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MATER DESIGNATION.

Potential of coast environment as a driving forces for regional development in Poland

Aim of the presentatiom

- To show the environmental and landscape potential of coastland as a driving forces for regional development.
- To point out the most important landscape elements of the Polish coast, which are created their rechnes and diversity.

Trajectories of development







Within the field of regions' development, the environment is becoming increasingly perceived as a factor capable of generating trajectories of development, which can become more compact, and start creating places of their concentration, so called attractors, having their extent, so called pool of attraction, deciding among others about the so-called viscosity of the place. One of the methods of environmental potential valuation, which can influence directions of regions' development, is the provision of ecosystem services.

Modeling of space



According to the general theory of systems L. von Bertalanffy (1928) attractor is an area or point in a space of states to which the system going, and around which the system remains at any time subject to large-scale evolution of chaotic systems

The theoretical basis for spatial modeling

- The theory of deterministic chaos,
- Finding attractors as an important direction of research in the creation of regional development,
- Equation of Lotka-Volterra (model of preypredator)
- Nonlinear systems and the occurrence of coexisting attractors,
- Economic and socio-ecological models

Ecosystem Services the benefits humans derive from ecosystems



High

Strong

Coast region services

- Cultural landscape aesthetic
- Provisioning components of nature (enjoyed, consumed or used for human well-being)

Polish coast



Polish Coast starts in Swinoujscie (West) and ends in Krynica Morska (East). There are wild beaches and crowded beaches.

Polish coast



- the length of the maritime border 440 km
- geographic length of the coast 524 km
- long coastline 775 km

Types of the coast



Cliff type



Accumulative type

Abrasion of the clif



Current state



Sandy spits





The Vistula is an aeolian sand spit, or peninsular stretch of land, which separates Vistula Lagoon from Gdańsk Bay in the Baltic Sea. The Polish part contains a number of tourist resorts, incorporated administratively as the town of Krynica Morska.







Hel peninsula

Hel Peninsula is a 35 km long sand bar peninsula separating the Bay of Puck from the open Baltic Sea. The width of the peninsula varies from approximately 300 m near Jastarnia, through 100 m in the most narrow part to over 3 km at the tip.







Coastal lakes

Gardno (German: Garder See) is a lake in the Słowińskie Lakeland in Pomeranian Voivodship, Poland. It is the part of Słowiński National Park, Its area is 24.69 km². It is 6.8 km long and 4.7 km wide. Maximum depth is 2.6 m.

Environmental protection

Woliński National Park





Wolinski National Park is located at the mouth of Oder **River**, in the North-Western Poland (Szczecin voivodship), close to the Polish-German border. It protects highly valuable north-western part of the Wolin Island. The total area of the Park today is 10 937 ha, of which forests covering 4530 ha (41%).

Słowiński National Park







The middle part of the spit (between the Łebsko Lake and the sea, at the length of approx. 5 km and the width of 1 km) is occupied by the barchans and barchanlike dunes moving with the speed of 2 -10 m/year, this is the area of contemporarily moving dunes. Western and north-western winds dominate in this area causing sand transportation and moving the dunes towards eastern and south-eastern direction; its result is entering the Łebsko Lake by some of the dunes.

Woliński National Park





Beech forest



Natura 2000



849 - SCI - Site of Community Importance145 - SPA - Special Protection Area

Transport accessibility to the regional centers by roads and railways in 2012





The areas with the lowest transport accessibility to the regional centers - (90 minutes)



(according: Komornicki 2012)

Bed places in tourist accommodation establishments as of July 31, 2013



Apartments and hotels









Landscape piers





Along the coast in many places they are built piers as objects for ease of observation of the coastal landscape

Cultural landscape

Historical aspect









Architecture



Conclusion





Coast regions are characterized by some significant factors which could be very important driving forces for regional development

Thank you very much for your attention