Report on the dissemination activities implemented within the 2nd year of the project

New and Innovative Courses for Precision



DISSEMINATION - S. SEIFULLIN KAZAKH AGROTECHNICAL UNIVERSITY

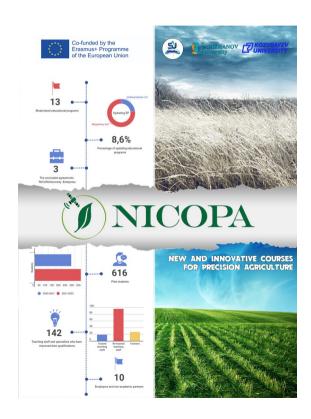
MSc/SARA KITAIBEKOVA



WP4 Dissemination

N≘	Activities	Deadline	
1	Development of information booklets, brochures, posters, newsletters, roll-ups	May-December, 2019/completed	
2	Regional Seminar "Strategy curriculum design based on European good practice and Bologna principles"	May 2019/ completed	<u>``</u>
3	Training "GIS. Precision Agriculture. Remote sensing» at Berlin Technical University	August 2019/ completed	
4	Information Day Erasmus Days "Erasmus for Att"	October 2019/ completed	
5	Dissemination of information after training in Berlin	October 2019/ completed	EEL
6	Participation at the International Conference "A new social dimension in mission and higher education" L.N. Guymilev ENU	October 2019/completed	
7	Re-training for faculty members after training in Berlin	December 2019/completed	
8	Zoom, Skype conference with partner universities of Turkmenistan, Uzbekistan, Kazakhstan, EU	February 2020/completed	THE STATE OF THE S

WP4 Dissemination









WP4 Dissemination (on –line consultations for farmers "Extension-KATU"



NASE

ОНЛАЙН СЕМИНАР ДЛЯ ФЕРМЕРОВ



Время	Тема	Лектор	
11:00 - 11:20	Искусственное осеменение и использование системы «Smaxtec» в скотоводстве	Джакупов Истатай Тусупович — доктор ветеринарных наук, профессор НАО «КАТУ им. С.Сейфуллина»	
11:20 - 11:40	«Smaxtec» – как возможный инструмент в профилактике заразных и незаразных болезней КРС		
11:40 - 12:00	Вопросы, обсуждение		
Дата - 19	мая 2020 года, Ссылка для https://global.gotom/1608660	eeting.com/join	

Динара Набиева: +7 701 299 7799





ОНЛАЙН - СЕМИНАР ДЛЯ ФЕРМЕРОВ



Эффективные системы управления молочным стадом						
Время Тема		Лектор				
11:00 - 11:30	Применение цифровых технологий в управлении молочным стадом	Шайкенова Кымбат Хамитовна – к.с-х.н., доцент НАО «КАТУ им. С.Сейфуллина».				
11:30 - 12:00	Программный продукт «Управление стадом»	Третьяков Игорь Игоревич — руководитель подгруппы информационных технологий, НАО «КАТУ им. С Сейфулдина»				

в рамках ПЦФ МСХ РК на тему «Трансферт и адаптация инновационных технологий для оптимизации производственных процессов на молочных фермах Северного Казахстана»





Ссылка для входа: https://global.gotomeeting.com/join /426844197 Контакты: abstalgat@mail.ru Талғат Абсаттар: +7 775 000 5773 Динара Набиева: +7 701 299 7799







15.10.2020 Global Event Erasmus Days "Key to success through experience", on-

line round table



ONLINE ROUND TABLE "THE KEY TO SUCCESS THROUGH

Date: October 15, 2020

EXPERIENCE"

Venue: Zoom platform, identifier 507 576 5938, access code 532462375

Time: 17:00

Organizer: International Cooperation&Multilingual Education Development Center (IC&MEDC). S. Seifullin Kazakh Agrotechnical University

Aim: familiarization with the best practices for the implementation of EU Erasmus

+ projects, as part of the global event Erasmus Days

Participants: project coordinators, heads of the departments, deans of the faculties, lecturers and students

AGENDA:

1.Participation of S. Seifullin KATU in EU Erasmus + program "Capacity building in higher education"

