APPROVED
by Order No
of the Minister of Education and Science of the Republic of Lithuania
and
the Minister of Economy of the Republic of Lithuania
of __ _____2014

ACTION PLAN OF THE PRIORITY "INTELLIGENT TRANSPORT SYSTEMS AND INFORMATION AND COMMUNICATION TECHNOLOGIES" 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 "Intelligent Transport Systems and Information and Communication Technologies" of the priority area of research and experimental (socio-cultural) development and innovation (smart specialisation) (hereinafter referred to as the 'Priority R&D Area') "Transport, Logistics and Information and Communication Technologies" (hereinafter referred to as 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 referred to as the 'Programme').

2. The Action Plan was drawn up to establish the provisions of the implementation of the Priority "Intelligent Transport Systems and Information and Communication Technologies" (herein after referred to as 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 include the following:

4.1. **Intellectual transport systems** shall mean the systems based on information and communication technologies intended for the management and control of traffic of rail, road, sea, air and inland water transport, including infrastructure, means of transport, users, electronic ticket for passenger transport, and for the ensurance of connections between those different modes of transport.

4.2. **Internet of things technologies** shall mean the integration of physical objects into a common network. These objects have embedded computer technologies for inter-personal communication (by means of M2M protocols) in outdoor environments (e.g. vehicle-to-vehicle communication).

4.3. **Digital radio communication network infrastructure and technology** shall mean the totality of technical means of digital communication to transmit information and provide digital services to traffic participants and means of transport.

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

CHAPTER II
DESCRIPTION OF THE CURRENT SITUATION

6. The modern policy on communications systems shall be based on a long-term approach focusing on responsibility towards forthcoming generations, therefore, in developing this type of policy much attention shall be devoted to such global challenges as climate change issues, improved energy efficiency in terms of energy consumption, management of demand for mobility and development of new mobility habits, creation of international trade flows and growth in the importance of logistics. Lithuania has no developed integrated information infrastructure and the existing segments do not comply with the standards of the EU level of information infastructure in the field of transport.

7. Information technology solutions are mostly important to municipal authorities of the largest cities, state railway enterprises, road transport and monitoring institutions, companies providing aviation and sea transport services, therefore, investment projects in research and experimental (socio-cultural) development and innovation (hereainafter referred to as the 'RDI') implemented by business entities in 2007-2013 constituted only EUR 1,000,000. Meanwhile, in 2012, there were 130 companies operating in the fields of information technologies, computer, electronic and optical and other information and communication technology production, which created added value amounting to EUR 72,000,000 and employed about 32,000 people.

8. Lithuania's exports of electronic traffic signal and traffic control devices amounted to EUR 21,000,000 in 2012.

9. The Lithuanian science and education institutions cooperate with business entities which is evidenced by the participation in the Smart&Green City cluster and Smart Technologies Cluster.

10. The potential of the Lithuanian science and education institutions in the fields of transport, environment, information and mechanical engineering is relatively high and a significant advancement has been achieved as a result of research carried out. Science and education institutions have international top-level scientists and researchers who engage in RDI activities in the fields which are most relevant to the Priority (computer science and information technology). The capacities of specialist training in the aformentioned fields increase annually.

To implement the programmes of the integrated science, studies and business centres (valleys), research centres are being established in science and education institutions which have the RDI infrastructure that can be used in the implementation of the Priority. One of such research centres, namely, the Civil Engineering Research Centre, is located in Vilnius Gediminas Technical University. This centre serves not only the needs of research community but also the needs of the private sector.

The new EU research and innovation programme Horizon 2020 is intended to tackle the public task called *Intelligent, Non-polluting and Integrated Transport Systems*. To implement the aforementioned objective, the involvement of the Lithuanian researchers and other specialists is most probable.

The application of intelligent transport systems created by means of advanced information and communication technologies in transportation and logistics industry may have a considerable effect on the economy of Lithuania where transport is one of the most important economic sectors. Although such processes had not been systematic before in terms of the use of the potential of research and innovation, it is expected, that this gap will be successfully filled by the systematic implementation of the Priority.

