

## **Functional review of Blue Growth RIS3 steering process & operational structure**

### **Analysis of state of the play in Pomorskie Region (WP 2.1)**

#### **Smart Blue Regions Project Report**

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## LIST OF ABBREVIATIONS

DED	Department of Economic Development of Marshal Office of the Pomorskie Voivodeship
EIAH	European Investment Advisory Hub
ICT	Information and communications technology
MIG	Maritime Institute in Gdańsk
NCP	National Contact Point
NCRD	National Centre for Research and Development in Poland
NGOs	Non-governmental organizations
OP KED	Operational Programme "Knowledge Education Development"
OP SG	Operational Programme "Smart Growth"
PCP	Pomorskie Creativity Port
PRDS	Pomorskie Regional Development Strategy
PSME	Pomorskie System of Monitoring and Evaluation
PSS	Pomorskie Smart Specialisations
R&D	Research and Development
RIS3	Research and Innovation Strategy for Smart Specialisation
ROP PR	Regional Operational Programme for the Pomorskie Region
RSP (s)	Regional Strategic Programme (s)
SME	Small and medium-sized enterprises
SPUE	"Pomorskie in the European Union" Association

## INTRODUCTION

Pomorskie Region does not have an explicit RIS3, the “strategy” is based on Pomorskie Regional Development Strategy (PRDS) accompanied with strategic tools in a form of regional strategic programmes (Table 1., see also Figure 1.). Pomorskie Smart Specialisations (PSS) are not defined in any of them.

**Table 1. Regional Strategic Programmes (RSP) and their connection with goals of the PRDS**

Regional strategic programmes	Operational goal of the Strategy
Economic Development “Pomorskie Creativity Port”	1.1. High efficiency of enterprises 1.2. Competitive higher education
Tourism and cultural attractiveness	1.3. Unique tourist and cultural offer
Vocational and social activity	2.1. High level of employment 2.2. High level of social capital 2.3. Effective education system
Health protection	2.4. Better access to health care services
Transport	3.1. Efficient transport system
Energy and environment	3.2. Safety and energy efficiency 3.3. Good environmental condition

PRDS and RSPs are covered by the common system of monitoring and evaluation that is described in the section 7 of this report.

The self-government of the Pomorskie Voivodeship initiated the PSS identification process in 2011 with updating the PRDS and including the smart specialisation principle in the Strategy. In accordance with this principle, public intervention will concentrate on enabling and utilising potentials relevant for the region and selected smart specialisation. The principle was transposed into the provisions of the “Pomorskie Creativity Port” Regional Strategic Programme for Economic Development and the Regional Operational Programme. In accordance with those provisions, development enterprises falling within the PSS will be prioritized when granting financial support in relation to those areas during the programming period of 2014-2020.

Pomorskie adopted a unique bottom-up (partnership) process of defining smart specialisations, it was carried out in six steps:

Step 1 - reviewing and updating analyses concerning the region's economic profile to specify its characteristic (endogenous) resources, advantages, development barriers, and economic activity areas with high growth potential.

Step 2 - inviting partners that identify themselves with the development of above-mentioned economic activity areas to present initial proposals of smart specializations and actions aimed at strengthening their R&D potential and improving the region's competitive position in the call for proposals (I stage of the Call for Proposals).

Step 3 - presenting the submitted initial concepts and reviewing (analyzing) them with the involvement of the Selection Board that included experts with international business experience and Polish roots. Partners also presented their concepts to each other in the formula of public hearing. They were thus encouraged to join forces in similar R&D areas.

Step 4 - inviting Partnerships preparing initial applications to present final concepts of smart specializations (II stage of the Call for Proposals).

Step 5 - negotiations of the Board of Pomorskie Voivodeship with Partnerships on the final shape and scope of specialization.

Step 6 – signing *Agreements on Pomorskie Smart Specializations* between Partnerships and the Board of Pomorskie Voivodeship for each of 4 selected PSS.

The competition-based mode, in which specializations were selected, launched a very active, entrepreneurial discovery process engaging the cooperation of various partners from the region, representing business, science, business support institutions and non-governmental organisations. The direct cooperation with interested partners involved entities that are key in building R&D cooperation between science and business. The process involved more than 400 entities, the most numerous group of which comprised enterprises (around 300 companies), schools and higher education institutions, business support institutions, municipalities and associations of municipalities, and numerous non-governmental institutions. As a result four PSS have been selected. The agreements on Pomorskie Smart Specializations was signed in January 2016 for a period no longer than 3 years, with an option to further extend their period of validity. Each PSS is represented by the Board consisting of 10 representatives of the partnership (6 from business, 4 from R&D and intermediary bodies). The powers of the Board include, among others, requesting a revision of the agreement upon initiative of the partnership, including the submission of the application for inclusion horizontal initiatives that have to be agreed with the Marshal (President of the Region).

Having all the above in mind, the analysis presented in this document concerns mainly the following documents: The Pomorskie Regional Development Strategy 2020, Regional Economic Development Programme (“Pomorskie Creativity Port”) and the Pomorskie Regional Operational Programme 2014-2020. In Section 8 of this report, other Regional Strategic Programmes were analysed in brief in order to identify possible interdependence between them and the Pomorskie "blue" specialization.

## 1. Analysis of regional context/analysing the innovation potential

Identified potential of Pomorskie Region:

- i) **location of the region** - opportunities associated with use of marine resources including:
  - a. an innovative shipbuilding industry with a strong export position,
  - b. port facilities of key importance for the national economy with high transshipment and container potential,
  - c. convenient connections for transportation and logistics (transport of passengers and cargo),
  - d. a maritime and business tourism (conferences, congresses);
- ii) **high economic activity** - the largest concentration of SMEs is in the Tri-City Metropolitan Area;
- iii) **industries with the greatest potential** for growth in terms of attractiveness for the creation and acquisition of external investment:
  - a. information and communication technologies (ICT),
  - b. pharmaceutical and cosmetics industry,
  - c. biotechnology,
  - d. logistics,
  - e. offshore technologies,
  - f. energy,
  - g. business services;
- iv) **export of services and products** - Pomorskie is one of the biggest exporters in the country:
  - a. ICT sector (information and communication technologies),
  - b. production and renovation of ships, yachts and other vessels,
  - c. production of ship equipment,
  - d. production of transport equipment (ships for platform services),
  - e. agri-food products.

Synthetic presentation of the most important features of Pomorskie Voivodeship, which determine its potential and competitive advantages, can be found in a detailed and comprehensive SWOT analysis (in both: Regional Development Strategy and Regional Strategic Programs as well as in SWOTs for each selected PSS).

Competitive advantage in Pomorskie Region related to the blue growth is identified in the PRDS as follows:

**maritime sector** - The maritime sector is a leading industry in the region. The largest companies in Pomorskie are shipyards: construction and repair. One of the most important changes in the specifics of the industry have been the creation of new specializations. Some of the shipyards began production of offshore units. Searching for a new place on the market, shipyards have also started to invest in the production of components for the production of renewable energy. Aside big companies there are many smaller shipyards which are specialized in the construction of modern boats and luxury yachts. The vast majority of this production is exported - approx. 90 %.

**Table 2. Potential of Pomorskie Region in Blue Growth areas**

Blue Growth Sectors	Analysis of current state
<b>port facilities</b>	These sectors are characterized by dynamic development and represent the economic strength of the region of key importance for the domestic economy. The seaports in the region have high cargo handling and container potential however the Pomorskie Voivodeship Management informed in the Regional Strategic Programme - "Pomorskie Creativity Port" - that the potential of the seaports of Gdansk and Gdynia is not fully used, what has negative impact on the economic growth of the region. Currently the vast majority of goods transported by ship is reloaded in Western European ports and transported by a land (road and rail) to Polish terminals. One of the reason for this are complicated domestic procedures (including customs procedures), as well as the low parameters of the port infrastructure (e.g. insufficient warehouse spaces).
<b>maritime logistics</b>	Pomorskie has a strong export position in the country and high specialization in a production and a renovation of ships, yachts and other vessels, ship equipment and a transport equipment production for platforms. Major recipients of Pomorskie are Germany, Norway, Sweden, Denmark, United Kingdom, the Netherlands and France, and since 2013 also the USA.
<b>shipbuilding industry</b>	Pomorskie Region is heavily dependent on external supplies of electricity. It has a large backlog of investment in this area and more than twice lower energy efficiency in relation to the EU average. However the potential of the region gives wide possibilities of development the energy from unconventional sources (maritime and land wind energy, shale gas, biogas, photovoltaic, hydro energy). Over the past few years there has been a dynamic development of the use of a natural resources in the region, especially in the wind energy area.
<b>energy industry</b>	Pomorskie has strong research and development capabilities of the offshore sector including: specialized companies in the construction, manufacture and renovation of offshore facilities and equipment and operation of offshore wind farms and other devices for converting of sea energy; research facilities - research units specializing in the subject of offshore and specialized vessels for transport, installation and maintenance of facilities and equipment.
<b>offshore sector*</b>	A significant resource of Pomorskie coast are popular among sailors attractive nautical marinas and fishing ports adapted to handle large yachts and motor boats with an extensive tourist infrastructure. <a href="http://pomorskie.travel/en/Water_adventures-Sailing-Sea_sailing-Harbours_marinas_and_piers">http://pomorskie.travel/en/Water_adventures-Sailing-Sea_sailing-Harbours_marinas_and_piers</a>
<b>tourism</b>	The process of population aging will run more smoothly than in other regions. It is predicted that in 2020 Pomorskie will be demographically the youngest region in Poland with the highest positive natural increase. It can be expected that services for older people (an element of "silver economy") including tourism, will be an important segment of the business, what will strengthen the local entrepreneurship.

