

APPROVED by  
Order No \_\_\_\_\_ of the Minister of  
Education and Science and the  
Minister of Economy of the  
Republic of Lithuania of  
\_\_\_\_\_ 2014

**ACTION PLAN OF THE PRIORITY “INFORMATION AND COMMUNICATION TECHNOLOGY INFRASTRUCTURE, CLOUD COMPUTING SOLUTIONS AND SERVICES” OF THE PRIORITY AREA OF RESEARCH AND EXPERIMENTAL (SOCIO-CULTURAL) DEVELOPMENT AND INNOVATION (SMART SPECIALIZATION) “TRANSPORT, LOGISTICS AND INFORMATION AND COMMUNICATION TECHNOLOGIES”**

**CHAPTER I  
GENERAL PROVISIONS**

1. The action plan of the priority “Information and Communication Technology Infrastructure, Cloud Computing Solutions and Services” of the priority area of research and experimental (socio-cultural) development and innovation (smart specialization) (hereinafter - the Priority R&D Area) “Transport, Logistics and Information and Communication Technologies” (hereinafter - the Action Plan) was drawn up in the implementation of the *Implementation Programme of Priority Areas of Research and Experimental (Socio-cultural) Development and Innovation (Smart Specialization) and their Priorities* approved by Order No. 411 of the Government of the Republic of Lithuania of 30 April 2014 *On the Approval of the Programme for the Implementation of Priority Areas of Research and Experimental (Socio-Cultural) Development and Innovation (Smart Specialization) and their Priorities* (hereinafter - the Programme).

2. The Action Plan was drawn up for establishing the provisions of the implementation of the Priority “Information and Communication Technology Infrastructure, Cloud Computing Solutions and Services” (hereinafter - the Priority) of the Priority R&D Area “Transport, Logistics and Information and Communication Technologies”.

3. The Action Plan shall be implemented in 2015–2020.

4. Concepts used in the Action Plan shall be understood in this legal act as follows:

4.1. **Cloud computing** shall mean technologies for the provision of remote access information services via the Internet.

4.2. **Data virtualization** shall mean a data management method that allows an application to retrieve and use data, regardless of its size and physical storage location.

4.3. **Information System** shall mean a computerized system for creating, processing and dissemination of information to consumers on the resources of the organization.

4.4 **Legacy Information System** shall mean a previously created information system performing the important tasks in common information technology infrastructure; however, hardly compatible with modern technologies.

5. Other concepts used in the Action Plan shall correspond to the concepts used in the Programme.

**CHAPTER II  
DESCRIPTION OF THE CURRENT SITUATION**

6. Information and communication technologies (ICT) are the main engine of globalization and technological progress, and the basis for the development of a knowledge society. Increasing share

of GNP of developed countries consists of information products. This sector is related to the management and processing technologies of digital information (data) encompassing hardware, software and digital services.

The viability and expediency of the development of information technology-related products in Lithuania is determined by such factors as the receptivity of information technologies for intellectual activities, traditions and experience in manufacturing of computer hardware and software, highly qualified information technology professionals prepared in Lithuania, and infrastructure of information and communication technologies (hereinafter - ICT). Over the last decade, Lithuania focused on ICT, the development of digital infrastructure, and introduction of the latest solutions in the public and private sectors. The country's information technology professionals have earned a good reputation both in local and international markets and helped to attract to Lithuania a number of information technology branches of famous international companies.

7. Based on data of 2012, about 80 companies are implementing information technology solutions for the ICT infrastructure and cloud computing. About 190 companies provided data processing, web servers and other information related services. There were employed about two thousand employees, and the added value amounted to about EUR 47 million. About 1.2 thousand companies employing approximately 10 thousand employees with about EUR 224 million of added value provided computer programming, consultancy and related services.

8. In 2011, Lithuanian exports of information services amounted to EUR 0.8 million. In 2011, Lithuanian computer services exports amounted to EUR 70 million.

9. In 2007-2013, the volume of business investment in research and experimental (socio-cultural) development (hereinafter - R & D) projects amounted to about EUR 36.5 million.

