Germany

Prof. Dr Horst Hanusch

PARTICIPANT			
Gender	Mr.		Title Prof. Dr.
First name	Horst		
Last name	Hanusch		
Position	Professor Emeritus in Economics		

ORGANISATION DETAILS				
Organisation name	University of Augsburg			
Street *	Universitaetstrasse 2			
ZIP * D-86159	City * Augsburg			Country * Germany
Phone * + 49 (0)821 598-4179			Fax + 49 (0)821 598-4229	
Email * horst.hanusch@wiwi.uni-augsburg.de			Web www. Wiwi.uni-augsburg.de/vwl/hanusch	
Employees		☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	X Higher Education Institution	☐ Research Institution	☐ Industry	☐ SME ☐ other
Department	Department of Economics and Business Administration University of Augsburg			
Short description of your company or organization				

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐

3. Research on serious human health problems viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system X
Areas of activity *(Free keywords)* Institutional development in knowledge-based economies

PROJECT IDEA(S)	
Short description of project	In a Neo-Schumpeterian framework the educational system is a main pillar for the development of a knowledge-based economy, driven by innovations in firms and by regional as well as national characteristics. The project, thus, will concentrate on theoretical considerations and empirical data on the firm as well as the regional level, looking especially on the advanced requirements and the transformational needs concerning the educational system in a knowledge-based economic and social environment.
Description of scientific expertise offered	Research in Neo-Schumpeterian institutional economics and innovation economics based on elements like learning, skills and knowledge, creativity, risk taking, etc.
Description of technical expertise offered	No technical expertise needed for this project
Description of requested partner scientific expertise	Expertise based on research in knowledge-based institutional economics, innovation and development economics
Description of requested partner technical expertise	Requested partners do not need technical expertise

PARTNERS	
Partners' names, organizations and addresses	Prof. Dr. Evgeny Popov Head of the Economical Theory Department, Institute of Economics, UB of RAS Moskovskaya str., 29, Ekaterinburg, **Russia** Dr. Natalia Maehle Researcher Norwegian School of Economics and Business Administration Stolabakken 41, 5307 Ask, Bergen, **Norway**

	Dr. Pekka Sutela Head, Institute for Economies in Transition, Bank of Finland, Kluuvikatu 7, P.O. Box 160, 00101 Helsinki, **Finland** Prof. Dr. Canan Balkir Jean Monnet Chair in European Economic Integration Graduate Department of EU Studies Dokuz Eylül University Cumhuriyet Bulvarı 144 35210 Alsancak, Izmir, **Turkey**

Norway

Dr Natalia Maehle

PARTICIPANT		
Gender	Ms	Title Dr.
First name	Natalia	
Last name	Maehle	
Position	Freelance researcher	

ORGANISATION DETAILS				
Organisation name	Norwegian School of Economics and Business Administration			
Street *	Helleveien 30			
ZIP * 5045	City * Bergen		Country * Norway	
Phone * +47 55959244		Fax		
Email * natalia.maehle@nhh.no		Web www.nhh.no		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☒ Higher Education Institution	☐ Research Institution	☐ Industry	☐ SME ☐ other
Department	Department of Strategy and Management			
Short description of your company or organization	Norwegian School of Economics and Business Administration, together with its affiliated institutes SNF and AFF, constitutes the largest concentrated centre for research and study in the fields of economics and business administration in Norway.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems**

viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system ☒
Areas of activity *(Free keywords)* Knowledge Economy Institutions

PROJECT IDEA(S)	
Short description of project	The elaboration of economic institutional models for the purpose of innovative development of firms and regional systems is the aim of the project. The analysis of firms' and regional systems' activities in the Knowledge Economy will constitute the main experimental data of the project. As a result the project will provide the advanced requirements for transformation of the educational system.
Description of scientific expertise offered	This project offers scientific expertise in Knowledge Economy and Institutional Economics Theory.
Description of technical expertise offered	The technical expertise of this project is not needed.
Description of requested partner scientific expertise	The requested partners should have scientific expertise in Knowledge Economy and Institutional Economics Theory.
Description of requested partner technical expertise	The technical expertise of requested partners is not needed.
Potential partners (name, organisation, address …)	Prof. Dr. Evgeny Popov Head of the Economical Theory Department, Institute of Economics, UB of RAS, Moskovskaya str., 29, Ekaterinburg, **Russia** Prof. Dr. Horst Hanusch Vice-President, University of Augsburg, Universitaetsstr. 16, D-86135 Augsburg, **Germany** Dr. Pekka Sutela Head, Institute for Economies in Transition, Bank of Finland, Kluuvikatu 7, P.O. Box 160 FIN-00101 Helsinki, **Finland**

Mr Maxim Chirkov

PARTICIPANT			
Gender	☑ Mr	☐ Ms	Title
First name	Maxim		
Last name	Chirkov		
Position	senior lecturer		

ORGANISATION DETAILS				
Organisation name	Altay State University			
Street *	Lenin, 61			
ZIP *	656049	City * Barnaul		Country * Russia
Phone *	+7 3852667584		Fax +7 3852 667626	
Email *	rector@asu.ru		Web www.asu.ru	
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☑ 250 +
Organisation type	☐ Higher Education Institution	☐ Research Institution	☐ Industry	☐ SME ☐ other
Department	International institute of economy, management and information systems			
Short description of your company or organization	The state educational institution of the higher vocational training. Training of students is carried out under 108 licensed programs of the higher vocational training which include programs of preparation of experts, bachelors and masters			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐

auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☑ Transformation of the educational system ☐
Areas of activity *(Free keywords)* Labor market, Regional economy, Social-economic development, Tax policy

PROJECT IDEA(S)	
Short description of project	The project is directed on the analysis and working out of alternative forms of maintenance of employment of the population in a transformed society
Description of scientific expertise offered	The analysis of models of behavior of individuals on a local labor market
Description of technical expertise offered	
Description of requested partner scientific expertise	The offer of forms of state regulation of supply and demand new to Russia on a labor market Search of resources of nonstate sector for the decision of problems of employment of the population
Description of requested partner technical expertise	
Potential partners (name, organisation, address …)	

Prof. Dr Vitaly Gorokhov

PARTICIPANT			
Gender	☒ Mr	☐ Ms	Title Prof., Dr.
First name	Vitaly		
Last name	Gorokhov		
Position	senior scientist, chief of the chear		

ORGANISATION DETAILS				
Organisation name	Institute for Philosophy of the Russian Academy of Sciences			
Street *	Volkhonka 14			
ZIP * 119991	City * Moscow		Country * Russia	
Phone * 89168834816		Fax +74956099350		
Email * vitaly.gorokhov@mail.ru		Web		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	xHigher Education Institution	**x** Research Institution	☐ Industry	☐ SME ☐ other
Department	Interdisciplinary Problems of the Scientific and Technological Development of the IPhRAS; chear for philosophy of science and technology of the GAUGN			
Short description of your company or organization	The Institute of Philosophy of the Russian Academy of Sciences (IPhRAS) is the principal institute in Russia for academic research in this field. Academic study of the highest quality is pursued here, covering all the main thematic areas and current problems of contemporary philosophy. The integration of academic work and education is successfully realized: faculties of philosophy and politics have been created within the Institute, as well as an Oriental department within the Faculty of Philosophy in the State University for the Humanities (GAUGN).			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise

1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials x quantum optics ☐ **2. Environmental research and cl** **matic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system x
Areas of activity *(Free keywords)* technology assessment, nanotechnoscience, nanoethics, knowledge society, nanotechnological revolution

PROJECT IDEA(S)	
Short description of project	The goal of the project is the exchange of experience and coordination of scientific research in the sphere of social and humanitarian problems of nanotechnological modernization and creation of conditions for experts' preparation on the basis of optimization of research activity. The first task of this project to optimize of international research activity in the sphere of social and humanitarian problems of nanotechnological modernization and to create favourable conditions for worlds level experts preparation in the sphere of social and humanitarian problems of nanotechnological modernization on the basis of optimization of the international research activity. For this goal we need to investigate the paradigmatic change in the sphere of science production especially in the nanotechnoscience, to reveal development directions of research knowledge around nanotechnological modernization, and to prepare the analytical reviews of the target issus. Series of articles on theoretical and methodological substantiations of conditions and mechanisms of experts' preparation of the international standard on the basis of optimization of joint research will be prepared. This is important for the preparation of the international level experts in the sphere of social and humanitarian problems of nanotechnological modernization for the purpose of development of knowledge' directions in the Russian and German education system and activation of scientific research in this area. The questions under investigation are there: research of epistemic bases of nanotechnological revolution; the analysis of social and humanitarian problems and an interdisciplinary appraisal of social, ecological etc. consequences of nanotechnologies introduction and nanoethics; research of transdisciplinary problems of nanotechnological modernization; the analysis of problems of scientific and technical policy in the sphere of nanotechnological modernization.
Description of scientific expertise	

offered	
Description of technical expertise offered	
Description of requested partner scientific expertise	
Description of requested partner technical expertise	
Potential partners (name, organisation, address …)	Institute for Technology Assessment and Systems Analysis of the Karlsruhe Institute of Technology, Germany

Mr Konstantin Grasmik

PARTICIPANT			
Gender	Mr	☐ Ms	Title Stimulation of creating spin-off companies in universities
First name	Konstantin		
Last name	Grasmik		
Position	Assistant professor		

ORGANISATION DETAILS				
Organisation name	Omsk State University by F.M.Dostoevsky			
Street Prospect Mira, 55a*				
ZIP 644077*	City Omsk*		Country Russia*	
Phone (3812) 67-01-06*		Fax (3812) 67-37-99		
Email grasmikki@omsu.ru*		Web www.fmb.omsu.omskreg.ru		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☒ Higher Education Institution	☐ Research Institution	☐ Industry	☐ SME ☐ other
Department	Faculty of International Business			
Short description of your company or organization				