11. To implement the Priority, it is relevant to enhance and concentrate RDI resources in such RDI fields as physical sciences (computer science, mechanics) and technology sciences (environmental engineering, transport engineering, mechanical engineering and mechatronics, computer engineering). The technologies planned to be developed and introduced may be of relevance to public authorities and municipal authorities of the largest cities in implementing the integrated traffic management and information systems in order to provide modern mobility services. To enchance the capabilities of human resources the aforementioned RDI fields have to see the training of highly qualified specialists in transport engineering, environmental engineering, mechnical engineering, and computer engineering (modelling of transport processes). In addition, Lithuania, the country which seeks to promote economic reconstruction and competitiveness, should

strengthen business capabilities and contribute to the creation and development of the available technologies in such economic activities as information and software technology, manufacturing of computers and computer equipment, radio, television and communication equipment, environmental protection, information and communication technologies. Manufacturing companies operating in the aforementioned fields shall strive to increase the industrial experience, capabilities, and cooperation among companies of the aforementioned industries.

CHAPTER III
CONFORMITY OF THE ACTION PLAN TO THE IMPLEMENTATION PROGRAMME OF RDI PRIORITIES AND OTHER STRATEGIC DOCUMENTS

12. The Action Plan contributes to the implementation of the strategic goal and the objectives specified in Paragraphs 19.1 and 19.2 of the Programme and the implementation of the task set in Paragraph 20.5, namely, to promote those RDI and innovation activities which enable the diversification of energy sources, reduction of energy prices, consumption of energy in a cost-effective and efficient way, change of ecosystems in a sustainable manner (to effectively manage waste, reduce air and water pollution, in particular).

13. Actions of the Action Plan:

13.1. to create and introduce new technologies, products, processes and methods in the market;

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

13.3. to encourage clusterization, integration into international value creation networks and investments in RDI;

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

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

14. In the implementation of the Action Plan the intention 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 vision to create a smart economy by means of implementing advanced, resource-saving and environmental pollution and climate change reducing technologies and products in the transport industry (by creating and implementing intellectual transport systems and services). Furthermore, it is expected to bring about the effect of the goal of the National Transport Development Programme for 2014-2022 approved by Resolution No 1253 of the Government of the Republic of Lithuania of 18 December 2013 *On the Approval of the National Transport Development Programme for 2014-2022*, namely, to create a competitive, modern and cohesive Lithuanian transport system having a considerable additive value.

CHAPTER IV
IMPLEMENTATION STAGES OF THE PRIORITY

15. To implement the Priority the measures selected in accordance with the Lithuanian Innovation Development Programme approved by Resolution 1281 of the Government of the Republic of Lithuania of 18 December 2013, the National Programme for the Development of Studies, Scientific Research and Experimental (Social and Cultural*)* Development for 2013–2020 approved by Resolution 1494 of the Government of the Republic of Lithuania of 5 December 2012 and in accordance with the laws implementing the aforementioned programmes are used.

16. A set of studies, RDI and innovation policy measures required for the implementation of the Priority was determined pursuant to the report of an international work group of independent

experts of 21 February 2014 ‘Signposts for the Implementation of the Priorities’. In accordance with the given report, the following implementation stages of the Priorities can be pointed out:

16.1. the stage of generation of the critical mass of science potential includes activities related to the provision of proper conditions for creating new ideas, finding solutions, creating technologies and prototypes and to the preparation for carrying out these activities;

16.2. the stage of search for new ideas and their solutions includes the fundamental scientific research of general and specific – targeted – nature required for the implementation of the Priority;

16.3. the stage of creation of technologies and their prototypes includes industrial research and experimental applied activities required for the implementation of the Priority;

16.4. the stage of introduction [of a product] to the market includes activities related to the introduction of new products in the market;

16.5. the stage of generation of critical mass of business potential includes activities related to the transmission of knowledge and innovation and their dissemination to the public and a large scale application.

17. Actions specified in Subparagraphs 13.1–13.5 of the Action Plan shall be implemented by applying the measures indicated in Annex 1 to the Action Plan.

18. Annex 2 to the Action Plan provides for a set of relevant studies, RDI and innovation policy measures required for every stage of implementation of the Priority.

19. Actions specified in Annex 1 to the Action Plan shall be implemented in accordance with the set of studies, RDI and innovation policy measures provided for in Annex 2.