10. Lithuanian scientific and educational institutions and business maintain contacts by participating in the activities of the Information and Communications Technology Cluster, Smart IT Cluster, Užupis Creative Cluster.

11. The potential of Lithuanian scientific and educational institutions in the fields of electricity and electronics, computer engineering and informatics is relatively high; the research has achieved significant progress. High international level scientists are concentrated in science and education institutions engaged in R & D activities in the most relevant directions for the Priority (informatics and information technology). The volume of training of specialists in these fields is increasing every year.

By implementing the development programmes of Integrated Science, Study and Business Centres (Valleys), research centres are being developed in science and research institutions where R & D infrastructure can be used for activities that are relevant for the implementation of the Priority. Such research centres as the Information Technology Open Access Centre of Vilnius University created based on the scientific potential of ICT with the largest and most modern supercomputer in the country, Visoriai Information Technology Park with modern incubation facilities of companies working in the field of ICT should be mentioned. It is also worth mentioning the Science and Technology Centre, and Technological Business Incubator of Kaunas University of Technology, which started operating in Kaunas in 2014, in which, among other R & D centres, the Information Technology Research Centre mobilising the researchers of this field and other professionals is operating.

Intentions in the near future to move the Faculty of Mathematics and Informatics of Vilnius University to Vilnius Visoriai area in which a critical mass of the scientific and business potential operating in the field of ICT is focused cannot be eliminated as in this way the conditions for close and efficient interaction between science, education and business addressing issues relevant for the implementation of the Priority will be provided.

The new EU Framework Programme for Research and Innovation *Horizon 2020* provides for a task of Excellent Science “Future and Emerging Technologies”, a task of Industrial Leadership “Introduction of Innovations in Small and Medium-Sized Enterprises” and public task „Innovative Society” in the solution whereof active involvement of Lithuanian researchers and other specialists is expected.

The development of information and communication technology infrastructure using cloud computing solutions and services can have a significant impact on the economy and international image because it leads to an active interest of foreign companies to invest in information technology and service centres in Lithuania. Although these processes are systematically going on for a decade, science and innovation competences have not been previously deployed as a basis for the more efficient development of ICT infrastructure and services. It is expected that the successful implementation of the Priority will fill this gap.

12. In order to implement the Priority, the R & D resources should be consolidated and concentrated in such areas of R & D, as informatics and computer engineering, information systems engineering, business process modelling, innovative and large-scale computing, virtualization and cloud computing. Lithuania, which seeks to promote the country's economic transformation and competitiveness by using its available resources, should enhance business capabilities, contribute to the creation and implementation of the already created technologies in such economic areas as information services, information technology, research of ICT security methods, communication technology and computer services. The main requirements of these sectors are highly qualified specialists of the required profile.

### **CHAPTER III**

#### **CONFORMITY OF THE ACTION PLAN TO THE PROGRAMME AND OTHER STRATEGIC LEGISLATION**

13. The Action Plan contributes to the implementation of the strategic goal and goals provided for in subparagraphs 19.1 and 19.2 of the Programme, as well as to the implementation of the task established in subparagraph 20.5, namely: flexible and effective response to such developments as the growth in passenger and freight flows, volume of cargo handling, increase in the urban population density leading to the uneven load on road infrastructure and the growth of traffic congestion, reduction of environmental pollution and greenhouse gas emissions, promotion of innovation in transport and logistics (in order to respond to the increase in competition and reduction in prices due to third countries), and provision of high quality, safe, clean and fast transportation services to consumers.

14. Actions of the Action Plan:

14.1. to create and introduce new technologies, products, processes and methods into the market;

14.2. to promote the creation of knowledge-intensive business, and the development of enterprises with huge potential;

14.3. to encourage clusterization, integration into international value creation networks and investments into RDI and innovations;

14.4. to promote cooperation between research and business, transmission of knowledge and technologies with the aim to commercialize R&D results;

14.5. to enhance the potential of scientific and education institutions and their abilities in the creation and commercialization of knowledge, also, to prepare specialists.