KitaibekovaS.O., the Head of InternationalCooperation Department, Institutional Erasmus+ coordinator at S. Seifullin KATU

3. Erasmus+: opportunity of cooperation between HEIs of Europe and Kazakhstan

GabrieleComodi, Prof, of Energy System, Coordinator of ASIAXIS project, Marche Polytechnic University, Italy,

4. Development of new and innovative courses in precision agriculture

Satybaldiyeva G.K., the Head of "Ecology" Department, academic manager of NICOPA project

Kitaibekova S.O., the Head of international Cooperation Department, manager of NICOPA project, S. Seifullin KATU

5. Disseminating information about literacy knowledge through the DIREKT Online Platform

 $\label{lem:continuous} O razymbeto va Zh.A., \ the \ Head \ of scientific \ and \ information \ resources \ Department, \\ developer \ of \ DIREKT \ project, S. \ Seifullin KATU$

Meiramova S.A., Director of IC&MEDC

Methodological approaches to the development of modules of third-level educational programs at the universities of Kazakhstan and Russiawithin SAGRIS project

Ismailova A.S., Associate Professor of "Accounting and Audit Department, local coordinator of SAGRIS project. S. Seifullin KATU

7. The significance of the PAWER project results in the development of students' academic mobility

Baitelenova A.A., Associate Professor of Agriculture and Crop ProductionDepartment, local coordinator of PAWER project, S. Seifullin KATU

8. Development of modules for the development of green skills in the framework of the SUSDEV project

NICOPA





20-21.10.2020 Fair of CBHE projects organized by EACEA, NEO in Kazakhstan, Ministry of Education and Science of the Republic of Kazakhstan











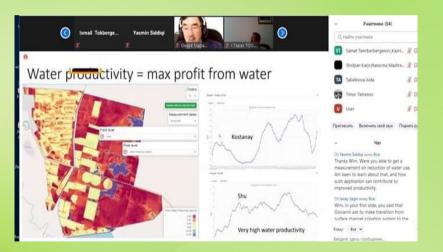






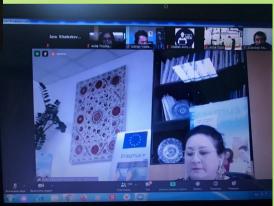


11.09.2020 S. Seifullin Kazakh Agrotechnical University (KATU)the team of NICOPA project jointly with the Asian Development Bank (ADB), organized an online seminar on the topic "Drone and Remote Sensing Technologies for water productivity in agriculture".



19-20.11.2020 the Education Audiovisual and Culture Executive Agency (EACEA) of the European Commission organized an online Regional Cluster Meeting on CBHE Projects Impact in Central Asia. 5 members of EU Erasmus+ NICOPA project took part at cluster Meeting on-line.