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐

neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system ☒
Areas of activity *(Free keywords)* Innovaton, research university, spin-off

PROJECT IDEA(S)	
Short description of project	It is supposed to research factors, influencing the creation and development of spin-off companies in universities.
Description of scientific expertise offered	I already made sociological research of innovation activity os high-tech SME of Omsk, Russia (two rounds in 2006 and 2010 y). The relations in triangle "scholar-university-investor" were also explored.
Description of technical expertise offered	I have unlimited free access to Internet, to databases of articles (www.elibrary.ru, EBSCO, Sage, C+ - Russian legislature and others). Also I can work with SPSS.
Description of requested partner scientific expertise	It should have experience in carring out sociological research and executing econometric analysis.
Description of requested partner technical expertise	Access to Internet, scientific and statistical databases.
Potential partners (name, organisation, address …)	1. Center for Research on Activity, Development and Learning P.O Box 26 (Teollisuuskatu 23-25) FI-00014 University of Helsinki, Finland phone: +358 9 191 44275 2. Einar Rasmussen Bodø Graduate School of Business N-8049 Bodø Norway Email: einar.rasmussen@hibo.no 3. Kathrin Müller Centre for European Economic Research) Mannheim, Germany Email: info@zew.de Phone: +49/621/1235-01 Fax: +49/621/1235-224 Postal: L 7,1; D - 68161 Mannheim

Mrs Nataliya Kondratyeva

PARTICIPANT			
Gender	☐ Mr	X Ms	Title Candidate in Economy Sciences
First name	Nataliya		
Last name	Kondratyeva		
Position	Head of economic integration centre		

ORGANISATION DETAILS				
Organisation name	Institute of Europe, Russian Academy of Sciences			
Street *	Mokhovaya st., 11-3"B"			
ZIP *	City * Moscow		Country * Russia	
Phone * +7 903 779-16-55		Fax 629-92-96		
Email * nkondratieva@inbox.ru		Web www.ieras.ru		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	X Research Institution	☐ Industry	☐ SME ☐ other
Department	Department of European Integration Research			
Short description of your company or organization	The Institute of Europe was founded in 1987 in order to provide cross-discipline academic research of multifaceted processes in contemporary Europe. The Institute works on economic, political, social, security and other issues.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
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neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) X Labour, labour market, and employment ☐ Transformation of the educational system ☐
Areas of activity *(Free keywords)* Socio-economic models of development, social and economic modernisation

PROJECT IDEA(S)	
Short description of project	The project is designed to elaborate on experience of socio-economic models of development in different categories of European countries, including Russia, particularly on the experience of "welfare states", to assess results and prospects of these models in the sphere of integration policies including multiculturalism, assimilation, etc.
Description of scientific expertise offered	The Institute of Europe has an extensive expertise and well-established reputation in Russia and abroad as a source of numerous studies on social security systems, welfare states, labour markets, etc. in Europe.
Description of technical expertise offered	
Description of requested partner scientific expertise	Institute of Europe has numerous partners – think tanks, universities, research centers in many European countries. It is in the process of choosing its partners for this particular project.
Description of requested partner technical expertise	
Potential partners (name, organisation, address …)	National Centre for Scientific Research (France)

Dr. Sc. Andrey Oleynik

PARTICIPANT			
Gender	■ Mr	☐ Ms	Title Dr.Sc. (Eng)
First name	Andrey		
Last name	Oleynik		
Position	Dep. director		

ORGANIZATION DETAILS				
Organization name	Establishment of the Russian Academy of Sciences Institute for Informatics and Mathematical Modelling of Technological Processes, Kola Science Center RAS (IIMM KSC RAS)			
Street *	Fersman st., 24a			
ZIP * 184209	City * Apatity (Murmansk region)		Country * Russian Federation	
Phone * +7(81555)79602		Fax +7(81555)74050		
Email * administration@iimm.kolasc.net.ru		Web www.iimm.ru		
Employees	☐ 1-10	■ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	■ Research Institution	☐ Industry	☐ SME ☐ other
Department	Department of nano- and information technologies of the Russian Academy of Sciences			
Short description of your company or organization	Establishment of the Russian Academy of Sciences Institute for Informatics and Mathematical Modelling of Technological Processes of the Kola Science Centre RAS (IIMM KSC RAS), was founded on January 31st, 1989 by the decision of the Presidium of AS USSR. The department for informatics, computer engeneering and automation AS USSR (RAS) was put in charge of scientific and methodical management of the Institute. Scientific research directions were determined by the decision 17/03/98 N92 of the RAS Presidium: 1. Development of integrated information systems for regional management, integrated scientific researches and education. 2. Advanced technological systems and processes modelling in mining and chemical industries.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐

3. Research on serious human health problems viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ● Labour, labour market, and employment ☐ Transformation of the educational system ☐
Areas of activity *(Free keywords)* global security, regional development support, information technologies and systems, mathematical modeling, simulation, system dynamics

PROJECT IDEA(S)	
Short description of project	**Project title**: Cognitive information technologies for information and analytical support of safety management in the development of Arctic regions of Russia in the context of globalization. **Project goal:** Research and development of cognitive models, methods and technologies for information and analytical support of safety management in regional development to improve stability of a regional economical system and ensure favourable conditions for efficient growth of intelligent, innovation, industrial and socio-economic potential of the region in the context of globalization. **Theoretical novelty and practical importance** of the project implementation outcomes lies in the development of a cognitive methods complex, tools and technologies forming an open expandable information and analytical environment. The environment ensures safety control in the development of a regional socio-economic system, and serves to form favourable conditions for implementation of an acceptable risks conception, information support of organizational structures providing safety in the functioning of regional subsystems, as well as step-by-step building of a complex safety system to protect territories, population and objects of crucial importance for national security in Arctic zone of the Russian Federation from hazard of natural and man-caused emergencies.
Description of scientific expertise offered	Under development
Description of technical expertise offered	-
Description of requested partner scientific expertise	Under development
Description of requested partner technical expertise	-

Potential partners (name, organisation, address …)	Popkov Yu.S., Establishment of the Russian Academy of Sciences Institute for System Analysis of RAS (ISA RAS), Russia, 117312, Moscow, pr. 60-letiya Oktyabrya, 9 Smirnov A.V., Establishment of the Russian Academy of Sciences, St. Petersburg Institute for Informatics and Automation of RAS (ISA RAS), Russia, 199178, St. Petersburg, 14 line, 39. Jukka Aaltonen, Olli-Pekka Kaurahalme, Tytti Kurtti, University of Lapland, Rovaniemi, Finland Atle Melkild, Kola Science Center Norway AS, Tromso, Norway …

Mr Roman Omelchuk

PARTICIPANT			
Gender	☐ Mr		Title Mr
First name	Roman		
Last name	Omelchuk		
Position			

ORGANISATION DETAILS				
Organisation name	The East-Siberian State Academy of Education			
Street *	9, Suhe-Batora			
ZIP * 664003	City * Irkutsk		Country * RUSSIA	
Phone * (3952)241097		Fax (3952)240559		
Email * mail@igpu.ru		Web www.igpu.ru		
Employees				☐ 250 +
Organisation type	☒ Higher Education Institution	☐ Research Institution	☐ Company	☐ other
Department	Faculty of Humanities			
Short description of your company or organization	The State educational institution of higher education, "East Siberian State Academy of Education"			

TOPICS OF INTEREST REGARDING THE CALL FOR "INNOVATION PROJECTS"					
Sub-topic of expertise	☐ ICT	☐ Materials	☐ Health	☐ Environment and Climate	☐ Production Technologies
	☐ Biotechnology	☐ Energy	☐ Space	☐ Transport	☐ Optical Technologies
Other *(Free keywords)*	Belief, Education, Philosophy				

PROJECT IDEA(S)	
	Ontology of belief: personal and socio-cultural mechanisms of succession of values. Department of

Short description of project	Cultural Relations
Description of scientific expertise offered	Ontology of Belief
Description of technical expertise offered	Creating intercollegiate cultural movement in Eastern Siberia
Description of requested partner scientific expertise	
Description of requested partner technical expertise	
Potential partners (name, organisation, address …)	All Universities

DrSc. Vladimir Putilov

PARTICIPANT			
Gender	● Mr	☐ Ms	Title Dr.Sc. (Eng)
First name	Vladimir		
Last name	Putilov		
Position	Director		

ORGANIZATION DETAILS				
Organization name	Establishment of the Russian Academy of Sciences Institute for Informatics and Mathematical Modelling of Technological Processes, Kola Science Center RAS (IIMM KSC RAS)			
Street *	Fersman st., 24a			
ZIP * 184209	City * Apatity (Murmansk region)		Country * Russian Federation	
Phone * +7(81555)79602		Fax +7(81555)74050		
Email * administration@iimm.kolasc.net.ru		Web www.iimm.ru		
Employees	☐ 1-10	● 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	■ Research Institution	☐ Industry	☐ SME ☐ other
Department	Department of nano- and information technologies of the Russian Academy of Sciences			
Short description of your company or organization	Establishment of the Russian Academy of Sciences Institute for Informatics and Mathematical Modelling of Technological Processes of the Kola Science Centre RAS (IIMM KSC RAS), was founded on January 31st, 1989 by the decision of the Presidium of AS USSR. The department for informatics, computer engeneering and automation AS USSR (RAS) was put in charge of scientific and methodical management of the Institute. Scientific research directions were determined by the decision 17/03/98 N92 of the RAS Presidium: 1. Development of integrated information systems for regional management, integrated scientific researches and education. 2. Advanced technological systems and processes modelling in mining and chemical industries.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐

Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ● Labour, labour market, and employment ☐ Transformation of the educational system ☐
Areas of activity *(Free keywords)* global security, regional development, information technologies and systems, system dynamics, simulation