15. In the implementation of the Action Plan, the intension is to contribute to changes, which are expected in the implementation of the National Progress Strategy *Lithuania 2030* approved by Resolution No. XI-2015 of the Seimas of the Republic of Lithuania *On the Approval of the National Progress Strategy Lithuania 2030* of 15 May 2012. Results achieved during the implementation of the Priority will mostly contribute to the implementation of the smart economy creation vision, i.e. to the creation of the most modern ICT and digital infrastructure, development of a vision of solidarity and the learning society, and the effective application of ICT. High impact on the implementation of the Lithuanian Information Society Development Programme 2014–2020 “Digital Agenda of Lithuania” approved by Resolution No. 244 of the Government of the Republic of Lithuania of 12 March 2014 *On the Approval of the Lithuanian Information Society Development Programme 2014–2020 “Digital Agenda of Lithuania”* with the aim to improve the quality of life for the Lithuanian

residents, as well as to increase the business productivity and use of the Internet through the opportunities provided by ICT, is also expected.

#### **CHAPTER IV PRIORITY IMPLEMENTATION STAGES**

16. Measures used for the implementation of the Priority have been selected in accordance with the Innovation Development Programme of Lithuania approved by Resolution No. 1281 of the Government of the Republic of Lithuania of 18 December 2013, the National Programme for the Development of Studies, Research and Experimental (Socio-Cultural) Development for 2013 - 2020 approved by Resolution No. 1494 of the Government of the Republic of Lithuania of 5 December 2012 and its implementing legislation.

17. A set of education, and RDI policy measures necessary for the implementation of the Priority has been determined in light of the report presented by the international working group of independent experts of 21 February 2014 *Priority Implementation Signposts*. Pursuant to this report, the following Priority implementation stages can be distinguished:

17.1. the stage of generation of scientific potential critical mass includes activities related to the creation of appropriate environment for the search of new ideas and solutions, development of technologies and prototypes, and the readiness to carry out these activities;

17.2. the search for new ideas and solutions include fundamental scientific research of general and targeted nature necessary for the implementation of the Priority;

17.3. the stage of the creation of technologies and their prototypes includes industrial scientific research and experimental development activities necessary for the implementation of the Priority;

17.4. the stage of introduction into the market includes activities related to introducing new products into the market;

17.5. the stage of generating critical mass of business potential includes activities related to the transmission and dissemination of knowledge and innovation, and the use thereof at large.

18. Actions established in subparagraphs 14.1–14.5 are implemented by executing the measures set forth in Annex 1 to the Action Plan.

19. Annex 2 to the Action Plan provides for a set of education and RDI policy measures relevant in each Priority implementation stage.

20. Annex 1 to the Action Plan establishes actions and measures implemented given the set of education and RDI policy measures presented in Annex 2.

#### **CHAPTER V THEMATIC SPECIFICS OF THE PRIORITY**

21. The implementation of the Action Plan is aimed at:

21.1. research and development of methods and techniques of activity processes and rules modelling, and integration to ensure:

21.1.1. efficient simulation and management of business processes and the public sector;

21.1.2. management of e-business and e-government service quality;

21.1.3. effective document and process management;

21.1.4. effective customer relationship management;

21.2. research and development of technologies for the modernization of information systems and automation of change management, and transfer to the electronic environment focused on legacy information systems;

21.3. research and development of technologies for the automation and optimization of business and public sector management processes based on the adaptation of innovative computing to the needs of business and public sector management;

21.4. research and development of data virtualization, cloud computing, and digital media technologies focused on modelling, optimization, and automation of operational (business) processes and virtual infrastructure, high availability of e-government and public sector data and e-services;

21.5. research and development of technologies for e-services security and cloud computing to ensure cyber security for state institutions, e-government information resources and e-services, public sector and personal e-services, prevention of cyber-attacks and crimes, capture and research of electronic tracks.

22. Successful creation and implementation of activities mentioned in subparagraphs 21.1–21.5 is inseparable from RDI activities carried out by public and private institutions.

