

Scientific research of the SCO countries: synergy and integration

October 29, 2019. Part 2

Поле	Значение
Объект №1	
Заголовок	ECONOMIC TOOLS OF ENTERPRISE MANAGEMENT
Аннотация	The article considers the main economic tools for managing a catering enterprise, in particular pricing and planning. Management tools are applied on the example of a projected enterprise.
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Объект №2

Заголовок	INSTABILITY AND PROSPECTS OF RUSSIAN ECONOMY
Аннотация	The article analyzes the instability and prospects of the Russian economy, taking into account the opinions and analytical data of the Russian Ministry of Economic Development, the Central Bank of Russia and expert scientists.
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Объект №3

Заголовок	PARTICIPATION IN THE NEW SILK ROAD PROJECT AS A WAY TO PRESERVE THE NATIONAL LANGUAGE
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Аннотация	In modern conditions of global peace, for countries of the catching up type of development, gravitating toward a raw material type of economy, threats to national security and the preservation of national sovereignty are more acute than ever. Their attempts to participate in integration associations and international organizations do not solve the problem of catastrophic desertification of the corresponding economic and cultural space. As an option, it is not so much a reserve of economic development of the countries of the postSoviet region as the salvation of their cultural identity and linguistic identity, the project The Foundation of Cooperation Respect for National Authenticity is proposed, which can be implemented within the framework of the format developed in 2013 by the PRC The New Silk Road.
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Объект №4

Заголовок	ASSESSMENT OF THE ECONOMIC POTENTIAL OF MODERN CONSUMER COOPERATIVES
Аннотация	Assessment of the economic potential of modern consumer cooperation is formed by means of providing employment, as well as growth of rural population incomes, attracting agricultural products, raw materials and wild plants to economic turnover, production of goods and services with subsequent transition to the sphere of consumption, satisfying consumers needs, forming part of their profitability . Modern consumer cooperation in Russia is based primarily on consumer associations and their unions, scientific and educational institutions of the Central region of the Russian Federation, as well as on cooperative organizations of republics, regions, etc. In order for a cooperative to successfully carry out its activities, it needs government support and a consistent economic policy so that the business is competitive and able to meet the needs of people whose needs are changing in difficult economic, political and other conditions.
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Объект №5	
Заголовок	INNOVATION AND TECHNOLOGICAL POTENTIAL OF ENTREPRENEURSHIP
Аннотация	The article discusses the basic conditions that determine the innovative and technological potential of entrepreneurship. The characteristic of the innovative potential of the enterprise is presented. The features of the functioning of small innovative enterprises on a practical example are considered.
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Объект №6	
Заголовок	LEGISLATIVE REGULATION OF THE PROBABILITY OF BANKRUPTCY IN HOUSING
Аннотация	In the context of the economic crisis and the sanction blockades declared by the West, bankruptcy cases of construction organizations became quite frequent and, therefore, equity holders are deprived of the opportunity to purchase an apartment in a house that has been completed by construction, acquiring instead the right to a part of the unfinished building project. In this case, there are also other, very diverse cases of violation of the rights and legitimate interests of participants in shared construction. The article examines the measures of the legislation of the Russian Federation to combat bankruptcy in housing.
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Объект №7	
Заголовок	STATE AND INDIVIDUAL IN THE INTERPRETATION OF P.I. NOVGORODTSEV

