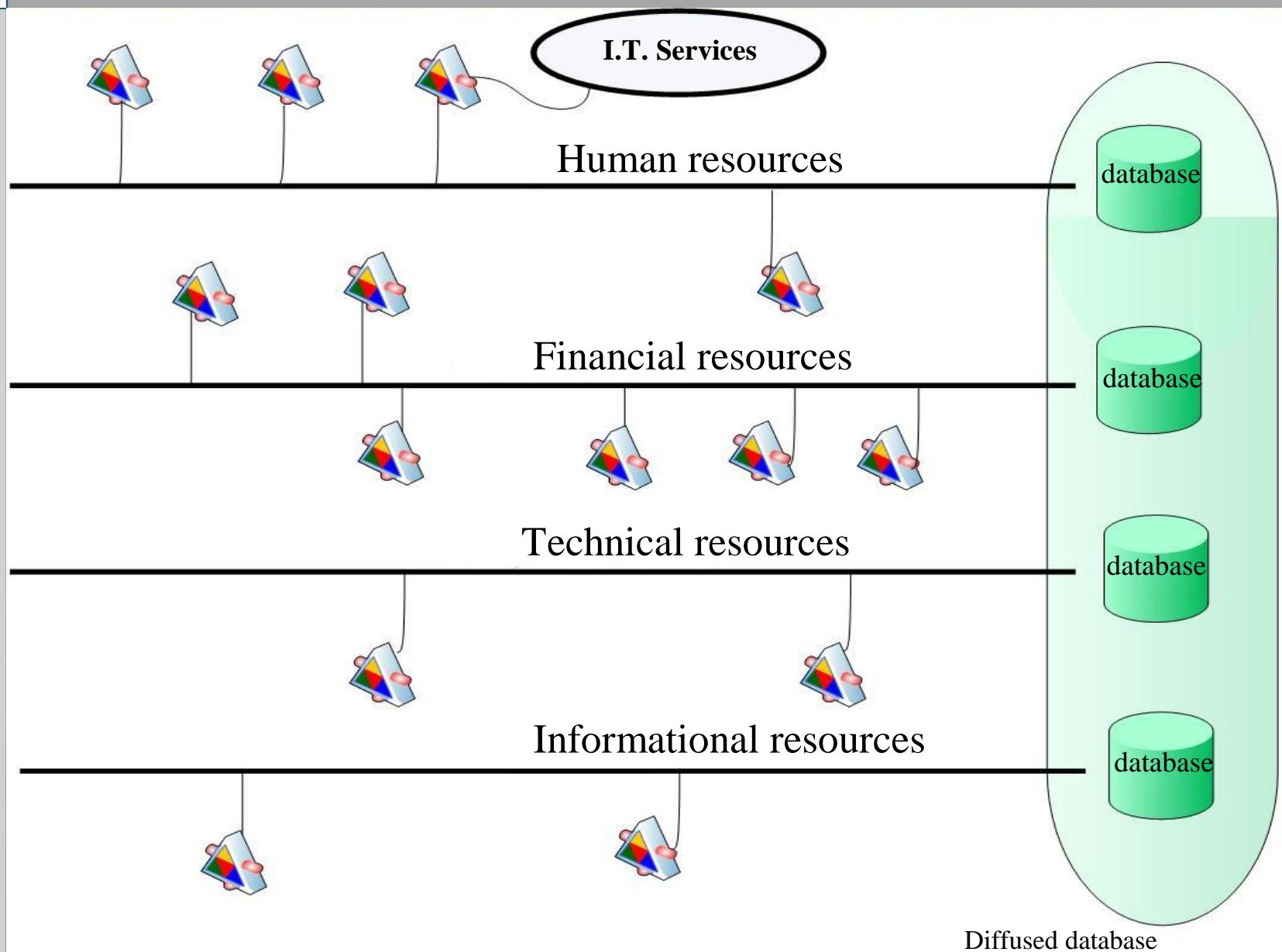


Basic Organization Structure of GUT





Use of ICT in GUT Management

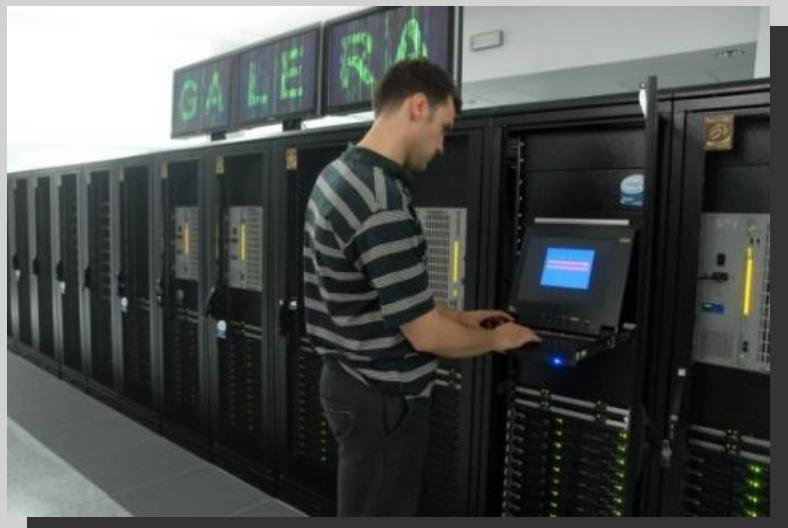




Teaching and Research Center of ICT.