CHAPTER V
THEMATIC SPECIFICS OF THE PRIORITY

20. To implement the Action Plan the following aims are to be pursued:

20.1. creating the Internet of things technologies, smart systems and measures;

20.2. developing positioning and data transmission technologies and creating and applying effective devices characteristic of high-precision localisation based on such technologies;

20.3. studying and creating digital radio communication technologies intended for information of traffic participants and provision of e-services by means of radio channels;

20.4. analysing and creating technologies for production, implementation and service of intellectual transport system devices required to create means of production and infrastructure for the development of ITS;

20.5. researching and creating technologies for electronic planning of routes for various means of transport, technologies for the provision of real-time information to traffic participants and other smart technologies;

20.6. analyse and implement the capabilities of forecasting, modelling and visualising traffic flows.

21. Successful implementation of the activities specified in Paragraphs 20.1–20.6 of the Action Plan is an integral part of RID activities carried out by private and public institutions.

22. Joint initiatives of studies, scientific research and experimental (social and cultural) development and innovation (hereinafter referred to as the ‘Joint Initiatives’) play an important role in the implementation of the Priority. They constitute the basis for resolving the problems of economic sectors in carrying out RID activities which are of relevance to economic sectors and form the expectations that private sector entities will be engaged in the realisation of the results of RID activities. To implement the Joint Initiatives in accordance with the activities specified in Paragraphs 20.1–20.6 of the Action Plan and actions indicated in Paragraphs 13.1–13.5 of the Action Plan, RID activities are carried out in order to:

22.1. look for innovative solutions which would increase the efficiency, mobility and security of traffic flows and traffic control and which would reduce pollution;

22.2. search for innovative autonomic car systems intended for the solutions aimed at increasing traffic safety and to create related concepts;

22.3. look for technological solutions of digital radio communication and for the possibilities of the network infrastructure, analyse the demand of means and services of intellectual transport systems and study technologies for creation of such means and services;

22.4. analyse and look for solutions to create new open-access measures intended for the provision of smart services in the means of transport;

22.5. identify the needs of the Internet of things technologies and their use in creating intellectual transport systems, research new solutions, develop models and methodologies;

22.6. draft, test, specify and correct the models and concepts of electronic route planning for various means of transport and new models and concepts of mobility;

22.7. prepare methodologies and models for implementation of autonomous vehicle systems intended for increased security, and models for ensuring communication with road infrastructure;

22.8. develop models of technical concepts of network infrastructure and designs of model implemenation and test technological solutions within the cities;

22.9. prepare technical concepts for open-access intellectual vehicle systems and technology accesories and introduction of services, functional designs for the provision of services, models of accessories with the provision of testing services;

22.10. design means for creation of and creation of services for the Internet of things and intellectual transport systems which would be intended for the development of hardware and software of intellectual transport systems to realise smart services on the basis of the aforementioned designs;

22.11. create prototypes of innovative models for planning, information and mobility of electronic route planning for various means of transport, compare their characteristics with theoretical studies, and test them in real environments;

22.12. implement and test prototypes of autonomous vehicle systems intended for increased traffic security;

22.13. create prototypes of the network of digital radio communication and of information systems of vehicle drivers, test them in real environments within the cities;

22.14. create and test prototypes of open-access intellectual vehicle systems and technology accessories, experimental samples and test them in real environments;

22.15. create and test prototypes of intellectual transport systems and prototypes of framework of their creation, and prototype services.

23. In implementing the Joint Initiatives the aim is for the activities specified in Paragraphs 22.1–22.15 of the Action Plan to provide conditions to:

23.1. introduce innovative models of technologies, which increase the effectiveness of transport flow management and traffic security and reduce environmental pollution, in the market;

23.2. introduce autonomous vehicle systems intended for the increase of traffic security in the major cities and major highways, and pilot commercial products and commercialise systems and technologies in foreign markets;

23.2. introduce and develop intellectual transport systems, network infrastructure of digital radio communication and driver information systems designed to minimise route and trip time, inform about incidents on the roads, road conditions, fuel prices, parking, etc. in the management centres of transport services;

23.3 introduce open-access intellectual vehicle systems and technology accessories in the market.

24. Paragraphs 22.1–22.15 of the Action Plan may be amended by deleting them or supplementing the planned activities upon the proposal of the Coordination Group for the Implementation of Priorities of Scientific Research and Experimental (Social and Cultural) Development and Innovation set up in accordance with Order No V-576/4-409 of the Minister of Education and Science and the Minister of Economy of 20 June 2014 (hereinafter referred to as the ‘Coordination Group’), taking into consideration the details collected during the monitoring and

assessment of the implementation of the Programme and the Action Plan or other substantiated details or proposals.