PROJECT IDEA(S)	
Short description of project	**Project title**: Cognitive information technologies for information and analytical support of safety management in the development of Arctic regions of Russia in the context of globalization. **Project goal:** Research and development of cognitive models, methods and technologies for information and analytical support of safety management in regional development to improve stability of a regional economical system and ensure favourable conditions for efficient growth of intelligent, innovation, industrial and socio-economic potential of the region in the context of globalization. **Theoretical novelty and practical importance** of the project implementation outcomes lies in the development of a cognitive methods complex, tools and technologies forming an open expandable information and analytical environment. The environment ensures safety control in the development of a regional socio-economic system, and serves to form favourable conditions for implementation of an acceptable risks conception, information support of organizational structures providing safety in the functioning of regional subsystems, as well as step-by-step building of a complex safety system to protect territories, population and objects of crucial importance for national security in Arctic zone of the Russian Federation from hazard of natural and man-caused emergencies.
Description of scientific expertise offered	Under development
Description of technical expertise offered	-
Description of requested partner scientific expertise	Under development
Description of requested partner	-

technical expertise	
Potential partners (name, organisation, address …)	Popkov Yu.S., Establishment of the Russian Academy of Sciences Institute for System Analysis of RAS (ISA RAS), Russia, 117312, Moscow, pr. 60-letiya Oktyabrya, 9 Smirnov A.V., Establishment of the Russian Academy of Sciences, St. Petersburg Institute for Informatics and Automation of RAS (ISA RAS), Russia, 199178, St. Petersburg, 14 line, 39. Jukka Aaltonen, Olli-Pekka Kaurahalme, Tytti Kurtti, University of Lapland, Rovaniemi, Finland Atle Melkild, Kola Science Center Norway AS, Tromso, Norway …

Dr Alexey Shevyakov

PARTICIPANT			
Gender	* ☐ Mr	☐ Ms	Title Dr.
First name	Alexey		
Last name	Shevyakov		
Position	Director of Institute of Social and Economic Studies of the Population, RAS		

ORGANISATION DETAILS				
Organisation name	Institute of Social and Economic Studies of the Population, Russian Academy of Science			
Street *	32 Nakhimovskiy Prospekt			
ZIP * 117218	City * Moscow		Country * Russia	
Phone * +7 095 125 7302		Fax +7 095 129 0801		
Email * shevyakov@isesp-ras.ru		Web http://www.isesp-ras.ru/		
Employees	☐ 1-10	☐ 11 - 50	***** ☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	***** Research Institution ☐	Industry ☐	SME ☐ other
Department	Russian Academy of Science			
Short description of your company or organization	The Institute of Social and Economic Studies of the Population (ISESP), part of the Russian Academy of Science (RAS), specialises in research concerned with the fundamental and theoretical problems of human capital development and potential, and in social problems within the population.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐

neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ***** Labour, labour market, and employment ***** Transformation of the educational system ****
Areas of activity *(Free keywords)* human capital, labour, workforce, inequality, social security, welfare, transfer payments, unemployment, poverty, education, demography

PROJECT IDEA(S)	
Short description of project	1. The analysis of the exact structure of government social transfers in Russia and of the profile of the typical recipient of these welfare transfers. An important focus of the study will be the analysis of the unfair availability of social transfers between population groups and the inequality that follows from it, and the subsequent evaluation of the efficiency that different social transfers have on the status of various population groups. The study will allow us to accurately evaluate the effects that social transfer payments have had on the dynamics of income poverty and inequality. In the framework of this analysis, additiona research will be carried out concerning the effects that the social environment (including such factors such as ecological) has on social policy, and how they affect government social security systems and welfare transfers efficiency. 2. The international financial crisis resulted in an unequal workforce layoff between the different sectors of the economy. The project will carry out a detailed analysis of the labour market and workforce, specifically the dynamics of employment, workforce activity, and the creation of additional jobs in the economy. The research will provide the main priorities, goals, and practical mechanisms for the creation of modern, highly paid job positions in the economy, and suggested regulatory influence by the government required to alleviate the job market problems. 3. We are planning to study the accessibility of higher professional education to different social and demographic groups of population under conditions of strong differentiation in the incomes of population and inequality in socio-economic development of the regions of contemporary Russia.
Description of scientific expertise offered	The institute is vastly experienced in research of social and economic problems and welfare state analysis, as well as in the evaluation of the quality of human capital potential and labour workforce. The institute is supported by the Russian State Scientific Fund and by different Russian Ministries (Ministry of Finance, Ministry of Economic Trade and Development, Ministry of Social Development, and otyhers), and numerous experience in working on research projects in this field, funded by said ministries.
Description of technical expertise offered	The projects involves and makes use of the command of modern methods of analysis and evaluation statistical and sociological data processing (regression and cluster analysis), as well as methods of mathematical modeling.
Description of requested partner scientific expertise	All requested partners of the institute have considerable expertise in their respective areas of research and a long history of cooperation with our institute.
	The researchers of the Institute and its partners use contemporary methods of qualitative and

Description of requested partner technical expertise	quantitive analysis, methods of statistical and mathematical modeling
Potential partners (name, organisation, address …)	1. Institut National d'Etudes Démographiques 133, boulevard Davout 75980 Paris Cédex 20 France; http://www.ined.fr/ 2. Tallinn Institute of Economy and Management of the Republic of Estonia Prof. Baranov Hanon. Erika 7a, 10416, Tallinn 3. Institute of Economics of Equal Opportunities and Cohesion Prof. O.G. Racauskene. Kodas 300102079 Justiniškių g. 31–13, LT–05121 Vilnius, tel.: (8-5)212 63 17, faks.: (8-5)212 63 17, el. paštas: lgsei@lgsei.lt

Switzerland

Dr Christoph Glauser

PARTICIPANT			
Gender	☐ Mr X	☐ Ms	Title Dr.
First name	Glauser		
Last name	Christoph		
Position	Director		

ORGANISATION DETAILS				
Organisation name	Institute for applied argumentation research IFAAR			
Street *	Mülinenstrasse 3			
ZIP * 3006	City * Berne		Country * CH	
Phone * ++41 31 351 02 20		Fax ++41 31 351 04 84		
Email *		Web		
Employees	☐ 1-10	☐ 11 - 50 X	☐ 51 - 250	☐ 250 +
Organisation type	X Higher Education Institution	☐ Research Institution	☐ Industry ☐ SME	☐ other
Department	Computer Science			
Short description of your company or organization	IFAAR is a co-operative society based in Bern, primarily specialising in eGovernment-, eGovernance- and web-Research. Since 1994 the private non-profit research institute has been developing computer-based systems for digital content analysis of media, news, web content and websites. Additionally, the IFAAR conducts scientific basic research in the field of search engines, eGovernment, web research, website analyses and digital find engines, seen as counterparts to search engines. Founded in 1994 by the political scientist and media researcher Dr. Christoph Glauser, the IFAAR and the research methodologies developed at the IFAAR are world-wide leading in digital content analysis. The IFAAR does research for national and international institutions, administrations, universities, colleges of higher education, NGOs and NPOs. The IFAAR accompanies public campaigns and offers basic research and evaluation competencies in the fields of eGovernment and eGovernance**.** IFAAR has acquired considerable experience and demonstrated high performance in managing a variety of extensive and complex governmental and non-governmental projects. Most of the evaluation skills are simultaneously taught to students of five different Universities in Switzerland in three different languages In October 2007 the Institute for Applied Argumentation Research, IFAAR, was officially included on the list of service providers of the European Commission Joint Research Centre (JRC), Seville. The IFAAR has been accepted on the list for the following fields of research: 2.1 – Foresight on information society technologies and key applications in Europe; 2.2 – Information and communication technologies – prospective on R&D. Cyber security and identity; 6 – Support to research policy (including human resources and universities): analysis and prospective; 7 – Economics of technical change; 9 – Cost-benefit analysis; 10 – Social dimension of sustainable development, including structural unemployment. IFAAR is actually leading an			

	international project funded by the Swiss National Science Foundation SNSF together with the Swis Federal Institute of Technology in Lausanne and with Lomonosov University in Moscow. For more information on IFAAR experiences see www.ifaa.ch/en/conferences.html

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system ☐
Areas of activity *(Free keywords)* e-Governance, evaluation of public administrations (PA)

PROJECT IDEA(S)	
Short description of project	Systematic comparative e-Governance benchmarks for Russia and Europe
Description of scientific expertise offered	IFAAR runs an European network of 30 Universities in 27 countries. Its expertise is basically to measure fair benchmarks in e-Governance in all European languages including Russian.
Description of technical expertise offered	The institute has a long term experience in measuring and assessing e-Governance activities of all kind. It is running it's own systems for computer based content analysis and is constantly developing new tools for measuring the online activities of governments and PA's.

Description of requested partner scientific expertise	From several earlier STREP projects IFAAR maintains an exhaustive experts network covering whole Europe. Dr. Glauser from IFAAR has also been appointed as a judge by the European Commission for the EU e-Government Award 2009. From the ongoing SNSF project it also cooperates with EPFL and with University of Moscow (Lomonosov).
Description of requested partner technical expertise	The experts for software engineering are partly available at IFAAR but external partners also provide tools and expertise to the projects depending on the specific needs and skills.
Potential partners (name, organisation, address …)	The list of partners will be depending on the projects scope and on the choice of countries under survey. It will be provided in a final version of a proposal.

