



Smart specialisations in West Pomeranian region





Regional specializations

- bioeconomy
- maritime & logistics
- metal-machine industry
- services of the future
- tourism & health







Smart specialisations in West Pomeranian region





Investors' Assistance Center

Bioeconomy

- agri-food sector, wood-furniture sector, renewable energy, green chemistry, materials science, packaging
- 13 000 SMEs
- 90 000 employed
- 25 billion PLN revenue
- 9 billion PLN export
- 52% of export
- CLUSTERS: Wood & Furniture in Koszalin, Green Chemistry,
 Construction Cluster, Green Locomotive, sEaNERGIA

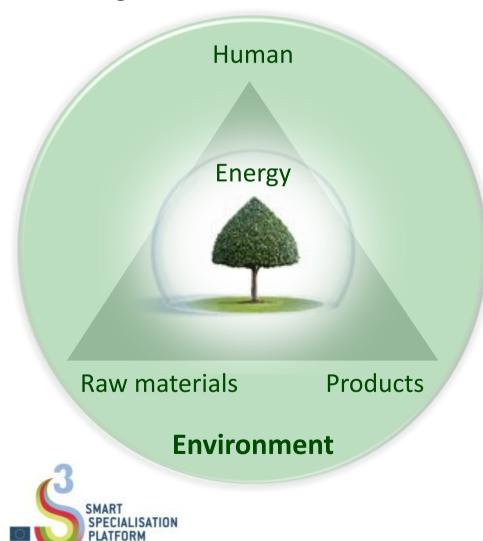
www.iac.wzp.pl

SPECIALISATION

The main idea of West Pomeranian Centre of Bioeconomy



OUR MOTTO: Sustainable development of the region based on natural resources





- 4 public univerities from the region (more than 200 scientist)
 (3 from Szczecin and one from Koszalin);
- Marshal Office of West Pomeranian Region
- other public organizations (clusters ect.)
- industrial partners

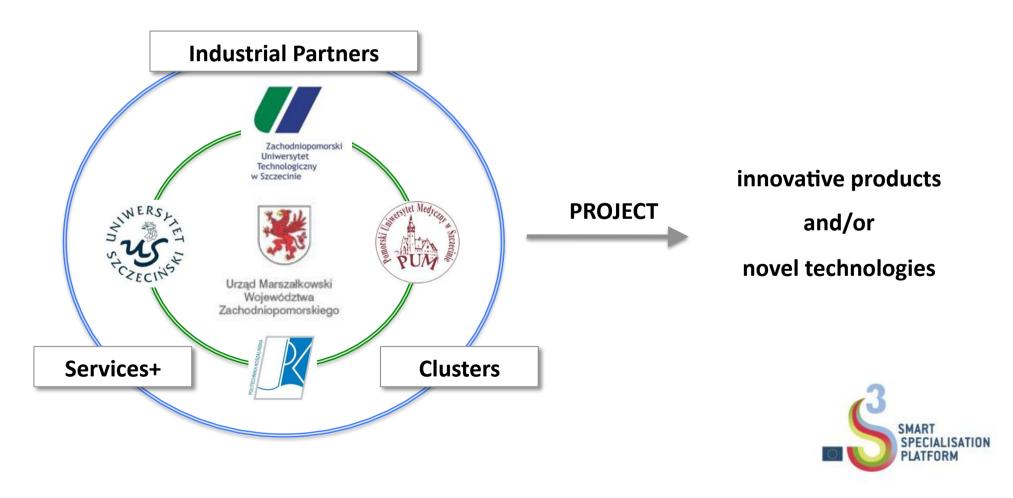


The overal goal of West Pomeranian Centre of Bioeconomy



The Cooperative Research Centre model:

- to bring end-users and researchers together to build critical mass to work on key strategic projects.



Sectors of Bioeconomy in the WPV & Intersectoral Units



Sector of Wholesome and Organic Food

Sector of Blue Bioeconomy

ZCB

Sector of Life Sciences and Bioservices Sector of Material and Energy Bioeconomy



Some project ideas.....



 processing of BIO-by-products towards food additives and valuable chemicals (biorefinery of biomass including agriculture, wood and food by-products)

Sector of Wholesome and Organic Food

• - fisheries - restoration of marine organisms in Baltic see, including fishes such as cod and turbot

Sector of Blue Bioeconomy

- - sustainable aquaculture
- micro- and nanomaterials for various applications (from packaging to bio-materials).