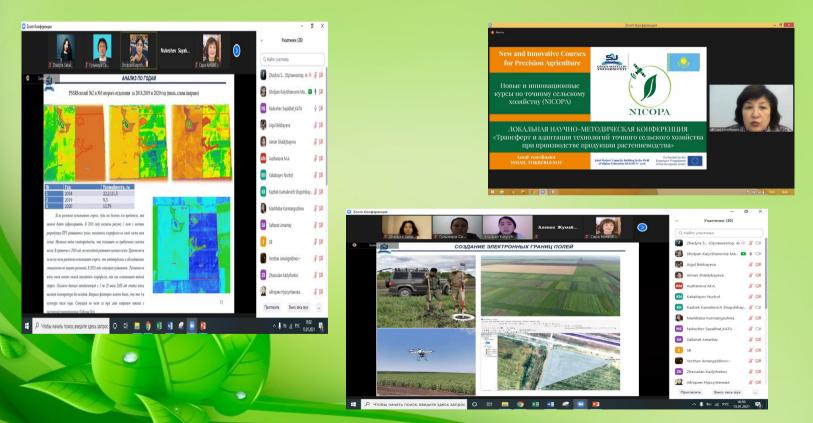




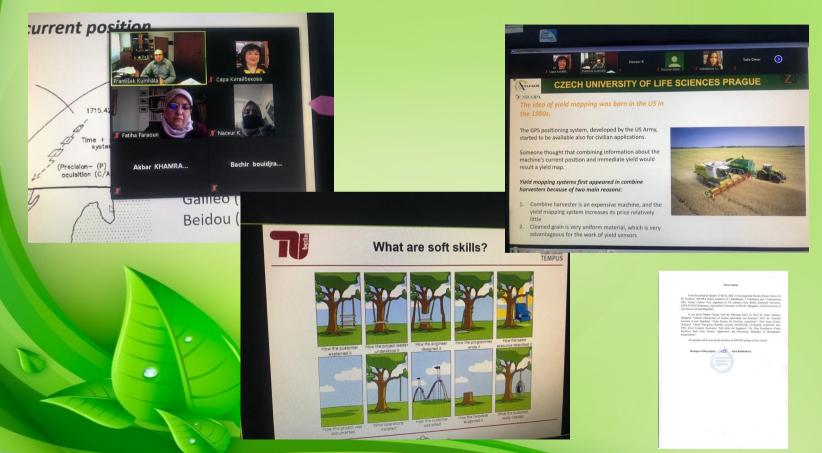
Co-funded by the Erasmus+ Programme of the European Union

13.01.2021 Local conference within EU Erasmus+ NICOPA project "Transfer and adaptation of precision agriculture technologies in the production of crop production"





13-22.01.2021 Master classes conducted by EU HEIs: TUB, EXOLAUNCH, CULS, AUP



Co-funded by the Erasmus+ Programme of the European Union





A Spatiotemporal Assessment of Land Use and Land Cover Changes in Peri-Urban Areas: A Case Study of Arshaly District, Kazakhstan

Onggarbek Alipbeki $^{1,\alpha\odot}$, Chaimgul Alipbekova 3 , Arnold Sterenharz 3 , Zhanat Toleubekova 1 , Metzzhan Aliyev 3 , Nurustian Mineyev 1 and Kalybek Amangaliyev 1

- MORIZAMA ANJOYE', NEWERLEAN BORGYNE' AND ANJOYNE'A MARAGINIYE'

 Department of Land an end Colonols, Schriffen Kazald, Age, Debinated University, Thompis network, St., Non-folked (1900), Kazaldshira, jedelselan-arbinadia (1923), Taratina nazaradymania (1924, A)

 Non-folked (1900), Kazaldshira, jedelselan-arbinadia (1923), Taratina nazaradymania (1924, A)

 Department of High propriotion and Queenerio, Schriffik Kazalds, Age Technical University, Zhengis revenus, GX, Non-folked (1930), Kazaldshira, Gabring-Hilleradia

 ZERCALINICA (1924), Resultion (1831), Sillos Berkin, Censury (1924), Sinto Berkin (1924), Sillos Berkin, Censury (1924), Sillos Be

- University of Berlin, Germany); arrold #9evolaunch.com
 * Correspondence: callebek#mail.rs; Tel.: +7/771506635

Received: 14 January 2020; Accepted: 16 February 2020; Published: 19 February 2020

Abstract: In this study, the spatietemporal dynamics of land use and land over (LULC) were evaluated in the peri-stellane are of the Arabidy district, which boolens the capital of the Regulation of College (1998) and the Regulation of Regulation of Regulation (1998) and the Regulation of Regulation (1998) and the Regulation of Regulation of Regulation of Regulation (1998) and the Regulation of Regulation of Regulation (1998) and the Regulation of Regulation of Regulation (1998) and the Regulati necessor in one area on attacks that and attacks and a restriction in the postures. There was a shape increase in the build-up arough that it, here was an interestication of and one through an increase in the share of analysis land as well as the transformation of agricultural land for development. However, in general, the influence of urban sprand in this peri-urban area has so far been accompanied by only a slight focus on its sustainable development.

