Investing in R&D and the development of an innovative and smart economy: a "map" of achievements, lessons learnt and the remaining development needs

**SUMMARY** 

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#### Introduction

The map of investments in R&D and the development of innovative and smart economy: achievements, lessons learnt and the remaining development needs lay down the trends of research, development and innovation (RDI), growth and competitiveness of small and medium-sized enterprises (SMEs), and skills for smart specialization, transitional period of the industry and entrepreneurship of the Ministry of Economy and Innovation and the Ministry of Education, Science and Sport for the 2014-2020 EU financial period.

The aim of the document is to refine the logic behind state investments establishing ways to develop activities of RDI, SMEs and skills. The first part of the report discusses the challenges in the implementation of activities of RDI, SMEs and skills in order to identify the key development needs and the lessons learnt in the 2014-2020 (and earlier) programming periods, also focusing on discussing positive trends and achievements. The review refers to results of ex-ante evaluations and research, but the purpose of this document is not to provide an evaluation of all the measures financed, as they require separate evaluations.

The second part of the report discusses possible activities in the development of RDI, SMEs and the necessary skills, also identifying the necessary conditions for investments to have the expected effect.

The analysis was conducted taking into account the Letter No. (24.77E-03)-6K-1905422 2019 of the Ministry of Finance of the Republic of Lithuania of 18 October 2019 and minutes No. 47 of the Government of the Republic of Lithuania of 20 November 2019.

### 1. Trend and lessons learnt

# 1.1. RDI capacities and advanced technologies of the business sector

Challenges		Lessons learnt		Remaining gaps
Low ratio of business	> T	here is a lack of	>	To increase the interoperability of
investments in RDI to	ir	nterconnection of		measures, to coordinate and
GDP	n	neasures for investment		aggregate measures, to
	ir	ncentives that cover RDI		implement comprehensive RDI
	а	activities of different		programmes;
	е	enterprises at different	>	To encourage systematic creation
	S	tages;		and provision of innovation
	> T	The existing measures are		support and consulting services to
	n	not sufficient and do not		enterprises, initial work related to
	е	ensure the systematic		enterprises, their ideas and long-
	tı	ransformation of		term planning of enterprise
	е	enterprises to high-tech		development;
	а	and medium-high tech	>	To provide for separate measures
	е	enterprises.		or funding subsidies for regions.
Low level of foreign	> L	ithuania lags far behind	>	There is a lack of incentives for
direct investment (FDI)	0	other countries in the		investors operating in Lithuania to
in RDI	re	egion in terms of the		attract their divisions that carry out
	S	share of FDI accrued in the		R&D activities and create higher
	С	country compared to its		value-added products, aftercare
	G	GDP;		services;
	> T	The measures being	>	There is a lack of infrastructure for
	ir	mplemented allowed to		optimal functioning of free
	а	attract a significant number		economic zones in the zones and
	0	of FDI projects;		industrial, research and
	> T	he potential to promote		technology parks;
	b	prownfield regeneration	>	Conditions are not created for
	re	emains untapped;		financing "build to suit"
	> F	FDI incentives are not in		infrastructure projects, thus the
	d	lemand due to		potential to attract the so-called
	ir	nappropriate method of		brownfield investments remains
	tl	heir implementation, co-		untapped.
	fi	inancing and lack of		
	q	quality applications.		