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PROFILE FORM

PARTICIPANT			
Gender	☐ Mr	☐ Ms	Title Prof. Dr.
First name	Ms Elena		
Last name	Andreeva		
Position	the Head of the Human Potential Development Centre		

ORGANISATION DETAILS				
Organisation name	Institute of Economics, the Urals branch of Russian Academy of Sceinces			
Street *	Moskovskaya 29			
ZIP * 620014	City * Yekaterinburg		Country * Russia	
Phone * +7 343 3713 815, +7 922 606 9211		Fax +7 343 3713 815		
Email * elenandr@mail.ru		Web www.uiec.ru		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250 X	☐ 250 +
Organisation type	☐ Higher Education Institution	☒ Research Institution	☐ Industry	☐ SME ☐ other
Department	Socioeconomic Systems Development Department			
Short description of your company or organization	The Institute of Economics at the Russian Academy of Sciences Ural branch is the largest regional research centre specializing in modern ural complex studies, the latter being a unique natural, geographic, social and economic phenomenon in all its diversity in terms of a broad socio-economic approach. It was established in Sverdlovsk (Yekaterinburg) in 1971. At present the staff of the institute consists of more than 120 people including 1 Academician, 1 officially granted Member of Russian Academy of Sceinces, over 30 Doctors of sciences and over 80 PhD. The institute main research trends are as follows: • theoretical basics and applied issues of social policy and state policy at regional labour markets; • economics and state regulation of comprehensive natural resources use; • theoretical and practical problems of the RF economic security; • the RF integration into global and regional socio-economic processes; • socio-economic systems and institutions evolution and reformation; • human potential development policy; • scientific basics of finance, credit-monetary and price politics.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"

Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☒ Labour, labour market, and employment ☐ Transformation of the educational system ☐
Areas of activity *(Free keywords)* social models, welfare state, globalization, national economic space, multi-ethnic space, socioeconomic development

PROJECT IDEA(S)	
Short description of project	Construction of sustainable social models of multi-ethnic economic spaces development
Description of scientific expertise offered	The Socioeconomic Systems Development Department has researches social aspects analysis within the economic growth, human potential development, economic policy in the sphere of standards of living, social prognosys etc. The Institute has research contacts with the leading branch institutes, Russian and foreign universities, research organizations in Germany, France, Poland, Italy, Irland, Slovakia, Slovenia, Brazil etc. In 2007, 2009 and 2010 we published a number of scientific works in collaboration with our international colleagues including the requested partners from Germany and France. The articles collected in the book "International Integration and National Development concerned the following problems: on the one hand, all regions and their representatives in modern world participate actively in global competition process, and on the other hand, they simultaneously build up and strengthen their country competitiveness. The purpose of the collected articles is determining the compatibility of the two major trends of social development today: international integration and preserving of national and regional identity. In 2010 we had organised a Russian-German scientific seminar on transformation and modernization problems of the two countries economy „Analyzing Socioeconomic Inequalities within the Context of 20 Years of National Economic System Transformations" where took part our requested partners.
Description of	System analysis, comparative analysis, marketing research , models construction, English and German languages, PC users skills etc.

technical expertise offered	The Institute has all the equipment needed: working places with computers, telephones and faxes, WLAN available etc.
Description of requested partner scientific expertise (France)	Ivan Samson is Professor of social sciences, transition and development economist, Director from 2004 to 2009 of Espace Europe research Institute at UPMF University, Grenoble. He promotes as much as possible multidisciplinary approach of social phenomena. He is working as expert since 25 years, advising governments about national and regional development policies, especially in CIS since 1992 and in Northern and Western Africa. Ivan Samson is economic advisor expert in drafting economic policy strategies and providing recommendations. He started in the early 90's by analysing the process of German unification and Eastern transition. He made panel surveys about economic, politic and identity behaviours of East-German population in 1992-1993.He became acquainted with the activities of provision policy advice in the EU Tacis project PROMETEE 1993-1996 with the Institute of Egor Gaidar, Russian Prime Minister, and as RECEP (Russian-European Centre for Economic Policy) director in Moscow 2000-2002. He continued high level analytical and advisory activities in several countries like Moldova, Khazakstan, Algeria and Georgia. In all these situations he participated directly, mainly within EC project, in the processes of State transformation.
Description of requested partner technical expertise (France)	System analysis, comparative analysis, marketing research , models construction, English languages, PC users skills etc. The Institute has all the equipment needed: working places with computers, telephones and faxes, WLAN available etc.
Description of requested partner scientific expertise (Germany)	Specialization in the various economic models in operation including the French, German, Russian and Anglo-Saxon models. Some of the latest publications of Gerard Cullen are "From Socialism to Capitalism: How Saxony, Germany, is developing today. The Specifics of Economic Development in Saxony", "Cross-cultural Implications: Europe & Globalization".
Description of requested partner technical expertise (Germany)	System analysis, comparative analysis, marketing research , models construction, English languages, PC users skills etc. The Institute has all the equipment needed: working places with computers, telephones and faxes, WLAN available etc.
PARTNERS	
Partners' names, organizations and addresses	Ivan Samson, Espace Europe Research Institute, University Pierre Mendes France Grenoble (Espace Europe 151 rue des Universites, St Martin d'Heres, 38400 France)
	Gerard Cullen, Technische Universitat Dresden (Mommsenstrasse 13, Dresden, 01062 Germany)

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PROFILE FORM

PARTICIPANT			
Gender	☐ Mr	☐ Ms	Title Professor
First name	Evgeny		
Last name	Bojko		
Position	Department Head		

ORGANISATION DETAILS				
Organisation name Institute of Physiology Ural Division Russian Academy of Sciences				
50, Pervomaiskaya st				
ZIP *167982	City * Syktyvkar		Country * Russia	
Phone * +7 8212-241474		Fax +7-8212-447890		
Email * erbojko@physiol.komisc.ru		Web http://www.komisc.ru/en/if/index.html		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	☐ Research Institution	☐ Industry	☐ SME ☐ other
Department	Ecologycal ans Social Physiology of Human			
Short description of your company or organization	**The basic directions of scientific activity** – ecological and physiology of man in Circumpolar area and in extreme environmental conditions include in polluted area under activity of oil and Gaz industry and trees manufacturing industry – the effect on human population			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐

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Material sciences connected with energy convergion and storage ☐

3. Research on serious human health problems
viral infections: HIV and Hepatitis ☐
auto-immune diseases ☐
neurodegenerative diseases ☐

4. Contemporary socio-economic studies
Social security systems and welfare state (in the context of globalization) ☐
Labour, labour market, and employment ☐
Transformation of the educational system ☐

1) Areas of activity *(Free keywords)* Human Circumpolar area well-being Active engagement in Arctic Medical and Social Research since 1987. Areas of interest include human physiology and m etabolism and social effect in conditi ons of Nor th and under the influence of unfavorable anthropological (indus trial) factors presented in the North; endocrine status, lipid m etabolism, vitam in levels in hea lthy hum an and am ong patients with specific pathology.

PROJECT IDEA(S)	
Short description of project	**Adapting to Environmental Changes: Health conditions, Human Security and Socio-Cultural adaptations to Environmental change in the Circumpolar Area.** A Comparative Approach to an Analysis of Impacts of Oil and Gas Activities on Human Security in the Komi Republic, Russia and Lofoten, Norway
Description of scientific expertise offered	
Description of technical expertise offered	
Description of requested partner scientific expertise	
Description of requested partner technical expertise	
PARTNERS	
Partners' names, organizations and addresses	Gunhild Hoogensen, Ph.D Associate Professor Department of Political Science University of Tromsø 9037 Tromsø Norway tel: +47 77645593

	fax: +47 77644905 mob: +47 97145942

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PROFILE FORM

PARTICIPANT			
Gender	☐ Mr	☒ Ms	Title PhD
First name	Kcenya		
Last name	Mjachina		
Position	Researcher		

ORGANISATION DETAILS				
Organisation name	Institute of Steppe of Ural Branch of Russian Academy of Sciences			
Street *	Pionerskaya			
ZIP * 460000	City * Orenburg		Country * Russian Federation	
Phone * +7 3532 776247		Fax +7 3532 774432		
Email * orensteppe@mail.ru		Web **www.orensteppe.ru**		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	☒ Research Institution	☐ Industry	☐ SME ☐ other
Department	Ural Branch of Russian Academy of Sciences			
Short description of your company or organization	The institute of steppe of the Ural branch of the Russian Academy of Sciences functions in Orenburg with 1.01.1997. It is created as structural division of the Ural branch for the purpose of complex studying of steppes of Northern Eurasia as uniform geographical and historical and cultural space. The Scientifically-methodical management of Institute carry out the Branch of sciences about the Earth of the Russian Academy of Sciences and the Incorporated academic council on sciences about the Earth of the Russian Academy of Sciences.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change**

biodiversity and ecophysiology of natural ecosystems ☒
climate change in the artic and subartic regions ☐
Material sciences connected with energy convergion and storage ☐

3. Research on serious human health problems
viral infections: HIV and Hepatitis ☐
auto-immune diseases ☐
neurodegenerative diseases ☐

4. Contemporary socio-economic studies
Social security systems and welfare state (in the context of globalization) ☒
Labour, labour market, and employment ☐
Transformation of the educational system ☐

Areas of activity *(Free keywords)*

Directions of scientific activity of Institute of steppe UrO of the Russian Academy of Sciences:
- Protection of landscapes and rational use of natural resources;
- Pollution and ecological risks, the analysis and risk management;
- Modifications of natural systems and their ecological analysis;
- Droughty ecosystems and risk of their desertification;
- A role of a biological variety in ecosystem functioning;
- Change and erosion of soils under the influence of external factors;
- Water resources, the analysis of their condition;
- Stability of natural complexes and stability factors;
- Preserving of a natural heritage;
- Development of strategy of a sustainable development of territories;
- Complex studying of transboundary territories;
- Territory socio-economic analysis;

etc.

PROJECT IDEA(S)	
Short description of project	**Expertise offered:** - The complex analysis of factors of differentiation of modern landscapes of a steppe zone and adjacent Territories (including definition of parameters of a drain, a deflation and desertification); - Working out of methodological approaches and an estimation of transformation of the natural complexes which are under the influence of various anthropogenous factors; - Monitoring of components of landscape sphere and working out of a cadastre of valuable soil and vegetative objects, definition of scientifically-legal bases of their protection; - Working out of strategy of maintenance of ecological stability of steppe, semidesertic and forest-steppe regions; - The decision of ecology-geographical problems of rationalization of wildlife management including a substantiation of optimum structure of landscape-ground fund and modes of steppe wildlife management; - The analysis of aspects of social and economic differentiation of regions, working out and optimization of indicators of a sustainable development of territory.