Аннотация

The concept of correlation of state and individual is an independent theoretical problem of statelegal structures, in particular, of the 19th20th centuries. Most lawyers of this time were inclined to think that the state was one: it knows no dualism of the sovereign and the people, power and law, as it was in the Middle Ages. At the same time, within the state, this dualism is manifested and has not only historical, as Jellinek claimed, but of fundamental importance. The fact is that in modern times, unlike the ancient period of the existence of the state, a legal claim arose for a certain sphere of freedom in relation to the state. Even in the era of state absolutism, as noted by P.I. Novgorodtsev, it was impossible to suppress the belief that the individual and in relation to the state represents a selfsufficient and therefore due and legal value¹ . As for the opposition of power and personality, government and people at the beginning of the 20th century, it was believed by Kants supporters in Russia that it was not so much defeated as it was enclosed in a framework of legitimate manifestation. The dualism of the state and the individual, general law and individual freedom can be overcome only by the requirement of legal consciousness the moral restrictions that stand above the state. Thus, the law receives its legal existence on the basis of state recognition. But to admit does not mean to create and bring to life in this case, according to Novgorodtsev, recognition of the necessary selfrestraint of the state also has significance. Individual freedom exists beyond this recognition, but in order for the freedom of persons, which exists as an inevitable fact and as a moral requirement, to be fixed by law, a complex process of struggle for freedom against the constraints imposed on it is necessary. The recognition of freedom means the states renunciation of previous encroachments on the rights of individuals and, then, confirmation of these rights for the future. Therefore, on the part of the state, it is negative: it means nothing more than an official confirmation of a fact that requires its sanction with all the force of an unconditional life phenomenon

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Объект №8

Заголовок	LAW CULTURE: THE PROBLEM OF DEFINING CRITERIA
Аннотация	he article provides a general definition of culture and notes the features of the formation of the concept of legal culture in Russian legal science. It shows the uncertainty of the criteria by which the values of the content of the legal culture are highlighted in modern Russian legal literature. As a universal basis for determining the values of legal culture, a criterion is proposed for the correspondence or proximity of elements of legal reality to the essentially necessary parameters of law, its objective laws.
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Объект №9	
Заголовок	PRIVATE TUTORING AS A MANIFESTATION OF THE SUBJECTIVE POSITION OF HIGH SCHOOL STUDENTS
Аннотация	At present, individual tutoring with a private teacher in the subjects of the school curriculum are very popular among students of educational organizations. This phenomenon is not new, both for Russia and for foreign countries, however, as researchers note, in the last two decades it has become widespread, which confirms the relevance of this topic. The novelty lies in the idea of using the potential of tutoring classes not only to solve problems of increasing student learning and increasing the amount of academic knowledge, but also to develop the personal qualities of the child. The article presents a look at tutoring classes as a learning process aimed at the formation and development of the subjective position of students.
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Объект №10	
Заголовок	THE HEALTH OF THE POPULATION OF THE REGIONS OF THE EASTERN ARCTIC OF RUSSIA
Аннотация	The studies we conducted to observe the adaptation of the population to modern living conditions in the regions of the Eastern Arctic of Russia showed that the local population experiences significant difficulties in adapting to life in the North. At present (20072018), the potential for the health of the population living in these Arctic territories is low and demonstrates rather high rates of child and adult morbidity and mortality, which indicates low levels of adaptation of the local population to extreme environmental conditions.
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Объект №11	
Заголовок	M.O. MENSHIKOV'S SOCIAL-PHILOSOPHICAL SEARCHES GENERATED BY THE REVOLUTIONARY EXTREMISM OF 1917
Аннотация	Evolution of public views of the prominent Russian publicist of the beginning of the 20th century M.O. Menshikov, which reflected the process of changing the social and political situation in the country on the eve of the October Revolution. In the last years of his life in the epoch of revolutionary extremism M.O. Menshikov tried to find a recipe for public happiness, thinking about capitalism and socialism, about their role in creating a just and prosperous society in the country and in the world, but the rough reality of the civil war tragically ended the social and philosophical quest of M.O. Menshikov.
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Объект №12	
Заголовок	ON SOME APPROACHES TO UNDERSTANDING OF THE INTEGRITY OF BEING
Аннотация	The article talks about the actualization of the problem of being in modern conditions, about integrity as the law of being and its conceptual expression in the principle of unity, their role in the knowledge of the world. About approaches to understanding cognition that have developed in philosophical and scientific thought, about the beingness of consciousness, selfawareness, reflection. About ancient Indian, ancient Chinese, ancient Greek wisdom, about Russian ancient philosophy. On the correlation of the categories of the whole and the sole in the knowledge of being. About the need to develop a modern holistic worldview.
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Объект №13	
Заголовок	VIRTUAL POSSIBILITIES IN COMMUNICATION OF TEACHER WITH STUDENTS
Аннотация	<p>In the proposed article, the authors intend to show that the communication process is not only diachronous, that is, temporary, but also manifests itself in modal parameters related to the imposition of the personality on the real existence and the manifestation in it of the mass of possibilities that a person experiences not only in real life, but also represents in his imagination, in the space of the spirit, illusory and ideal. Or: not directly face to face, but as a communicative imitation among models, images and signs. Now it is commonly called virtual reality. It is also shown that the subject of dialogue can be: a person, a social group, an official institution. In philosophical typologies, a direct and indirect dialogue can be distinguished. In direct dialogue, people participate in communication activities. Transformed and mediated interaction shows the dialogue of subjects separated in space or in time. In the modern world, with the development of information technologies, the possibilities of dialogue have reached a new interactive level, when virtual reality breaks into a multiplicative dialogue.</p>
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Объект №14	
Заголовок	CONTRIBUTION OF RS1048943 POLYMORPHISM OF THE CYP1A1 -462 T>C GENE TO THE DEVELOPMENT OF ACUTE PANCREATITIS AND ITS COMPLICATIONS