Keywerds: land use and land cover; remote sensing; supervised classification; change detection; driving factore; Arshaly district

1. Introduction

Introduction
Libra spears has been observed throughout the world, and there is concern about in impact on per-inflant name (T-lot) [1-1]. Others, per-infraintant cours synthetic name (T-lot) [1-1]. Others, per-infraintant cours synthetic name (T-lot) [1-1]. Others, per-infraintant name (T-lot) [1-1]. This have no subblished to consequence and calls or did not the ten harmonic development of a page 1. This has non subblished to the perinnel of the contraction of the perinnel and except of the (to the contraction of the perinnel and except of the (to the contraction of the perinnel and except perinnel (to the contraction of the contra of Kazakhstan transformed from a provincial regional city into a large metropolis as a result of the combined inteact of the above three factors and became the political, economic, and cultural center of the republic [5], in the adjacent agro-industrial areas, under the influence of the metropolis, certain changes also took judge-during the study period, both under the influence of urban sprand [6] and other factors [7], which still require analysis and evaluation.

Supplied to 2008 17 1556 Augus 2009 of 201556

ARTICLES



um land MDPI

Analysis of Land-Use Change in Shortandy District in Terms of Sustainable Development

Onggarbek Alipbeki ^{1,*}0, Chaimgul Alipbekova ², Amold Sterenharz ³, Zhanat Toleubekova ¹, Saule Makenova 1, Meirzhan Alivey 1 and Nursultan Mineyey 1

- Department of Land Use and Geodese: SSeifullin Kazakh Agro Technical University, Thenis Avenue, 62.
- Department et Land Use and Geology, Schellah Kazalsh Agar Tedraical University, Banes heer New Schella 1981, H. Schalberten jedecheed ones in CR, 2 seed, particular University, Banes heer New Schelland (1981), H. Schalberten (1984), Annualiza, 2988641, p. 1984).
 Department ef Ted Prefersion and Chazartina, 2988641, p. 1984, Agar Schreisel University, Benis News, G., Nave-Schalb 1981, Kazakhara, chazegilibrasilira
 DEVIGALANING London (Episenti Georges) some in Erdevical University of Berlin, Germany, Beachin st. 10, 1985 Berlin, Germany, strende-conflyandor, an
 Cerrosponderec collegiolitudas, 10, 162–1673(1986)

Received: 18 April 2020; Accepted: 7 May 2020; Published: 12 May 2020

Abstract: The suburban territories of large cities are transitional zones where intensive transformations in land use are constantly taking place. Therefore, the presented work is devoted to an integrated assessment of land use changes in the Shortandy district (Kazakhstan) based on an integrated study of the dynamics of land use and sustainable development indicators (SDIs). It was found that the main tendency in the land use of this Peri-urban area (TVA) during 1992-2018 is their intensification. through an increase in anable lands. Kazakhstan only recently started the systematic collection of SDIs. neverging in increase in manuscrains. Adaptions only receiving sourced me systematic conceius to solve according to informational standards. Therefore, to assess the sustainable development of the study area, limited amounts of information were available. Nevertheless, the use of SDIs from 2007 to 2017. are, instead amounts or information sever availation. Nevertheless, the use of both from 200 to 2017, showed that the governth of economic development inthe study area is almost adequately accompanied by an increase in the level of social and environmental development. The methodological approach used can be widely used to assess the sustainable development of specific territories in general and the development of the capital of Kazakhstan and their PUA, in particular.

Keywords: land use change; analyze; sustainable development; Shortandy district

According to the Food and Agriculture Organization (FAO) statement on food security "by 2050, the world's population will grow to almost 10 billion," which will increase food demand by about 50% compared to 2013 [1]. At the same time, the share of the rural population will decrease, and the urban nonulation of the world will much 68% [2]. Increased food production is recommended to be

urran population of the world will make now [-], increased took production is recommended to be accompanied by sustainable agricultural land management [-], including PUA. The purpose of increasing the effectiveness of land use management is to stop or at least slow down the negative impact of land use on natural resources. Moreover, adverse processes are often understood a degastive inpact of incidence. Moreover, Software processes are depositive inpact of incidence of the software processes are depositive inpact of incidence of the software processes are depositive in the software processes are depositive in the software processes and the software quality [7]. In other particular, the processes [16], depictive of scal furtility [7], policy processes [16], depictive of scal furtility processes [16], depictive of scal furtility processes [16], depictive of scal furtility processes [16], depictive pro balance of the entire Earth and the biogeochemical cycles in it, of which 60% are associated with direct human activities (for example, urban spearel and intensification of agriculture) and only 40% with