(\*Source: "Pomorskie Creativity Port"; Presentation from the project AQUILO - Leszek Wilczyński CTO SA)

There is no RIS3 strategy in Pomorskie, as explained in the Introduction section. Table 2 presents S3 Priorities as Encoded in the "Eye@RIS3" Tool (<http://s3platform.jrc.ec.europa.eu/regions/pl63/tags/pl63?s3pv=1>)

**Table 3. S3 priorities of Pomorskie Region**

Description	Capabilities	Target Markets	EU Priorities
Off-shore, port and logistics technologies	<ol style="list-style-type: none"> <li>1. Manufacturing &amp; industry</li> <li>2. Machinery &amp; equipment n.e.c.</li> </ol>	<ol style="list-style-type: none"> <li>1. Manufacturing &amp; industry</li> <li>2. Motor vehicles &amp; other transport equipment</li> </ol>	<b>Blue Growth</b>
Eco-effective technologies in the generation, transmission, distribution and consumption of energy and fuels, and in construction	<ol style="list-style-type: none"> <li>1. Energy production &amp; distribution</li> </ol>	<ol style="list-style-type: none"> <li>1. Energy production &amp; distribution</li> </ol>	Sustainable innovation, Sustainable energy & renewables
Medical technologies in the area of civilization and ageing-associated diseases	<ol style="list-style-type: none"> <li>1. Human health &amp; social work activities</li> </ol>	<ol style="list-style-type: none"> <li>1. Human health &amp; social work activities</li> </ol>	Public health & security
Interactive technologies in an information-saturated environment	<ol style="list-style-type: none"> <li>1. Information &amp; communication technologies (ICT)</li> </ol>	<ol style="list-style-type: none"> <li>1. Information &amp; communication technologies (ICT)</li> </ol>	Digital Agenda

The PSS1 ‘Offshore, Port and Logistics Technologies’ is dedicated to the Blue Growth. Its objective is to gradually strengthen international competitiveness and accelerate the growth of maritime economy sector enterprises in Pomorskie Voivodeship by carrying out R&D works and developing innovative products, services and technologies in the field of environmentally sound exploration and exploitation of marine resources.

Scope:

- Universal solutions for the exploitation of marine resources;
- Vehicles and vessels to be used in the marine and coastal environment;
- Equipment, techniques and systems for monitoring and cleaning the marine environment and its facilities;
- Innovative ways and technologies for utilizing unique natural compounds produced by maritime organisms;
- Technologies, equipment and processes aimed at improving the safety and efficiency of transport and logistics services in ports as well as their hinterlands and forelands.

Other PSSs may support blue growth in Pomorskie through following identified areas:

#### **PSS2 - Interactive technologies in information-saturated environment**

smart city, smart port and digitalization of public services which can provide an easier access to port and port city infrastructure and information. Transmission of data, databases, data security, processing of large data which can be useful for all branches connected with work at sea (especially involving remote sensors) and also sea researchers.

#### **PSS3 - Eco-effective technologies in the generation, transmission, distribution and consumption of energy and fuels**

improving energy efficiency in buildings and industry such as shipyards and other sea/blue industry, renewable energy sources "smart grid" energy distribution (.e.g offshore wind energy, energy from

waves), energy storage (e.g. under water), means of transport on alternative fuel (e.g. electric ships, port infrastructure for electric ships), exploration, mining and processing of energy resources in the Baltic Sea.

**PSS4 - Medical technologies in the field of civilization and ageing-associated diseases** which will contribute, in particular, to the reduction of social and economic costs of civilization and ageing-associated diseases. New blue products e.g. new medicine, healthy food and cosmetics produced from the marine resources. Services such as telemedicine, telecare, telediagnosics and telerehabilitation for patients located at sea.

## 2. Setting out the RIS3 process - functional processes on the public side

Governance structure of the Pomorskie Regional Development Strategy is presented in Figure 1. There is no separate structure dedicated to the RIS3/PSS. The main implementation measure of blue growth related PSS is the ROP PR, however several national Operational Programmes are considered as important for PSS development like OP KED and OP SG plus other national programmes described in Section 6 of this Report.

The very specific arrangements related to the selected PSS have been described in the Introductory section. The agreements on PSS engage large number of stakeholders, however they do not have direct relations towards the governance of the PRDS: neither the PSS Boards nor the agreements' signatories are directly mentioned in the RDPS management structure.

**Figure 1. PRDS implementation tools and their interrelations**



Having in mind a specific set-up in Pomorskie Region – as described in the Introduction – and above analysis one may conclude, that participation of stakeholders is insured. The agreements to some extent ensure the ownership of the PSS by stakeholders, as they are actually expected to shape the content of the PSS (via horizontal projects) and to create further synergies, e.g. via inclusion of new members into the partnerships.

**Table 4. Institutions from Pomorskie involved in Blue Smart Specialization (PSS1)**

Institution	Role
<ul style="list-style-type: none"> <li>• Office of the Marshal of the Pomorskie Voivodeship,</li> <li>• The Board of Pomorskie Voivodeship,</li> <li>• The Sejmik of the Region (regional parliament),</li> </ul>	supervision and monitoring of the implementation Pomorskie Smart Specialisations; the financial support instruments;
<ul style="list-style-type: none"> <li>• Local administration,</li> </ul>	intermediary role between the Marshal's Office and the beneficiary;
<ul style="list-style-type: none"> <li>• Gdańsk Science and Technology Park,</li> <li>• Pomeranian Science and Technology Park in Gdynia,</li> </ul>	support and development of enterprises in innovation, among others in the fields like biotechnology, energy and the environment; the platform for cooperation between science and business; cooperation with the local government of Pomorskie;
<ul style="list-style-type: none"> <li>• Pomeranian Special,</li> <li>• Economic Zone,</li> <li>• Słupsk Special Economic Zone,</li> </ul>	
<ul style="list-style-type: none"> <li>• Polish Maritime Industries Association,</li> </ul>	creating conditions for development of the shipbuilding industry, the ship repairs and their research facilities; influencing for legislative solutions;
<ul style="list-style-type: none"> <li>• Polish Maritime Cluster Association,</li> </ul>	support for innovation and development in the field of research, business, and local government related to the Baltic Sea Region and economic and social links between Pomorskie and other countries of the Baltic Sea Region;
<ul style="list-style-type: none"> <li>• Pomorskie Development Agency,</li> </ul>	<p><u>Intermediate Body for ROP PR (1st Priority Axis)</u> actions for harmonious development of Pomorskie; support for entrepreneurs, business environment institutions and local governments; implementation of financial support instruments for small and medium-sized enterprises;</p>
<ul style="list-style-type: none"> <li>• Pomeranian Regional Development Agency,</li> </ul>	economic development support based on innovative technologies in the middle of Pomorskie Region; supervision of the Słupsk Special Economic Zone in which it operates Technology Incubator in Słupsk;
<ul style="list-style-type: none"> <li>• InnoBaltica Ltd,</li> </ul>	Support of co-operation between R & D and business partners
<ul style="list-style-type: none"> <li>• Pomorskie in the European Union Association,</li> </ul>	Partnership's support of local governments in Pomorskie, universities and other institutions acting for development of Pomorskie;

<ul style="list-style-type: none"> <li>• Business Incubators,</li> </ul>	<p>Słupsk Business Incubator <a href="http://www.sit.slupsk.pl">www.sit.slupsk.pl</a>            Kwidzyn Science and Technology Park <a href="http://www.kptt.pl">www.kptt.pl</a>            House of the Entrepreneur <a href="http://www.dp.tczew.pl">www.dp.tczew.pl</a>            Centre of Excellence ChemBioFarm Faculty of Chemistry,            Gdańsk University of Technology <a href="http://www.biotechnologia.pl">www.biotechnologia.pl</a>            Education&amp;Implementing Centre in Chojnice <a href="http://www.cew.bizneschojnice.eu">www.cew.bizneschojnice.eu</a>            Cierznie Business Incubator <a href="http://www.perlowainwestycja.pl">www.perlowainwestycja.pl</a></p>
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Many of the BSOs got public support from the EU funds (infrastructure and “soft” support). Necessarily there is a need for a closer cooperation amongst the BSOs to trigger critical mass and to achieve better results in implementation of innovative solutions in regional economy.

