



ACTTIVATE CALL FOR PROPOSAL

APPENDIX II: REGIONAL CHALLENGES



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Region Name	NUT ID	Specific challenges to be addressed through ACTTivAte
Andalucia	ES61	<p>To increase SMEs investment in modernization and improvement of production systems (machinery, patents , licenses, ...).</p> <p>To increase R&D and technologist human resources in SMEs</p> <p>To enhance and promote the involvement of SMEs in cluster and sectoral initiatives.</p> <p>Reinforce the internationalization and foreign trade of SMEs through the design and execution of instrument packages available for them.</p> <p>To enhance private investment culture in R&D within the SMEs (crowd-funding, business angels,...). Training programs for entrepreneurs to attract private funds.</p> <p>To improve and facilitate the access and security regarding the protection of intellectual property.</p>
Comunidad de Madrid	ES30	<p>To help SMEs invest in modernization and improvement of production systems (machinery, patents, licenses...)</p> <p>To enhance and promote the involvement of SMEs in cluster and sectoral initiatives.</p> <p>Reinforce the internationalization and foreign trade of SMEs through the design and execution of instrument packages available for them.</p> <p>To enhance private investment culture in R&D within the SMEs. Training programs for entrepreneurs to attract private funds.</p> <p>To reduce the shortage and not satisfactory functioning of the interface for the transfer of R&D results between universities, research centers and industry, especially for small companies.</p> <p>Promote and support to spin-offs and to new companies of technological base.</p> <p>Promulgate SMEs to orientate towards investigative activities and internationalization.</p> <p>Increase the number of powerful medium companies and companies manufacturing high technology.</p> <p>Reduce the presence of bureaucratic, organizational and cultural problems that impede an effective cooperation between companies and the public system of R&Ds.</p> <p>Increase the development of innovative products in high-tech industries.</p> <p>Improve participation of companies in European programs.</p> <p>Augment the number of patents and its exploitation.</p>
Portugal Norte	PT11	<p>Increase SMEs investment in developing flexible and adaptive production systems for rapid (re)configurations of local production capacities and capabilities, reducing the need of transports, thus having an impact on the environmental footprint, while, at the same time, allowing to respond dynamically, in the competitive global economy</p> <p>Enhance, develop and promote the necessary key enabling technologies in a collaborative environment with the involvement of SMEs in cluster and sectoral initiatives stimulating collaborative cross-sectoral and cross-border transactions</p> <p>Increase the efficiency of technical and financial support to pro-innovative initiatives in the region</p> <p>Increase private investment culture in R&D within the SMEs</p> <p>Training programs for entrepreneurs to attract private funds</p> <p>Improve and facilitate the access and security regarding the protection of</p>

		<p>intellectual property</p> <p>Promote the awareness of the European markets for "new players" and thus the exploitation of this new European based on cross-sectoral and cross-border transactions. Technology transfer between sectors opens the possibility for players in different sectors to interact and create new business opportunities reinforcing the internationalization and foreign trade markets.</p>
Ireland	IE	<p>Sustainable Food Production & Processing: research is needed to support food sectors highly relevant to Ireland. There has been substantial public investment in food research over many years. The availability of graduates, postgraduates and researchers with enhanced skillsets is also challenging to deliver on the vision of Irish government in agro-food area.</p> <p>Medical Devices: the current challenge is increasing R&D on device technology, including the integration of electronics and ICT into medical devices to strengthen and increase Ireland's activity in this sector.</p> <p>Processing Technologies & Novel Materials: in order to grow and sustain the Irish based manufacturing industry, Ireland must have the technological capacity and capabilities required for next generation manufacturing. As an example, advancements in Additive Manufacturing will require continual and radical innovation focused on processing technologies and the utilisation of new materials.</p> <p>Innovation in Services & Business Processes: there is a strong requirement for R&D of innovative Enterprise resource planning tools and platforms to enable both the manufacturing and service sectors to innovate their service offering, service delivery and business processes</p>
Mazowieckie	PL12	<p>Increased and strengthened cooperation in innovation and innovativeness development,</p> <p>Increased internationalization aiming at innovativeness of the region.</p> <p>Increased efficiency of support and financial support to pro-innovative initiatives in the region,</p> <p>Shaping and promoting proinnovative and proentrepreneurial attitudes fostering cooperation and creativity,</p> <p>Strengthening of the information society as the key driver of innovation.</p>
Slaskie	PL22	<p>SMEs from the Silesian Province encounter three basic development barriers: Market and environmental barriers related to problems caused by the overall economic conditions (economic fluctuations, changes in intensity of competition)</p> <p>Management problems due to the insufficient knowledge and skills of entrepreneurs and management staff, Financial barriers.</p> <p>The ACTTiVAtE project will certainly not fully resolve the above problems but may meet the challenges related to improving managers' skills (through planned conferences, networking, staff exchanges). Financial support and potential contacts with investors from the EU may also provide the region with an additional development stimulus.</p>
Podkarpackie	PL32	<p>The challenges the aviation sector in the region is facing are:</p> <p>Technology gap – in spite of the recent R&D work and significant investment, the Polish aviation industry continues to be based on mature products that are not at the highest level of technical development.</p> <p>Low level of cooperation between the industry and the science sector</p> <p>Insufficient adaptation of the R&D conducted by R&D Institutes to the real needs of the industry</p> <p>Insufficient number of highly specialised mid-level technical management staff and R&D workers due to mismatch between secondary technical school and HEI curricula and the needs of industry</p>

		<p>Small number of final products offered by Polish enterprises, which serve mostly as cooperating partners</p> <p>Insufficient interest in acquisition of new technology to manufacture final products; new technology is selected on an ad-hoc basis</p> <p>Limited capacity to attain ability to deliver competitive components (modules) to Polish or foreign “integration companies”</p> <p>With the exception of a few better prepared companies, an initial (learning) phase of seeking R&D, technology implementation and job creation funding from the EU’s Structural Funds is needed.</p> <p>Lack of a clear government strategy of aviation equipment procurement for the military and such government agencies as the border guards, fire-fighters, healthcare, pollution monitoring, the police, etc.</p>
<p>Eastern Netherlands (Gelderland and Overijssel)</p>	<p>NL2</p>	<p>Stimulate internationalization and foreign trade of SMEs through the design and execution of the instruments available for them, such as the involvement in cross-sectoral initiatives</p> <p>Open new markets and chains for SME.</p> <p>Adoption of innovations related to our regional flagship focus areas in a broader, European perspective.</p> <p>To enhance private investment culture within the SMEs (crowdfunding, business angels, ...) to stimulate R&D and business development.</p> <p>Development of smart production systems (precision farming) using Internet-of-Things solutions, robotics, advanced management systems, advanced materials and other technologies.</p> <p>Implementation of sensing technologies, e.g. early detection of diseases to reduce use of antibiotics</p> <p>Development of advanced technologies for food production; characterization of functional foods; biorefinery solutions for food and waste streams.</p> <p>Consolidate and promote interactions between AgFood, Health and Life Science research capabilities and a related variety of firms (equipment manufacturers, private research institutes, medical devices, eHealth, etc.).</p>
<p>Southern Netherlands (Noord-Brabant)</p>	<p>NL4</p>	<p>Stimulate internationalization and foreign trade of SMEs through the design and execution of the instruments available for them, such as the involvement in cross-sectoral initiatives</p> <p>Open new markets and chains for SME.</p> <p>Adoption of innovations related to our regional strategy in a broader, European perspective.</p>

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