«Вішівськії Оширок» Фініоборам (АЦРЯВКІ Ошурок» Одівоборам (АЦРЯВКІ Ошурок» Одівоборам (Ацроностройском дологом даказона, часта Междунарацию сопот рабосновного (International Union of Rodicocology). Дуниві предпавательні ВУЗм, станеция Республикацію програма «Белішко», пришає стакарожу в Кифунакцію участує бінацію, пришає стакарожу в Кифунакцію участує (Велиморгиння) по специальніх нібосносної Митронострой в за корушк прима цитра. (ПА за Тарконостою по Першама (Партана), прима Пратана другима пр.). Антор босте (Фінубликації, мист. Херит.)

и формирования пространествленных данных силопров сстроиных сламествлествля опасти содания данныем и опифраструктура пространственных данных были введены в «Закон о космической деятельности (Республык Калыстан».

деятельного Инобасов Комскено.

— В станов «О образова бразов в стране «Дентр гоннформационных с подостибн предолжного ОО органовах парам в стране «Дентр гоннформационных с подостибного
предостибного предостибного должного предостибного
предостибного предостибного должного предостибного
комскено предостибного должного предостибного
комскено Пре должного
комскено предостибного должного
комскено предостибного
предо

олипока ОО. с присением различностветских месков и престрактеления дависах разриботна месковожно списково ровня разромательностя в базаков Сонтактивность и престрактельность под престрактельного под пред престрактельного престрактельност престрактельного петра точного секського колистам, исть которого петра точного секського колистам, исть которого



proposance sp. poors, proposance sp. poors,

АЛИПБЕКОВА Чанигуль Абусагатовна. (ALIPBEKOVA сприні провальнять в тору богое в публиваний платах худові до чля синавнять обисть зінити растиніці добталь МНС, ИС (ВИСХИ МКХ СССР). СИК з учивам сератарне (ВалІВПЯУ) вактумення сеторов ИІР, астарута, ПО досторов при ВИС (КайАУ), а та ж в ВИС А ОНК «Вальстат Ігранії Санара-вії Скамоська (80 достору). Анабеквая ЧА, ответственняй пехонитель в участива серти фунальстатьних, прикадиост ПРІ в бітиле причетов з болаги создани и форморования МПР в бітиле причетов з болаги создани и форморования менення причетов з болаги создания в причетов менення причетов з болаги создания в причетов менення причетов з болаги создания менення причетов з болаги менення з болаги менення причетов з болаги менення причетов з болаги менення з болаги мене РАЗРАБОТКА ПРОСТРАНСТВЕННЫХ) СОЗДАНИЕ И ФОРМИРОВАНИЕ







министерство

КАЗАХСКИЙ АГРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ ИМ. С.СЕЙФУЛЛИНА

Алипбеки О.А., Алипбекова Ч.А.

СЕЛЬСКОГО ХОЗЯЙСТВА

РЕСПУБЛИКИ КАЗАХСТАН

РАЗРАБОТКА ПРОСТРАНСТВЕННЫХ данных: СОЗДАНИЕ И ФОРМИРОВАНИЕ



Утверждено Ученым советом университета

Co-funded by the Erasmus+ Programme of the European Union

PRESS- RELEASES



PRESS RELEASE

on use 11 on exponentee, 2020 octans estimate on the Oppe "Luction and Restote Southing Exchandings for souther productivity in juncifulator," was experiented by Asim Development Basis (ADD), under the Water Financing Partnership Facility RETA 649E. Knowledge and Incoronion Support for ADD's Water Financing Program to provide a knowledge and exposity strengthening to the Manistry of Agistucture of the Rapachic of Knowledge.

ner amonty ve equivante en un response ve accessioname, in the reception of the Schille ACRI When endivides confinanted iron un specialoral registion advisor, symmetric ferraren in Kondshtus who can benefit from this analysis on irrigation volume, and interior, recy water consumption, ferralization and one position. The analysis is based on daily santific images: Drove measurements are careful our fire exception affording information on each of the confirmation on solid and engree and for fire the validation of the santificial resigns. The workshop exceptional calcular dackeernness in the South and Northern Karakhtum in relevend ferrare. On a large sould of the fire the bins, suellife energies assign a low or and for making gold water.