The most intelligent building in Pomerania – Faculty of Electronics, Telecoms and I.T.

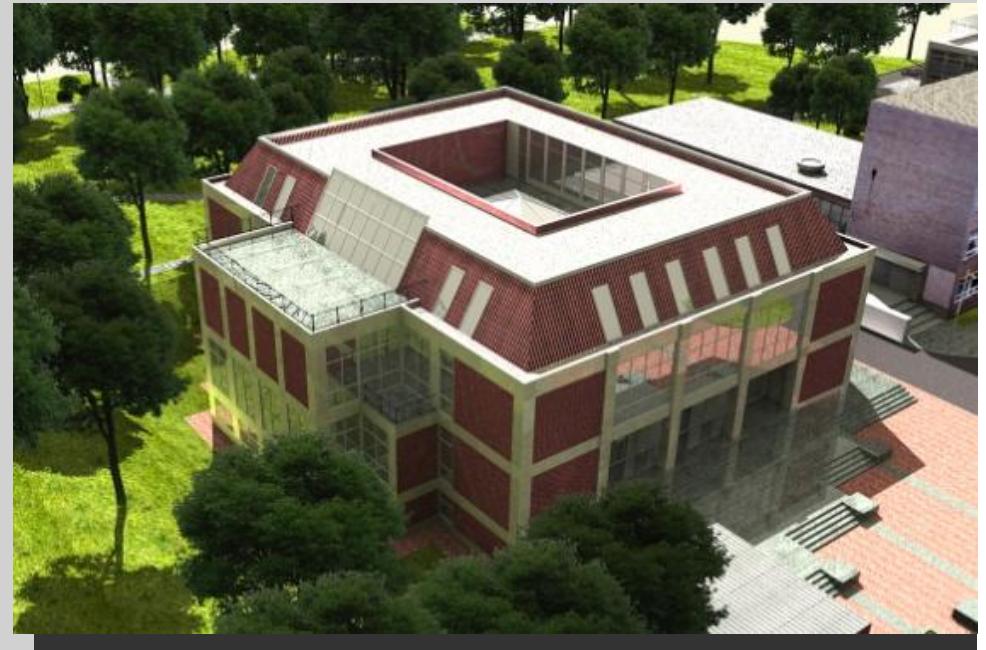
- Computer laboratories for 4000 ICT students
- Headquarters of Tri-City Academic Computer-Net
- Location for **CASCADE** platform





