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S3Chem – Action plan for the promotion of smart specialisation strategies in the chemistry and bioeconomy sector in Mazovia Region

General Information:

Project: S3Chem – Smart Chemistry Specialisation Strategies

Partner Organisation: Mazowieckie Voivodeship

Country: Poland

NUTS2 region: Warsaw capital (PL 91) and Mazovia regional (PL 92)

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Table of content

1. Introduction	4
1. Description of the Regional Action Plan	6
2.1. Action 1: Building a competitive advantage of Mazovian SMEs in the chemical industry by supporting their activities with integrated pro-innovation services provided by competent BEIs (MSODI project)	6
2.1.1. Relevance to the project.....	6
2.1.2. Nature of Action.....	9
2.1.3. Players involved	10
2.1.4. Timeframe	10
2.1.5. Costs	11
2.1.6. Funding Sources	11
2.2. Action 2: Internationalization of clusters with the participation of chemical industry companies	12
2.2.1. Relevance to the project.....	12
2.2.2. Nature of Action.....	13
2.2.3. Players involved	14
2.2.4. Timeframe	15
2.2.5. Costs	15
2.2.6. Funding Sources	15
2.3. Action 3 - Increasing the activity of research and development chemical industry companies.....	16
2.3.1 Relevance to the project.....	16
2.3.1 Nature of Action.....	18
2.3.3. Players involved	19
2.3.4. Timeframe	19
2.2.5. Costs	20
2.2.6. Funding Sources	20

1. Introduction

From 2016 onwards the chemical regions Saxony-Anhalt, Limburg, Catalonia, Asturias, Lombardy, Wallonia and Mazovia have cooperated in the Interreg Europe Project S3Chem to strengthen smart specialisation strategies in the chemical and bioeconomy sector. All regions have given special priority to this sector in their Regional Innovation Strategies (RIS) due to the economic importance of the chemical industry.

The RIS provides the basis for the regional innovation funding in the framework of the ERDF. In this context, the S3Chem project has looked at different dimensions for the improvement of these policy instruments: better involvement of regional stakeholders and governance, project generation, funding instruments and evaluation and monitoring. Based on good practices identified in several regions an interregional learning process has been initiated. After three years of intensive exchange of experience, the partners have developed an Action Plan, which describes further concrete actions to improve their policy instruments for the promotion of innovation in the chemical and bioeconomy sector. The Action Plan will ensure the impact and sustainability of project results for the implementation of measures in the ongoing structural funds period 2014-2020.

The chemical industry is relatively strongly represented in the Mazovia, as one of the main - next to the ICT sector - activities among regional enterprises. It is indicated that the Mazowieckie Voivodeship is responsible for about 26% of the total domestic production of chemicals, chemical products and pharmaceutical substances and medicines, and for approximately 14.5% of the total value of these products sold nationwide.¹ In the context of regional economic conditions and the challenges faced by institutions implementing a long-term regional policy, a number of measures have been proposed, out of which the following Action Plan has been developed.

The S3chem project has contributed to the integration of the chemical industry environment through the meetings. It also had a strengthening effect on the entrepreneurial discovery process. Due to the fact that the Regional Innovation Strategy is up to 2020, the results of the project will be included in the work on the update of this document.

The Action Plan includes three actions consistent with RIS in 2020 and its goals, and fit within the long-term policy for supporting innovation by focusing on regional smart specialization - high quality of life, food safety, intelligent management systems and advanced business services:

¹ Report on support for innovation and the chemical industry in the context of the current state of implementation of the Regional Innovation Strategy for Mazovia by 2020.

1. Building a competitive advantage of Mazovian SMEs in the chemical industry by supporting their activities with integrated pro-innovation services provided by competent BEIs² (MSODI project)
2. Internationalization of clusters with the participation of chemical industry companies
3. Increasing the activity of research and development chemical industry companies.

The implementation of the Action Plan will be coordinated by the Office of the Marshal of the Mazowieckie Voivodeship in Warsaw which is responsible for the Policy Instrument. Clusters, Business Environment Institutions and Research Institutes are involved and support the activities.