Weak integration of	>	The existing cluster	>	To create a more comprehensive
SMEs in international		support schemes		cluster programme financing
value chains (IVCs) and		contribute more to the		different types of activities for
international initiatives		support of the existing		clusters of different maturity level
		clusters, but do not		linking them to cluster incubation /
		necessarily ensure the		support services;
		maturity of clusters and the	>	Financing can be allocated as a
		development of common		long-term subsidy for at least 5
		products in the value		years, if a cluster demonstrates
		chain;		good performance, thus facilitating
	<b>&gt;</b>	Lithuanian businesses and		the development of cluster
		research and higher		maturity, networking, export of
		education institutions (REI)		services and joint RDI activities;
		get insufficiently involved	>	To finance clusters operating in
		in international RDI		areas of priority to the state;
		projects;	>	To finance strategy-based
	<b>A</b>	Measures designated for		participation in IVCs.
		clusters have been		participation in 17 Cs.
		observed to be		
		fragmented, therefore the		
		aim to consolidate the		
		measures is relevant.		
Insufficient share of	>	The measure "Inostartas"		To encourage the creation and
innovative enterprises		does not meet the needs		development of innovative start-
•				·
among all enterprises		of the target group for		ups operating internationally and
		using it.		new or spin-off enterprises
			1	engaged in RDI activities;
			>	To implement measures for early
				stage start-ups, to promote
				maturation, incubation and
		T	,	acceleration programmes.
Low level of business		The "Inočekiai" measure	>	Systemic changes are needed in
cooperation with		for the promotion of		research and higher education
research institutions		outsourced research in the		institutions, including the creation
		traditional business sector		of incentives for researchers to
		is the most appropriate		work with business
		instrument for promoting		representatives, facilitation of

business	and	research
cooperatio	n;	

- A few SMEs only are able to implement large RDI projects with research and higher education institutions;
- Cooperation between business and science has been encumbered by vague interconnection between the measures implemented by the Ministry of Economy and Innovation (EIMIN) and the Ministry of Education, Science and Sport (ŠMSM).
- conditions for researchers to provide experimental development and business consulting services, especially for young researchers.
- Cooperation between research and business would be enhanced by better management, assurance of the provision of services to research and higher education institutions, and the reduction of administrative burden inside research and higher education institutions and the share of projects allocated therefor.

# Insufficiently innovative public sector organizations

- Measures promoting precommercial procurement can create significant added value;
- Despite some positive changes, innovation indicators of the Lithuanian public sector still remain poor, the quality of public services is insufficient, and public sector organizations still lack incentives to create innovations.
- To encourage the progress of the public sector for it to fund targeted measures focused on stimulating the demand for innovation;
- To implement measures for providing consultations and legal assistance to organizations willing to engage in pre-commercial or innovative public procurement;
- ➤ To create a tool for the procurement of innovative products (innovative public procurement), which would allow public sector organizations to try a way of procurement of RDI results, which would be similar, but would better meet their needs:
- To implement targeted RDI programmes by expanding the necessary research carried out by

	the	Research Council of Lithuania,
		cating more funding to them
		allowing not only research
		higher education institutions,
		also businesses to participate
		nem.
There is no clear,		create a clear and uniform
uniform and qualified	·	ovation support system, which
innovation support	innovation support wou	ıld allow to consistently
system	services, which would be deve	elop the ability of enterprises
	financed from the national to r	master innovations Lithuania-
	budget funds; wide	э;
	➤ A consistent approach and ➤ Inno	ovation support and
	harmonized measures for cons	sultation services should be
	improving the ability of prov	vided on a continuous basis,
	businesses to master i.e.	they should be planned as
	innovation is missing; norr	mal public sector services
	> There is no common, rath	er than as an implementation
	integrated and qualified of sl	hort-term projects.
	ecosystem created, which > Bus	iness consultations should be
	would provide innovation spec	cialized and as personalized
	support and consultation as p	oossible.
	services to businesses;	
	> The current projects are	
	poorly interconnected, their	
	activities are fragmented,	
	while the services of	
	facilitation of the innovation	
	process, support and	
	consultations provided to	
	enterprises make up a	
	small share of all the	
	necessary support	
	services;	
	<ul><li>An excessive attention has</li></ul>	
	been placed on promotion	
	lacking consultations.	