Nanotechnology Center – to be completed by 2011

**New intelligent
building, housing
material
engineering ,
advanced catalysis
and
nanotechnology
labs for 750
students**





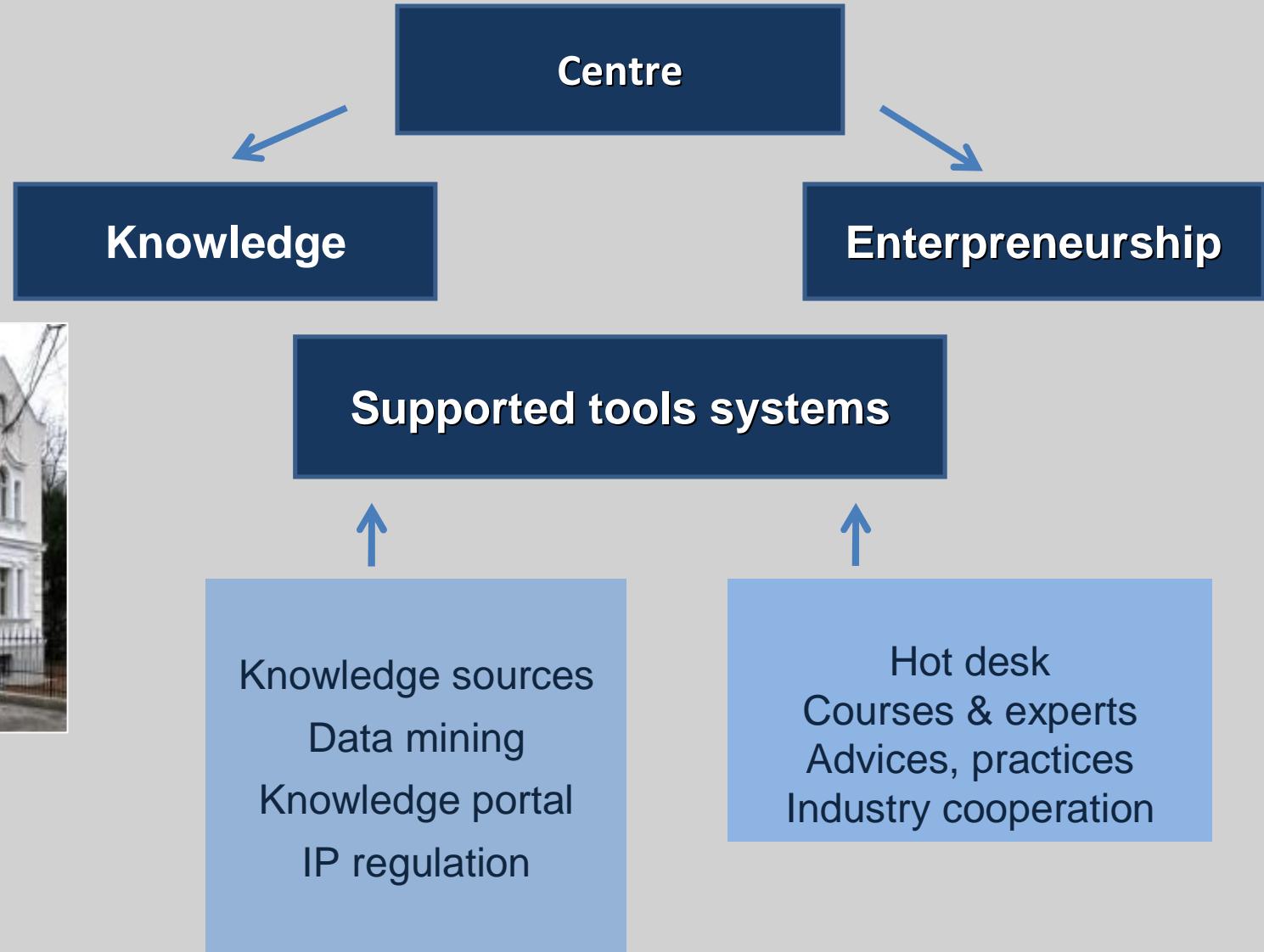
Center of Knowledge and Entrepreneurship

- § **Management of the GUT's intellectual property**
- § **Commercialization and promotion of the results of the intellectual property**
- § **Organizing workshops, courses in how to organize academic activities, and how to protect intellectual property**
- § **Leading the Academic Incubator Project**
- § **Partnership with outside firms, including business institutions and local government**