23. Important role in the implementation of the Priority is played by joint initiatives for educational, research and experimental (socio-cultural) development and innovation initiatives (hereinafter - joint initiatives) on the basis whereof problems relevant to sectors of economy are planned to be solved by conducting R&D activities on topics relevant to the sectors of economy and hoping for the inclusion of private sector entities in the realization of R&D activity results. The implementation of the joint initiatives considering the activities provided for in subparagraphs 21.1-21.4 of the Action Plan and the actions set out in subparagraphs 14.1-14.5 of the Action Plan, R & D activities are carried out in order:

23.1. to analyse methodologies and tools for modelling, simulation, integration and management of processes and rules;

23.2. to analyse methods and tools for information systems modernization and change management automation, including management methods in information technology;

23.3. to analyse methods and tools for simulation, optimization and automation of business and public sector management processes;

23.4. to analyse innovative methods and tools for information technology as a service, high-volume data processing and computing, digital media technology, data virtualization and visualization in the clouds;

23.5. to investigate methods and tools for e-services and cloud computing information resources, personal security, identity management and privacy assurance, cyber-crime control and prevention, trace capture and analysis;

23.6. to develop methodologies for modelling, simulation and integration of business processes and rules;

23.7. to develop methodologies for the management of information systems changes and automation modernization on the basis of methods and examples of best practices in information technology management;

23.8. to develop methodologies for modelling, simulation and integration of business and public sectors;

23.9. to develop innovative methodologies for the introduction of information technology as a service, high-volume data processing, innovative computing, digital media technology, and data virtualization and visualization;

23.10. to prepare prototypes for e-services and cloud computing information resources, personal security and identity management, cyber-crime control, prevention and research model measures;

23.11. to develop technologies for modelling and integration of business processes and rules;

23.12. to develop technologies for information systems automation modernization;

23.13. to develop technologies for simulation, optimization and automation of business processes;

23.14. to develop technologies for information technology as a service, large-scale data management, innovative computing, digital media, data visualization and virtualization in the cloud computing;

23.15. to develop technologies for the management of information resources of e-services and cloud computing, personal security and identity, prevention and investigation of cybercrimes.

24. The implementation of the joint initiatives aims that activities provided for in subparagraphs 23.1-23.15 of the Action Plan enable to:

24.1. introduce into the market and disseminate solutions for modelling, simulation, integration and management of business processes and rules;

24.2. introduce into the market solutions for the preparation of information systems modernization, change management automation, and methodology;

24.3. introduce into the market solutions for modelling, simulation, optimisation and automation of business and public sectors management processes;

24.4. introduce into the market solutions for modelling, simulation, optimization and automation of business and public sector management processes;

24.5. introduce into the market innovative solutions for information technology as a service, large-scale data management and computing, digital media technology, virtualization and data visualization in the clouds;

24.6. introduce into the market solutions for the management of e-services and cloud computing information resources, and personal security and identity, management, prevention and investigation of cybercrimes.

25. On a proposal from a research and experimental (socio-cultural) development and innovation priority implementation coordination group formed by Order No.V-576/4-409 of the Minister of Education and Science, and the Minister of Economy of 20 June 2014 (hereinafter - the Coordination Group), subparagraphs 23.1-23.15 of the Action Plan may be amended by deleting or supplementing the activities provided considering data collected during monitoring and evaluation of the implementation of the Programme and Action Plan, or other reasonable data and suggestions.

## **CHAPTER VI IMPLEMENTATION OF THE ACTION PLAN**

26. Possible sources of the implementation of the Action Plan are:

26.1. state budget funds of the Republic of Lithuania:

26.1.1. funds for measures of the 1<sup>st</sup> priority “Promoting Research, Experimental Development and Innovation” of the European Union structural funds for the 2014-2020 (European Union structural fund action programme 2014-2020 (hereinafter - the Action Programme), 3<sup>rd</sup> priority of the Action Programme “Promoting Competitiveness of Small and Medium Enterprises” and 9<sup>th</sup> priority of the Action Programme “Public Education and Increase of Human Resource Potential”;

26.1.2. Lithuanian state budget funds (excluding the European Union structural funds);

26.2. funds of scientific and education institutions;

26.3. funds of private legal entities;

26.4. funds of the European Union Research and Innovation Programme *Horizon 2020* and other international programmes.