#### 1.2. Researchers

Challenges	Lessons learnt	Remaining gaps		
Few researchers in business	<ul> <li>Incentives for business investment in RDI have led to an increase in the number of researchers in business;</li> <li>Direct incentives for businesses to employ researchers have not yet paid off.</li> </ul>	<ul> <li>To improve the quality of doctoral studies, to help doctoral students to acquire competences necessary for researcher career in business;</li> <li>To improve incentive mechanisms for businesses to hire researchers.</li> </ul>		
There are too few doctoral graduates	<ul> <li>Additional funding from European Structural and Investment Funds for doctoral study places did not affect a change in the number of doctoral students and graduates;</li> <li>Only about a half of doctoral students graduate;</li> <li>Few graduates in certain areas (such as ICT) has become a major impediment to RDI development and economic growth.</li> </ul>	<ul> <li>To improve the quality of doctoral studies;</li> <li>To provide for mechanisms to ensure that doctoral students earn sufficient income for making a living from activities at research and higher education institutions directly related to their doctoral studies.</li> </ul>		
Low appeal of the Lithuanian RDI system to researchers from abroad	<ul> <li>So far, the measures carried out did not allow attracting the critical mass of researchers;</li> <li>Costs of attracting one experienced researcher are very high.</li> </ul>	<ul> <li>To focus investments in order to attract a critical mass of researchers in priority areas;</li> <li>To strategically exploit instruments of the EU Framework Programmes in order to increase the awareness / prestige of the measures being implemented in Lithuania and to reduce the</li> </ul>		

		costs of attracting researchers.
The appeal of researcher	Low salary paid (especially	➤ To increase long-term
career remains low -	to young researchers) and	financing of research and
without addressing this	high salary fluctuations	higher education institutions
issue, investments will not	have an adverse impact on	from the national budget;
have the expected effect in	the appeal (lack of appeal)	➤ Tender-based RDI funding
many other areas	of the career in particular.	from European Structural and
		Investment Funds shall be
		spread over time and be
		based on a call calendar
		known in advance.

# 1.3. Research and development infrastructure

Challenges	Lessons learnt	Remaining gaps
Growth in the scope and	> Previous investments are too	> To participate in
quality of research	"scattered". Not all the developed R&D	European R&D
requires modern	infrastructures have been put in use	infrastructures based
national R&D	due to the lack of competences of	on the analysis of
infrastructures and	researchers and RDI management.	long-term needs,
access to European	Most infrastructures are likely to be	opportunities and
infrastructures	financially non-sustainable, i.e. they do	benefits.
	not earn sufficient income to replace	
	worn-out equipment or purchase new	
	one that meets the changing needs and	
	technological capabilities.	
Better management of	> Many infrastructures have been	> Before planning
R&D infrastructure	developed on a project basis with a	further investments
development	perspective of financing for a few years;	in infrastructure,
	there is a lack of a long-term	improving legal
	infrastructure development concept and	regulation and the
	its implementation mechanisms.	strategic planning
	> The impact that the already created	process is
	infrastructures have on R&D	necessary.
	development and the needs that remain	
	unmet are not clear.	

# 1.4. Creating high-level knowledge

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	Ob all an man	1 11	Danieliu i an anna
	Challenges	Lessons learnt	Remaining gaps
	Onlandinges	EC330113 ICUITIC	ricinaling gaps

Creating high-level	> A signific	cant breakthrou	jh 📝	> [	Foreign experts recommend:
knowledge	has not	been achieved	in	> -	To strengthen internationalization: a)
	the past	decade, desp	te	t	to encourage researchers to go for
	changes	in the financi	ng	i	nternships abroad; b) to post
	system	and eve	r-	ŗ	publications in prestigious
	increasin	ng requirements.	Α	ŗ	periodicals; c) to strengthen the
	more det	tailed evaluation	is	á	abilities to prepare applications for
	needed	to identify the	ne	i	nternational R&D programmes.
	reasons	therefor.	7	> -	To improve the quality of doctoral
				5	studies.
			>	-	To raise salaries for researchers.
To create	> Even tho	ough the scope	of >	> -	To increase the scope of R&D
conditions for	funding	for R&D activiti	es	f	funding from the national budget.
creating high-level	carried	out by resear	h 🕽	> -	To avoid fluctuations in R&D funding
knowledge	and h	igher education	n	5	scopes. To compile a multi-annual
	institution	ns has increase	d,	ŗ	plan for tender-based R&D funding
	it still re	mains one of the	ne	á	and to comply therewith in
	lowest in	the EU.		ŗ	periodically announcing calls for
	Depende	ence on Europe	ın	á	applications.
	Structura	al and Investme	nt 🗦	-	Γο avoid fragmentation, i. e.
	Funds	has led	to	5	separate calls for specific activities,
	significar	nt fluctuations	in	f	funding small-scale, short-term
	scopes	of funding, whi	h	ķ	projects.
	has had	an adverse impa	ct		
	on the i	implementation	of		
	ambitious	s long-term R8	D		
	activities				