² Business Environment Institutions – called also Business Support Institutions

1. Description of the Regional Action Plan

Policy Context:

Name of Policy Instrument addressed: **RIS Mazovia 2014-2020**

2.1. Action 1: Building a competitive advantage of Mazovian SMEs in the chemical industry by supporting their activities with integrated pro-innovation services provided by competent BEIs (MSODI project)

2.1.1. Relevance to the project

Mazovia, being a partner in the S3Chem project, meeting with the Regional Stakeholders Group and project partners from other regions, has identified the need to increase the competitiveness of Mazovian small and medium-sized enterprises (SMEs) by speeding up development processes and implementing designated strategies. SMEs are the most numerous group of enterprises in Mazovian chemical sector, mainly in plastic and cosmetics production branch. According to results of consultations with stakeholders and enterprises involved in works of ECRN Mazovia region self-government decided to create project that will strengthen competitiveness and innovativeness of chemical SMEs.

Mazovian chemical industry SMEs are beginning to adapt, depending on their capabilities, to various types of customers in the country and abroad. For this reason, the search for innovative solutions is necessary for the chemical sector to be able to thrive. Entrepreneurs should raise the efficiency of production and try to approach some trends as to the challenges set by the consumer world. Building a competitive advantage based on an innovative solution, often requires going beyond what is generally available, knowledge and skills, which has to be supplemented by additional staff or purchased on the market in the form of services.

The market offers more or less comprehensive services / instruments or ready-made solutions aiming to move enterprises further in their development. The competition is getting stronger, customers are more and more demanding, and the multitude of information makes it increasingly difficult to adapt products and services to the needs of the market. Building a company's position on the market is no longer based only on such advantages as price and quality, but it requires to searching for new values for customers (eg attractive design, user experience). Therefore, companies increasingly treat the customers as an innovators and try to involve them in the innovation process.

Such trends also resonate in modelling support forms of services for SMEs, which can be reached within regional operational programs for 2014-2020. The main assumption of this support is to create conditions for the development of entrepreneurship, including medium and high-tech services.

The essence of this support is the demand-side approach, characterized by resulting from the recognition of the enterprises' needs (both conscious and unconscious), but also on the differentiation of the needs of different target groups. This approach puts the entrepreneur and his needs at the center, and leaves him choice as to the range of services, and to the delivering contractor. It also enables the application of solutions more tailored to the strategy of individual SME's and maintaining greater added value after using such a service, than services created based on the standard needs of an assigned group of SMEs.

Important role in this process is played by the Business Environment Institutions (BEI), which have been identified in the framework of RPO 2014-2020 as entities to provide services to SMEs. Due to the social genesis of the establishment of BEIs, they form an important element that fills the gap between market mechanisms and public administration activities. Taking into account the role of the BEI, the voivodship implemented the Mazovian Accreditation System of BEI. The purpose of this system is to ensure a correct and adequate level of services provided by BEIs addressed to SMEs. Intelligently programmed assistance allows to innovative entrepreneurs and businesses to manage more effectively and efficiently the development of their new services, products, technology, marketing models as well as their organizational solutions.

The previous research shows that SMEs using the services of BEI, introduce new products and services more often, and more often increase the geographic reach and scale of operations. Companies that are looking for innovations in their activity, starting with identifying customer needs, achieve much better results than companies choosing other strategies (eg following the market or staying on the border of technological thought).

Just as it is in Wallonia, which using actions in Axis 2 "Innovations 2020" wants to complement its contribution to the Europe 2020 Strategy, Mazovia seeks to increase the number of SMEs involved in innovation (technological or non-technological) and to increase the level of private investment in this field. It should be noted that Wallonia also indicates that support should not only concern cluster initiatives. In addition to the areas of cluster specialization, representatives of Wallonia also indicate the need of supporting knowledge-based services. As well as Wallonia, Mazovia region emphasized need of involving more SMEs in innovation system and activities. BEIs in Mazovia are obliged to create new services based on the SMEs' demand (not only strictly technological as it was earlier), what is inspired by Wallonia's Axis 2 "Innovation 2020" assumptions.