Аннотация	<p>The goal is to study the effect of rs1048943 polymorphism of the CYP1A1462 T C gene on the development of acute pancreatitis and its complications in the Russian population. Whole blood samples were collected from 502 patients with acute pancreatitis and 513 healthy individuals. Genotyping of the rs1048943 polymorphism of the CYP1A1 gene was performed using the PCR method with discrimination of alleles using TaqMan probes. In the present work, we studied the contribution of rs1048943 polymorphism of the CYP1A1462 T C gene to the development of acute pancreatitis and its complications, we did not find an association of polymorphism with the development of acute pancreatitis, however, we identified an association of the C/C genotype of rs1048943 polymorphism of the CYP1A1462 T C gene with the increased risk of developing acute fluid accumulation (pseudocyst) and sepsis with purulentnecrotic peripancreatitis.</p>
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Объект №15	
Заголовок	ANALYSIS OF CHRONIC ADENOIDITIS INCIDENCE IN CHILDREN IN THE ORYOL REGION OF THE RUSSIAN FEDERATION
Аннотация	Chronic inflammatory pathology of the pharyngeal lymphoid tissue in children play a major role in prevalence in pediatric otorhinolaryngology. In this work, we analyze of the structure of pathology, comorbidity and results of treatment of patients with chronic adenoiditis treated in Z.I.Kroglova scientific clinical multisectoral medical center of Orel region Russian Federation.
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Объект №16	
Заголовок	ANALYSIS OF STABLE NITRIC OXIDE METABOLITES LEVEL IN MESENTERIC THROMBOSIS MODEL AND CORRECTION OF ITS PATHOLOGICAL EFFECTS BY ISCHEMIC PRECONDITIONING
Аннотация	Ischemic and reperfusion lesions play one of the most important roles in the pathogenesis of many diseases. Ischemic preconditioning helps to reduce the pathological effects of ischemia on tissues. In order to study the mechanisms of the protective effect of ischemic preconditioning, we determined the level of stable nitric oxide metabolites in the simulation of acute mesenteric thrombosis. The data obtained indicate significant fluctuations in the level of stable nitric oxide metabolites during the simulation of acute mesenteric thrombosis, as well as episodes of ischemia and reperfusion, which indicates the activation of extraorgan NO synthases.
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Объект №17

Заголовок	RESPONSE OF ABDOMINAL ORGANS MICROCIRCULATION TO THE RECOMBINANT ERYTHROPOIETIN ACTION IN ISCHEMIA AND REPERFUSION
Аннотация	We investigated the reaction of the microcirculation bed of the abdominal organs to ischemic and reperfusion injury in the conditions of its correction with erythropoietin. Transient hyperemia absence after ischemia/reperfusion at early stages was determined. Erythropoietin administration prevents transient hyperemia development after period of ischemia in liver and small intestine but increase blood flow velocity in pancreas.
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Объект №18	
Заголовок	VARIANTS IN GLUTATHIONE SYNTHETASE (GSS) GENE CONFER PROTECTION AGAINST DIABETIC FOOT SYNDROME