27. Part of funds for measures of priority 1 and priority 9 of the Action Programme are intended for direct support of activities necessary for the implementation of the Priority, thus table presented in Annex 1 provides for a preliminary amount, which is planned to be used for the implementation of the Priority depending on need.

28. Part of the funds for measures of priority 1 of the Action Programme unattributed to any specific priorities of priority areas of research and experimental (socio-cultural) development and innovation (smart specialization) (hereinafter - RDI priorities), the results of the implementation thereof can contribute to the implementation of all or the majority of RDI priorities. These measures are marked in the table presented in Annex 1 to the Action Plan with an asterisk.

29. Part of priority 9 of the Action Programme and measures implemented using the Lithuanian state budget funds are relevant to the entire education and RDI system, and are not attributed to any specific RDI priorities; however, their implementation results can contribute to the implementation of the Priority. These measures are marked in the table presented in Annex 1 to the Action Plan with two asterisks.

30. Measures of priority 3 of the Action Programme though are relevant to the entire system to improve the business environment and to provide support for business shall indirectly contribute to the implementation of the Action Plan, mainly by allowing the private sector to present new products into the market and generating a critical mass of business potential.

By implementing the measures of priority 3 of the Action Programme, the support for activities relevant to the implementation of the Priority, such as the creation of the design of products, deployment of enabling technologies in traditional industries, participation and products presentation in international exhibitions (or) fairs, certification of products and services planned to be exported, raising new manufacturing and service capacities, development of infrastructure of business incubators, membership in international networks (platforms), raising awareness of new products and services, and business start-up advice, is planned.

31. The plan is to have funds of science and education institutions attracted by supporting activities related to the creation and renewal of education and RDI infrastructure necessary for the implementation of the Priority (by implementing infrastructure projects, partial contribution of science and research institutions using their own funds is expected). These funds are included in the graph "State budget funds and other funds" in the table presented in Annex 1 to the Action Plan.

32. The plan is to have funds of private legal entities attracted by implementing measures, projects executed on the basis whereof planned to be co-funded by the state - business companies will have to cover a part of the project value using their own funds. These funds are included in the graph "Private sector funds" in the table presented in Annex 1 to the Action Plan.

33. The Priority may be partially implemented by participating in the European Union Research and Innovation Programme *Horizon 2020* and other international programmes. Funds attracted participating in international programmes are not indicated in the table presented in Annex 1 to the Action Plan.

34. The implementation of the Action Plan seeks for quantitative and qualitative results in line with the evaluation criteria set in Annex 1.

35. Deadlines for publishing calls for applications for measures implementing the actions of the Action Plan or for concluding project lists will be planned for in accordance with the plans for publishing calls for applications and concluding project lists prepared by ministries, as provided for in administration rules of 2014-2020 EU fund investment action programmes approved by Resolution No. 1090 of the Government of the Republic of Lithuania of 3 October 2014 *On the Approval of Administration Rules of 2014-2020 EU Fund Investment Action Programmes*.

36. The Coordination Group coordinates the development of the priority areas of research, experimental (socio-cultural) development and innovation (smart specialization) and the implementation of priorities thereof.

37. The Programme and action plans of RDI priorities are implemented by promoting and supporting the interaction and cooperation between businesses, and research and academic institutions. The Agency for Science, Innovation and Technology, in the procedure laid down by the Government, carries out the promotion of cooperation between business entities and academic and research institutions. The implementation of the Programme is monitored by continuously analysing and assessing the implementation of action plans of RDI priorities. The implementation of the Programme is monitored and assessed in the procedure laid down by the Government by Research and Higher Education Monitoring and Analysis Centre.

