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

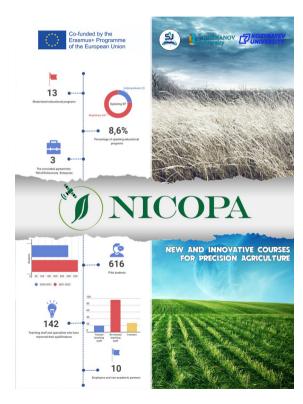
Joint Project: Capacity Building in the Field of Higher Education ERASMUS+ 2018 Co-funded by the Erasmus+ Programme of the European Union



WP4 Dissemination

₽	Activities	Deadline	
	Development of information booklets, brochures, posters, newsletters, roll-ups	May-December, 2019/completed	-
	Regional Seminar "Strategy curriculum design based on European good practice and Bologna principles"	May 2019/ completed	
	Training "GIS. Precision Agriculture. Remote sensing» at Berlin Technical University	August 2019/ completed	
	Information Day Erasmus Days "Erasmus for All"	October 2019/ completed	
	Dissemination of information after training in Berlin	October 2019/ completed	Territoria de la compansión de la compansi Compansión de la compansión de
	Participation at the International Conference "A new social dimension in mission and higher education"L.N. Guymilev ENU	October 2019/completed	
	Re-training for faculty members after training in Berlin	December 2019/completed	
	Zoom, Skype conference with partner universities of Turkmeniatan, Uzbekistan, Kazakhstan, EU	February 2020/completed	
			700m.rs

WP4 Dissemination









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



Время Тем		ла		Лектор	
11:00 - 11:20	Искусственное осеми использование систе скотоводстве		Джакупов Истатай Тусупович – доктор ветеринарн наук, профессор НАО «КАТУ им. С.Сейфуллина»		
11:20 - 11:40	«Smaxtec» – как возм профилактике зарази болезней КРС	южный инструмент в ных и незаразных	Бейсембаев Канатжан Каиргельдинович – доктор PhD, ассоциированный профессор HAO «КАТУ им. С.Сейфуллина»		
11:40 - 12:00	Вопросы, обсужден	ие			
Дата - 19 м	ная 2020 года,	Ссылка для https://global.gotome /1608660 Контакты: abstalgat@ Талғат Абсаттар : +7 Динара Набиева: +7 :	eeting.com/join 105 mail.ru 775 000 5773	Начало семи	нара - 11:00 ч.

NASE ОНЛАЙН - СЕМИНАР ДЛЯ ФЕРМЕРОВ Применение инновационных технологий на молочных фермах Время Лект Бостанова Сауле Куанышпековна - к.с-х.н., Направленное выращивание телок 11:00 - 11:30 ассоциированный профессор НАО «КАТУ им. молочного направления С.Сейфуллина». Система идентификации и удаленного Мирманов Арман Барлыкович 11:30 - 12:00 контроля живой массы молодняка ассоциированный профессор НАО «КАТУ им. молочного направления продуктивности С.Сейфуллина». в рамках ПЦФ МСХ РК на тему «Трансферт и адаптация инновационных технологий для оптимизации производственных процессов на молочных фермах Северного Казахстана» Начало семинара - 11:00 ч. Дата - 22 июля 2020 года Ссылка для входа: https://global.gotomeeting.com/join /826929357 Контакты: abstalgat@mail.ru Талғат Абсаттар : +7 775 000 5773 Пинара Набиева: +7 701 299 7799



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: <u>abstalgat@mail.ru</u> Талғат Абсаттар: +7 775 000 5773 Динара Набиева: +7 701 299 7799





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



15.10.2020 Global Event Erasmus Days "Key to success through experience", online round table



ONLINE ROUND TABLE "THE KEY TO SUCCESS THROUGH

EXPERIENCE"

Date: October 15, 2020

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

OrazymbetovaZh.A., the Head of scientific and information resources Department, developer of DIREKT project, S. SeifullinKATU

Meiramova S.A., Director of IC&MEDC

6. 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







Frasmus+

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

IrriWatch

NICOPA



IrriWatch, an operational irrigation scheduling

Dr. Wim Bastiaanssen ADB Consultant

Giovanni Capannella

system for all farmers in Kazakhstan Traper Aut Labor

ADB

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.