### 3. Understanding of the target group

Table 5. presents specific beneficiaries that are identified as key partners for each measure of PCP directly linked to the blue growth PSS. Full list of beneficiaries under each measures. Measure of the RSP that is relevant for the blue growth is presented in Section 8.

**Table 5. Specific beneficiaries of PCP**

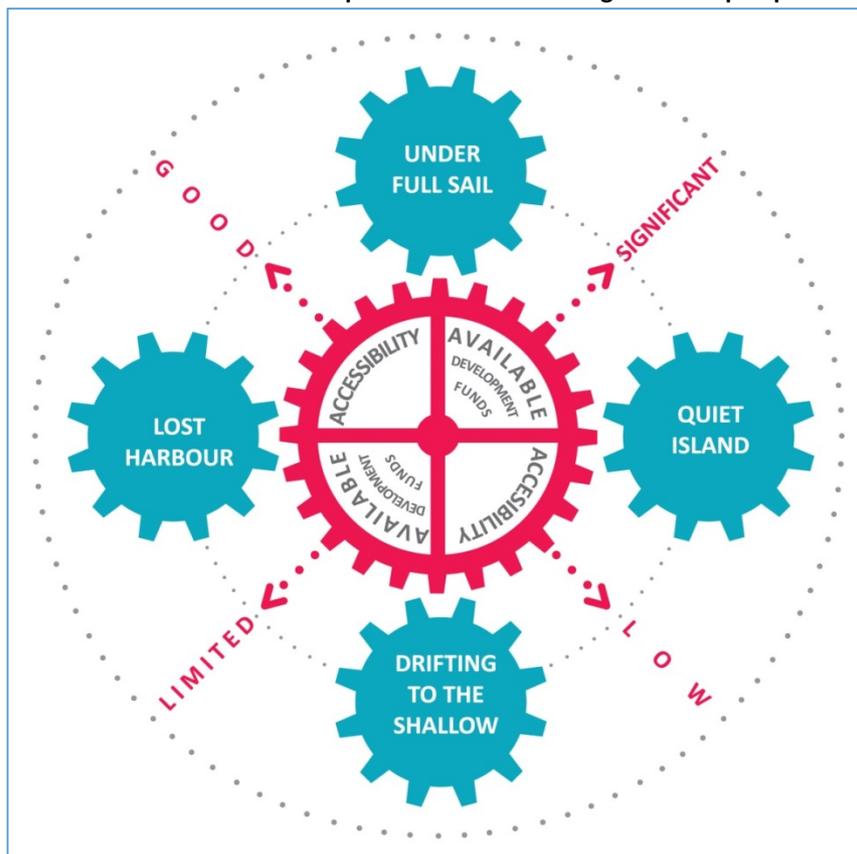
Priorities/Measures	Beneficiaries
Priority 1.1. Innovation and transfer of knowledge to the economy	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government,</li> <li>- Clusters,</li> <li>- Business environment institutions,</li> <li>- Universities, units of R &amp; D + I,</li> <li>- Local government units and their organizational units and companies with the participation of local government units,</li> <li>- Unions and associations of local government units,</li> <li>- NGOs,</li> </ul>
Priority 1.2. External economic links	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government,</li> <li>- Institutions involved in the acquisition of investments and promotion of exports,</li> <li>- Business environment institutions,</li> <li>- Universities, units of R &amp; D + I,</li> <li>- Local government units and their organizational units and companies with the participation of local government units,</li> <li>- Unions and associations of local government units,</li> <li>- NGOs,</li> </ul>
Priority 1.3. Modern information and communication technologies for the economy.	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government,</li> <li>- Clusters,</li> <li>- Business environment institutions,</li> <li>- Universities, units of R &amp; D + I,</li> <li>- Local government units and their organizational units and companies with the participation of local government units,</li> <li>- Unions and associations of local government units,</li> <li>- NGOs,</li> </ul>

Priority 2.1. Transregional and international activity of the university	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government,</li> <li>- Educational institutions, schools,</li> <li>- Business environment institutions,</li> <li>- Universities, units of R &amp; D + I,</li> <li>- Local government units and their organizational units and companies with the participation of local government units,</li> <li>- Unions and associations of local government units,</li> <li>- NGOs,</li> </ul>
Priority 2.2. Education for the needs of the economy	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government,</li> <li>- Clusters,</li> <li>- Business environment institutions,</li> <li>- Universities, units of R &amp; D + I,</li> <li>- Local government units and their organizational units and companies with the participation of local government units,</li> <li>- Unions and associations of local government units,</li> <li>- NGOs,</li> </ul>

#### 4. Developing a shared vision

As explained in the Introduction and as described in details in Sections 2 and 8 of this report, Pomorskie based its regional innovation strategy on 6 regional strategic programmes, of which Economic Development Programme “Pomorskie Creativity Port” is fundamental for fostering the Blue Growth in the region. Therefore it should be understood that the below presented vision, as defined in the Pomorskie Development Strategy 2020, is not dedicated explicitly to PSS.

**Figure 2. Possible directions of development of Pomorskie region in the perspective of 2020**



- SCENARIO “UNDER FULL SAIL” conditions: good transport accessibility; important development funds available;
- SCENARIO “QUIET ISLAND” conditions: low transport accessibility; significant development funds;
- SCENARIO “LOST HARBOUR” conditions: good transport accessibility; limited development funds;
- SCENARIO “DRIFTING TO THE SHALLOW” conditions: low transport accessibility; limited development funds.

“Under full sail” should be considered the most advantageous scenario, i.e. providing the most dynamic development, but also the scenario “Quiet island” involves the development, as well as (in the slightest degree) the scenario “Lost harbour”. These three scenarios (especially “Under full sail”) influenced the shape of the projection part of the Strategy.

Main directions for region's international positioning are:

- development of modern industries and professions associated with i.e. economic use of sea resources;
- cooperation within international R&D networks and clusters i.e. in the Baltic Sea Region;
- internationalization of higher education, vocational education, cooperation of schools;
- development of tourism taking advantage of supra-regional tourist products – international waterways, cultural routes, international bicycle routes;
- strengthening the European and Baltic Sea Region identities;
- development of the offer of international services i.e. Medical services;
- international transport – sea ports, airports, European transport corridors and cooperation in areas of socio-economic development along main transport corridors;
- development of energy sector – the Baltic Sea's and Vistula's River potential energy resources; national and European energy networks of transmission of electricity, natural gas, crude oil and liquid fuels;
- ecology and protection of environment – i.e. of the Baltic Sea waters.

The vision, as part of the Strategy, was defined through cooperation with representatives of numerous groups - scientists, local governments, as well as representatives of public institutions, non-governmental organizations and entrepreneurs. The starting point for the discussions were not only in-depth analysis of the socio-economic or statistical data, but above all, a dialogue based on the knowledge of experts - both theorists and practitioners. The adopted strategy takes into account lessons learned from public hearings lasting 12 weeks (April 2-June 22 2012) as well as the recommendations of the peer review: ex-ante evaluation and strategic environmental assessment.

Public consultations were extremely broad in nature. A total of 30 conferences and consultation meetings, which were attended by over 1,400 participants. During the period of the consultation process, 179 individuals and institutions have benefited from the opportunity to express opinions, giving a total of 1 160 observations. This demonstrates the significant involvement of the Pomeranian community in the debate on the future of the region. All comments received and how their inclusion in the draft strategy are described in detail in the Report from the public consultation the draft Regional Development Strategy of Pomorskie (<http://strategia2020.pomorskie.eu/konsultacje-spoeczne-srwp-2020>).

## 5. Identifying the priorities

Economic Development Programme “Pomorskie Creativity Port” under the 1<sup>st</sup> Priority Axis defines following priorities. All below listed priorities are relevant for the stakeholders of the Blue Growth sectors:

- Priority 1.1. - **Innovation and transfer of knowledge to the economy** – the aim is to strengthen innovation in companies by increasing investment in new technologies, knowledge transfer from R & D + I and professional business consultancy. This priority allows (through innovation) the development and expansion of activities;
- Priority 1.2. - **External economic links** – the aim is to increase the competitiveness of Polish enterprises in the international arena, by increasing their activity abroad and by attracting outside investors. This priority increases their opportunities for development and has an impact on the Blue Growth area activities;
- Priority 1.3. - **Modern information and communication technologies for the economy** – the aim is to develop all areas of the economy and improve the quality of life through investments in the development of ICT. The priority increases their opportunities for development and has an impact on Blue Growth area activities;
- Priority 2.1. - **Transregional and international activity of universities** – the aim is to attract students from outside the region and effectively encourage those in the region to benefit from the offer of regional schools. This priority gives the possibility for staff training (based on the regional demand);
- Priority 2.2. - **Education for the needs of the economy** – the aim is to adapt their educational offer of universities to meet the current market demand and effectively fill the formed gaps in this area, inter alia, through constant and intensive cooperation with groups of employers. This priority gives the opportunity to create fields of education in the area of Blue Growth.

