## **EFP Final Conference:** Forward Looking Activities Governing Grand Challenges September 27<sup>th</sup> & 28<sup>th</sup> 2012 Vienna





# The results of Technology foresight 'NT FOR Podlaskie 2020' Regional Strategy of Nanotechnology Development

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dr Anna Kononiuk Lukasz Nazarko

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#### **AGENDA**

**RATIONALES AND GOALS** 

**RESEARCH FIELDS** 

**METHODOLOGY** 

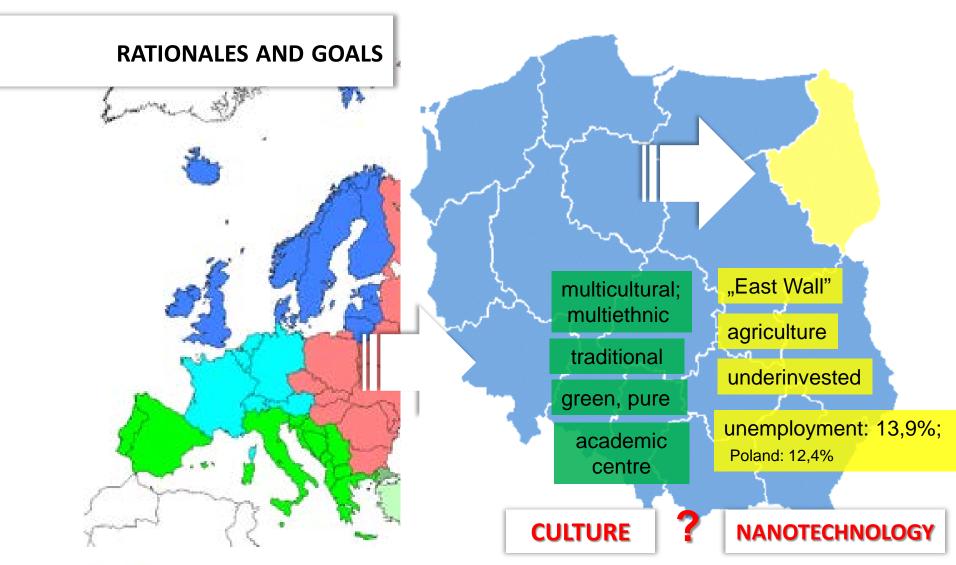
**MEGATRENDS** 

**PRIORITY TECHNOLOGY GROUPS** 

**CONCLUSIONS** 









## NANOTECHNOLOGICAL INITIATIVES IN PODLASKIE PROVINCE

Medical University of Bialystok
Faculty of Medicine
Department of Biophysics



Bialystok University of Technology Faculty of Mechanical Engeneering Chair of Biomedical Engeneering



Clothing (lingerie) industry

Food processing industry

Medical industry

Timber industry





### **RATIONALES AND GOALS**

TIME HORIZON: 2009 - 2013

**PURPOSE**: an attempt of breakthrough technologies promotion when the development of the traditional sectors does not accelerate the region growth



#### PROJECT'S GOALS:

- elaborating a strategy of nanotechnology development in Podlaskie province till 2020
- identifying and mapping critical nanotechnologies up to 2020
- eidentifying the most important factors influencing the development of nanotechnologies
- putting forward scenarios of nanotechnology development
- stimulating the process of regional vision building between the key stakeholders





### **RESEARCH FIELDS**

#### **STEERING COMITEE** Nanotechnologies in Podlaskie STEEPVL and SWOT panel SSP RF1 economy Nanotechnologies for current industrial branches Nanotechnologies for new industrial branches Nanotechnological hazards **KEY** Key factors of nanotechnology Technology mapping and Key RESEARCH RF3 **TMKTP** development technologies panel **TEAM** Activity of scientific community Role of local authorities Nanotechnologies in public awareness Technology transfer Nanotechnology research for Scenarios and Roadmapping panel SRP RF2 Podlaskie development Guidelines for basic research Guidelines for applied sciences **EFP Final Conference:** Forward Looking Activities Governing G Future research fields and transeregional cooperation September 27th & 28th 2012