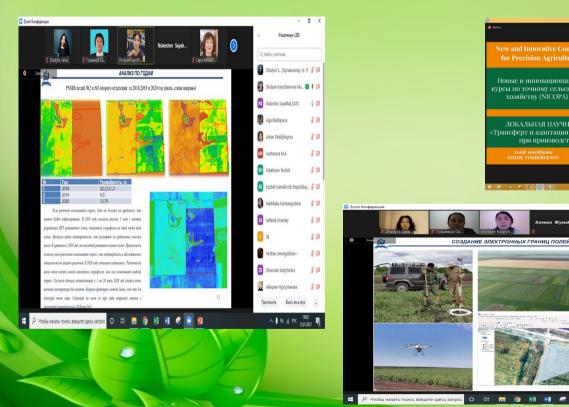


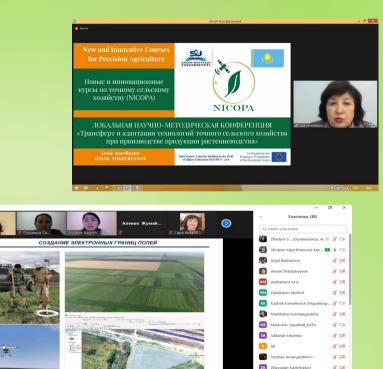




13.01.2021 Local conference within EU Erasmus+ NICOPA project "Transfer and adaptation of precision agriculture technologies in the production of crop production"







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





sustainability

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

Onggarbek Alipbeki ¹4^{,6}0, Chaimgul Alipbekova ², Arnold Sterenharz ³, Zhanat Toleubekova ³, Meirzhan Aliyev ³, Nusvultan Mineyev ¹ and Kalytbek Amangaliyev ³

- Stellahan Angyee', Rainstata Bondyee', and Kasyiwe Antadguiyee'. Department of and use and Codeose, Schölm KashA Aye. Behala University, Dengia seruse, Ed., Nucleikan (2000). KashAstun, phickelahan arkania (2011). menduan sanzadylmailar (0AA). Department of 1999 performing of Department of Schöll KashAspa Tohykal University. Zhenga revens, St., Nucleikan (2000). KashAstan, dasingdibraalas.

- University of Berlin, Germany's arrold attlescolaunch.com
 Correspondence: calipbek@mail.rs; Tel.: +7/7715309635

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

Abstract: In this study, the spatiotemporal dynamics of land use and land cover (LLC) were evaluated in the port-toshes are set of the Arshaft district, which buschers the capital of the Barphile co-cultured on the structure of the Arshaft district, which buschers the capital of the Barphile co-cultured (1986, 2008, and 2018). During the study period, characterist with a multi-strupper alternal (1998, 2008, and 2018). During the study period, noticeable charges occursed in LLLC. There was an transmose in the area of arable land and forestant in the partners. There was a sharpsurveyse in our even or attent and and horizontal and a realization in the partners. There was a sharps increase in the build-up arous, that is a three was an informationation of and use thereagh an increase in the share of anable land as well as the transformation of a grites/thread land for development. However, in general, the influence of unbun spraced in this peri-subun area has so far been accompanied by only a slight focus or his sustainable development.

Keywords: land use and land cover; remote sensing; supervised classification; change detection; driving factore; Anhaly district

1. Introduction

1. Inhomotion
1. Inhomotion
Using a set of the set of the start of of Kazakhstan transformed from a provincial regional city into a large metropolis as a result of the combined intract of the above three factors and became the political, economic, and cultural center of Concerned indput to the detect and experimental annual polarization concerned, and testing contain terms to the republic [2]. In the adjacent agric industrial annual under the influence of the metropolia, certain changes also took place during the study period, both under the influence of urban sprawd [6] and other factors [7], which still require analysis and evaluation.