## 6. Defining an action plan with a coherent policy mix

In addition to earlier analysed PRDS and PCP, following regional strategies and plans are important for the further development of the Blue Growth in the region:

- Spatial Development Plan of the Pomorskie Voivodeship (2009);
- The Regional Transport Development Strategy in Pomorskie for 2007-2020;
- Development Programme of the power sector including renewable resources in Pomorskie for 2025 (2010);
- Pomorskie Environmental Protection Programme for 2013-2016 with a perspective to the year 2020 (2012).

**Table 6. List of documents supporting smart specialization in the Blue Growth context**

document	supervision
Strategy of „Europa 2020 - Blue Growth Study”	European Commission
The National Smart Specialization (KIS)	Ministry of Economy Steering Committee for Smart Specialization
Plan for Responsible Development	Ministry of Development
Report on the implementation in 2015 the tasks of Secretariat of Baltic Sea	National Water Management Authority
Regional Strategic Programme for economic development - "Pomorskie Creativity Port"	The Pomorskie Voivodeship Board

**Table 7. Projects identifying tools and methodologies in Blue Growth aspect**

Project/who responsible	source
“Study on Blue Growth, maritime policy and EU strategy for the Baltic Sea Region” led by s.Pro Sustainable Projects granted by DG MARE of the European Commission (contact no MARE/2012/07 - REF. NO 1).	Study on Blue Growth
SUBMARINER Sustainable Uses of Baltic Marine Resources – Instytut Morski w Gdańsku (Maritime Institute in Gdańsk)	Road Map
Map of the National Power Grid - Polskie Sieci Elektroenergetyczne S.A. (Polish Power Grid)	Map
„Study of conditions of spatial development of Polish sea areas” Marine Offices in Gdynia, Szczecin and Słupsk	Study <a href="http://www.umgd.gov.pl/?cat=96">http://www.umgd.gov.pl/?cat=96</a>

- **Regional Operational Programmes 2014-2020 (ROP)** – It is a tool to implement the strategy of Pomorskie Voivodeship, allowing for the financing of activities related to the area of Blue Growth and Pomorskie Smart Specialization (PSS), from the European funds and national co-financing. The program is targeted at entrepreneurs, researchers, NGOs and public administration.
- Very important tool allowing implementation and financing of selected projects is the **Territorial Contract**. It is an agreement between the national and regional governments on priority development goals important for the development of the country and a given region. The objectives set out in the contract are common to both sides, and every activity within the framework of the contract should be included in the regional strategy. The central government can provide the means from the state budget to cover part of the national contribution to ROP PR. The Contract enables financing of priority projects defined in it.

Funds for the realization of projects selected under the contract come from:

- national public funds (including funds from EU),
- public funds of local government units,
- international financial institutions funds,
- other public entities funds participating in the territorial contract,
- private funds.

Voivodeship's budget is used for financing tasks of the Unit for Innovation Development under the Department of Economic Development in The Office of the Marshal of the Pomorskie Voivodeship. This budget may support PSSs (e.g. specific trainings and consultations, specific expertise, organization of conferences (speakers)).

- **Programs implemented by NCRD** – National Centre for Research and Development in Poland is the unit of allocating funds under the Strategic Research Agenda. Funds come from the European Union funds and the State Treasury.

**Table 8. Programs implemented by NCRD - 2016**

Acronym/Budget	Short description	Beneficiaries
TECHMATSTRATEG 500 mln PLN	Modern material technologies The development of knowledge in the areas of Program, leading to transfer (to the socio-economic environment) of innovative solutions, that were developed under the program and the growth of the international position of Poland in research and development work in that field.	entrepreneurs, researchers
BIOSTRATEG 500 mln PLN	Environment, agriculture and forestry The development of knowledge in the areas of Program, leading to transfer (to the socio-economic environment) of innovative solutions, that were developed under the program and the growth of the international position of Poland in research and development work in that field.	entrepreneurs, researchers
GEKON 400 mln PLN	Generator of Ecological Concepts Increasing the innovativeness of the Polish economy through the development of environmental technologies. Development and implementation of a new financial instrument to support the development of environmental technologies. Stimulate the cooperation of enterprises and scientific units.	entrepreneurs, researchers
GO_GLOBAL.PL 15 mln PLN	The aim of the program is to support Polish companies in increasing scale of commercialization (on global markets) results of research and development. The program supports activities implemented by innovative micro, small and medium-sized enterprises, operating in the high and medium-high technology sectors.	entrepreneurs
INNOTECH 650 mln PLN	It is a program of support of science and business in the implementation of innovative projects in various fields of science and industries, with particular reference to the area of advanced technologies.	entrepreneurs, researchers
TANGO 40 mln PLN	It is a support of practical use of the results of fundamental research, which aims to create a bridge between results of fundamental research, and the possible use of these results in economic and social practice.	entrepreneurs, researchers

Link to the schedule of competitions carried out in the 2016: <http://www.ncbir.pl/harmonogram-konkursow/>

Acronym/Budget	Short description	Beneficiaries
INNOSBZ 50 mln PLN	Financing is provided for projects which include industrial research and development work or development work. Funding is for projects from the national smart specialization including new specializations resulting from the process of entrepreneurial discovery.	entrepreneurs
Innomed 300 mln PLN	INNOMED sectoral program aims to fund research and development work on innovative solutions in the field of innovative medicine.	entrepreneurs
Innochem 120 mln PLN	INNOCHEM sectoral program aims to finance industrial research and development work on innovative solutions for the chemical industry.	entrepreneurs
Innostal 120 mln PLN	INNOSTAL sectoral program aims to increase the competitiveness and innovation of the Polish steel industry, having a significant impact on the shipbuilding and offshore	entrepreneurs

Several national policies and related to them operational programmes may be used by beneficiaries from the region for research and innovation in the field of Blue Growth. The table 9. below presents the estimated sources of financing for R&D projects from Pomorskie region. In principle, the financial framework is calculated based on estimates for Measure 1.1.1. and 1.1.2 under Priority 1.1. of the Regional Operational Programme for the Pomorskie Region (ROP PR).

The Self-Government of the Pomorskie Region has direct control over funds within the framework of the ROP PR for years 2014-2020 and indirect impact on projects being implemented under the Territorial Contract. The remaining funds will be largely dependent on the activity of beneficiaries from the Pomorskie Region and actions (undertaken by such entities as the Self-Government) with regard to promoting the acquisition of financing and its expenditure.

**Table 9. Estimated sources of financing for R&D projects from Pomorskie region**

No.	Source of financing	Amount (in PLN million)	Source of information
1.	Regional Operational Programme for the Pomorskie Region (ROP PR)	750.00	Detailed Description of Priority Axes of ROP PR for years 2014-2020 (investment priorities 1b, 1a and 1c)
2.	National Operational Programmes Operational Programme "Smart Growth" (OP SG), Operational Programme "Knowledge Education Development" (OP KED)	425.00	Estimates based on historical data and the potential of the region
3.	EU funds managed by the European Commission (e.g. Horizon 2020)	220.00	Estimates based on historical data and the potential of the region
4.	Other public funds (domestic and foreign)	21.00	Estimates based on historical data and the potential of the region
5.	Budget of the Self-Government of the Pomorskie Region	0.50	Estimates based on historical data and the potential of the region
6.	Private funds (for items 1-4)	957.00	Estimates based on historical data and the potential of the region
<b>TOTAL</b>		<b>2 373.50</b>	

The need to engage private funds for R&D stems from the introduction of relevant rules governing intervention as well as terms and conditions governing the provision of support to strategic and operational documents. The PRDS and RSP PCP define a criterion requiring the engagement of private funds, which places emphasis on the implementation of economically effective projects, especially those projects which engage private capital, thus leading to a greater impact and effectiveness of public intervention. One of the main indicators of the implementation of objectives defined in the RSP PCP is the value of private investments supplementing public support provided to enterprises. These preferences have been translated into directional rules governing the selection of projects for the ROP PR, e.g. enforcing the selection of projects "with a documented private financial contribution". The application of these criteria will stimulate private investments in R&D and result in a situation where support will be provided primarily to R&D projects or projects connected with investments in R&D infrastructure which demonstrate significant involvement of private financing and direct involvement of enterprises. Private funds for R&D activity will also be mobilised by capital fund instruments envisaged in the ROP PR: financial input and loan to innovation (described in the below table). The system will be similar to Jeremy initiative, at the moment (June 2016) fund instruments manager is being selected, the manager will be the body signing agreements with private companies.