CHAPTER VI
IMPLEMENTATION OF THE ACTION PLAN

25. Possible sources of the implementation of the Action Plan:

25.1. state budget funds of the Republic of Lithuania:

25.1.1. funds of the EU structural funds allocated for the 201-2020 period (funds for the measures of the 1st priority "Promoting Research, Experimental Development and Innovation" of the European Union structural fund action programme 2014-2020 (hereinafter referred to as the 'Action Programme'), the 3rd priority of the Action Programme "Promoting Competitiveness of Small and Medium Enterprises" and the 9th priority of the Action Programme "Public Education and Increase of Human Resource Potential");

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

25.2. funds of scientific and educational institutions;

25.3. funds of private legal entities;

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

26. A part of funds for the 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 the table presented in Annex 1 provides for preliminary amount, which is planned to be used for the implementation of the Priority depending on the need.

27. A part of funds for the 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 referred to as the 'RDI priorities'), the results of the implementation thereof can contribute to the implementation of all or the majority of the RDI priorities. These measures are marked in the table of Annex 1 to the Action Plan with an asterisk.

28. Part of priority 9 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 may also contribute to the implementation of the Priority. These measures are marked in the table of Annex 1 to the Action Plan with two asterisks.

29. Measures of priority 3 of the Action Programme, though relevant to the entire system of improvement of business environment and aid to business, will indirectly contribute to the implementation of the Action Plan, by mainly creating favourable conditions for private entities to introduce new products and generate critical mass of business potential.

In implementing the measures of priority 3 of the Action Programme, it is planned to support activities relevant for the Implementation of the Priority such as product design, implementation of high impact technologies in traditional industries, presentation of production in international exhibitions and (or) fairs, certification of products and services planned for export, increase in new capabilities to provide products and services, development of infrastructure of business incubators, membership in international networks (platforms), improvement of awareness of products and services, business start-up consultations.

30. 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, co-funding of science and education institutions 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.

31. The plan is to have funds of private legal entities attracted by implementing measures, the 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.

32. 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.

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

34. Deadlines for announcing calls for applications for measures implementing the actions of the Action Plan or for concluding project lists will be planned in accordance with the plans for announcing 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*.

35. Development of the priority areas of research and experimental (socio-cultural) development and innovation (smart specialization) and the implementation of priorities thereof are coordinated by the Coordination Group.

36. The Programme and the Action Plans of the RDI Priorities are implemented to promote and support interaction and cooperation between business entities and science and education institutions. The promotion of cooperation between business entities and science and education institutions, in accordance with the procedure established by the Ministry of Education and Science and the Ministry of Economy, is implemented by the Agency for Science, Innovation and Technology. The implementation process of the Programme is continuously monitored by analysing and assessing the implementation of the Action Plans of RDI Priorities. Monitoring and assessment of the Programme implementation, in accordance with the procedure established by the Ministry of Education and Science and the Ministry of Economy, is carried out by the Science and Studies Monitoring and Analysis Center (MOSTA).

37. 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 insufficient for ensuring the implementation of the Priority.

38. A list of measures presented in Annex 1 to the Action Plan may be amended in light of the results of the planned interim evaluation of the Priority implementation 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 "Intelligent Transport Systems and Information and Communication Technologies" of the priority area of research and experimental (socio-cultural) development and innovation (smart specialisation) "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			European Union structural funds	State budget and other funds
Action 1. To create and introduce new technologies, products, processes and methods into the market:					**Created prototypes (concepts) of products, services or processes within 3 years after the implementation of the project (pcs.)**	**2**	**4**
Measure 1.1. Joint science and business projects contributing to the implementation of smart specialization	973	-	-	Ministry of Education and Science	Number of projects jointly executed by business, science and education institutions (pcs.)	1	2
	335	-	303	Ministry of Economy	Number of certified products (pcs.)	1	2
Measure 1.2. Support for the creation or development of the company's RDI infrastructure and implementation of RDI activities ("Intelektas")	1 528	-	1 417				
Measure 1.3. Support for company RDI providing innovation vouchers ("Inovaciniai čekiai")							
Measure 1.4. Support for patenting inventions and design ("InoPatent LT")							
Measure 1.5. Support for precertification of new products and technologies and for conducting tests in laboratories under actual conditions ("Inosertifikavimas")							
Action 2. To encourage the creation of knowledge-intensive business and development of companies having large potential:	1 303	-	145		**New companies having received investments within 3 years after the implementation of the project (pcs.)**	**1**	**2**