Sector of Material and Energy Bioeconomy

- renewable sources of energy (from biomass, via solar to wind energy) energy efficiency of the production and use of biomass
- genomics and proteomics as power tool in life sciences
 (molecular genetics of cancer, stem cells therapy of various diseases)

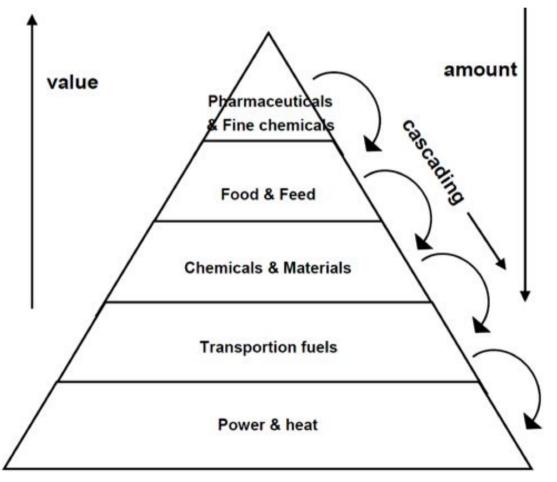
Sector of Life Sciences and Bioservices

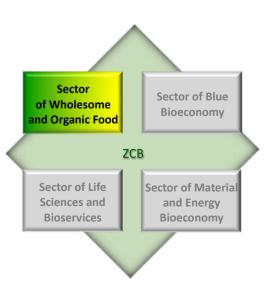
Sector of Wholesome and Organic Food



processing of BIO-by-products towards food additives and valuable chemicals (biorefinery of biomass including agriculture, wood and food by-products)

Biorefinery – biomass not only source of energy







"ERA-NET MNT "Development and processing of agricultural by-products to multimaterial microfibrous composite packaging materials"

- <u>define and characterize the **most promising agricultural by-products**, which could be apply in Europe as **source of natural fibre materials**,</u>
- development of functionalized (mechanical, antimicrobial and humidity resistance) food packaging materials obtained by injection moulding or compression moulding based on the agricultural fibre by-products,
- manufacture of such by-products should be as simple as possible enabling **mass production with minimum capital cost**

Duration: 01.05.2012 - 30.04.2015

Funding agency: NCBiR NCBiR NCBiR

International • Sweden / Karlstad University, Lantmannen

partners: • Austria – BOKU (Wien)

• Poland /CBIMO, Dept. of Plastic Processing (ZUT), InterPlastik













Center of Bioimmobilisation and Innovative Packaging Materials





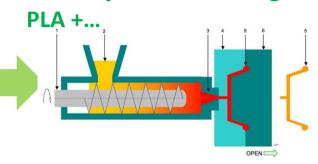




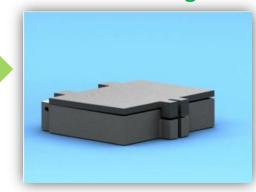


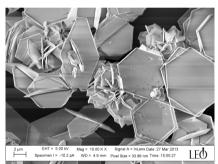


WP2. Processing/ purification



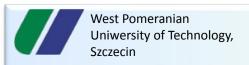








WP6. Prototype













Center of Bioimmobilisation and Innovative **Packaging Materials**

We are looking for.....



We are looking within Baltic Sea Regions for collaboration around:

- <u>specific R&D projects</u> including at the same time involvement of research organisations and industrial partners;
- projects, which will create a critical mass towards <u>good</u>
 <u>proposals within new calls of Horizon 2020 (Industrial leadership);</u>
- projects, which will joint market creation for <u>specific type of</u> <u>BioEconomy products and services.</u>



WHY and WHO needs to collaborate on what ...?



WHY collaboration:

To create competitive Industries within Horizon 2020:

- aims at making Europe a more attractive location to invest in research and innovation, by promoting activities where businesses set the agenda;
- provide <u>major investment in key industrial technologies</u>, maximise the growth potential of European companies by providing them with adequate levels of finance and help innovative SMEs to grow into world-leading companies.

WHO needs to collaborate on what:

- Industrial partners with representative of research organisations on new project ideas within Horizon 2020.



Bioeconomy - from trans-regional to international cooperation