<p>Аннотация</p>	<p>Oxidative stress is an important factor for development of type 2 diabetes and diabetes complications. Glutathione synthetase (GSS) is the key enzyme of antioxidant system. Single nucleotide polymorphisms in the GSS gene can affect redox balance and determine development of the disease complications. However, data on the association between GSS variants and diabetic foot syndrome (DFS) are scarce. The aim of this study was to investigate whether polymorphisms rs1801310 and rs13041792 in the GSS gene are associated with DFS in diabetic patients. A total of 977 unrelated diabetic patients, including 85 patients with DFS, were recruited for the study. Genotyping of SNPs was performed with the use of iPLEX technology on a MassArray Analyzer 4 genomic mass spectrometer. Statistical analysis was done using online tool SNPStats. Five genetic models were tested: codominant, dominant, recessive, overdominant, and logadditive. Genotype A/A rs1801310 (OR 0,41 95CI 0,180,97, P0,023) was associated with reduced risk of DFS. The GA haplotype, including reference allele of rs13041792 and protective allele of rs1801310, was associated with decreased risk of developing DFS (OR 0.68, 95CI 0,47 0,99), P0,042). According to GTEx portal data, allele A rs1801310 increases expression of the GSS gene in multiple tissues, thus protecting them from the damaging effects of reactive oxygen species excessively produced in T2D. The study demonstrates for the first time that gene encoding glutathione synthetase confers protection against DFS in diabetic patients.</p>
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Объект №19	
Заголовок	REGULARITIES OF LYME DISEASE FOCI FORMATION AND THEIR MONITORING

Аннотация	This survey summarizes results of Lyme disease investigations made by foreign scientists, and scientists of our country, and also the research workers practices of Russian Research Institute of Game Management and Fur Farming. Lyme disease is counted among the most frequently encountered natural focal infections in the world. The incidence of this disease in the Russian Federation is reported everywhere. The tick studies showed that the Borrelia infection rate among ticks was 44.9. The carried out research revealed that the highest sickness rate with Lyme disease was detected in mountain hare (<i>Lepus timidus</i> L.) 52.7 and fox (<i>Vulpes vulpes</i> L.) 38.4. This rate was somewhat lower with raccoon dog (<i>Nyctereutes procyonoides</i> Gray) and elk. Among bacterial BSKH broth platings of freeliving species internals Borrelia was marked out of heart of Eurasian badger (<i>Meles meles</i> L.), liver and spleen of a wild boar (<i>Sus scrofa</i> L.).
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Объект №20	
Заголовок	SEX HORMONE DYNAMICS IN THE BLOOD SERUM OF FEMALE BLUE FOX (VULPES LAGOPUS) DEPENDING ON AGE AND SEASON

<p>Аннотация</p>	<p>The article presents a comparative analysis of changes in the concentration of progesterone and estradiol in female blue fox (<i>Vulpes lagopus</i>). Work on the collection of biomaterial was carried out in Zverokhozyaystvo Vyatka LLC of the Kirov oblast, Russia. We studied the blood serum of adults and the current year of birth of female foxes (16 goals). The research methodology is based on enzyme immunoassay. As a result of studies, it was found that the content of progesterone in female blue fox in the first months of life in the blood was low, gradually increasing during the development of the animal, reaching maximum values by December. In adult females, the concentration of progesterone was low in summer and autumn, but higher than in puppies at the same time. By December, there is an increase in progesterone secretion, reaching high values by the second stage of estrus, which indicates the beginning of ovulation. After ovulation, its level continues to grow for 23 weeks, ultimately reaches maximum values after coating. At all stages of the study, the concentration of progesterone in adult animals was higher than in young animals. The highest concentration of estradiol was noted in September, then it gradually decreased to the rutting period. Over the entire study period, the concentration of estradiol in adult animals was higher than in young animals.</p>
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Объект №21	
Заголовок	THE SECRETORY FUNCTION OF PLATELETS IN PIGLETS OF MILK AND VEGETABLE NUTRITION