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”)							
Action 3. To promote clusterization, integration into international value creation networks and investments in RDI:					**New cluster members within 3 years from the start of the implementation of the project (persons)**	**0**	**1**
					Attracted foreign investments into RDI area according to the areas of smart specialization within 3 years after the implementation of the project (thousand EUR)	**42 353***	**95 295***
Measure 3.1. Support for cluster operation (“InoKlaster LT”)	2 895	-	814		Number of legally binding agreements with international partners (pcs.)	4	10
Measure 3.2. Support for participating in international RDI initiatives (“InoConect LT”)							
Measure 3.3. Support for investments in cluster (“InoKlaster LT+”)							
Measure 3.4. Support for the RDI infrastructure of common use (“Technologinių Centrų Infrastruktūra”)							
Measure 3.5. Support for attracting direct foreign investments in RDI area (“Smartinvest LT”)	5 792*	-	-				
Measure 3.6. Support for direct foreign investments in RDI area (“SmartInvest LT+”)	28 962*	-	32 011*				
Action 4. To promote science and business cooperation, transfer of knowledge and technologies in order to commercialize RDI results:				Ministry of Education and Science	**Business RDI orders executed by science and education institutions (thousand EUR)**	**30**	**39**
					Revenues of science and education institutions from intellectual activity results (thousand EUR)	**14,1**	**18,3**
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 (pcs.) Doctoral studies conducted together with business entities (number of doctoral students)	1 1	5 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	93	-	-				
Measure 4.4. Promotion of commercialization of the results of RDI activities in the institutions of science and studies	203	504**	-				
Action 5. To enhance the potential of science and education institutions and their abilities to create and commercialize knowledge and to prepare specialists:					**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))**	**36,9**	**47,7**
					Number of publications in frequently cited periodicals (pcs.)	**22**	**26**
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)	10	13
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)	0	2
Measure 5.3. Renewal of equipment used in open-access centres by smart specialization areas	174	-	-				
Measure 5.4. RDI activities carried out by the Lithuanian science and education institutions	356	-	-				
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 RDI activities	14 481*	-	-				
Measure 5.9. Promotion of activities of innovation and technology transmission centres of science and education institutions	14 480*	-	-				
Measure 5.10. Ensurance of the doctoral study process; doctoral studies, trips, scholarship, RDI, 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. Attraction and reintegration of scholars	5 792*	-	-				
Measure 5.13. Student RDI 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	47	-	-				
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 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	4 503**	258**	-				
Measure 5.20. To ensure funding for RDI 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-sectoral cooperation in RDI 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.

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Annex 1 to the Action Plan of the Priority "Intelligent Transport Systems and Information and Communication Technologies" of the priority area of research and experimental (socio-cultural) development and innovation (smart specialisation) "Transport, Logistics and Information and Communication Technologies"

SET OF EDUCATION AND RDI POLICY MEASURES

<table>
<tr><th>Generation of science potential critical mass</th><th>Search for new ideas and their solutions</th><th>Creation of technologies and their prototypes</th><th>Introduction into the market</th><th>Generation of business potential critical mass</th></tr>
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<tr><td>Measure 5.17. Funding of undergraduate, graduate, integrated and non-degree studies</td><td rowspan="9">-</td><td>Measure 4.3. Implementation of market-oriented science and business projects through cross-border network</td></tr>
<tr><td>Measure 5.18. Support for mobility of Lithuanian and foreign students and teachers</td><td rowspan="8">-</td></tr>
<tr><td>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 H2020</td></tr>
<tr><td>Measure 5.21. To support cross-sectoral cooperation in RDI area</td></tr>
<tr><td>Measure 5.22. To allow researchers to use digital scientific data resources</td></tr>
<tr><td>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)</td></tr>
<tr><td>Measure 4.2. Support for the implementation of RDI activities executed by centres of excellence</td></tr>
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