Description of scientific expertise offered	
Description of technical expertise offered	
Description of requested partner scientific expertise	
Description of requested partner technical expertise	
PARTNERS	
Partners' names, organizations and addresses	

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PROFILE FORM

PARTICIPANT			
Gender	☐ Mr	☐ Ms	Title Dr.
First name	Alexander		
Last name	Tarasyev		
Position	Head of Sector of the Dynamic Systems Department, IMM UrB RAS		

ORGANISATION DETAILS				
Organisation name	Institute of Mathematics and Mechanics, Ural Branch, Russian Academy of Sciences (IMM UrB RAS)			
Street * S. Kovalevskay str. 16				
ZIP * 620990	City * Ekaterinburg		Country * Russia	
Phone * +7 343 3753504		Fax +7 343 3742581		
Email * tam@imm.uran.ru		Web www.imm.uran.ru		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	☒ Research Institution	☐ Industry	☐ SME ☐ other
Department	Dynamic Systems Department			
Short description of your company or organization	The Institute of Mathematics and Mechanics is a scientific research organization covering important directions of modern and classic mathematics: mathematical theory of control processes, analytical and numerical methods of continuum mechanics, the theory of ill-posed problems and generalized functions, the theory of approximation of functions and operators, methods of convex optimization and pattern recognition, in the field of modern algebra and topology.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change**

biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☒ Labour, labour market, and employment ☒ Transformation of the educational system ☐
Areas of activity *(Free keywords)* Modeling of Economic Systems, Optimal Control Theory

PROJECT IDEA(S)	
Short description of project	Title: "Integrated Socio-Economic Modeling for Analysis of Countries' Sustainable Development" Abstract: An integrated modeling approach is suggested for generating and justifying scenarios for sustainable development in a region. The ultimate goal is to provide a visible contribution to the area of integrated assessment of regional development policies. The following three principles lie in the background of the proposed analysis. First, the structure of the regional economies is uncovered by introducing layers of economic factors, including the externalities. Second, an economy's policy is identified with a strategy for investment in economic factors. Third, it is envisaged that the economies interact under complex socio-environmental constraints. It is expected that a series of integrated socio-economic assessment models will be created basing on modern tools of dynamic programming, optimal control and differential games. The models will be econometrically identified basing on real data for specific case studies of countries' sustainable development. The project's deliverables will include a decision support tool allowing the users (potentially, policy makers) to generate and assess alternative regional development policies.
Description of scientific expertise offered	Scientific expertise lies in the field of the mathematical theory of optimal control and its application to modeling of economic processes. The project group has a good experience in modeling economic growth trajectories for US, Japan, European countries basing on data bases of the International Institute for Applied Systems Analysis (IIASA, Laxenburg, Austria) and Business School INSEAD (Paris, France). An important research is implemented for dynamic optimization of investment processes in new technologies with application to case studies provided by the Tokyo Institute of Technology (Japan). Applied research focuses on model and data base analysis of economic development of Japan at the level of the county, the country's economy sectors, and large firms. Another research direction is connected with application of differential games technique to modeling competition of large scale projects such as gas pipeline networks. In the last period (5 years), the project group has a solid publication list: 3 refereed books (including the book in the Springer series "Dynamic Modeling and Econometrics in Economics and Finance"), over 50 papers in refereed journals.
Description of technical expertise offered	

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Description of requested partner scientific expertise	Scientific expertise of partners includes both mathematical fields: optimization methods, optimal control, ill-posed and inverse problems, dynamic and differential games, economic and environmental applications; and disciplines in economics and statistical methods: public economics (e.g. optimal taxation, seigniorage), international economics (e.g. trade theory, economic integration, exchange rate dynamics), labor economics (e.g. labor unions, collective bargaining), economic growth and cycles, econometrics.
Description of requested partner technical expertise	
PARTNERS	
Partners' names, organizations and addresses	Professor Arkady Kryazhimskiy International Institute for Applied Systems Analysis Laxenburg, Austria Tel: +43 2236 807361 Fax: +43 2236 71313 Email: kryazhim@iiasa.ac.at
	Professor Tapio Palokangas University of Helsinki Helsinki, Finland Tel: +358 (0)9 191 28735 Fax: +358 (0)9 191 28736 Email: tapio.palokangas@helsinki.fi
	Prof. Stefan Pickl Universität der Bundeswehr München, Germany Tel: 089/6004 2400 Fax: 089/6004 3036 Email: stefan.pickl@unibw.de

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PROFILE FORM

PARTICIPANT			
Gender	☉ Mr	○ Ms	Title D.Sc, Professor
First name	Sviatoslav		
Last name	Timashev		
Position	Director		

ORGANISATION DETAILS				
Organisation name	Science and Engineering Center "Reliability and Safety of Large Systems and Machines" Ural Branch Russian Academy of Sciences (SEC UB RAS)			
Street *	54A Studencheskaya St.			
ZIP * 620049	City * Ekaterinburg		Country * Russia	
Phone * 8 (343) 3741682		Fax 8 (343) 3741682		
Email * sec@wekt.ru		Web wekt.ru		
Employees	○ 1-10	◉ 11 - 50	○ 51 - 250	○ 250 +
Organisation type	☐ Higher Education Institution	☒ Research Institution	☐ Industry	☐ SME ☐ other
Department	--			
Short description of your company or organization	Science and Engineering Center "Reliability and Safety of Large Systems and Machines" Ural Branch Russian Academy of Sciences is a R&D institution which conducts systemic interdisciplinary fundamental and applied research in the area of reliability and safety of large systems of the "society – human – infrastructure - environment (SHIE)" type, and applies results of this research to various systems of interdependent critical infrastructures.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise: "*Predictive Management of Territorial Risk, Based on the Maximal Social Utility Criterion*"
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ 2. Environmental research and climatic change biodiversity and ecophysiology of natural ecosystems ☐

climate change in the artic and subarctic regions ☐ Material sciences connected with energy converging and storage ☐ 3. Research on serious human health problems viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ 4. Contemporary socio-economic studies Social security systems and welfare state (in the context of globalization) ☒ Labour, labour market, and employment ☐ Transformation of the educational system ☐
Areas of activity *(Free keywords)* Reliability, safety, territorial risk, territorial entropy, critical infrastructures, potentially dangerous objects, human factor, life quality index

PROJECT IDEA(S)	
Short description of project	The project is aimed at conducting interdisciplinary research which would provide *predictive quantitative measure of how territorial risk (TR) is connected with and affecting the life expectancy (LE) of population of the same territory, and the territorial life quality index* (*TLQI*). Here and hereafter "*territory*" means a region, municipality, or a potentially dangerous object (PDO). The *territorial risk* is mainly the risk which is posed by the systems of critical interconnected infrastructures (SCI), which are located in the territory. In this project CIs are any complex systems which provide for the safety, security and well being of the population of the region, or systems which are responsible for effective operation of potentially dangerous objects, territory, or a branch of industry. The *TLQI* convolutes into one parameter the regional *LE*, the refined *regional domestic product* (*RDP*), and *the working time WT* that a statistically average person, living in a particular region, spends during his life *to provide for his own well being*. The *TLQI* permits seamless convolution of the systems reliability and safety with economical parameters of their operation, and with the social aspects of sustainable development of the territory *in the context of globalization*, and suits as a versatile tool for managing regional risk. Indeed, using the TLQI as a yardstick permits the regional decision making persons (*DMPs*) to conduct balanced risk, *RDP* and *LE* based policy and governance of the private, municipal, and state property, which is located in the territory. In other words, the goal of this project is to explore how managing territorial (regional) risk, (i.e., compounded risk as related to a region, city, or a potentially dangerous object (PDO) can influence the life expectancy of the people who live in that region, and the growth of the RDP. It is planned that the risk analysis of the SCIs will also be conducted using the *entropy principle, and the informational energy paradigm*. Modern physics provides a useful tool to convolute *all* engineering and scientific parameters, as related to a system, into one - the entropy principle. Currently, entropy is used to optimize transportation problems and to deal with information, communication and interaction problems. By this token, entropy seems to be a universal parameter, ideally fit to solve the problem in consideration. One of the main ideas of this research is to use the entropy principle across the board of the interdisciplinary study of the regional resilience and the sustainability of