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Englished Mark 12 1956 August Market Market



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

Onggarbek Alipbeki ^{1,*}⁽⁰⁾, Chaimgul Alipbekova ², Amold Sterenharz ¹, Zhanat Toleubekova ¹, Saule Makenova¹, Meirzhan Aliyev¹ and Nursultan Mineyev¹

MDPI

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- Department of Land Use and Geodesy: S.Seifallin Kazakh Aero Technical University, Ibenis Avenue, 62. ¹ Department of Land Use and Genders, Schüfflin Kaahl, Ange Tachried Ultworting, Bornis Aver NeurSchnist (2011), Kraalshnist johole-doord-nation (L. C. Lyacita, paraeorembrain (n. S.M.), morizhan naturaly/binalari (M.A.), ramadan, 2048kar (VAM) Department of Henri Investion: and Quarantise, Schsinflin Kaahl Ange Toehnied Ultwortsity, Bornis Aversus, G. Navefadara 10001, Kaakhara, changadhunuli u DixXALXXI Classific Ultyrianet Ganagas para lante Tachristica Ultwortsity, Bouch Aversus, G.N., Navefadara 10001, Kaakhara, changadhunuli u DixXALXXI Classific Ultyrianet Ganagas para lante Tachristic Ultrevenity, Bouch ins 10, 1055 Derin, Germany, translocently pardocen. Concemponetieve calabeliandus and J. & C. 2017 200465.

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 (SDS). It was found that the main tendency in the land use of this Peri-turba area (TUA) during 1920-2018 is their intendication, through an increase in avable lands. Kazakhstan only recently started the systematic collection of SDIs urrough an increase in neuron states. Addatestant only recently sources the systematic concession of source according to international 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 area, intend amounts or incommation view available. Neverthetiess, the use of SMS from 2000 5 2017 based that the growth of ecoronic development in the study area is almost adequably 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 torritories in general and the development of the capital of Kazabistan and their UVa, in particular.

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

1. Introduction

-

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 nearb 68% [2]. Increased food production is necessarily do be urban population of the vector will mach etc., increased toola production is recommended to be accompanied by sustainable agricultural land management [2], including PUA. The purpose of increasing the effectiveness of land use management is to stop or at least slow down

the negative inspact of land use on natural resources. Moreover, adverse processes are often understood the registive impact of land use on natural resources. Mereover, adverse processes are often undershold as degradation of the soil cover under the infibusco of various types of resolution [14], descritifization and salinization [54], depiction of soil infibity [7], politation [9], reduced water quality [9], land gails by rapidity growing often and their consequences [10], detected and the topological variant of the solution systems to need human needs [11, 12]. Bedieds, changes in that use significantly affect the energy systems to need human needs [11, 12]. Bedieds, changes in that use significantly affect the energy of the solution of the solut 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

Land 2020, 9, 147; doi:10.3390/land9050147

www.mdpi.com/sumal/and



ФШНБКИ Онгрбс Элінболуы (АДРЕКИ Онгрск), акдлям, кля Маслунарано сона радочновти Інталіоні Ціона баковскорі, зідчий предлагато ВУла, станции Ренублицами преднам сільшикь, примає такарочу в Кибрадона умині ренублика (Великортиниці по спершалогі вісочна умиріателя (Великортиниці по спершалогі вісочна умиріателя Нарадочна стандару в Кибрадано умиріателя Першовіської сона і Бардика прочика інтрах (ЦІ) да Реронаїнської сона Пірнанал. Нарадика, буниция др.). Антр боссі Юрібанація наст. Хирага.

и формирования вространстванся лимателя получи стандатива поятах стан воздаяти создания данные и онифраструктура пространственных данныхо были введены в «Закон о космической данные и онифраструктура пространственных данныхо были введены в «Закон о космической деятельности исследующих Казательна».

оплотов 00. с проволните разлековоческих истова и прострактенных дошок краfолы всемовоче спокаеми розно разволяется в былаебо Соплатлятелься испатательно деровотолитов поредели битие структура для кисцерова. Багогорая оплататите блибого 0 КахIV на С. Собърства ввершае стат трагтохадом образовательного проета Гаронобного согда Гаронуст-МСОР, да ногрупподателем образовательного проета Гаронобного согда Гаронуст-МСОР, да ногрупподателем и образовательности образовательного центра точного с сельского колибства, цель когроро и образователемо проета Гаронобного согда Гаронуст-МСОР, да ногрупподателем СПриче-



стрини прозыватель, всер болсе 40 рубликация, налас Хараш, 2. Она сенциалае общест виште растови, работы МИС, IIC (IIIICAII МАХ СССР, СПК из учивая севраторе КалИШВУ), видуровний селоторов ИПР аспорята (работь Под астороднутора и ВИС (КалИХУ) на так се ВИС АО ИН «Клансстат Парин Сандра-Каканская (а корестор). А майсте сама Ч.А. етокстательный нехолитесь и учиствая сероне фулканстатавиях, прикламиях

AJIMIJEEKOBA Hannyas Adveararoona. (ALIPBEKOVA





NICOPA

министерство СЕЛЬСКОГО ХОЗЯЙСТВА РЕСПУБЛИКИ КАЗАХСТАН

КАЗАХСКИЙ АГРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ ИМ. С.СЕЙФУЛЛИНА

Алипбеки О.А., Алипбекова Ч.А.