Deputy Head of the KATU GIS-center KATU Bekboess A.K. presented the results of the survey "Results of drame surveys", where she noted that the technologies and data shown reduce irrigation suster consumption and increase productivity. The introduction of this technology and services thoughout the ecurity will increase the efficiency of wrater fallicent of the state of the contraction of the section of the se

technic templora der estemps, in michanis en stansensy or michanis und of universities and freezien familiera der Bit. The meniture was stended by perpotentaries of the Wedi Bink. Empreyen Bade, Bit Orderbeptens and Rossovarionics, Indiance Development Bade, United Empreyen Bade, Bit Orderbeptens and Rossovarionics, Indiance Development Bade, United Charges and Charles an

tre memurano nomand at this sentant will be refrected in the osterational programs, newlinoderstoles courses in the field of precioles againstant, developed and moleculared within the framework of the EU Expenses NICOPA project for beckelers and master students of porture universities of Kasolistans, Urbeckintan and Turkmentrian, the piloring of which started from September 2020.

On the 20° of October, 2000 the Fair collections the 1000 anniversary of Kazakhatas joining the Dislegua process and the 25th autoineussy of the participation of Kazakhatas Hills in Tempos and Emerciary Engineers. The event was equalized by the Solitonal Emerciary Computers. The event was equalized by the Solitonal Emerciary Computers. The event was equalized by the Solitonal Emerciary Computer with the Department of Higher and Pengalante Education of the Mindray of Education and Soliton of the Engineer (10° the Education of Alexanders and Solitonal Emerciary Computers) or Kasakhatas and with the support of the Education, Andievisual and Culture Executive Agency (LACTAA) of the Emporate Vision.

The purpose of the fair was to fimiliarite a wide range of suiteholders with the achievements and results of firmmars CHRIST, reprisent to enhance that inflance and dissentance because of the contract of the projects. During the fair, the teams shared their expectate only reprises the project in process. The sendants of the projects and their impact at the ladis-local, instruiousland and national services, and its the presentation as understanded and national services, and the site presentation for sendants of the project. Among the projects, in Progression SIGON, "New and Innovative Course," project was presented by video where it was showed the arts and resoluted of the project.



On the 13th of May, 2020 Extension Office Thousains ACTU of S. Solidalis KATU conducted to being sension on the topic application of OSI solidanispics and Earlt network resing in the aspectational complex. "The large wave considerable complex." The controllingum and extensional complex is the controllingum and extensional controllingu Manager of NICOPA project Set Sara Kitalbekova





On Jamesey 13, 2021, at 18.00 on the 2000M platform, a Local scientific and methodological conference "Transfer and adaptation of previous agriculture technologies in the production of corproduction" was held within the framework of the EU Examus * project "New and innovative courses or precision agricultural "NOCOM. A.

The continue reviews on the continue report of the CO Desire a point "New Analmonist control for the Continue reporting of the CO Desire and Product of Lindbace Evidence for the United Section of the Continue reporting of the Continue reporting of the CO Desire and Continue reporting of the Continue rep



frepart Lie Count Asia.

Sembors of EU Dismuna "NICOPA poject (Giallokiava S., Solino G., Birleformers A., Soljuhlidyre, O.L., Seferinova Zh.) used use at claser Moreling celler.