**Table 10. Capital fund instruments envisaged in the ROP PR**

<b>Financial input (PL: Wejście kapitałowe)</b>
<p>The <b>financial input</b> is a source of external financing obtained by the final recipients in exchange for shares in the company. Support will be targeted only to the projects within the areas of the Pomorskie Smart Specialisation.</p> <p>R&amp;D projects should serve the development of the new or significantly improved products and production processes and aim to implement the results of R&amp;D into business. Financing will cover in particular industrial research and development work to support the security and protection of intellectual property for the company's own technical solutions, purchase of the results of R&amp;D and intellectual property rights, and adapt the company to implement them. Complementarily, it will be possible to support R&amp;D infrastructure of the company.</p> <p>Preference will be given to the projects concerning technologies that contribute to the saving of raw materials and energy and reduce emissions of harmful substances into the environment.</p> <p>The financial inputs will be made in companies with solutions classified, in principle, at a level VI to IX TRL. Support for projects of less than TRL VI will be possible after assessment by the which will determine the feasibility of the investment in terms of the potential for commercialization of the project.</p> <p>Limitations and Restrictions: The intervention is designed for projects ranging II-IX TRL. Support cannot cover the first stage of production exclusively.</p> <p>Final Recipients: Companies in the early stage of development operating in the Pomorskie region, in particular micro, small and medium-sized enterprises commencing and developing R&amp;D activities</p> <p>Financial intermediaries: Among other things, fund managers of venture capital.</p> <p>Basic parameters:</p> <ol style="list-style-type: none"> <li>1. Estimated number of final recipients 20-30</li> <li>2. The value of a capital entry of 200 thousand zł to 5 million zł</li> <li>3. The period of portfolio construction min. 4 years</li> <li>4. The period of the investment to 10 years</li> </ol>
<b>Loan to innovation (PL: Pożyczka na innowacje)</b>
<p><b>Loans to innovation for businesses</b> will be used to finance development carried out on the basis of R&amp;D. They can also serve as a follow-on funding directed to the enterprises supported earlier in the form of capital entry.</p> <p>The instrument will be targeted only to the projects within the areas of Pomorskie Smart Specialisation.</p> <p>R&amp;D projects should serve the development of the new or significantly improved products and production processes and aim to implement the results of R&amp;D to business. Financing will cover in particular industrial</p>

research and development work to support the security and protection of intellectual property for the company's own technical solutions, purchase of the results of R&D and intellectual property rights, and adapt the company to implement them. Complementarily, it will be possible to support R&D infrastructure of the company. It will also finance the construction, expansion, reconstruction, purchase of laboratory equipment or R&D departments in enterprises.

Preference will be given to the projects concerning technologies that contribute to the saving of raw materials and energy and reduce emissions of harmful substances into the environment.

The loans are used for financing projects classified, in principle, at a level of VII to IX TRL. Support for projects below VII TRL will require evaluation of the private investor, which will determine the feasibility of the investment, taking into account the potential for commercialization of the project.

Limits and restrictions:

1) The intervention is designed for projects ranging II-IX TRL. Support not only cover the first stage of production.

2) Financing the purchase and implementation of the results of R&D is only possible in case of the need for development of complementary/adapting technologies to the specific company.

3) The condition to support the establishment and development of R&D infrastructure, investment in equipment, equipment and other necessary equipment for the formation of R&D departments and laboratories in enterprises is to present a plan for R&D.

Final Recipients: Companies in the early stage of development operating in the Pomorskie region, in particular micro, small and medium-sized enterprises commencing and developing R&D activities

Financial intermediaries: Among other things, loan funds, banks.

Basic parameters:

1. Estimated number of final recipients 20-30
2. The value of loans from 200 thousand zł to 5 million zł
3. The period of portfolio construction min. 3 years
4. The period of financing to 10 years
5. Limit loss of 20%
6. Estimated lever 1.1-1.2

Source: *STRATEGIA INWESTYCYJNA dla INSTRUMENTÓW FINANSOWYCH w Regionalnym Programie Operacyjnym Województwa Pomorskiego na lata 2014-2020*

Pomorskie entrepreneurs may also use mechanisms offered at the national level. On 28th April 2016 in Warsaw an agreement on cooperation was signed between the European Investment Bank and the National Contact Point (NCP) for Financial Instruments of UE Programmes in the field of European Investment Advisory Hub (EIAH). The National Contact Point operates at the Polish Bank Association and is one of two Polish centers to support EIAH activities - together with Bank Gospodarstwa Krajowego S.A (national promotional bank of Poland).

Under the agreement the National Contact Point is a national institution for contact with Polish enterprises interested in the offer of preferential financing and is responsible, among others for the analysis of needs of the beneficiaries and matching the appropriate range of services.

NCP will carry out activities of information and promotion in order to increase awareness about the support offered by the European Centre for Investment Advisory among the beneficiaries from Poland. NCP also supports financial institutions interested in the role of National Financial Intermediaries in EU programs.

The financing for Polish entrepreneurs with the support of the European Commission is available on preferential terms under the EU programs:

- ❖ financing of programs launched before 2014: CIP (Framework Programme for Competitiveness and Innovation, the European Microfinance Instrument "Progress") is available until exhaustion of funds or to the end of the contracts concluded by the National Financial Intermediaries, in some cases up to 2017;

- ❖ from December 2015 the offer of the first brokers of EU programs for 2014-2020 has been running: COSME, Horyzont 2020 and EaSI;
- ❖ the offer will be enlarged by new broker's products, including next EU programs, like Creative Europe.
  - Benefits for entrepreneurs:
    - lack or lower required financial protection,
    - lack or lower required own contribution,
    - access to financing for companies with no credit history,
    - higher amount, longer duration of financing,
    - lower mark-up,
    - lack of status and burdens of public aid,
    - financing with the EU support available without EU applications, deadlines and queues,
    - the offer is easily accessible (whole Poland, a few thousand entity),
    - large choice and wide range of financial instruments.
  - Financial instruments:
    - capital loans,
    - leasing,
    - loans,
    - credit guarantees.
  - To whom the offer of preferential financing is addressed?
    - to self-employed and micro-entrepreneurs,
    - to small and medium-sized enterprises from all sectors,
    - to large enterprises.
  - For what can be spent the funds?
    - start-up and development of enterprises,
    - research and innovation activity,
    - purchase of equipment.

More: <http://instrumentyfinansoweue.gov.pl/>

## 7. Monitoring and evaluating

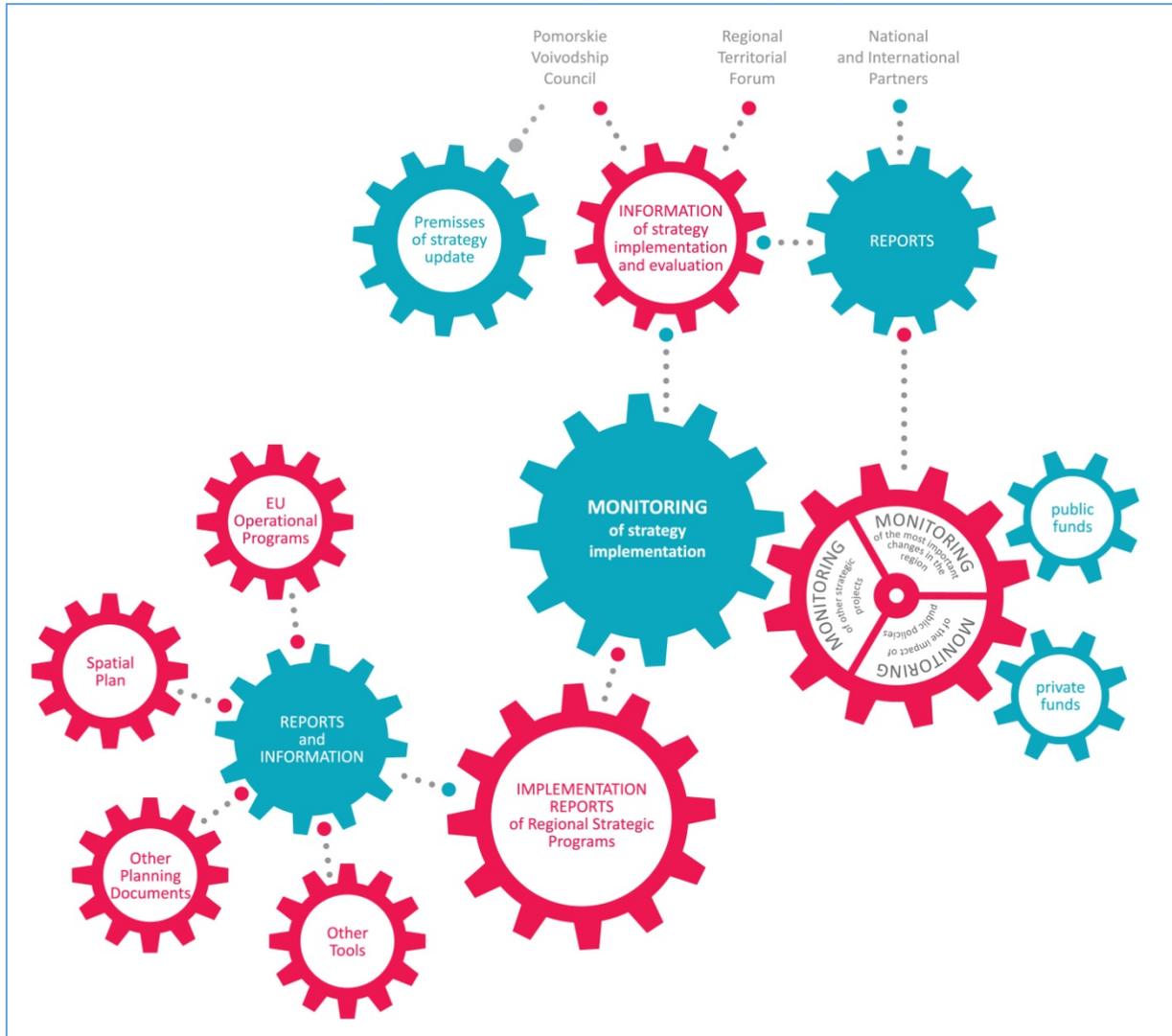
Pomorskie System of Monitoring and Evaluation (PSME) was approved with Annex to Resolution no.290/232/13 of the Board of Pomorskie Region of 21th March 2013. The Coordinator of the Regional Development Strategy of the Voivodeship of Pomorskie is responsible for the organization and functioning of PSME.