38. Infrastructure created and equipment purchased during projects planned to be funded from EU funds or other sources, and executed on the basis of education and RDI policy measures set in Annex 1 of the Action Plan shall not duplicate equipment currently possessed by science and education institutions or other public sector entities, except for cases when the capacity of the existing equipment is not enough for ensuring the implementation of the Priority.

39. A list of measures presented in Annex 1 to the Action Plan may be amended in light of the results of the interim evaluation of the Priority implementation planned in 2018, also having assessed the needs of potential executors of the measures.

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Annex 1 to the Action Plan of the Priority “Information and Communication Technology Infrastructure, Cloud Computing Solutions and Services” of the Priority Area of Research and Experimental (Socio-Cultural) Development and Innovation (Smart Specialization) “Transport, Logistics and Information and Communication Technologies”

**ACTIONS, MEASURES, PRELIMINARY NEED FOR FUNDS FOR THE IMPLEMENTATION THEREOF AND EVALUATION CRITERIA**

Actions and measures	Preliminary funds, thousand EUR			Institution in charge	Evaluation criteria of actions and measures	Criteria values	
	European Union structural funds	State budget and other funds	Private sector funds			Euro pean Unio n struct ural funds	State budg et and other funds
<b>Action 1. To create and introduce new technologies, products, processes and methods into the market:</b>					<b>Created prototypes (concepts) of products, services or processes within 3 years after the implementation of the project (pcs.)</b>	<b>4</b>	<b>8</b>
Measure 1.1. Joint science and business projects contributing to the implementation of smart specialization	1 460	-	--	Ministry of Education and Science	Number of projects jointly executed by business, science and education institutions (pcs.)	1	3
	366	-	331	Ministry of Economy			
Measure 1.2. Support for the creation or development of the company's RDI infrastructure and implementation of RDI activities (“Intelektas”)	3 547	-	3 214				
Measure 1.3. Support for company RDI providing innovation vouchers (“Inovaciniai čekiai”)							
Measure 1.4. Support for patenting inventions and design (“InoPatent LT”)							
<b>Action 2. To encourage the creation of knowledge-intensive business and development of companies having large potential:</b>	1 303	-	145		<b>New companies having received investments within 3 years after the implementation of the project (pcs.)</b>	<b>1</b>	<b>2</b>



Measure 2.1. Support for the provision of innovation consulting services (“Inogeb LT”)					Number of companies receiving financial support in some other form than a subsidy (pcs.)	1	3
Measure 2.2. Support to companies engaged in RDI by financial tools (“Technostartas LT”, “Koinvest LT”)							
<b>Action 3. To promote clusterization, integration into international value creation networks and investments in RDI:</b>					<b>Attracted foreign investments into RDI area according to the areas of smart specialization within 3 years after the implementation of the project (thousand EUR)</b>	<b>42 353*</b>	<b>95 295*</b>
	1 412	-	310		Number of legally binding agreements with international partners (pcs.)	4	10
Measure 3.1. Support for cluster operation (“InoKlaster LT”)							
Measure 3.2. Support for participating in international RDI initiatives (“InoConect LT”)							
Measure 3.3. Support for attracting direct foreign investments in RDI area (“Smartinvest LT”)	5 792*	-	-				
Measure 3.4. Support for direct foreign investments in RDI area (“SmartInvest LT+”)	28 962*	-	32 011*				
<b>Action 4. To promote science and business cooperation, transfer of knowledge and technologies in order to commercialize RDI results:</b>				Ministry of Education and Science	<b>Business RDI orders executed by science and education institutions (thousand EUR)</b>	<b>130</b>	<b>169</b>
					<b>Revenues of science and education institutions from intellectual activity results (thousand EUR)</b>	<b>2,8</b>	<b>3,6</b>
Measure 4.1. Creation of the material base intended for the implementation of joint science and business projects and the development thereof in science and education institutions (creation and development of infrastructure of centres of excellence)	8 690*				Patent applications and/or applications to EFS (pcs.)	0	1
					Doctoral studies conducted together with business entities (number of doctoral students)	1	2
Measure 4.2. Support for the implementation of RDI activities executed by centres of excellence	11 580*						
Measure 4.3. Implementation of market-oriented science and business projects through cross-border network	125						
Measure 4.4. Promoting of the commercialization of results of R & D activities in science and education institutions	1 221	504**	-				
<b>Action 5. To enhance the potential of science and education institutions and their abilities to create and commercialize knowledge and to prepare science and innovation management specialists:</b>					<b>External users from foreign science and education institutions, Lithuanian and foreign business companies having used the renewed open access research infrastructure (funds received from these users (thousand EUR))</b>	<b>57,1</b>	<b>74,2</b>