# 1.5. Knowledge transfer, commercialization and entrepreneurship

Challenges	Lessons learnt Remaining gaps
Strengthening	➤ Even though there are many ➤ To reduce fragmentation of
knowledge transfer	organizations (or structural measures and to strengthen
and	divisions of research and higher institutional capacity of
commercialization	education institutions), their intermediaries to perform their
capacity	institutional capacity to mediate functions. This requires: (a)
	between research and business, granting funding directly to

to provide knowledge transfer and commercialization services has not been developed; for many years, these organizations have not received significant funding to perform their direct functions. The funding and support system is too fragmented.

intermediaries; (b) linking investments to ambitious return indicators and financial sustainability of intermediaries (i.e. the ability to sustain themselves and to generate financial returns for their stakeholders) in the long term; (c) provide for long-term, tier funding, which would increase steadily if the goals set were the previous achieved in to encourage period: (d) intermediaries to integrate into international ecosystems (such as the programme of the European Institute of Technology and Innovation).

#### 1.6. International cooperation

1.0. Internation	1.6. International cooperation				
Challenges	Lessons learnt Remaining gaps				
Participation in	➤ The scale of participation in ➤ To integrate goals for promoting				
international	international programmes internationalization in all				
R&D	remains low. The underlying intervention groups, i.e. to				
programmes	reasons have not changed encourage:				
	(underdeveloped internal • attraction of researchers from				
	capacity of research and higher abroad and international				
	education institutions to provide internships of Lithuanian				
	comprehensive support to researchers;				
	researchers; limited number of   • integration into European R&D				
	internationally competitive infrastructures;				
	research teams; lack of • creation of the highest-level				
	incentives to participate in knowledge and participation in				
	international programs); at international networks of				
	national level researchers;				
	involvement in international				
	networks for knowledge transfer				

	and	commerc	ialization,
	entreprene	urship	skills
	developme	nt.	

# 1.7. Strengthening the growth and competitiveness of SMEs

Challenges	Lessons learnt	Remaining gaps	
To maintain	> The overall level of	> To focus investments on enterprises	
growth of the	entrepreneurship in	with the highest growth potential in	
entrepreneurship	Lithuania is among the	Lithuanian and international markets;	
level	highest in Europe;	➤ To focus measures on promoting	
	New businesses and	entrepreneurship in regions;	
	small enterprises face	> To finance not only the creation of new	
	market failures the most	incubation and acceleration	
	(including access to	programmes, but also to encourage	
	capital, lack of human	start-ups to participate in prestigious	
	resources, lack of	international acceleration programmes	
	competences, information	by reimbursing a part of costs of	
	asymmetries, etc.);	participation in them;	
	> Low level of	➤ To improve the ecosystem favourable	
	entrepreneurship in	for private venture capital funds,	
	regions;	especially through the implementation	
	> Insufficient measures for	of tax incentives;	
	early-stage start-ups;	> A low-value measure (up to EUR 40	
	Venture capital funds can	000) is necessary at the beginning of	
	invest the major share of	enterprise's activities (establishment,	
	the allocated EU funds in	development of an enterprise,	
	Lithuania only;	purchase of work equipment,	
	"Soft" measures for	compensation of costs of rent of	
	promoting	premises).	
	entrepreneurship		
	ecosystem are important		
	for the creation of the		
	start-up ecosystem.		
Low level of	Measures have a limited	> To finance purchasing knowledge from	
internationalization	direct contribution to	abroad (for example, by hiring	
of SMEs	export growth in the short	professionals), financing trainings	
	run due to a small scale	abroad or promoting employee	

- of the measures and the fact that the country's exports have been affected by much stronger external factors and cyclical fluctuations;
- Shortage of specialists that have knowledge of sales and marketing in Western markets, and certain specific competences;
- Fragmentation of EU fund measures for clusters.