Vienna



## **METHODOLOGY**

## **INNOVATIONS**



#### **RESEARCHERS**

professional background, sex, age, esp. women and young people (under 35)

#### **DATA**

experts from different institutions, information from variety of works

#### **THEORY**

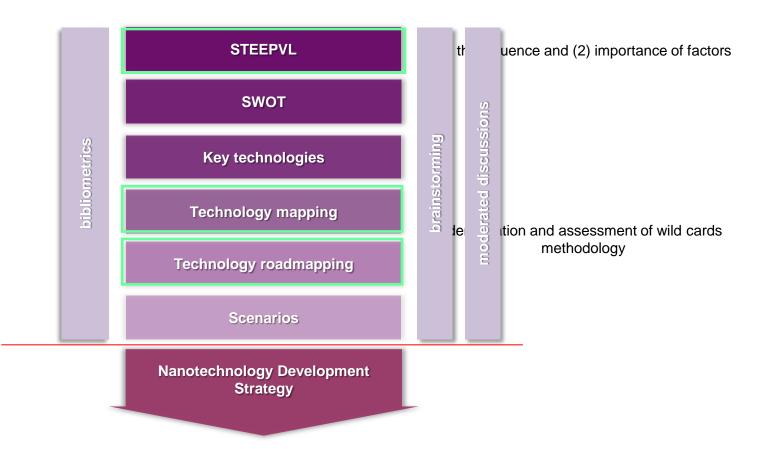
experts from different scientific fields





## **METHODOLOGY**

## **INNOVATIONS**







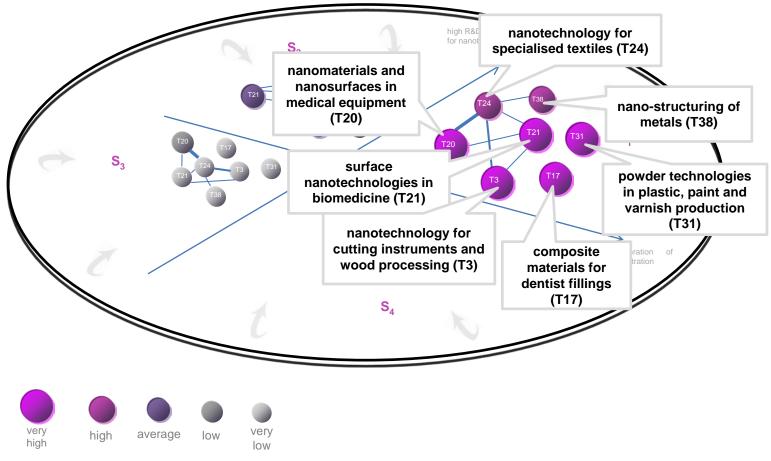
#### **MEGATRENDS**

- technological progress
- ageing population
- increasing importance of alternative energy sources
- intensified activity of the states in the realm of security
- new patterns of social inequality
- shaping of the new economy
- globalization





#### PRIORITY TECHNOLOGY GROUPS







### **FINDINGS**

high R&D potential

for nanotechnology

ineffective regional networks of cooperation among business, science and administration —

NANO-Scattered Podlaskie Nano: New Dimension of Podlaskie

**effective** regional collaboration of business, science and administration

NANO-Indifference in Podlaskie NANO-Enthusiastic Podlaskie

low R&D potential for nanotechnology





## CONCLUSIONS

SCENARIOS – the background of Regional Strategy of Nanotechnology Development

S4

The most conducive environmental factors to the nanotechnology development in Podlaskie province, as well as to the *Nanotechnology Development Strategy* are:

- the increase the region's R&D potential
- the strength the networks of entrepreneurs, scientists and authorities

**STRATEGY** will set the orientation of nanotechnology introduction into the economy of Podlaskie province and thus will provide a sound proposal of a path towards the sustainable development of the region



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## THANK YOU FOR YOUR ATTENTION