РАЗРАБОТКА ПРОСТРАНСТВЕННЫХ **ДАННЫХ: СОЗДАНИЕ** И ФОРМИРОВАНИЕ



Утверждено Ученым советом университета

Нур-Султан 2020

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ДАННЫУ

РАЗРАБОТКА ПРОСТРАНСТВЕННЫХ , СОЗДАНИЕ И ФОРМИРОВАНИЕ









PRESS- RELEASES



PRESS RELEASE

On the 11th of Sentember, 2020 online seminar on the tonic "Drone and Romote Semine vm me 11. on expensive, 2020 ordene sensuma en the 0496 "Extent and Remote Souring Technologies for water productivity in garichane" was expensivel by Asian Development Basis (ADB) under the Water Financing Pragma to provide a Knowledge and Innovation Support for ADB's Water Financing Pragma to provide a Knowledge and enposity strengthening to the Matisity of Aglicolature of the RapAble of Knowledge.

and a sumplex of parameters on approve to Annuments. In overprefasses with S-Solffan KATU these environments and the strange of the strange o

Automative distances of the ADB plot project. Giuvani Copamelii (director of the representative office), Babet Corell to Insert from the UKS, Tablenguov UT, Dayou TL, Wani Batanasen (Schartinda), which previded the sensing technology and methodological support for the projects.

Deputy Head of the KATU GB-center KATU Bekbassa A.K. presented the results of the survey "Results of drate surveys", where she noted that the technologies and data shown reduce infration suster cossumption and increase productivity. The introduction of this technology and services throughout the ocamy voli linearea the difficiency of nutrate real.

Stretce traduction for eventy win mixtures or mixtures of mixtures. The iterational energies associated particular and particular states of the Weld Buck, Energiese Buck, Buckeybergen and Boccariona, Istance Downgami, Han, Uston Energiese Buck, Buckeybergen and Boccariona, Istance Downgami, Han, Uston David, Buckey Buckey, Buckey Buckey, Buckey Buckey, Buckey Zhangir Han, Wen, Konkhann, Agaraka-Teshikiad Ustrovity, Nazadwyn Chorenty, Kabolit, L.S., Garaghy Kamali Skandol Ustrovity, Nazadwyn Chorenty, Kabolit, L.S., Garaghy Kamali Skandol Ustrowity and Barowski Schweitz, Buckey Schweitz, Barden AUT, S., Bardiney Kabalean and Janowski scones in procision specificary 55 Staffan AUT, S. Kabalawar Kabalean Schweitz and Janowski scones in procision specificary 55 Staffan AUT, S. Bardiney Kabalean Schweitz and Schweitz

The information obtained at this seminar will be reflected in the educational program. Les menuranos oronando al this semanter will be reflected in the deacanonal program, new/insofersione coments in the field of precision againstane, developed and modernized within the framework of the EU Emenuse-NICOPA project for bachelors and master students of partner indiversibles of Kasadatana, Undeckinan and Turkmenistan, the piloting of which started from Segmenter 2020.

- 23

Press release

On the 20⁴⁰ effective 2020 the Fair conference the 100 merics-user of Kazakhuna joining the Diologia process and the 22th autoivenues of the participation of Kazakhuna Hills in Temps and Enseman representation by the Conference of Conference of Conference Office to Kazakhuna sequelises with the Dopatteeness of Flighter and Penganatar Educations of Hendisory of Kazakhuna Hills and with the support of the Education, and Machine the Deligation to Kazakhuna and with the support of the Education, Andievisual and Culture Elsevative Apertso (ACEXL) of the Elsevator Machine Sazakhuna the Deligation of Elsevator Linear Conference Vision Linear Conference Conferen

The proper of the fair was to femiliarize a wide maps of subchelden with the achievements and reachs of Erzuman-CHBE projects to enhance that influence and dissertance bent protects. During the fair, the truns shared the integrate reperience in project projections from the protects have shared as the project and their impact at the influence and anticular levels, as well as the project and their impact at the influence integration and anticular levels, as well as the project and their impact at the influence integration and anticular levels, as well as the project and their impact at the influence integration and the actual reaction and the project and the impact and the influence integration and the actual reaction of the project.