Although Saxony-Anhalt predicted a slightly different type of activities, the same effects in the form of substantive support for entrepreneurs in the process of implementing innovative solutions is going to be achieved. Saxony-Anhalt predicted financing the Assistant for Innovation in enterprises. The concept of the Mazovia is to increasing the specialists' qualifications in offering technology transfer services outside enterprises,

as part of the BEI. The effect of their actions and, to a large extent, the essence, are the same in both cases. Also basis idea of Saxon CIM funding (creating innovations in cooperation networks) is implemented in MSODI project – in Mazovia innovative services for SMEs are created in BEIs partnerships. Cooperation in partnerships gives added value to services for chemical SMEs.

But the strongest reference to the partners' experience is the situation in Catalonia. In this region, the Innovation Vouchers program is implemented, which entrepreneurs can use to pay for services provided by ACCIÓ accredited partners. It is the idea of accreditation of the Business Environment Institutions, which are able to offer the best quality services for entrepreneurs, is the essence of the proposed activity. Accreditation and developing of BEIs' services is inspired by the idea of 4th Axis of RIS3CAT (Catalan RIS): Improving the environment for innovation through public policy.

2.1.2. Nature of Action

The main assumption of the non-competition project „Modeling the Offer System for Innovation” is to increase the pool of high-quality support available for SMEs in the form of pro-innovation consulting services. It will take place through project activities, which include:

- development of competition documentation;
- the announcement of a grant competition and the selection of grantees, i.e. the BEIs that meet certain criteria;
- modeling pro-innovation service system offered by BEIs, through animation and promotional activities;
- monitoring of the BEI offers system, implementation and settlement of grant contracts, thanks to which new services for SMEs will be created.

A systematic approach to the professionalization of consultancy services provided for SMEs by BEI is a deliberately action plan for building a competitive advantage of Mazovian SMEs. Mazovia taking into account the areas of smart specializations of the region, will emphasize the selection of such projects of those grantees who will create and implement new or improved pro-innovation advisory services using the potential of the region. The broadly defined chemical industry plays a significant role in the region, so it will be in the circle of potential recipients of new and improved consulting services.

Under the project, in addition to the call for funding for BEIs partnerships, the activities ensuring that BEIs’ offer is comprehensive and coherent, as well as tailored to the needs of enterprises, are also planned. To this end, the project provides regular networking and monitoring meetings for information exchange on market needs, for up-to-date offers modeling so they meet the criterion of fit and comprehensiveness to the greatest possible extent. At the same time, the planned meetings will increase the awareness of SMEs in the field of innovation, its sources and available support mechanisms of pro-innovative services. Communication directed to potential groups of recipients will also be required. It will be an additional educational element for all market participants. The series of networking meetings will be correlated with the Mazovia smart specialization areas.

One of the networking meetings will be directed to the broadly defined chemical industry / bioeconomy. Participants will have the opportunity to obtain information on the created BEI offers, as well as to communicate their needs and establish direct relationships with potential service providers. Such activities will be allowing the information and practices exchange, enabling effective local development and helping to build lasting relationships that ensure a constant flow of knowledge also in the chemical industry. In the long-term approach on social capital, such activities also support the building of cooperation between (fragmented) companies, including chemical sector companies.

The project "Modeling of the Offer System for Innovation" (MSODI) is complementary to, and translates into the implementation of the objectives of the regional innovation system and support for innovation in the priority of smart specializations areas.

Effective implementation of RIS for Mazovia requires the creation of appropriate mechanisms stimulating the demand for innovation, as well as the supply of solutions in line with the needs. The system of financing services alone is not sufficient unless the quality of these services on the market is ensured - as evidenced by the experience of the Innovation Vouchers in Catalonia, at least.

Monitoring:

- Summary report of the meeting with participation statistics.

Indicators:

- Number of networking meetings for the chemical industry: 1
- Number of enterprises and R&D units participating in meetings: 100.

2.1.3. Players involved

Organisation	Role
Mazowieckie Voivodeship	The main institution responsible for action 1. Responsible for participation in all activities, financing all the costs, coordination of all activities
Business Environment Institutions	The main subject creating and implementing advisory services of a pro-innovative nature
Regional enterprises	The key role in the task evaluation system - thanks to the opinions of entrepreneurs will be verified, whether the introduced new or improved pro-innovation advisory services are tailored to their needs and translate into building a competitive advantage.