- The PSME main goal is to effectively support the decision making processes related to the planning and management of resources (mainly financial) targeted to the implementation of the Strategy;
- PSME assembles knowledge about the region by integrating and coordinating the activities of monitoring and evaluation conducted by the Self-government of the Pomorskie Region and through cooperation with numerous organizations and institutions involved in the development of the region;
- PSME functions on the basis of multiannual and annual action plans designed by the Coordinator of the Regional Development Strategy of the Voivodeship of Pomorskie, reviewed by the Regional Development Strategy of the Voivodeship of Pomorskie Steering Group and approved by the Board of the Pomorskie Voivodeship;
- At least once every 2 years, the Board of the Region develops “Information on the progress in implementation of the Strategy”, and at least once during the term of the Sejmik of the Region (regional parliament) – it draws up “Evaluation of the implementation of the Strategy”. Both of these documents will be reviewed by the regional territorial forum, and then presented to the Sejmik of Pomorskie Region. Conclusions and recommendations from these documents may be premises for updates of the Regional Development Strategy of the Voivodeship of Pomorskie towards 2020.

**Table 11. PSME is based on two pillars**

The results of Regional Government policy	The results not directly linked to the Regional Government policy
monitoring and evaluation of the results of the Regional Strategy Programmes (i.a. “Pomorskie Creativity Port” , including the impact on the environment;	monitoring and evaluation of key changes and socio-economic trends
monitoring and evaluation of spatial development and implementation of spatial policy based on analysis of actual spatial changes;	monitoring and evaluation of the impact of major public central level policies

**Figure 3. Model of the Pomorskie System of Monitoring and Evaluation (PSME)**



Monitoring began together with the implementation of the process for the selection of smart specialisations and is being conducted in the scope of the so-called “participatory evaluation”, which is aimed at the ongoing observation and identification of potential problems that may hinder the performance of envisaged activities and, in consequence, at drawing conclusions that may improve the process.

The process of selecting smart specialisations is cyclical. The assumptions adopted in the RSP PCP stipulate that this process will be repeated, as a rule, every 2 years. This principle introduces the possibility of selecting and supporting new smart specialisations when the economic and technological potential is sufficiently developed and strategies of specific actors, i.e. enterprises, scientific units, in the new economic area are modified.

Agreements on the development of smart specialisations, signed with Partnerships representing selected areas, will be valid for a period of 3 years. Following the lapse of this period and based on the evaluation of the implementation of objectives and projects envisaged in the Agreement, it will be possible to retain the “smart specialisation” status.

Additionally, the development of smart specialisations will be systematically monitored on on-going basis during the period of 2014-2020. This monitoring will be aimed at tracking the process

of economic and technological growth in selected areas. The growth dynamics of a given specialisation, in reference to the region, country and industry of a given specialisation, will also be monitored. In addition, monitoring will apply to the implementation of Agreements, including in particular to the implementation of R&D projects.

In the middle of the programming period, when the term of first Agreements has lapsed and 2 subsequent rounds of selecting smart specialisations have been conducted, the so-called mid-term evaluation will be conducted. It will be a comprehensive overview of experiences connected with the implementation of the process and effects of support provided so far to smart specialisation areas, in particular in terms of benefits and added value generated for regional economy. Conclusions drawn from the evaluation will serve to introduce potential modifications to the selection process and the scope of support provided to selected specialisations.

Additionally, a cohesive system for monitoring smart specialisations on a regional and national level has been developed in cooperation with the Ministry of Infrastructure and Development, the Ministry of Economy, the Ministry of Science and Higher Learning and the European Commission.

## 8. Revision of RIS3 related documents after evaluation

After external evaluation of the RIS3 process (including PSSs performance) done by the subcontractor (Deloitte) Pomorskie authority (Department of Economic Development of Marshal Office of the Pomorskie Voivodeship - DED) that is responsible for the RIS3 in Pomorskie decided to update the Regional Strategic Programmes including the “Pomorskie Creativity Port” – the crucial Programme for RIS3 process in the region. The update concerns following points:

- Updating information about the mechanism of identification and verification of the Pomorskie Smart Specialisations (PSS) and information in attachment concerning PSS. “Pomorskie Creativity Port” has been adopted before the PSS have been constituted, after PSS has been selected the Programme was updated only with the annex listing the PSS.
- Updating information about PSS evaluation and monitoring procedure including proposed indicators.
- Including strategic project “Animation of the development of areas of Pomorskie Smart Specializations as an element of the Entrepreneurial Discovery Process” (details in the below table).

The process of the update is as follows:

- DED has prepared the revised text of the “Pomorskie Creativity Port” and presented this to the Board of the Region - January.2018
- The Board of the Region including the Marshall accepted revision, public consultation started - February 2018
- The “Pomorskie Creativity Port” officially adopted by the Board of the Pomorskie Voivodeship after consultations – May 2018

Parallel to this process the Pomorskie Regional Operational Programme has been updated to enable the realisation of process within PSS and their relations with the regional authority. The new strategic project has been proposed (please see details in the below table). The revised ROP needs to be accepted by the EU COM – it is expected that the COM will approve proposed change in third quarter of 2018. At the moment DED is preparing administrative procedures necessary to open the call for this strategic project

DED has been informed by MIG and PEUA about the project findings, especially best practices and measures collected by PPs within the frames of GoA 3.1 activities. Special attention of DED has been given to the measure reported by Schleswig-Holstein: management of clusters. The main concern was about the financing mechanism: Pomorskie cannot afford to finance such measure from its own resources. At the same time the evaluation was done by Deloitte and the need for supporting PSS boards has been identified. The idea of new strategic project has born. One of the PSS boards task is to coordinate (steer) PSS' partnership towards achievement of the PSS aims, thus the board may be regarded as a cluster. From this perspective, the proposed new strategic project may be regarded as direct support to cluster management. It has to be mentioned however that this new measure inspired by SH example is not directed only to 'blue' PSS: all PSSs will benefit from this. In practical terms it means that blue PSS will 'receive' appr. 125 000 EUR for animation of its development.

Until the ROP will be approved by the EU COM and it will be possible to implement the new strategic project, DED decided to support PSS1 by initiating cooperation of the PSS1 Board with STARTER ([http://www.inkubatorstarter.pl/en#We\\_about\\_ourselves](http://www.inkubatorstarter.pl/en#We_about_ourselves)). In April 2018 a letter of intent has been signed between these two parties and the details of this cooperation are now discussed (status in May 2018).

According to the agreements with PSSs partnerships the evaluation of these agreements will start in July 2018. It will be a broad open process involving all signatories aiming at development of the process after the agreements are expires (February 2019).