	interdependent CIs throughout the full set of problems that should be solved. By doing this the curse of dimension would be avoided, as the multi dimensionality will be resolved and the problem boiled down to a *one dimension* problem. At the same time all types of measures of different engineering problems involved will be brought to the one dimensionless parameter - entropy, and associated informational energy. Its correlation with risk probability will be established. In order to account for the human factor (HF), the concept of" willingness to pay" will be used. It will seamlessly introduce into consideration the cost of life/limb, without performing the assessment of the cost itself, and construct the *TLQI* needed for solving the corresponding optimization problems. Currently, to our knowledge, there has not been an attempt made to use the entropy principle as a universal tool for solving multi-dimensional interdisciplinary problems. Three years of research conducted by the SEC UB RAS shows that implementation of this principle permits establishing new types of early diagnostics and monitoring of the IC resilience; finding the correlation between the limit states of ICIs and the corresponding level of entropy; assessing the ultimate permissible levels of thermodynamic, information, human and sociological, communications entropies et.al., for different types of ICIs, without compromising their resilience and preparedness. It also permits addressing the question of the dependence of human behavior entropy on different sources of stress and physical exhaustion. *The basic hypothesis of the project is that the LE, TLQI and Territorial Entropy (TE) can serve as near ideal integral parameters, which define the quality of governance of a region and the quality of life of its population.* The ultimate goal of the project is to prove this concept and create a practical tool for supporting risk based governance decisions regarding a territory or region. This tool should consist of a set of algorithms and programs, which would provide *DMPs* of the territorial/regional caliber with a practical tool, which would allow them to *conduct predictive management of territorial risk, based on the maximal social utility principle.* The project will establish the correlation between the level of technological risk and the life expectancy. The project will also use the *TLQI* for optimizing the level of territorial risk with respect to other societal needs, including the RDP growth. A GIS (Geographic Information System) will be attached customizing results and information needed to local and regional decision makers, by means of advanced computer visualization and communications simulation. There are two approaches to building such a tool. One of them could be called the "from bottom up" model; the second one could be characterized as the"from top to bottom" model. The first one builds the regional risk assessment and the regional resilience algorithm using as its "bricks" corresponding results of solutions of problems that relate to elements of critical infrastructures, and, finally, systems of CIs. The second approach largely ignores the small scale events and zeroes in on only such events that are of regional scale. Although both approaches have the right to exist, as they have both advantages and disadvantages, in this project the first approach will be predominantly used. Regional resilience is dependent on multiple parameters, most of which are random variables (RV), random functions or random fields (RF). It also is an explicit function of time. Therefore, resilience is also a time dependent RV or RF. In this part of research the novel "from bottom up" approach will be explored to establish, in stochastic terms, the quantitative definitions of regional resilience, robustness and strategic preparedness, implementing the concept of entropy. Along with this, the principal feasibility of solving the problem in consideration in the outlined manner will be explored, and the presence of knowledge gaps checked. Strategic preparedness would be defined as a complex characteristic of a region, which resilience parameters are not less than some benchmark values. The latter could be obtained through solving corresponding optimization problems or real life statistics. In the relation to the above, two optimization problems are formulated by SEC UB RAS and are currently in the process of

being solved, using nonlinear programming and discrete optimization theory:

1) With given means for improving CI's safety choose from a set a number of measures that maximizes reduction of incident probability, and

2) With minimal expenditures choose from a set a number of measures, implementation of which lowers the incident probability to an acceptable level.

The project intends to benefit both from using the Russian and the International/ European approach to the safety of critical infrastructures systems as related to industrial and natural disasters. In this content the project will use the international codes and safety rules as well as the currently institutionalized series of Federal laws and EMERCOM (Russian analog of FEMA) regulations and ruling documents. According to these laws and documents, every entity which is considered a potentially dangerous object (PDO) is *obliged* to provide a declaration and a passport of its safety, and a risk map, which depicts the individual risk in the territory of the site and its surroundings. These documents contain a chapter which describes, in quantitative terms, the operational risk of this entity, and a chapter that describes the means that are needed for mitigating the catastrophe (earth moving and other types of machines, transportation, materials, workforce, and financial means) for the worst case scenario and the average scenario. The risk (failure) analysis is conducted using a set of state approved recommended practices (RP's).

These RP's are based on solutions of relevant problems of fracture mechanics, blast, fire, spill, filtration, water and air pollution, and descriptions of their consequences in typical scenario settings. These RP's also provide some guidelines as to how assess the number of fatalities and the monetary value of lost life or limb. The RP's also prescribe how to assess the damage inflicted by a catastrophe and to present the collective risk specific for the PDO in consideration.

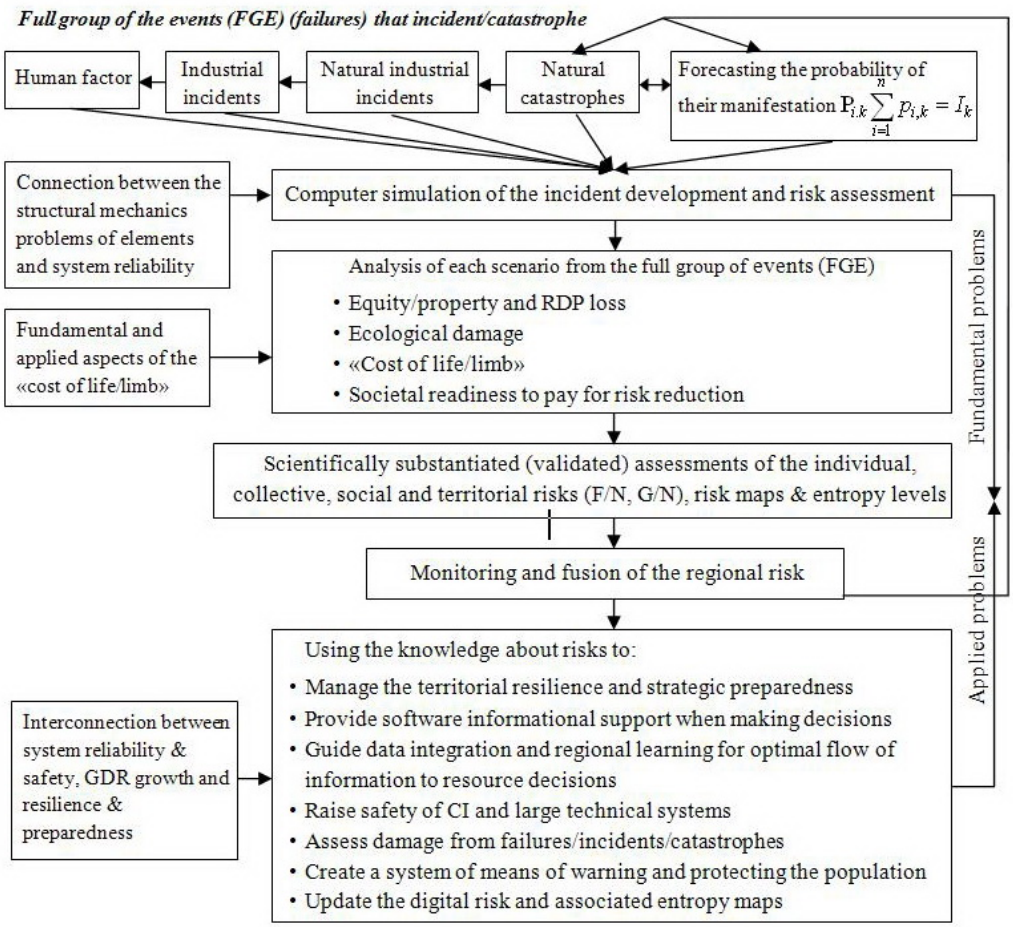
The main intellectual problem of predicting, monitoring and managing dynamic integral territorial risk as related to systems of interdependent CIs, and assessing regional resilience and sustainability lies in three main issues:

1) The dimension of the problem is huge (could be tens of thousands of interdependent parameters;

2) The problem is multi-disciplinary, and the parameters involved when solving the problem are from different sciences and branches of engineering, and therefore, as a rule, currently are non-convolutable;

3) The operational risk of ICI, and their resilience and strategic preparedness cannot be adequately described without explicitly accounting for the HF.

The proposed Model Flow Chart for assessing the dynamic integral territorial risk and its components for decision-based data integration for optimizing regional governance is shown in the figure below.

	
Description of scientific expertise offered	SEC UB RAS is providing scientific expertise in the fields of: - risk assessment of interdependent critical infrastructures, subjected to technological, natural risks and vandalism; - algorithms for using the entropy principle as applied to systems of CIs to assess the level of operational risk; - algorithms for assessing the territorial risk using the “from bottom up” approach; --optimization algorithms for defining the scope and volume of needed risk mitigation means; - methodology for assessing the size of the damages, incurred by CIs failure; - algorithms for the risk based managing of territorial risks
Description of technical expertise offered	SEC UB RAS is providing the technical expertise in the following fields: - calculation of the individual and collective risks for the employees of potentially dangerous objects (PDOs), located in the territory, and for the population which lives in the vicinity of the PDOs; - create territorial risk maps using the GPS and GIS technology; - assessing the scope and volume of needed preventive and mitigation means to minimize the consequences of a technological failure or catastrophe;
Description of requested partner scientific expertise	SEC UB RAS is requesting from the potential partner the following scientific expertise: - new ideas in the field already covered by previous research conducted by the SEC UB RAS; - methodology and regulation of the distribution of the regional domestic product among the following three components: accumulation of wealth; consumption; protection of the population of the territory against all types of risk; - choosing a model of a territory and SCIs for application of the risk based governance;

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Description of requested partner technical expertise	SEC UB RAS is requesting from the potential partner the technical expertise in the field of: - new tools in the field already covered by the previous research conducted by the SEC UB RAS; - practical data collection and analysis of data related to life expectancy and RDP; - establishing correlation between the life expectancy and wealth accumulation, consumption, and expenditures for providing needed level of safety; - computer software which permits risk scenario building and quantifying different parts of the solution (if available and possible);
PARTNERS	
Partners' names, organizations and addresses	Adrian V. Gheorghe, Professor, Dr. - Faculty of Business Engineering and Management (FAIMA), University Politehnica, Spl. Independentei 313, Sector 6, Bucharest, Romania - Honorary President EURISC Foundation, Bucharest, Romania adriangheorghe9145@gmail.com, Margot Weijnen, Professor, Dr. Faculty of Technology and Management,Technical University of Delft, 2600 GB Delft,The Netherlands, "Weijnen, Margot" <M.P.C.Weijnen@tudelft.nl>,

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28 February 2011, Ekaterinburg, Brokerage Event
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For Collaborative S&T Projects

PROFILE FORM

PARTICIPANT			
Gender	☐ Mr	☐ Ms	Title PhD
First name	Pavel		
Last name	Velmovsky		
Position	The deputy director on researches		