It was attended 50 participants from 10 EU Examus+ projects from S. Seifadin KATU, where they could be introduced with the implementation of KATU Examps + projects: NICOPA, IQAT_SRUD, SUSDEY, PAWER, DIREKT, ASIAXIS, DECIDE, SAGRIS and other 24 moiscret of IBIE of Razabitans.

Manager of NICOPA project

Press colores

On the 13th of Marg. 2020 Ensembles Office "Ensembles RATU of 5. Seldelin KATU conducted on-line seminar and the topic Applications of GH sequencings and Earth restruct seming in the specializational ensembles." In State Section 1996, we considered Applications of GH sectors and an experimental ensembles of the sector sector sector sector sector sector sector sector resp. Marchen of UL Ensembles NROPA resider, provide all provides and provide all conductions of the sector s

Manager of NEOPA project Jef Sara Kitsibekova



N Stan Surfus NUM

On Jammy 13, 2021, at 18:00 on the 2000M platform, a Local scientific and methodological conference "Emotion and adaptation of precision agriculture technologics in the production of exp robustion" was hild within the Framework of the EU Emmun * project "New and insuvative corners in processing applications" NICOPA.

The methanism of the second se

Manager of NICOPA project

Press-release

On 19-20 November 2028, the Education Audiovisual and Culture Exercisive Agency (EACEA) of the European Commission organized an online Regional Choter Meeting on CBBE Projects Impact in Control Asia.

Inspect for count Acia. Senders et (EU: Ensumes NECODA project (Gallenkiews S., Sollan G., Barletoners A., Stayholdrev OL. Menners PDI.) to day part a charat Meeting on else. The overs man any angular by IACMAs de Creened Meeting and the Meeting and the Meeting Theorem and the angular structure of the Meeting and the Meeting Theorem and the Meeting and the Meeting and the Angular Meeting and the Meeting and the Meeting and the Angular Meeting and the Meeting and the Meeting and the Angular Meeting and the Meeting and Angular Meeting and Angular Meeting and the Meeting and Angular Angular Meeting and Angular Meeting and the Angular Meeting and Angular Meeting and and angular meeting and Angular Meeting and and angular meeting and Angular Meeting and Angular Angular Meeting and Angular Meeting and Angular Angular Angular Angular Angular Angular Angular Meeting and Angular Angula

Discuss the EU fanded projects/programmers impact on the CA IIE sector in tarses of modemization, accessibility, mobility, employability, internationalization and reform of

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Context and Objectives: It simu at bringing together project coordinators and local CBHE project team members (stational coordinators) from Kazukhstan, Uzbekistan, Tajakistan, Koptgentent and Turkmenistan is order

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Press release

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Representatives of the EU Franzus + projects also look part in the Franzus Days overts organized by the Novemberk State Agnatian University (Ismaliova A.S., SAGRIS project), Oriol. State Agnatian University (Mediselenko N.N., SARUD project), M. Korybuyev North Kearkhatan University (Kialabean S.O., Ernemar + project).

Manager of NICOPA project Sara Kitalbekawa

Press referred

From the period of Jamary 13 (81 22, 2021) it was expanied On-Jane Manar Chaose for 13J Emanars-NICOPA perjoint members of 3 Kanahhann, 3 Uzhekinan and 3 Tackarainan HEL. Manar Chaosa was expansioned by 14J partners from Berlin Tacharaina. EXXX4.JNNTH (Genanay), Agricultural University in Pitvefor (Bolgaria), Caech University of UR Sciences (Caeb Benehold).

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Press - release

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All material will be used by the members of NICOPA project at their classes.

Manager of the project

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Office PASO



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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



Co-funded by the Ensemuse Programme of the European Union



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

WORK PLAN OF

NICOPA

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NICOPA+AGREEMENTS



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Thank you for you attention!

MSc/SARA/KITAIBEKOVA Manger of the project



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