2.1.4. Timeframe

2019-2020:

- Grant recruitment: II quarter of 2019, and supplementing recruitment II quarter of 2020.
- Consultations with the BEIs: BEI Forum meetings organized by the Masovian Voivodship - once every quarter.
- Commencement of the process of providing services for SMEs: implementation of new or improved services will take place in 2020-2022.

2.1.5. Costs

Activities will be implemented as part of the project. The costs of project service, including networking, reporting, promotional and summarizing meetings the project in the form of good practices, are financial outlays in the amount of PLN 1,019,756.08

From January 2018 onwards, there are 70 Mio Euro available for ERDF funding in the framework of the "R&D" Directive.

2.1.6. Funding Sources

Non-competitive project financed from the European Regional Development Fund - under the RPO WM 2014-2020. In addition, the activity is related to the costs of current work of employees of the Marshal's Office of the Mazovian Voivodeship in Warsaw.

2.2. Action 2: Internationalization of clusters with the participation of chemical industry companies

2.2.1. Relevance to the project

In all S3Chem partner regions are well-developed and mature cluster initiatives operating in the field of chemical industry and bioeconomy. Mazovian chemical sector includes few clusters, like Mazovian Chemical Cluster, Mazovian Cluster BioTechMed etc., what cause a need of their enhancement for benefit of chemical industry. The development of cluster initiatives in Poland has been going slowly but gradually for last several years, thanks to the support of domestic and EU financial instruments. However, due to the level of their maturity, these clusters are usually focused only on local or regional cooperation. Thanks to interregional cooperation, Masovian chemical and related industries cluster initiatives, could benefit from the experience of other cluster initiatives and move to the international level of activities for their participants. However, internationalization means both the activities of the cluster structures themselves, as well as the cluster members. Mazowieckie Voivodeship is still a key research center in Poland, in the field of chemical industry as well because of the main research and development centers here located. The strategic goal II of RIS 2020 has been defined as "an increase in internationalization focused on the development of innovation in the Mazovian voivodship", and the 1st operational goal serving its implementation is "an increase in the activity of scientific entities, enterprises and Mazovia clusters on the international arena". Action 2 is directly in line with the goals described in RIS 2020 as supporting international cooperative relations, expanding the activity of companies, scientific institutions and other economic entities on foreign markets, including in partner countries of the S3Chem project. Under the term „internationalization" in RIS 2020 are understood activities serving the international economic and scientific linkage of the region.

The development of cluster initiatives is present in the policy of almost all partner regions. Mazovia plans are fully in line with the Limburg experience. One of the basic tasks is to support the internationalization of the experiences of leading clusters ("OP Zuid stimulates innovation by supporting crossovers between international top clusters"). Just deriving from the experience of the best clusters on the international scale is the essence of the anticipated action.

The importance of cluster support in the strategic documents of Wallonia is also strongly emphasized. Priority axis 2 of the Innovation 2020 program is to a large extent devoted to the clusters' support. Representatives of Wallonia emphasize the need to support the development of clusters, especially in the area of stimulating the emergence of new sources of growth and innovation in the regional ecosystem, in order to supply the dynamics of clusters and stimulate the overall competitiveness of the economy ("emergence of new sources of growth and innovation" the Clusters 'dynamics and stimulate overall competitiveness of the economy"). The search for such sources of stimulation through internationalization is the essence of action 2.

Catalonia in its strategic documents also underlines the importance of building a broad cooperation between clusters, entrepreneurs, R&D centers on a scale wider than the regional one. An example of ACCIÓ is given, which creates a cooperation network between clusters, associations and the media. Also competitive process that allows Mazovian clusters to obtain regional grants is inspired by Catalonia's RIS3CAT Communities grants mechanism.

2.2.2. Nature of Action

In the years 2020-2022, the Board of the Mazowieckie Voivodeship plans to announce the open call for offers for non-governmental organizations (and other entities listed in Article 3 paragraph 3 of the Act of 24 April 2003 on Public Benefit and Volunteer Work) for public tasks of the Mazowieckie Voivodeship in the area "Activities supporting economic development, including the development of entrepreneurship" - the task: „Supporting and developing clusters and cluster initiatives and strengthening their competitive position on the market, including promoting cooperation between the sector of science and business” in the form of supporting the implementation of the task. The competition is aimed at selecting offers that will contribute the most to the development of entrepreneurship and cooperation networks within the clusters functioning in Mazovia.