- exchanges with foreign companies, technology bridge measures;
- Combining measures for clusters would be expedient, then focusing them on increasing the competitiveness of specific clusters or groups of clusters and the development of economic activities and the process of their aggregation;
- To promote a long-term strategic attitude of cluster members, to change the attitude of enterprises to networking and to promote a culture of cooperation; to mature skills of cluster coordinators; to utilize the knowledge and infrastructure of cluster enterprises.

# Low productivity levels of SMEs

- The competitiveness of regions with weaker absorption capacities has been lower compared to that of major cities;
- For low and medium-low-tech companies to remain competitive, it is important to invest in technology upgrades, introduction of digital technologies, improvement of technological readiness of enterprises, higher value-added products, increase of productivity and digitalisation;
- Digital maturity of enterprises is still relatively low, and the need for digitization will

- Enterprises still need to: raise digitization and technological competences, carry out small projects in e-business, especially for enterprises providing services;
- ➤ To differentiate financing under the measure "Industrial Digitization LT" for smaller and larger projects of production companies seeking to apply advanced e-commercial solutions that are relevant for the implementation of smart specialization.

	increase in the future.	
Low level of SME	> Lack of political	> To educate enterprises on eco-
investment in eco-	instruments to promote	innovation and its benefits, to create
innovation and	eco-innovation;	other incentives, for example: to
other resource-	> Poor perception of the	develop an ecosystem for the
efficient	importance of eco-	collection and recycling of industrial
technologies	innovation of public	waste, and reuse of resources; tax
	authorities and SMEs;	incentives and financial instruments
	> Investments in eco-	encouraging the use of secondary
	technologies are not	resources and eco-innovation.
	necessary for most SMEs	
	in the provision of	
	services or production;	
	> The measure "Eco-	
	innovations LT +" is	
	basically the only	
	incentive to implement	
	technological eco-	
	innovation.	

# 1.8. Skills for smart specialization, transitional period of the industry and entrepreneurship

Challenges	Lessons learnt	Remaining gaps
Mismatch between	Too few engineers a	and > To improve the system of monitoring
supply and	technology specialis	and forecasting human resources;
demand of	have been prepared	d;
specialists and	Specialist competer	nces allow ensuring the development of
their required	do not fully meet the	human resources in niche areas
competences	needs of the labour	relevant to investors;
	market;	To implement measures and
	Industry-related high	ner incentives encouraging students and
	education and voca	tional adults to choose higher and vocational
	training programme	s are education programmes in areas
	not attractive and do	o not relevant to the state;
	meet market needs	To initiate the improvement of the
	> There are no mobile	programmes offered;
	vocational information	on For initiate the development and
	and guidance service	implementation of interdisciplinary

	promoting engineering	study programmes;
	and technology	To create a tool for providing
	professions for young	additional funding for on-the-job
	people in regions.	training schemes;
		> To promote:
		<ul><li>the development of on-the-job training</li></ul>
		schemes;
		vocational information and guidance
		services, promoting professions in
		engineering and technology for young
		people in regions.
Inefficient lifelong	Changing nature of jobs	<ul> <li>To improve voucher-based measures</li> </ul>
learning system	with the increasing	in order to create conditions for
3 ,	influence of the Industry	improving qualifications of working
	4.0 and changing job	people;
	requirements;	➤ To implement measures to finance
	Increasing needs for	lifelong learning (to ensure sustainable
	retraining or acquisition of	financing of continuous education
	new qualifications;	programmes);
	Difficulties in attracting	To implement the mechanism for
	professionals to teach	sustainable financing of trainings for
	(give lectures);	acquiring competences necessary to
	Insufficiently effective	start doing jobs suitable for the
	mechanism for	Industry 4.0;
	recognition of	To create a system which would
	competences and	encourage professional practitioners
	qualification system.	to share their knowledge and skills in
		the field working as vocational
		teachers (lecturers) part-time;
		, , , , , , , , , , , , , , , , , , , ,
		➤ To support the installation and
		improvement of mastery qualification
		subsystems in order to develop the
		assessment and recognition of the
		competences acquired in work
		activities.
Need for qualified	Difficulties in attracting	➤ To finance measures for promoting
	3	