GUT - Centre of Knowledge and Entrepreneurship



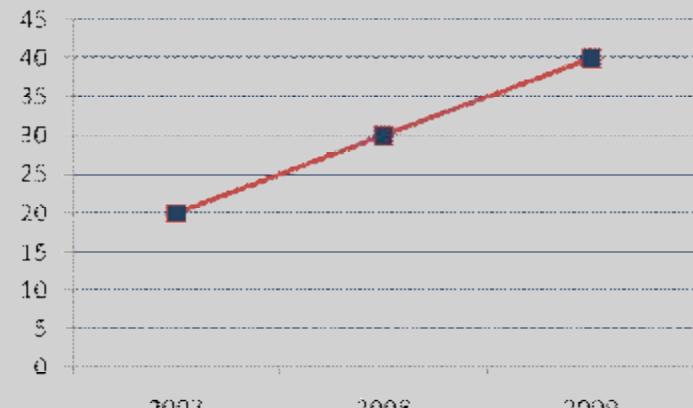


Gdańsk University of Technology

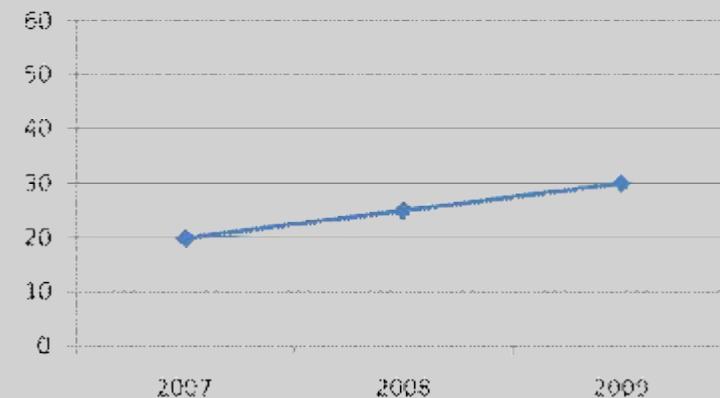
The number of publications



The number of inventions



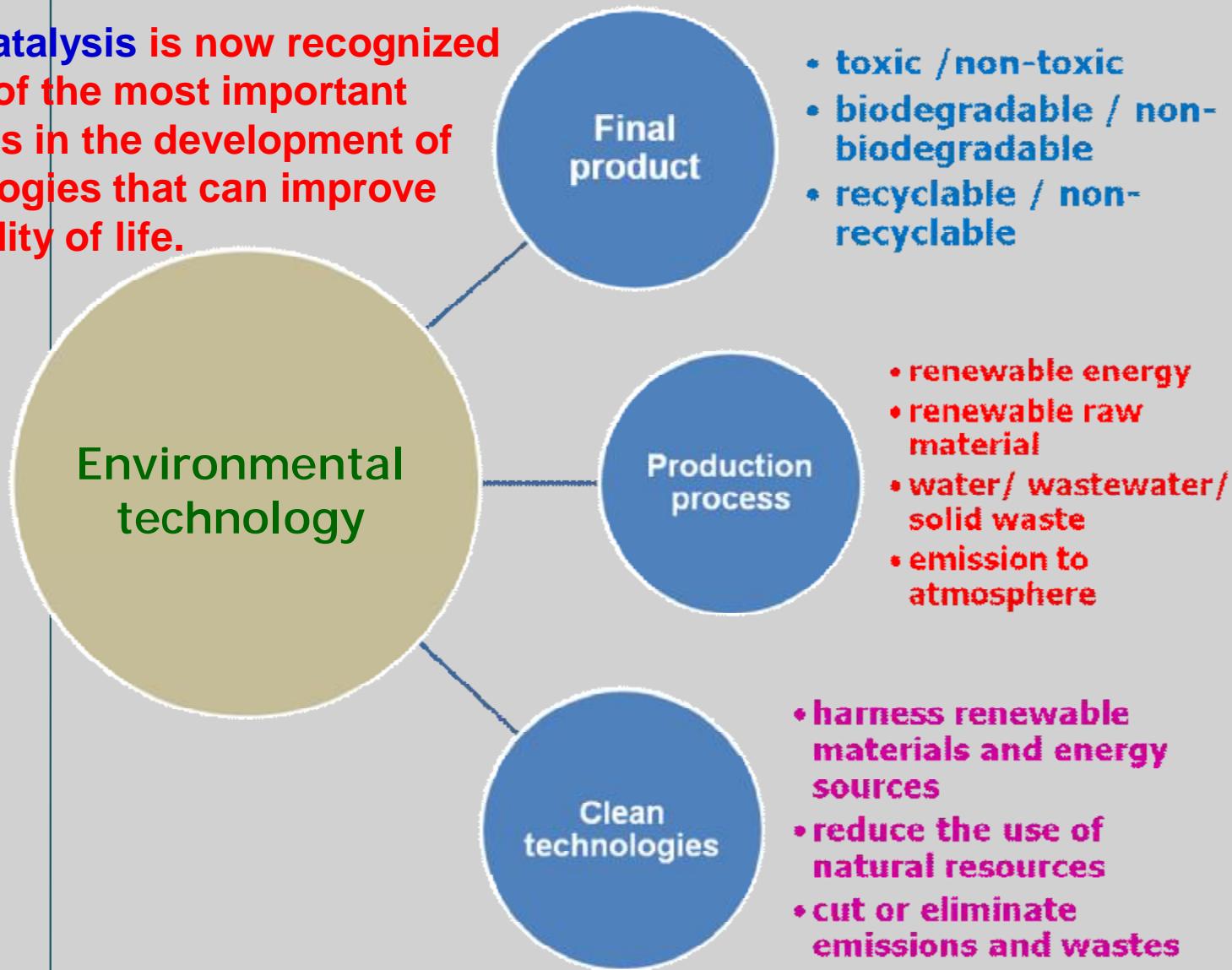
The number of structural projects



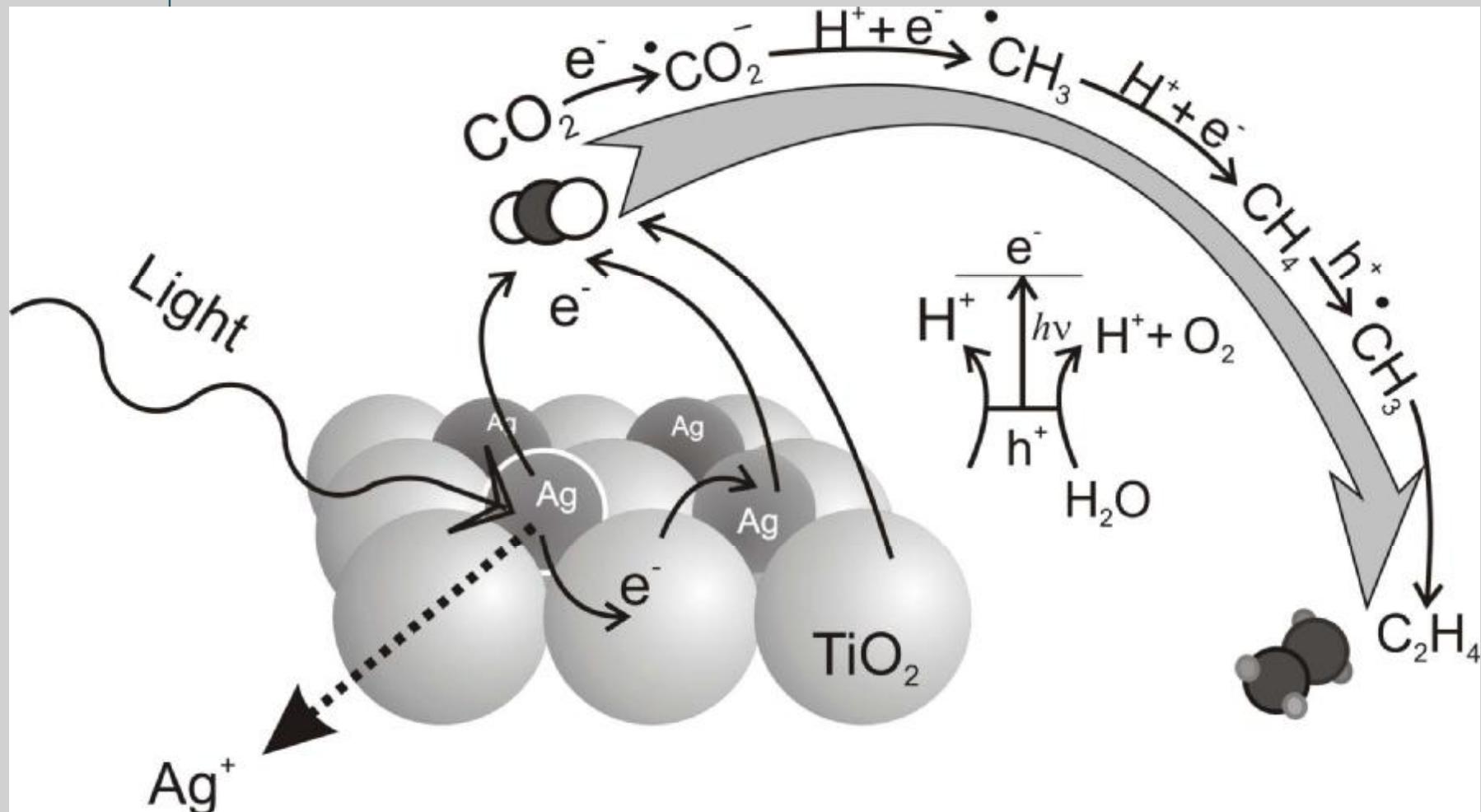


Environmental Technology

Photocatalysis is now recognized as one of the most important sciences in the development of technologies that can improve the quality of life.



Proposed mechanism of ethene formation at the surface of Ag-modified TiO_2



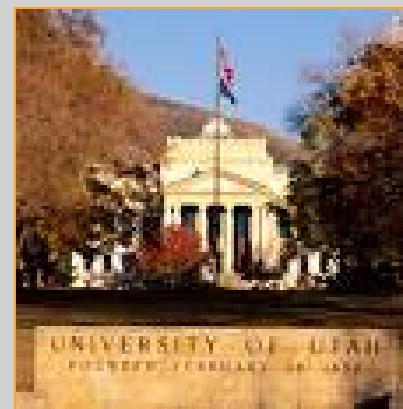