Participation in the competition should contribute to the professionalisation of the activities of Mazovian clusters. The intention of the competition organizers is to support clusters that have development potential in a given sector / industry.

The competition provides the co-financing of the following tasks:

1. the development of cooperation within the cluster (for clusters existing for less than two years), eg: training and workshops on cooperation development, including, among others, development and implementation services for cluster members;
2. clusters' promotion on the international markets, including participation in trade fairs, industry exhibitions and study visits;
3. internationalization of clusters' activities, including eg: establishing and developing cooperation with foreign high-level clusters for good practices learning, establish business contacts and acquire the potential to create project consortia (study visits, economic missions, etc.), introducing products and services on the foreign market;
4. undertaking inter-cluster R&D cooperation projects, establishing contacts for project consortia;
5. initiating and developing cooperation of clusters and R&D units, Mazovian accredited BEI and science and technology parks to develop new products or services, including diagnosis of needs and opportunities related to technology transfer, technology audits, development of the product and service offer of the cluster;

6. R&D projects implementation and commercialization of scientific research by cluster members, including providing / using laboratories or other research infrastructure as well as production infrastructure;
7. creation of a new cluster product;
8. protection of intellectual property of implemented innovation (patent, patent application, trademark, etc.);
9. creation of a spin-off and spin-out cluster enterprise with an innovative character.

In the internationalization process, it is important to identify entities ready to engage in international cooperation. At the same time entities in partner regions should be identified, for whom cooperation with Mazovian initiatives could be beneficial. Mapping the potential and developmental level of Mazovian cluster initiatives (including the determination of their participants' readiness to undertake supra-regional initiatives), will enable eg:

- to increase the attractiveness of clusters for foreign investors (access to supply chains, complementary services, etc.)
- to facilitate international direct contacts between entrepreneurs, clients, R&D institutions, and local governments, which can be implemented by networking activities at the level of cooperating regions, thanks to the activities of local governments and business environment organizations.

Additionally, clusters' internationalization helps building long-term contacts and a constant flow of information, and thus, building trust between their stakeholders from the public and private sectors. Long-term, stable contacts between regional entities of the chemical industry and administration units in the country and abroad also serve to build organizational culture and social capital. Trust between the private and public sectors should also be built during active participation in the S3Chem project.

Monitoring:

- Reports

Indicators:

- Number of offers submitted: above 3
- Number of co-financed offers: above 3.

2.2.3. Players involved

Organisation	Role
Mazowieckie Voivodeship	Responsibility for action 2. Responsibility for participation in all activities, financing the costs of activities with own budget, activities coordination

Organisation	Role
Cluster initiatives (formally non-governmental organizations)	Participation in the process of identifying the potential for international cooperation, communication with cluster participants in the process of identifying needs and opportunities
Mazovian enterprises	Participation in the process of identifying the potential for international cooperation
Regional R&D centres	Participation in the process of identifying the potential for international cooperation

2.2.4. Timeframe

2019 - 2022:

- Documents for the announcement of the competition preparation (defining the selection criteria for the co-financed tasks), consultation of documents with the Office of Civil Dialogue and the Mazovian Council for Public Benefit Activities (MRDPP)
- Announcement of the offer competition
- Formal evaluation of submitted offers
- Supplementing offers
- Establishment of the competition commission, including 1 person selected from the MRDPP
- Conducting substantive evaluation of submitted offers
- Settlement of the competition and selection of offers for co-financing
- Publication of the results
- Signing contracts
- Implementation of projects
- Settlement of subsidies
- Reporting.

2.2.5. Costs

PLN 300,000 from the Mazowieckie Voivodeship's own budget for the clusters' support. Additionally, the activity is related to the costs of current work of employees of the Marshal's Office of the Mazowieckie Voivodeship in Warsaw.

The tenderer may submit no more than 1 offer in the competition.

2.2.6. Funding Sources

The own budget of the Mazowieckie Voivodeship.