ORGANISATION DETAILS				
Organisation name	Institute of Steppe of Ural Branch of Russian Academy of Sciences			
Street *	Pionerskaya			
ZIP * 460000	City * Orenburg		Country * Russian Federation	
Phone * +7 3532 776247		Fax +7 3532 774432		
Email * orensteppe@mail.ru		Web **www.orensteppe.ru**		
Employees	☐ 1-10	☐ 11 - 50	☑ 51 - 250	☐ 250 +
Organisation type	☐ Higher Education Institution	☒ Research Institution	☐ Industry	☐ SME ☐ other
Department	Ural Branch of Russian Academy of Sciences			
Short description of your company or organization	The institute of steppe of the Ural branch of the Russian Academy of Sciences functions in Orenburg with 1.01.1997. It is created as structural division of the Ural branch for the purpose of complex studying of steppes of Northern Eurasia as uniform geographical and historical and cultural space. The Scientifically-methodical management of Institute carry out the Branch of sciences about the Earth of the Russian Academy of Sciences and the Incorporated academic council on sciences about the Earth of the Russian Academy of Sciences.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☒

climate change in the artic and subartic regions ☐
Material sciences connected with energy convergion and storage ☐

3. Research on serious human health problems
viral infections: HIV and Hepatitis ☐
auto-immune diseases ☐
neurodegenerative diseases ☐

4. Contemporary socio-economic studies
Social security systems and welfare state (in the context of globalization) ☒
Labour, labour market, and employment ☐
Transformation of the educational system ☐

Areas of activity *(Free keywords)*

Directions of scientific activity of Institute of steppe UrO of the Russian Academy of Sciences:
- Protection of landscapes and rational use of natural resources;
- Pollution and ecological risks, the analysis and risk management;
- Modifications of natural systems and their ecological analysis;
- Droughty ecosystems and risk of their desertification;
- A role of a biological variety in ecosystem functioning;
- Change and erosion of soils under the influence of external factors;
- Water resources, the analysis of their condition;
- Stability of natural complexes and stability factors;
- Preserving of a natural heritage;
- Development of strategy of a sustainable development of territories;
- Complex studying of transboundary territories;
- Territory socio-economic analysis;
etc.

PROJECT IDEA(S)	
Short description of project	**Expertise offered:** - The complex analysis of factors of differentiation of modern landscapes of a steppe zone and adjacent Territories (including definition of parameters of a drain, a deflation and desertification); - Working out of methodological approaches and an estimation of transformation of the natural complexes which are under the influence of various anthropogenous factors; - Monitoring of components of landscape sphere and working out of a cadastre of valuable soil and vegetative objects, definition of scientifically-legal bases of their protection; - Working out of strategy of maintenance of ecological stability of steppe, semidesertic and forest-steppe regions; - The decision of ecology-geographical problems of rationalization of wildlife management including a substantiation of optimum structure of landscape-ground fund and modes of steppe wildlife management; - The analysis of aspects of social and economic differentiation of regions, working out and optimization of indicators of a sustainable development of territory.
Description of scientific expertise offered	

Description of technical expertise offered	
Description of requested partner scientific expertise	
Description of requested partner technical expertise	
PARTNERS	
Partners' names, organizations and addresses	

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PROFILE FORM

PARTICIPANT			
Gender		☐ Ms	Title Dr.
First name	Olga		
Last name	Marchenko		
Position	Research Associate		

ORGANISATION DETAILS				
Organisation name	Center of Experimental Psychology, Moscow State University of Psychology and Education			
Street *	2A Shelepihinskaya Embankment			
ZIP *123390	City * Moscow		Country *Russia	
Phone *+74992594281		Fax +74992594281		
Email * olga.marchenko@psyexp.ru, olga.marchenko@yahoo.com		Web www.psyexp.ru		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☒ Higher Education Institution	☒ Research Institution	☐ Industry	☐ SME ☐ other
Department	Center of Experimental Psychology			
Short description of your company or organization	Center of Experimental Psychology is a research organization which is based on Moscow State University of Psychology and Education			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐

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Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system ☒
Areas of activity *(Free keywords)* Experimental psychology, Cognitive psychology, Psychophysiology, Cognitive Neuroscience, Psycholinguistics, Pedagogics.

PROJECT IDEA(S)	
Short description of project	During the educational process concepts undergo restructuring. This project is aimed to investigate how the grounding of conceptual content and it's embodiment could affect conceptual change and, if due to received results a transformation of Education System is needed.
Description of scientific expertise offered	Wide experience of experimental work in Cognitive Psychology, Psycholinguistics and Cognitive Neuroscience, familiarity with current studies and theoretical perspectives in these fields.
Description of technical expertise offered	Able to carry out different type of experimental work and use wide range of methods for studying human behavior and brain activity: an EEG (electroencephalogram), SCR (skin conductance response), EKG(electrocardiogram), Respiratory activity etc., different behavioral methods, questionnaires; familiar with different statistical methods and programs for data analysis. All listed electrophysiological equipment is available.
Description of requested partner scientific expertise	
Description of requested partner technical expertise	
Potential partners (name, organisation, address …)	

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SEVENTH FRAMEWORK PROGRAMME

ERA.Net-RUS Pilot Joint Call
For Collaborative S&T Projects

PROFILE FORM

PARTICIPANT			
Gender	Mr	☐ Ms	Title Stimulation of creating spin-off companies in universities
First name	Konstantin		
Last name	Grasmik		
Position	Assistant professor		

ORGANISATION DETAILS				
Organisation name	Omsk State University by F.M.Dostoevsky			
Street Prospect Mira, 55a*				
ZIP 644077*	City Omsk*		Country Russia*	
Phone (3812) 67-01-06*		Fax (3812) 67-37-99		
Email grasmikki@omsu.ru*		Web www.fmb.omsu.omskreg.ru		
Employees	☐ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	☒ Higher Education Institution	☐ Research Institution	☐ Industry	☐ SME ☐ other
Department	Faculty of International Business			
Short description of your company or organization	OmSU is of middle extent. There are all necessary elements of scientific infrastructure for conducting research in social sciences, for example good library, access to some foreign databases of articles (Emerald, EBSCO) and Russian (elibrary.ru, UIS Russia, public.ru and so on). There are TTO and youth business-incubator in OmSU. Also university has stable relations with regional business-incubator. In accordance with federal Law №217 7 spin-offs were created in OmSU.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐

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3. Research on serious human health problems
viral infections: HIV and Hepatitis ☐
auto-immune diseases ☐
neurodegenerative diseases ☐

4. Contemporary socio-economic studies
Social security systems and welfare state (in the context of globalization) ☐
Labour, labour market, and employment ☐
Transformation of the educational system ☒

Areas of activity *(Free keywords)*	Innovaton, research university, spin-off, regional innovation systems

PROJECT IDEA(S)	
Short description of project	It is supposed to research factors, influencing the creation and development of spin-off companies in universities.
Description of scientific expertise offered	I already made sociological research of innovation activity os high-tech SME of Omsk, Russia (two rounds in 2006 and 2010 y). The relations in triangle "scholar-university-investor" were also explored.
Description of technical expertise offered	I have unlimited free access to Internet, to databases of articles (www.elibrary.ru, EBSCO, Sage, C+ - Russian legislature and others). Also I can work with SPSS.
Description of requested partner scientific expertise	They should have experience in carring out sociological research and executing econometric analysis. Also have good relations with employees of TTO and spin-offs.
Description of requested partner technical expertise	Access to Internet, scientific and statistical databases.
Potential partners (name, organisation, address …)	1. Center for Research on Activity, Development and Learning P.O Box 26 (Teollisuuskatu 23-25) FI-00014 University of Helsinki, Finland phone: +358 9 191 44275 2. Einar Rasmussen Bodø Graduate School of Business N-8049 Bodø Norway Email: einar.rasmussen@hibo.no 3. Kathrin Müller Centre for European Economic Research) Mannheim, Germany Email: info@zew.de Phone: +49/621/1235-01

	Fax: +49/621/1235-224 Postal: L 7,1; D - 68161 Mannheim

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PROFILE FORM

PARTICIPANT			
Gender	X Mr	○ Ms	Title Prof. Dr.
First name	Lothar		
Last name	Heinrich		
Position	CEO		

ORGANISATION DETAILS				
Organisation name	marcotech oHG Marketing, Controlling & Technology Management			
Street *	Heisenbergstr. 11			
ZIP * 48149	City * Muenster		Country * Germany	
Phone * +49 251 836 3410		Fax +49 251 836 3412		
Email * lothar.heinrich@marcotech.de		Web www.marcotech.de		
Employees	X 1-10	○ 11 - 50	○ 51 - 250	○ 250 +
Organisation type	☐ Higher Education Institution	☐ Research Institution	☐ Industry	X SME ☐ other
Department	Scientific-technical coaching			
Short description of your company or organization	marcotech provides training programmes for professionals and students in the field of applied nanotechnology, nanoanalytics and material processing.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials X quantum optics ☐ **2. Environmental research and cl matic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐

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Material sciences connected with energy convergion and storage ☐ **3. Research on serious human health problems** viral infections: HIV and Hepatitis ☐ auto-immune diseases ☐ neurodegenerative diseases ☐ **4. Contemporary socio-economic studies** Social security systems and welfare state (in the context of globalization) ☐ Labour, labour market, and employment ☐ Transformation of the educational system X	
Areas of activity *(Free keywords)*	nanotechnology, nano-engineered catalysts, nanoparticles, nanotechnology for medicine