Additionally, in 2019 Pomorskie is willing to start a call for the so-called 7<sup>th</sup> type projects: these are foreseen in the ROP under Action 1.1.1.. These projects are equal to the 'proof of concept' idea. The so-called 7<sup>th</sup> type projects will be in the form of a grant project aiming at supporting advanced research services provided by R&D units to enterprises in accordance with the demand reported by the enterprises. In particular, it will be a system of quick evaluation and granting of grants for companies' proof of concept' studies. Grants for entrepreneurs worth up to PLN 200,000 will enable quick and basic verification of their innovative hypotheses. It is assumed that the grants will be used to initiate innovative activities on a wider scale, including the preparation of large research projects that will seek further funding under the regional program and national operational programmes.

**Strategic project title:**

Animation of the development of areas of Intelligent Specialization of Pomerania and clusters as an element of the Entrepreneurial Discovery Process

**SCOPE:**

Animation activities for the development of four areas of the Smart Specialization of Pomerania, including:

I. The process of entrepreneurial discovery, including:

- Discovering new, innovative areas / industries with high development potential affecting the region's competitiveness.
- Identifying projects and research and development projects in response to market needs, serving the development of new products and technologies.
- Stimulating and animating cooperation between partners and regional stakeholders, with particular emphasis on the role of clusters.
- Actions aimed at coherent and effective use of support tools for the research and development sphere.

II. Internationalization of the Smart Specialization Areas of Pomerania, including:

- Implementation of support tools for ISP companies aiming at internationalization of products and services.

- Animating projects and research and development projects of supra-regional and supranational scope (e.g. Horizon 2020, Interreg, Cosme, Life).

III. Personnel development for Pomorskie Smart Specializations, including:

- Actions supporting the development of human resources and competences in response to market needs related to the functioning of smart specializations.

- Actions facilitating the acquisition of staff necessary for the functioning and development of ISPs.

IV. Monitoring of Smart Specializations of Pomerania, taking into account, among other things: the implementation of the monitoring system, including the assessment of public intervention effectiveness (eg through qualitative research of stakeholders, strategic verification panels, improvement of the ISP's functioning model).

V. Managing the process of entrepreneurial discovery, including, inter alia, strengthening the competences of public administration employees responsible for managing the process of entrepreneurial discovery.

Time and budget

2018-2021, 2 mln PLN (ca 500 000 EUR)

## 9. Interdependences between regional programs of Pomorskie

Interdependences between Regional Economic Development Programme “Pomorskie Creativity Port” and other Regional Strategic Programmes of Pomorskie in the field of Blue Growth are presented in this section.

### Regional Professional and Social Activeness Programme “Active Pomeranians”

One of main objectives of the Regional Professional and Social Activeness Programme “Active Pomeranians” is the increase of the level of employment in the region and professional competence of its residents. Together with certain specific objectives of the programme which are:

- initiating business activity of SME’s and providing development support to existing SME’s,
- development and increase of accessibility of effective career counselling on all learning stages and in working life,
- adaptation of education and training addressing needs of the labour market i.e. profiled lifelong learning offer,
- employment stability and proper profiling of enterprises’ activities.

These link the programme to the Regional Economic Development Programme “Pomorskie Creativity Port” and to the Pomorskie “blue” specialization focused on developing internationally competitive, modern and effective maritime economy sector enterprises carrying out R&D works and developing innovative products, services and technologies in cooperation with internationally active education and training system adapted to the economy needs i.e. in the technical professions in the shipbuilding industry, maritime logistics, off-shore energy sector.

### Energy and environment Programme “Eco-efficient Pomorskie Region”

The program applies to actions of regional authorities and defines the strategic projects, necessary for ensuring energy security and good environmental status in Pomorskie Region.

The main objective of the strategy “Eco-efficient Pomorskie Region” is a more efficient use of resources conducive to the development of low-carbon economy, the growth of energy security and improving the environment. The main objective is implemented through selected, specific targets, which support activities in the field of Blue Growth and intelligent specializations of the region:

- The development of low-carbon energy sources and the necessary infrastructure and diversification supplies of fuel and energy resources,
- Improving energy efficiency,
- Increasing the use of renewable energy,
- Reducing natural hazards,
- Improving the environment,
- Protection of biodiversity.

### The tourism and cultural attractiveness Programme “Pomorskie Journey”

The program is used by the self-government of the Pomorskie Voivodeship to implement such actions as image creation and touristic brand of the region and the construction of the network, supra-regional tourist products. Its main objective is the development using natural and cultural heritage according to the principles of sustainable development. Selected specific strategies targets may affect the implementation of activities related to the "Blue Growth". Objectives, i.e. .:

- Sustainable use of natural heritage,
- Modern infrastructure solutions and spatial.

### The Regional Strategic Programme for transport "Mobile Pomorskie"

The main objective of the program "Mobile Pomorskie" is to improve the transport system of Pomorskie. Main operational activities include:

- development of public transport system,
- development of the road network binding cities from region and Tri-City,
- modernization of infrastructure connecting multimodal nodes with transport system in the region.

Due to its coastal location and the intersection of European transport corridors, Pomorskie has good conditions for the development of multimodal transport. Although there is no direct links between the program of "Mobile Pomorskie" and "Blue Growth", the subsystems of water transport mainly related to two major seaports in Gdansk and Gdynia have a significant impact on the development of blue specialization.

The serious problem is the low availability of ports to railway transport and the lack of participation the inland waterway transport in handling the cargo of containers. The development of a multimodal transport in the region (especially the road and the rail infrastructure) can significantly improves the land handling of cargo from ports. It will also allow to exploit the potential of the existing rail infrastructure for the creation of "dry ports".

#### The Regional Strategic Programme for Health "Health for Pomorskie Citizens"

Under the RSP Health for Pomeranians there will be implemented measures which will lead to improved access to high quality specialized medical services in the following areas:

- lifestyle related diseases (e.g. obesity, diabetes, hypertension ),
- preventive measures and diagnostics for diseases of civilization.

Currently, tangent points for Health for Pomeranians and Pomorskie Creativity Port programme are in the field of education between the priority 2.1 Transregional and international activity of the universities and 2.2 Education for the needs of the economy in Pomorskie Creativity Port and Priority 3.1 Highly qualified medical personnel, Action 3.1.2 Attracting highly qualified medical personnel in the fields of deficit in Health for Pomeranians. It must be stated that there are no direct connections in the field of Blue Growth.

Potential linkages in the field of Blue Growth could occur in Priority 2. Patient safety and effectiveness of the regional health system, Priority 2.1 Information Systems and Telemedicine, Action 2.1.1 Implementation of modern and interoperable solutions, Action 2.1.1 Telemedicine in Health for Pomeranians.

**Table 12. List of Beneficiaries of Regional strategic programmes**

Regional strategic programmes	Programme's director	Priorities/Measures	Beneficiaries
Economic Development "Pomorskie Creativity Port"	Director of the department of economic development of the Pomorskie Marshal's Office	<b>Priority 1.1.</b> Innovation and transfer of knowledge to the economy	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government;</li> <li>- clusters;</li> <li>- Business environment institutions;</li> <li>- Universities, units of R &amp; D + I;</li> <li>- Local government units and their organizational units and companies with the participation of local government units;</li> <li>- Unions and associations of local government units;</li> <li>- NGOs;</li> </ul>

		<p><b>Priority 1.2.</b> External economic links</p>	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government;</li> <li>- Institutions involved in the acquisition of investments and promotion of exports;</li> <li>- Business environment institutions;</li> <li>- Universities, units of R &amp; D + I;</li> <li>- Local government units and their organizational units and companies with the participation of local government units;</li> <li>- Unions and associations of local government units;</li> <li>- NGOs;</li> </ul>
		<p><b>Priority 1.3.</b> Modern information and communication technologies for the economy</p>	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government;</li> <li>- clusters;</li> <li>- Business environment institutions;</li> <li>- Universities, units of R &amp; D + I;</li> <li>- Local government units and their organizational units and companies with the participation of local government units;</li> <li>- Unions and associations of local government units;</li> <li>- NGOs;</li> </ul>
		<p><b>Priority 2.1.</b> Transregional and international activity of the university</p>	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government;</li> <li>- Educational institutions, schools</li> <li>- Business environment institutions;</li> <li>- Universities, units of R &amp; D + I;</li> <li>- Local government units and their organizational units and companies with the participation of local government units;</li> <li>- Unions and associations of local government units;</li> <li>- NGOs;</li> </ul>
		<p><b>Priority 2.2.</b> Education for the needs of the economy</p>	<ul style="list-style-type: none"> <li>- Entrepreneurs, economic self-government;</li> <li>- clusters;</li> <li>- Business environment institutions;</li> <li>- Universities, units of R &amp; D + I;</li> <li>- Local government units and their organizational units and companies with the participation of local government units;</li> <li>- Unions and associations of local government units;</li> <li>- NGOs;</li> </ul>