					<b>Number of publications in frequently cited periodicals (pcs.)</b>	<b>296</b>	<b>326</b>
Measure 5.1. Renewal of RDI and education infrastructure in the areas of smart specialization	52 132*	-	-		Number of researchers working in improved research infrastructure base (full-time equivalents)	30	39
Measure 5.2. Creation and development of European research infrastructures as well as integration of Lithuania into the European research infrastructures pursuant to the Lithuanian research infrastructure signpost and ESFRI**	26 066*	1008**	-		Number of spin-offs created in science and education institutions (units)	6	15
Measure 5.3. Renewal of equipment used in open-access centres by smart specialization areas	261	-	-				
Measure 5.4. R & D activities carried out by Lithuanian science and education institutions	712	-	-				
Measure 5.5. Subscription of databases necessary for RDI activities	28 960*	-	-				
Measure 5.6. Creation of infrastructure of centres of excellence and parallel laboratories	26 640*	504**	-				
Measure 5.7. Development of information infrastructure for science and education (LITNET)	4 340*	-	-				
Measure 5.8. Attraction of foreign scientists and R&D activities	14 481*	-	-				
Measure 5.9. Promoting activities of innovation and technology transmission centres of science and education institutions	14 480*	-	-				
Measure 5.10. Assurance of the doctoral study process; doctoral studies, trips, scholarship, R&D, transfer, funds for visits (including foreign doctoral students)	322	62 154**	-				
Measure 5.11. Employment of scientists and other researchers in knowledge-intensive enterprises	2 896*	-	-				
Measure 5.12. Attracting and reintegrating scholars	5 792*	-	-				
Measure 5.13. Student R&D activities	2 317*	-	-				
Measure 5.14. Promotion of post-doctoral internships	7 240*	-	-				
Measure 5.15. Preparation of specialists in smart specialization priority-related study programmes	233	-	-				
Measure 5.16. Development of science popularization system	12 000**						
Measure 5.17. Funding of undergraduate, graduate, integrated and non-degree studies	-	220 032**	-				
Measure 5.18. Support for mobility of Lithuanian and foreign students and teachers	-	3 438**	-				
Measure 5.19. Practical trainings for scientists and other researchers, participation of scientists and other researchers in targeted events of international programmes, participation of Lithuanian researchers in targeted meetings for the preparation of project applications, participation of	4 503**	258**	-				

representatives from Lithuania in the European Union and other international working groups, committees, commissions, related to research and experimental (socio-cultural) development. / Encouragement of participation in H2020						
Measure 5.20. To ensure funding for R&D activities relevant for the solution of top-level problems strategically important to the public and the state as well as economic development	-	94 314**	-			
Measure 5.21. To support cross-sectorial cooperation in R&D area	-	2 364**	-			
Measure 5.22. To allow researchers to use digital scientific data resources	-	450**	-			

\* Funds unattributed to specific priority area of research and experimental (socio-cultural) development and innovation (smart specialization), their implementation results can contribute to the implementation of all or the majority of RDI priorities.

\*\* Funds for measures relevant to the entire RDI system and are unattributed to specific RDI priorities, their implementation results will also contribute to the implementation of the Priority.