Cooperation between GUT and University of Utah



Professor Jan D Miller
Departmental Chair
The Ivor Thomas Professor of
Metallurgical Engineering
A member of the National
Academy of Engineering

Collaboration has begun in 1981.
Up to today, 35 students and
researches have had research
training at the University of Utah
in the Prof. J.D.Miller group, which
has resulted in numerous
publications and joint projects.





Politechnika Gdańska

WORK-IN-PROGRESS REPORT



Prepared for:
The Technical University of Gdańsk
Gdansk, Poland
Attention: Dr. Antoni Nowakowski, Vice President

Prepared by:
Gordon F. Jensen, Director
Utah Engineering Experiment Station
University of Utah, EMRO-104
Salt Lake City, Utah 84112
(801) 581-6348, Telephone
(801) 581-5440, Fax

September 1, 1992

THE ROLE AND NETWORKING OF THE UTAH ENGINEERING EXPERIMENT STATION



Prepared for:
The Technical University of Gdańsk
Gdansk, Poland
Attention: Dr. Antoni Nowakowski, Vice President

Prepared by:
Gordon F. Jensen, Director
Utah Engineering Experiment Station
University of Utah, EMRO-104
Salt Lake City, Utah 84112
(801) 581-6348, Telephone
(801) 581-5440, Fax

September 1, 1992



Politechnika Gdańsk

Gdansk University of Technology

a technical university with imagination and future



Thank-you for your attention