Аннотация	<p>Platelets, being one of the components of the homeostasis system, have serious physiological significance in the animal organism. Their functional characteristics largely determine the hemocirculation in the capillaries, and, consequently, the severity of metabolic processes in tissues. Of great importance in the development of piglets during early ontogenesis is the phase of dairy and plant nutrition. The development of the productive characteristics of these animals may depend on the activity of hemostatic mechanisms throughout it. There are reasons to believe that a large functional role in these processes is played by platelet functions that can affect the activity of microcirculation, and, consequently, affect the level of anabolism in tissues and the dynamics of growth in piglets. For this reason, in order to continue the progressive development of the science and practice of pig farming, a study was made of the state of the secretory mechanisms of platelet functioning in piglets that switch from milk to vegetable nutrition. In the work carried out it was found that during the phase of milk and vegetable nutrition in piglets, an increase in the secretory activity of platelets is noted. The mechanisms of this should be considered the development of activation of receptor and postreceptor reactions in piglets at this age, which provide them with increased platelet secretion processes. The basis of this, apparently, lies in the increase in platelets of piglets of milk and vegetable nutrition of cholesterol, the amount of actin, myosin, ADP and the intensification of the secretion of adenosine phosphates. These changes help maintain piglet homeostasis and the optimal level of microcirculation in the tissues during the start of their consumption of plant foods.</p>
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Объект №22	
Заголовок	FEATURES OF PLATELET AGGREGATION FUNCTION IN KHOLMOGORY BREED CALVES DURING THE DAIRY PHASE

Аннотация	<p>The severity of platelet aggregation in different species of productive animals affects the course of microcirculation and the level of trophism in organs, which strongly determines the growth processes. Therefore, the state of platelet aggregation in calves in the second phase of early ontogenesis, belonging to different breeds, is of great interest. The purpose of the work is to elucidate the characteristics of platelet aggregation in calvesmilkmen of Kholmogorsk breed. The work was performed on 42 healthy Kholmogorsk breed calves obtained from completely healthy cows after 2 or 3 pregnancies. Calves were examined five times during work. Biochemical, hematological and statistical research methods were used. In young Kholmogorsky breed during the observation, an increase in platelet aggregation in response to all tested inducers was revealed. In these animals, the number of inactive platelets during the observation period decreased slightly. At the same time, the number of active platelets in their blood increased by 18.1 and the number of platelet aggregates of different sizes increased. These changes were basically based on the examined calves increased thromboxane generation in their platelets due to increased activity of cyclooxygenase and thromboxane synthetase in them. As a result of the study, it became clear that for the young Kholmogorsk breed during the phase of milk feeding, some increase in platelet aggregation is characteristic.</p>
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Объект №23	
Заголовок	AGRICULTURAL NAVIGATION COORDINATE SYSTEMS
Аннотация	Automatic control of the motion paths of selfpropelled agricultural machines and machinetractor units (MTU) is carried out in accordance with the program predefined in the rectangular coordinate system OXYZ. The coordinate system is linked to the terrain by linear landmarks along the entire length of the headland and point landmarks in the form of radio navigation reference points. The programming of the trajectories is carried out by the guiding surfaces and lines, which represent the geometrical place of the points satisfying the algorithm for generating the path mismatch signal. Coordinate systems for linking MTU trajectories to terrain should have high longterm stability, versatility, noise immunity, autonomy, efficiency. Only coordinate systems defined by stationary linear landmarks in the form of underground currentcarrying wires satisfy these requirements.
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Объект №24	
Заголовок	FACTORY AND OPERATIONAL FACTORS FOR THE FORMATION OF MAGNETIZATION OF RAIL ENDS AND THE NEED TO DEVELOP A NEW TECHNOLOGY OF DEMAGNETIZATION OF RAIL METAL
Аннотация	The article analyzes the main factors of magnetization of the ends of the rail, both factory and operational. The analysis and enumeration of existing methods of demagnetization are given. The necessity of creating a new demagnetization technique is substantiated.
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Объект №25	
Заголовок	BUILDING A MODEL OF THE SOLUTION AREA FOR THE PROBLEM OF TRANSPORTING IMPURITIES IN THE ATMOSPHERE BASED ON THE ANALYSIS OF SATELLITE IMAGES

Аннотация	The article discusses the approach to constructing a model of the domain for solving the problem of transporting impurities in the atmosphere based on the analysis of satellite images using machine learning. Aerial photographs of the real area are used as sources. Object recognition is performed using the YOLO classifier using a convolutional neural network. On the constructed model, a numerical calculation is performed.
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Объект №26	