Tourism and cultural attractiveness	Director of the Department of Tourism and Promotion	<p><b>Priority 1.2</b> Sustainable use of natural heritage</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- NGOs including local tourist organizations;</li> <li>- economic chambers and business organizations, entrepreneurs, including tour operators;</li> <li>- Regional State Forests;</li> <li>- Local Action Groups;</li> <li>- Local Fishing Groups;</li> <li>- National Parks;</li> <li>- Maritime Offices;</li> </ul>
		<p><b>Priority 2.1</b> Modern infrastructure solutions and spatial</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- cultural institutions ;</li> <li>- Ministry of culture and cultural heritage NGOs including local tourist organizations;</li> <li>- economic chambers and business organizations, entrepreneurs;</li> <li>- Local Action Groups;</li> <li>- Local Fishing Groups;</li> <li>- Regional Directorate of State Forests;</li> <li>- Regional Water Management Boards;</li> <li>- Maritime Offices;</li> <li>- National Parks;</li> </ul>
Vocational and social activity	Director of the Department of Education and Sport	<p><b>Priority 1.2.</b> The Foundations of Entrepreneurship</p> <p><b>Action 1.2.1.</b> Initiating the entrepreneurship</p> <p><b>Action 1.2.2.</b> Micro and small enterprises' development</p>	<ul style="list-style-type: none"> <li>- economic chambers and business organizations, entrepreneurs;</li> <li>- business environment institutions;</li> <li>- local government units and their organizational units, companies with local government ownership;</li> <li>- unions and associations of territorial self-government units;</li> <li>- labour market institutions;</li> <li>- organisations of employed workers;</li> <li>- NGO's;</li> <li>- Local Action Groups and Fisheries Local Action Groups;</li> </ul>
		<p><b>Priority 1.3.</b> Adaptation to labour market changes</p> <p><b>Action 1.3.1.</b> effective vocational counseling</p> <p><b>Action 1.3.2.</b> Profiled lifelong learning offer</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units, companies with local government ownership;</li> <li>- unions and associations of territorial self-government units;</li> <li>- educational institutions;</li> <li>- labour market institutions;</li> <li>- organisations of employed workers;</li> <li>- economic chambers and business organizations, entrepreneurs;</li> <li>- NGO's;</li> </ul>

		<p>The commitment of the Self-Government of Pomorskie Region</p> <ul style="list-style-type: none"> <li>- Establishment of the regional monitoring system of the graduates' careers at each level of education;</li> </ul>	<ul style="list-style-type: none"> <li>- local government units;</li> <li>- labour market institutions;</li> <li>- The Education Office in Gdańsk;</li> <li>- The Regional Examination Board in Gdańsk;</li> <li>- universities;</li> <li>- economic chambers and business organizations, entrepreneurs;</li> </ul>
		<p><b>Priority 3.1.</b> education development and employment</p> <p><b>Action 3.1.3.</b> Attractive vocational education</p>	<ul style="list-style-type: none"> <li>- educational institutions;</li> <li>- The Education Office in Gdańsk;</li> <li>- The Regional Examination Board in Gdańsk;</li> <li>- local government units and their organizational units, companies with local government ownership;</li> <li>- unions and associations of territorial self-government units;</li> <li>- social assistance institutions and social integration institutions;</li> <li>- economic chambers and business organizations, entrepreneurs;</li> <li>- NGO's;</li> </ul>
		<p><b>Priority 3.2.</b> individual education paths</p> <p><b>Action 3.2.1.</b> Highly capable students in the education</p>	<ul style="list-style-type: none"> <li>- educational institutions;</li> <li>- The Education Office in Gdańsk;</li> <li>- The Regional Examination Board in Gdańsk;</li> <li>- local government units and their organizational units;</li> <li>- unions and associations of territorial self-government units;</li> <li>- social assistance institutions and social integration institutions;</li> <li>- entrepreneurs and their organisations</li> <li>- NGO's;</li> </ul>
<p>Health protection "Healthy Pomeranians"</p>	<p>Director of the Health Department</p>	<p><u>Currently</u> Priority3 Equal access to medical services</p> <p><b>Priority 3.1.</b> Highly qualified medical personnel</p> <p><b>Action 3.1.2.</b> Attracting highly qualified medical personnel in the fields of deficit</p> <p><u>Potential</u> <b>Priority 2.</b> Patient safety and</p>	<ul style="list-style-type: none"> <li>- <u>Currently</u> Regional Chamber of Nurses and Midwives;</li> <li>- Regional Chamber of Physicians;</li> <li>- Medical University of Gdansk;</li> <li>- Ministry of Health;</li> <li>- Voivode of the Pomeranian Voivodeship;</li> <li>- healthcare entities;</li> <li>- education and higher education sector;</li> <li>- non-governmental organizations;</li> </ul> <p><u>Potential</u></p> <ul style="list-style-type: none"> <li>- Centre for Health Information Systems;</li> <li>- healthcare entities;</li> </ul>

		<p>effectiveness of the regional health system</p> <p><b>Priority 2.1.</b> Information Systems and Telemedicine</p> <p><b>Action 2.1.1.</b> Implementation of modern and interoperable solutions</p> <p><b>Action 2.1.2.</b> Telemedicine</p>	
<p>Transport “Mobile Pomorskie”</p>	<p>Director of Infrastructure Department</p>	<p><b>Priority 3.1.</b> Improving links between multimodal nodes and the regional transport system</p> <p><b>Priority 3.2.</b> The effective use of the transport availability of multimodal nodes</p>	<ul style="list-style-type: none"> <li>- The General Directorate for National Roads and Motorways and other roads administrators;</li> <li>- The Polish State Railways and other railway infrastructure managers;</li> <li>- Managers of seaports and maritime administration;</li> <li>- managers of ports and inland waterways administration;</li> <li>- owners and operators of logistics centers;</li> <li>- local government units;</li> <li>- clusters operating in the field of logistics and transport;</li> </ul>
<p>Energy and environment</p>	<p>Director of the Department of Environment and Agriculture</p>	<p><b>Priority 1.1.</b> The development of low-carbon energy sources and the necessary infrastructure and diversification supplies of fuel and energy resources</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- Unions and associations of local government units;</li> <li>- A Voivodeship Fund for Environmental Protection and Water Management in Gdańsk;</li> <li>- Entrepreneurs;</li> <li>- Pomeranian Development Agency;</li> <li>- The universities and R&amp;D;</li> <li>- Distribution system operators;</li> </ul>
		<p><b>Priority 1.2.</b> Improving energy efficiency</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- Unions and associations of local government units;</li> <li>- A Voivodeship Fund for Environmental Protection and Water Management in Gdańsk;</li> <li>- The universities and R&amp;D;</li> <li>- NGOs;</li> <li>- Distribution system operators;</li> <li>- Other public sector entities;</li> <li>- Pomeranian Development Agency;</li> <li>- Entrepreneurs;</li> <li>- Housing cooperatives;</li> </ul>

		<p><b>Priority 1.3.</b> Increasing the use of renewable energy</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- Unions and associations of local government units;</li> <li>- A Voivodeship Fund for Environmental Protection and Water Management in Gdańsk;</li> <li>- The universities and R&amp;D;</li> <li>- Regional Directorate of State Forests;</li> <li>- National Parks and Landscape Parks;</li> <li>- Entrepreneurs;</li> <li>- NGOs;</li> <li>- Other public sector entities;</li> </ul>
		<p><b>Priority 2.1.</b> Reducing natural hazards</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- Unions and associations of local government units;</li> <li>- A Voivodeship Fund for Environmental Protection and Water Management in Gdańsk;</li> <li>- Regional Water Management;</li> <li>- Maritime Offices in Gdynia and Słupsk;</li> <li>- Regional Directorate of State Forests;</li> <li>- entities of integrated rescue system of the Pomorskie Voivodeship;</li> </ul>
		<p><b>Priority 3.1.</b> Improving the environment</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- Unions and associations of local government units;</li> <li>- A Voivodeship Fund for Environmental Protection and Water Management in Gdańsk;</li> <li>- Regional Directorate of State Forests;</li> <li>- Entrepreneurs;</li> <li>- Other public sector entities;</li> </ul>
		<p><b>Priority 3.2.</b> Protection of biodiversity</p>	<ul style="list-style-type: none"> <li>- local government units and their organizational units;</li> <li>- Unions and associations of local government units</li> <li>- A Voivodeship Fund for Environmental Protection and Water Management in Gdańsk</li> <li>- The universities and R&amp;D;</li> <li>- Maritime Offices in Gdynia and Słupsk;</li> <li>- Regional Water Management;</li> <li>- Regional Directorate of State Forests;</li> <li>- Regional Directorate for Environmental Protection;</li> <li>- National Parks and Landscape Parks;</li> <li>- Other public sector entities</li> <li>- NGOs</li> </ul>