specialists from	qualified specialists from		and supporting measures aimed at
abroad	abroad to fill job positions		attracting talented specialists from
abioad	in the field of technology.		abroad;
	in the held of teermology.	<b>&gt;</b>	To finance business support and
			promotion measures for foreign
			students who can work in local
			industrial companies, to attract and
			employ successful graduates;
		>	To finance public initiatives for
			identifying the need for talents and
			their shortage, and developing
			mechanisms that would allow filling up
			this shortage;
		>	To create an ecosystem favourable to
			specialists (incentives, implementation
			of measures for integration of
			specialists, for example: Lithuanian
			language courses, adaptation of the
			health system for foreigners and
			publication of general information
			about getting settled in the country
			and migration procedures).
Fragmented and	Insufficient access to	>	To finance support measures for the
underdeveloped	higher education		use of infrastructure in research
innovation training	infrastructure needed to		clusters and open access hubs (e.g.
and innovation	meet challenges of		qualification improvement and training
consulting system	Industry 4.0;		purposes);
	There is no training	>	To create a network providing services
	system for innovators.		of Digital Innovation Hubs (DIH) and to
	, and the second		promote the training of specialists and
			researchers working in them in order
			to acquire the knowledge and
			competences necessary for consulting
			businesses and providing innovation
			support services internationally,
			through the European Network of
			Digital Innovation Hubs;
		1	
			To finance a support measure for the

				development and support of a publicly
				available interactive platform or a
				website with remote control and
				technology modelling.
Lack of	>	A lack of skills, knowledge	>	To finance mobile services that
competences of		and traditions on how to		introduce STEAM activities to
student creativity		promote the development		students;
and creation of		and dissemination of	>	To finance professional activities for
innovations		technology, how to		students of general education
		interest students in		institutions aimed at raising their
		technology studies and		interest in professions in engineering
		vocational training, how to		and technology industry and to attract
		plan and pool resources,		them to studies that train specialists in
		and find a place in		these fields;
		technological value	>	To develop initiatives for establishing
		chains;		and supporting training companies
	>	A few of graduates from		and simulation businesses.
		general education		
		institutions, who choose		
		to continue studying		
		(learning) technologies.		

#### 2. Goals and groups of activities in 2021 - 2027

# 2.1. Task – 1.1. To strengthen research and innovation capacities and to install advanced technologies

#### Activities being implemented

- Creating conditions for conducting high-level R&D in research and higher education institutions, promoting inter-institutional, inter-sectoral and international cooperation in the implementation of R&D activities;
- Creating conditions for participating in international R&D programmes, networks and infrastructures by strengthening the capacities of research and higher education institutions to participate in R&D programmes and to manage international consortia;
- Strengthening the knowledge transfer and commercialization system by strengthening research and higher education institutions capacities to manage intellectual property and creating conditions for financial sustainability of research and higher education institutions;
- Start-up acceleration and development activities: development of the product idea (including idea hackatons), preparation of a business model and strategy, investment in tangible and intangible assets, working capital, sales and marketing activities, consulting, mentoring and soft landing, ensuring access to seed capital;
- Activities promoting innovation supply: services of development of new high valueadded products ranging from a new product idea concept to the creation of a product prototype, development of intellectual property, protection and licensing, early pilot production of newly developed products and their preparation for the market, with a special focus on commercialization and specialized consulting activities (Central and Western Lithuania);
- Activities for promoting innovation demand: pre-commercial procurement and innovative public procurement;
- Activities for promoting international networking and strengthening high value-addedbased mature clusters that cover the creation of joint strategies and products, their participation in international programmes, increasing access to foreign markets, involvement in RDI clusters and international value chains, including accessing EU key strategic value chains;
- Activities for attracting high-value-added FDI aimed at promoting cooperation and technology transfer between large companies and SMEs in the field of RDI.
- Support of financing models in line with needs of companies engaged in R&D that ensure the availability of financial resources (the capital region).