2.3. Action 3 - Increasing the activity of research and development chemical industry companies.

2.3.1 Relevance to the project

An important problem of the Mazovian economy is the limited scope of enterprises undertaking R&D activities leading to the implementation of innovations, and as a consequence, low private R&D expenditure. This applies to both R&D activities carried out by enterprises themselves, as well as to undertake cooperation with scientific institutions or the implementation of research results developed by scientific institutions. Support of Action 3 is aimed to increase the number of enterprises undertaking R&D activities leading to the creation of innovations and to increase their scope and intensity through access to financing:

- implementation of R&D projects of enterprises, allowing creation or development of R&D infrastructure of enterprises,
- establishing and strengthening cooperation with scientific institutions as part of the implementation of small research projects.

Searching for innovative solutions is necessary for dynamical develop of the chemical sector. It should raise the efficiency of production and try to approach some trends as the challenge set by the consumer world. However, it's crucial to see the opportunity of improving your position leading to a better future, in that challenge.

Like SMEs in Wallonia, Mazovian SMEs are the engine of economic growth, employment and cohesion. They have an important role to play in deepening and accelerating the dynamic processes of entrepreneurship and innovation in the whole ecosystem. Mazovia, while analyzing the achievements of Wallonia, aims to bring SMEs and research centers closer together, thus strengthening the ability of R&D sector to respond to areas useful for SMEs. As in Wallonia, whose representatives emphasize the crucial importance of R&D support ("Innovation is identified as a cornerstone of industrial development in Wallonia. R&D support will focus on innovation and marketing, non-technological and technological innovation, eco-innovation ..."), Mazovia also aims to support not only research in the field of technology, but also in marketing or service innovations. In Mazovia, the emphasis is as well put on the commercialization aspect of R&D activities, because the commercialization of research results is the essence of the impact of research and development on the economy („A focus will be put on industrial valorisation of R&D"). Mazovian Regional Operational Programme, as well as Axis 2 in OP of Wallonia, will give funds for investments in advanced equipment, cooperation of universities/scientific institution for doing researches chemical branch and exploitation of research results in enterprises.

Competitions financed from the European Regional Development Fund, under Measure 1.2 Research and development activities of RPO WM enterprises 2014-2020, are a response to the need for access to diversified support. They are aimed at strengthening the R&D activities undertaken by entrepreneurs. It is the increase in

expenditures on research and development, and consequently the improvement of the position in the category of obtained patents, which is the indicator that measures the level of innovation in the region. It is also a key indicator of the implementation of the Europe 2020 Strategy.

It is of great importance for the chemical industry, to create real cooperation mechanisms between a huge number (fragmented and small) of scientific institutions operating in Mazovia, and regional, national and foreign small and medium scale companies. Effective cooperation of research centers in Poland (and the entire EU) is still a field for development, eg as part of the commercialization of research results, commissioned services, etc. In the economic conditions of some of the partners from EU countries, research centers often work exclusively for large enterprises. Such a model of activity exceeds the current capabilities of the majority of Polish and regional enterprises in the chemical industry. The analysis of the needs of stakeholders - entrepreneurs from the chemical industry and the potential of chemical research and development centers in the region should be considered as the basis of the activity.

It is also important to promote the research offer of leading Polish chemical R&D centers (located in Mazovia) among entities from partner regions. Financial support for activities in the smart specialization areas of the region related to the chemical industry should be particularly strongly promoted, due to the implementation of strategic goals set in RIS 2020 (Strategic goal I: Increasing and strengthening cooperation in innovation and innovation development processes, operational goal: Development of cooperation forms for business - science - environment, which guarantees measurable effects for the region's economy).

The implementation of broader and more intensive cooperation between chemical industry companies and stakeholders from the scientific and administration sector in the smart specialization areas serves both RIS 2020 objectives and building trust between involved entities from various sectors. Insufficient awareness of the needs and potentials, results in a lack of trust and a smooth flow of information between entities from various sectors.

From the point of view of Mazovian entrepreneurs, this action should facilitate the implementation of projects aimed at improving competitiveness through the application of innovative solutions. On the national level, cooperation between the world of science and business in the field of creating regulatory requirements will be of great importance. In the context of the learning process, the experience of Saxony-Anhalt in the field of flat rates has been taken into account as a valuable idea to follow. It is worth emphasizing that in Saxony-Anhalt, as in Mazovia, the promotion of research and development activities is one of the main strategic goals (Directive for promotion of R&D Activities) and translates into specific financial support.