Ber court and supplied by (AGUSA, the General Protection for Education and Culture and the Noticeal Transact Official from the Economist County of the Eremonia Projection, Canada Santa (County County County

Member of Marchael (Marchael (Marcha



All material will be used by the members of NECOPA project at their classes. Manager of the project AC Sara Kitaibekeva



Office PASO







Approved by:

Deputy-Chairman of the Board for Science, Innovation Activities and International Affairs Tokbergenov Ismail

REGULATION

SERVICE OFFICE PASO

S.Seifullin Kazakh Agrotechnical University
EU Erasmus+ 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP "New and
Innovative Courses for Precision Agriculture" NICOPA

Nur-Sultan- 2020









Approved by:

Deputy-Chairman of the Board for Science, Innovation Activities and International Affairs Tokbergenov Ismail

WORK PLAN OF

OFFICE PASO

S.Seifullin Kazakh Agrotechnical University
EU Erasmus+ 597985-EPP-1-2018-1-KZ-EPPKA2-CBHE-JP "New and
Innovative Courses for Precision Agriculture" NICOPA

Nur-Sultan- 2019



Office PASO



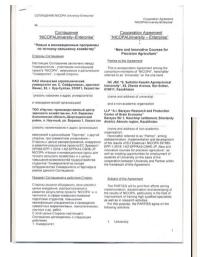


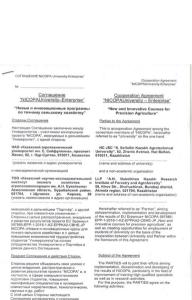




NICOPA+ AGREEMENTS







COFRAMEHIE'NICOPA University-Enterprise' Cooperation Agreement
"NICOPAUniversity - Enterprise" "NICOPAUniversity-Enterprise" "Новые и инновационные программь по точному сельскому хозяйству *New and Innovative Courses for Стороны Соглашения Parties to the Agreement Настоящее Соглашение заключено между тим-гонация Соглашения заилисчено менду Университетом - участником консорциума проекта "МСОРА", мыенуемым в дальнейшем "Университет", с одной стороны This is accoperation Agreement among the consortium members of "NICOPA", hereinafter НАО «Казахский агротехнический университет им. С. Сейфуллина», прослект NC JSC "S. Seifullin Kazakh Agrotechnical University", 62, Zhenis Avenue, Nur-Sultan, 010011, Kazakhstan Женис, 62, г. Нур-Султан, 010011, Казахстан и неакадемической организацией and a non-academic organization ТОО «Северо-Казахстанская LLP "North Kazakhstan Agricultural Experiment Station" North-Kazakhstan region, Akkalyn distlet, Chanly settlement, Central Str. 19, Kazakhstan сопьскохозяйстванная опытная станция» Северо-Казахстанская область, Акхайынскай р-н, с. Часты, ул. Центральная, 19, Казахстан (указать наименование и адрес организации) organization)
Hereinafter referred to as "Partner", aiming шиний в дальнейцем "Партнёр", с другой имонумной в дальнейшем "Партийр", с другой стороны, при совмостном увоминания — Стороны, с целько распространения, веждрения и развитие результатов проекта ЕС Зразмус-59785-ЕРР-1-2018-1-КZ-ЕРРКА2-СВНЕ-ИР NICOPA «Новые и иносащионные куроы для atdissemination, implementation and developme of the results of EU Erasmus+ NICOPA 597985-EPB-1-2018-1-K2-EPPKA2-CRHE-IP, Navy and minuses courses for precedent agriculter, as well as creating opportunities for employment of students of University on the basis of the cooperation between University and Partner within the framework of this Agreement. пиного сельского хозяйстван и с нелью Плелмет Соглашения и действия Столон. Subject of the Agreement Стороны решили объединить сври усилия с The PARTIES will to joint their efforts aiming целью внедрения, распространения и развилия результатов проекта "NECOPA" и, в частности, в офере совершенствования подготовки студентов, повышения implementation, dissemination and developing of the results of NICOPA, particularly in the field of as well as in research activities залификации специалистов и проведения For this purpose, the PARTIES agree on the following activities: говместных маркетинговых, технодогических совоестных идр. работ. С этой цепью Стороны настоящего Соглашения договорились о спедующих

CONSIDERATE SOCIAL PROPERTY AND ADMINISTRATION OF THE PROPERTY AND ADMINISTRATION OF T







Thank you for you attention!

MSc/SARA/KITAIBEKOVA Manger of the project