#### Main target groups

Large enterprises, micro-, small- and medium-sized enterprises, research and higher education institutions, scientists and other researchers, other staff of research and higher education institutions, public sector entities

#### Specific target areas, including the planned use of territorial measures

All of Lithuania

#### Cross-regional and cross-border actions

The plan is to create possibilities for conducting them depending on need

#### Planned use of financial instruments

The plan is to use financial instruments based on ex-ante evaluation results

#### 2.2. Task – 1.3. To strengthen the growth and competitiveness of SMEs

#### Activities being implemented

In order to increase the growth in the productivity of SMEs and to reduce the gap compared to the EU, to encourage the move of SMEs to a circular economy increasing resource productivity and reducing the adverse effect of economic development on the environment, to create incentives for changes in the country's export structure increasing the share of higher value-added SMEs, and to improve conditions for the establishment and growth of SMEs in the country's regions, financing will be provided for the following activities:

- Implementation of innovative technologies in the areas relevant to Industry 4.0 and other high-impact technology, creating conditions for the development of mass production of innovative products or the provision of innovative services (Central and Western Lithuania);
- Investments in non-technological (brand, e-commerce solution process, design, business model, technology and digitization audit, etc.) innovations (Central and Western Lithuania);
- Investments in low-emission technologies (eco-innovation), production of sustainable "circular" products and provision of services in pursuit of industrial transformation in observance of the principles of circular economy and neutral impact on the environment (Central and Western Lithuania);
- Activities of internationalization of innovative activities of SMEs and identification of new export markets, including market research, marketing activities, development of relations

- with strategic partners, presentation of opportunities abroad, certification of innovative products for SMEs (Central and Western Lithuania);
- Support of innovative financing models that meet the needs of SMEs and ensure access to financial resources (the capital region);
- Availability of financial resources for business establishment and development, creation and development of pre-acceleration programmes, acceleration activities for start-up SMEs in regions (Central and Western Lithuania).

#### Main target groups

Micro, small and medium-sized enterprises

#### Specific target areas, including the planned use of territorial measures

All of Lithuania

#### Cross-regional and cross-border actions

The plan is to create possibilities for conducting them depending on need

#### Planned use of financial instruments

The plan is to use financial instruments based on ex-ante evaluation results

# 2.3. Task – 1.4. To develop the skills needed for advanced specialization, transitional period of the industry and entrepreneurship

#### Activities being implemented

- Development of competences necessary for SMEs identified in the course of the entrepreneurial search process;
- Strengthening the capacity of SMEs to implement technologies and develop innovations by attracting researchers, technology specialists and engineers;
- Promoting cooperation between education, research and business through the implementation of an entrepreneurial search process in order to apply scientific knowledge in the processes of product development and market introduction;
- Strengthening the capacity of researchers by increasing the attractiveness of researcher careers and promoting the circulation of minds;
- Enhancing entrepreneurial skills in research and higher education institutions by implementing the one-stop shop principle and creating preconditions for financial sustainability of activities.

#### Main target groups

Micro, small and medium-sized enterprises, research and higher education institutions (including research and technology organizations (RTOs)), institutions involved in the entrepreneurial search process.

#### Specific target areas, including the planned use of territorial measures

All of Lithuania

#### Cross-regional and cross-border actions

The plan is to create possibilities for conducting them depending on need

#### Planned use of financial instruments

Using financial instruments is not planned, however, they may be used if market conditions change