Action 3 is closely related to the activities undertaken by Catalonia. Nuclis R&D Cooperation Projects (Industrial Research and Experimental Development Program) should be indicated, which is directly aimed at supporting R&D activities within enterprises.

2.3.1 Nature of Action

This action will be implemented thanks to the announcement of call for proposals for research and development projects with particular emphasis on Piochemical industry entrepreneurs. It is possible to use flat rates for indirect costs in this area, which would be an additional incentive for both entrepreneurs and R&D units. The support will cover the phase of scientific research, industrial research and development works, including the development of prototypes, demonstrations, development of pilot projects, testing and validation of new or improved products, processes or services in the environment as a model of real operating conditions, the main objective of which is further technical improvement of products, processes or services, and the final shape is generally not yet determined.

The support may also cover the development of technology (developed by the entrepreneur or acquired), which has not yet been commercialized and used in business, but the financing includes in particular the costs of carrying out further stages of research and development that complement or adapt technology to the specifics of the company.

The research and development project assumes the eligibility of the following costs:

- project staff - remuneration of researchers, technicians and other technical support workers to the extent that they are employed in a given project,
- depreciation of scientific and research equipment in the scope and for the period in which they are used for the purposes of the project or paid use of scientific and research equipment,
- renting laboratory space,
- depreciation of intangible assets,
- purchase of materials (eg raw materials, semi-products, reagents and small laboratory equipment) other than fixed assets,
- maintenance of technological lines, experimental installations, etc. in the period and in the proportion of use in the project,
- purchase of elements used for construction and permanently installed in the prototype, pilot or demonstration installation,
- obtaining protection of industrial property rights and implementation of industrial property protection, as well as patent analysis, which are necessary for the effective commercialization of technology. Obtaining protection of industrial property rights is not a mandatory element of the project,
- indirect: remuneration and delegation of project managers; use of buildings, including costs of renting, maintaining or depreciation of buildings, utilities, cleaning and security; property insurance; waste utilization; periodic maintenance and inspection of devices; the cost of adapting rooms for the purposes of project implementation, land use to the extent and for the period in which they are used for the purposes of the project; administrative fees,

including stamp duty, notarial fees, costs of postal, telephone, Internet, courier services, banking services, accounting services, legal and office supplies.

The criterion promoting R&D projects in the chemical industry will be adopted by the Monitoring Committee of the Regional Operational Program of the Mazowieckie Voivodeship for the years 2014-2020. The criterion will be elaborated by the Working Group of the members of the Monitoring Committee of the ROP WM 2014-2020 for the Priority Axis 1. During the work of the Group, the criterion of the other requirements will also be determined.

2.3.3. Players involved

Organisation	Role
Mazowieckie Voivodeship	The institution responsible for formulating the principles of a cooperation financing tools. MJWPU on its behalf announces the competition and selects projects for implementation. The institution responsible for financing the costs of promotional and information activities with its own budget, using its own communication channels.
Regional enterprises, regional R&D centres	Participation in the application for support from specially dedicated tools related to the financing of R&D services.
Cluster initiatives	Communication with cluster participants (entrepreneurs and R&D centres) in the process of identifying needs and opportunities; participation in the process of identifying the potential for cooperation and building tools for effective information exchange.

2.3.4. Timeframe

2019 - 2022:

- Preparing the competition principles, including selection criteria for projects, in consultation with chemical industry stakeholders: II quarter of 2019.
- Recruitment of projects: III-IV quarter of 2019
- Projects implementation: by 2020.
- Monitoring: minimum until 2023.

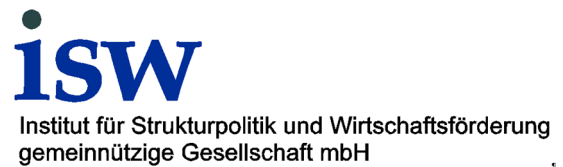
2.2.5. Costs

The value of the competition: EUR 1 million

2.2.6. Funding Sources

European Regional Development Fund RPO WM 2014-2020

Thanks to all project partners



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