Заголовок	THE BALANCE OF ENVIRONMENTAL AND ECONOMIC INTERESTS IN THE DEVELOPMENT OF THE ARCTIC TERRITORIES OF THE RUSSIAN FAR EAST
Аннотация	The activation and growth of interests in the development of the northern territories formed the problem of choosing the most reasonable, balanced scenario for their development. The purpose of this study is to analyze the environmental and economic situation in these territories and identify possible changes in natural industrial relations. Using the method of statistical analysis, graphic and cartographic methods, the results were obtained: the causes of environmental problems were determined, the characteristic of the ecological state and economic support of environmental protection, the possible environmental consequences are given. The presented study was performed for the first time for the territories under consideration.
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Объект №27	
Заголовок	REDUCING THE LEVEL OF ENVIRONMENTAL HAZARD WHEN LAUNCHING SPACECRAFT FROM THE VOSTOCHNY COSMODROME USING GEOPHYSICAL MONITORING METHODS

Аннотация	<p>The new Russian Vostochny cosmodrome, located in the Far Eastern Federal District, began operations in 2016. Due to strict environmental requirements and in order to minimize the negative impact of space rocket launches on the environment, the task of maximally quickly detecting separating rocket carrier parts in regular fall areas and rocket fragments in emergency situations becomes urgent. Despite the relatively high reliability of modern rocket launchers, more than 2 of all launches are emergency. If accidents occur in the first tens of seconds after the launch, then the failed stages together with the booster block and the spacecraft fall to the earth's surface along the launch path. Such accidents can cause significant harm to the environment, so the urgent task is to quickly search and timely disinfect the territory. At the same time, the territory of a possible fall is stretched several hundred kilometers along the launch route and several tens of kilometers along it, the terrain has elevations and depressions, forests, lakes and swamps, which creates significant difficulties in finding the place of the fall. In this paper, it is shown that the use of geophysical monitoring complexes (seismic and infrasound location complexes) can significantly reduce the prospective search area for fallen fragments of launch vehicles, reducing the time and cost of searching and disposing of them, and thus reduce the level of negative impact of the space rocket industry to the environment.</p>
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Объект №28	
Заголовок	THE BORDER TERRITORIES OF CHINA AND THE SOUTHERN ZONE OF THE RUSSIAN FAR EAST

<p>Аннотация</p>	<p>In the modern world, crossborder (transboundary) regions acquire special significance for optimizing the economy of the country and its individual regions, as well as for realizing its national interests in the international space. Any economic activity is associated with the use of nature, with the emergence of new or the development of old production and natural relations, which inevitably generate a complex of problems and form the ecological state of the territory. In this paper, we consider the border counties of Heilongjiang Province and the regions of the southern regions of the Far East. The material on the natural resource potential of the studied territories, their economic activities was collected and analyzed. In addition, the characteristic of the ecological situation of the territories, as well as some calculated indicators (according to the necessary statistical information available), characterizing the ecological status and economic sufficiency of nature protection activity are given. The uneven economic development of the border territories of the regions of the Far East and Heilongjiang Province and, consequently, the unequal impact of the economic activities of the considered territories on the environment are revealed. It is obvious that there are many factors that determine the further effective cooperation. At the same time, it is pointed out the need for joint projects aimed at methodological development on the basis of a uniform reading of the rules of nature management and sanitary norms. It is also extremely important for crossborder territories, in addition to economic joint projects, to formulate and implement joint projects for the protection of the environment and rational use of natural resources.</p>
<p>Автор 1</p>	<p>Stepanko, N.G.</p>
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<p>DOI</p>	<p>10.34660/INF.2019.20.39885</p>

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Объект №29	
Заголовок	PROSPECTS FOR THE USE OF LAND OF MOUNTAIN RIVER VALLEYS
Аннотация	The article presents the results of studies of the soil cover of the Partizanskaya river valley of Primorsky Krai. The possibility of agricultural use of these territories taking into account their erosion hazard is described: a classification of floodplain soils eroded during floods, a classifier for assessing flood damages for floodplain soils, and soilreclamation zoning of mountain river valleys are developed.
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