Annex 2 to the Action Plan of the Priority “Information and Communication Technology Infrastructure, Cloud Computing Solutions and Services” of the Priority Area of Research and Experimental (Socio-Cultural) Development and Innovation (Smart Specialization) “Transport, Logistics and Information and Communication Technologies”

### SET OF EDUCATION AND RDI POLICY MEASURES

<b>Generation of science potential critical mass</b>	<b>Search for new ideas and their solutions</b>	<b>Creation of technologies and their prototypes</b>	<b>Introduction into the market</b>	<b>Generation of business potential critical mass</b>
Measure 5.1. Renewal of RDI and education infrastructure in the areas of smart specialization	Measure 1.1. Joint science and business projects contributing to the implementation of smart specialization			Measure 3.1. Support for participating in international RDI initiatives (“InoConect LT”)
Measure 5.2. Creation and development of the European research infrastructures and Lithuania’s integration into the European research infrastructures pursuant to Lithuanian research infrastructure signpost and ESFRI	Measure 1.2. Support for the creation or development of the company’s RDI infrastructure and implementation of RDI activities (“Intelektas LT”)		-	Measure 3.2. Support for cluster operation (“InoKlaster LT+”)
Measure 5.3. Renewal of equipment used in open-access centres by areas of smart specialization	Measure 2.1. Support for the provision of innovation consulting services (“Inogeb LT”)			
Measure 5.5. Subscription of databases necessary for RDI activities	Measure 2.2. Support to companies engaged in RDI by financial tools (“Technostartas LT”, “Koinvest LT”)			
Measure 5.6. Creation of infrastructure of centres of excellence and parallel laboratories	Measure 3.3. Support to common use RDI infrastructure (“Technologinių centrų infrastruktūra”)			
Measure 5.7. Development of information infrastructure for science and education (LITNET)	Measure 3.4. Support for attracting direct foreign investments in RDI area (“Smartinvest LT”)			
Measure 5.9. Promoting activities of innovation and technology transmission centres of science and education institutions	Measure 3.5. Support for direct foreign investments in RDI area (“SmartInvest LT+”)			
Measure 5.10. Assurance of the doctoral study process; doctoral studies, trips, scholarship, R&D, transfer, funds for visits (including foreign doctoral students)	Measure 4.4. Encouragement of commercialization of R&D activity results in science and education institutions			
Measure 5.12. Attracting and reintegrating scholars	Measure 3.2. Support for participating in international RDI initiatives (“InoConect LT”)		-	Measure 3.3. Support for investments into cluster (“InoKlaster LT+”)

Measure 5.14. Promotion of internships after doctoral studies	Measure 5.13. Student R&D activities		Measure 5.11. Employment of scientists and other researchers in knowledge-intensive enterprises
Measure 5.15. Preparation of specialists in smart specialization priority-related study programmes	Measure 5.20. To ensure funding for R&D activities relevant for the solution of top-level problems strategically important to the public and the state as well as economic development	Measure 1.3. Support for company RDI providing innovation vouchers (“Inovaciniai čekiai”)	
Measure 5.16. Development of science popularization system	Measure 5.4. R & D activities carried out in Lithuanian scientific and educational institutions	Measure 1.4. Support for patenting inventions and design (“InoPatentas LT”)	
Measure 5.8. Attraction of foreign scientists and R&D activities		Measure 4.3. Implementation of market-oriented science and business projects through cross-border network	
Measure 5.17. Funding of undergraduate, graduate, integrated and non-degree studies		-	
Measure 5.18. Support for mobility of Lithuanian and foreign students and teachers			
Measure 5.19. Practical trainings for scientists and other researchers, participation of scientists and other researchers in targeted events of international programmes, participation of Lithuanian researchers in targeted meetings for the preparation of project applications, participation of representatives from Lithuania in the European Union and other international working groups, committees, commissions, related to research and experimental (socio-cultural) development. / Encouragement of participation in <i>H2020</i>			
Measure 5.21: To support cross-sectorial cooperation in R&D area			
Measure 5.22. To allow researchers to use digital scientific data resources			
Measure 4.1. Creation of the material base intended for the implementation of joint science and business projects and the development thereof in science and education institutions (creation and development of infrastructure of centres of excellence)			
Measure 4.2. Support for the implementation of RDI activities executed by centres of excellence			