PROJECT IDEA(S)	
Short description of project	Organization and creation of an international educational and training school (or bilaterally organised with Russian partners) for applied nanotechnology in order to intensify the transfer of scientific results to innovative nano-enabled products. A combination with a virtual training centre (electronic access) served by international experts is considered.
Description of scientific expertise offered	Scientific and practical experiences of many years in industrial heterogeneous catalysis, successful research projects on nano-enabled catalysts for oil processing, as well as on drug-delivery systems; lectureship on medical technology at the University Muenster (Germany) and Kiev (Ukraine).
Description of technical expertise offered	Preparation of inorganic and organic nanomaterials, modified heterogeneous catalysts, mechanical and chemical modification of materials, development of technical processes and economic analysis; additional: experienced in trainings and conference organization; laboratory provides devices for the preparation and modification of nanoparticles, analytical methods like DLS, SEM, TEM, AFM and typical spectroscopy.
Description of requested partner scientific expertise	Experienced in applied nanotechnology (catalysis, medical application, polymer chemistry) and modern educational methods
Description of requested partner technical expertise	Partners should provide experiences based on own equipment and projects, as well as should be familiar with the process development in industrial scale. Experiences in collaboration with industrial partners would be useful. Furthermore, the partners should provide expertise in distant learning, teaching and trainings, and should be ready and equipped for the joint development of a virtual training centre.
Potential partners (name, organisation, address ...)	Prof. W. Reschetilowski, Institute for Industrial Chemistry, Dresden University of Technology, 01062 Dresden (Germany); Dr. Oleg L. Khasanov, Tomsk Polytechnical University, Centre Nanomaterials & Nanotechnologies (Russia); Dr. Gabriele Gorzka, Ost-West-Wissenschaftszentrum University Kassel (Germany); Prof. Dr. Y. Tretyakov, Dept. Material Science, Moscow State University (Russia); Prof. P. Kopjev, Ioffe Institute, Saint Peterburg (Russia); Boreskov Institute for Catlysis, Novosibirsk (Russia); Dr. P. Grambow, Nanoinitiative Bayern GmbH, 97218 Gerbrunn (Germany); Dr. H. Winter, Center for Nanotechnology, Heisenbergstr. 11, 48149 Muenster (Germany)

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SEVENTH FRAMEWORK PROGRAMME

ERA.Net-RUS Pilot Joint Call
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PROFILE FORM

EXPERT DETAILS			
Gender	☐ Mr	+ Ms	Title PhD
First name	Elena		
Last name	Filatova		
Position	the associated professor		

ORGANISATION DETAILS				
Organisation name	Kemerovo State University			
Street *	Krasnaya street, 6			
ZIP * 650047	City * Kemerovo		Country * Russian Federation	
Phone * (384-2)75-22-25		Fax		
Email * cm@kemcity.ru		Web www.kemsu.ru		
Employees	+ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	+ Higher Education Institution	☐ Research Institution	☐ Industry ☐ SME	☐ other
Department	the Department of Psychology and Social Work			
Short description of your company or organization	The University was founded in 1946. It consists of 13 Departments. The University is the noncommercial organization created for rendering the educational services and conducting investigations.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐

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3. Research on serious human health problems
viral infections: HIV and Hepatitis ☐
auto-immune diseases ☐
neurodegenerative diseases ☐

4. Contemporary socio-economic studies
Social security systems and welfare state (in the context of globalization) ☐
Labour, labour market, and employment ☐
Transformation of the educational system +

Areas of activity *(Free keywords)* professional training, two-level training, bachelors and masters, lifelong learning, evaluation of the levels of the professional competence, information computing assistance.

PROJECT IDEA(S)	
Short description of project	Criteria for Professional Competence of Bachelors and Masters in Social Work The urgency of professional education of specialists in social work in Russia especially the problem of professional competence formation is conditioned by the following circumstances: - Firstly, there has been no special training for specialists in social work in our country until 1993. This has resulted in situation when people engaged in social work have no specialized education. - Secondly, processes of upgrading the social sphere have demanded from specialists implementing of functions for which they are not quite prepared. The review of their current performance shows that they are not quite prepared from professional point of view to perform the indicated tasks. The conducted study in professional performance of social service staff, professional complications and educational requirements of the specialists allowed identifying of a group of contradictions stipulating the urgency of the problem and requiring its solution: -Between growing demand to social service staff performance and continued stereotypes of work stipulated by insufficient level of their professional competence; -Between recognition by specialists of need and requirement to have a professional competence and insufficient development of scientifically substantiated recommendations on organization of this process in the system of professional education; -Between high demands to professional activity and low awareness of future specialists – university students – on content of professional activity of social workers;

	- Between social problems in place and insufficient preparedness of social workers to their solution and interference due to insufficient development of the content, organizational forms, methods of competence formation. The indicated contradictions are surmountable and related to solution of the *problem* of our study: What are the theoretical basics, pedagogical conditions and means of social worker competence formation. At transition on two-level training it is necessary to create the following conditions: • Increasing of students' self-direction; • Involving of credit system; • Using of intensive education technologies; • Organizing of social partnership between Higher education establishment and employers/social services. Solution of most important and acute social problems is closely connected with the issues of theoretical and practical training of social workers, their status, organizational structure of professional institutions and the system of further training.
Description of scientific expertise offered	The aim of the project is the development of substantial, organizational and methodological process supplying of two-level social workers training. For this aim achievement it is supposed to use the following methods: the training programs for teachers of Russian Higher education establishment, the development of training program substance.
Description of technical expertise offered	Development of mathematical model for evaluation of the levels of the professional competence
Description of requested partner scientific expertise	The experience of development of content of stage-wise education based on standards of professional activity; development of main criteria and indicators of professional competence of a social worker; involving the credit system; training and re-training of social workers.
Description of requested partner technical expertise	The experience in the integration of information and special disciplines; in the evaluation of the levels of the professional competence
Potential partners (name, organisation, address …)	Department of Social Sciences, University of Turin Centre for Policy on Ageing, London, UK School of Health and Social Welfare, Open University London, UK Careers National Association UK Centre for Environmental and Social Studies in Ageing, University of North London UK

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PROFILE FORM

EXPERT DETAILS			
Gender	☐ Mr	+ Ms	Title PhD
First name	Elena		
Last name	Filatova		
Position	the associated professor		

ORGANISATION DETAILS				
Organisation name	Kemerovo State University			
Street *	Krasnaya street, 6			
ZIP * 650047	City * Kemerovo		Country * Russian Federation	
Phone * (384-2)75-22-25		Fax		
Email * cm@kemcity.ru		Web www.kemsu.ru		
Employees	+ 1-10	☐ 11 - 50	☐ 51 - 250	☐ 250 +
Organisation type	+ Higher Education Institution	☐ Research Institution	☐ Industry ☐ SME	☐ other
Department	the Department of Psychology and Social Work			
Short description of your company or organization	The University was founded in 1946. It consists of 13 Departments. The University is the noncommercial organization created for rendering the educational services and conducting investigations.			

TOPICS OF INTEREST REGARDING THE CALL IN "COLLABORATIVE S&T PROJECTS"
Sub-topic of exercise
1. Innovative materials and cutting edge technological processes ultrahigh-power laser sources ☐ intelligent materials and nanomaterials ☐ quantum optics ☐ **2. Environmental research and climatic change** biodiversity and ecophysiology of natural ecosystems ☐ climate change in the artic and subartic regions ☐ Material sciences connected with energy convergion and storage ☐

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3. Research on serious human health problems
viral infections: HIV and Hepatitis ☐
auto-immune diseases ☐
neurodegenerative diseases ☐

4. Contemporary socio-economic studies
Social security systems and welfare state (in the context of globalization) ☐
Labour, labour market, and employment ☐
Transformation of the educational system +

Areas of activity *(Free keywords)* professional training, two-level training, bachelors and masters, lifelong learning, evaluation of the levels of the professional competence, information computing assistance.

PROJECT IDEA(S)	
Short description of project	Criteria for Professional Competence of Bachelors and Masters in Social Work The urgency of professional education of specialists in social work in Russia especially the problem of professional competence formation is conditioned by the following circumstances: - Firstly, there has been no special training for specialists in social work in our country until 1993. This has resulted in situation when people engaged in social work have no specialized education. - Secondly, processes of upgrading the social sphere have demanded from specialists implementing of functions for which they are not quite prepared. The review of their current performance shows that they are not quite prepared from professional point of view to perform the indicated tasks. The conducted study in professional performance of social service staff, professional complications and educational requirements of the specialists allowed identifying of a group of contradictions stipulating the urgency of the problem and requiring its solution: -Between growing demand to social service staff performance and continued stereotypes of work stipulated by insufficient level of their professional competence; -Between recognition by specialists of need and requirement to have a professional competence and insufficient development of scientifically substantiated recommendations on organization of this process in the system of professional education; -Between high demands to professional activity and low awareness of future specialists – university students – on content of professional activity of social workers;

	- Between social problems in place and insufficient preparedness of social workers to their solution and interference due to insufficient development of the content, organizational forms, methods of competence formation. The indicated contradictions are surmountable and related to solution of the *problem* of our study: What are the theoretical basics, pedagogical conditions and means of social worker competence formation. At transition on two-level training it is necessary to create the following conditions: • Increasing of students' self-direction; • Involving of credit system; • Using of intensive education technologies; • Organizing of social partnership between Higher education establishment and employers/social services. Solution of most important and acute social problems is closely connected with the issues of theoretical and practical training of social workers, their status, organizational structure of professional institutions and the system of further training.
Description of scientific expertise offered	The aim of the project is the development of substantial, organizational and methodological process supplying of two-level social workers training. For this aim achievement it is supposed to use the following methods: the training programs for teachers of Russian Higher education establishment, the development of training program substance.
Description of technical expertise offered	Development of mathematical model for evaluation of the levels of the professional competence
Description of requested partner scientific expertise	The experience of development of content of stage-wise education based on standards of professional activity; development of main criteria and indicators of professional competence of a social worker; involving the credit system; training and re-training of social workers.
Description of requested partner technical expertise	The experience in the integration of information and special disciplines; in the evaluation of the levels of the professional competence
Potential partners (name, organisation, address …)	Department of Social Sciences, University of Turin Centre for Policy on Ageing, London, UK School of Health and Social Welfare, Open University London, UK Careers National Association UK Centre for Environmental and Social Studies in Ageing, University of North London UK