

Project effectiveness «Leading Schools»

Department of Experience Translation AEO «Nazarbayev Intellectual Schools»
Republic of Kazakhstan, Nur-Sultan city,
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WORLDWIDE TRENDS IN THE FIELD OF REFORMING SECONDARY EDUCATION AND DISSEMINATION OF NEW EDUCATIONAL TECHNOLOGIES



GLOBALISATION

What are the new requirements related to the changes in social and economic life have arisen in the educational system and will be provided by the 21st century school?



PUBLIC PARTICIPATION

to anticipate the future needs of students public participation in addressing these issues is needed.





- is a common challenge and a common concern. How to achieve the high level in the system and at the same time not to face with limitations in achievements? How to provide different paths to success for different groups of students?



ACCREDITATION, AUTHORIZATION AND INSPECTION

How to verify desired results? Good tests that test linguistic and mathematical literacy are not enough.

LEADERSHIP



All school systems face the challenge of providing 21st century education. How can they achieve a higher level of teaching and management? Create a critical mass of innovative schools (Teaching schools)

Nazarbayev

Intellectual

NEW TECHNOLOGIES CHANGE LANDSCAPE OF FUTURE PROFESSIONS





By **2025**, **46%** of global economy will be in the digital environment, today this figure is 10%.

65% of children who are currently studying in primary school will be occupied in new types of job that even do not exist nowadays.



According to the research carried out by the University of Oxford in developed economies, the rate of job loss will rise to 47 percent in the next 25 years.



For instance, by 2030 robots will be able to replace 1,3 million state employees in the United Kingdom.

Estimates of City and Oxford universities show that **77%** of jobs in China are at the automation risk, among OECD countries the percentage is **57**.



Experience translation AEO NIS

Developed by AEO «Nazarbayev Intellectual Schools»



Educational Content:

3 Standards

163 educational programs

364 medium term plans for grades 1-10

93 teaching aids for the implementation of training programs

157 textbooks and teaching materials

290 digital educational resources



New criteria-based system of evaluation:

30 125 instruments of criteria-based assessment **711** assessment tools



Professional development training:

153 advanced training programs; Assessment courses training manuals



Trained on professional development trainings:

314 775 teachers on subject content and grading system

73 322 teachers on teaching methods and technologies

38 596 school trainers on methodology and technology, research skills

5 575 certified trainers

6 161 school principals in leadership



8 087 teaching seminars;

12 042 master-classes;

4 755 training courses;

3 085 online lessons;

383 online seminars;

904 on-site consultation;

1956 team teaching lessons;

4 311 lesson observations;

144 lectures for parents

A republican network of methodological support for teachers of the Republic of Kazakhstan has been established

through a pool of school trainers and school coordinators (38 596 people were trained in the Republic of Kazakhstan, or every **10th** teacher in the country)

level

School

through a network of leading schools, which are reference sites for the translation of experience (in Kazakhstan there are **1020** secondary schools, or every 7th active school in the country)

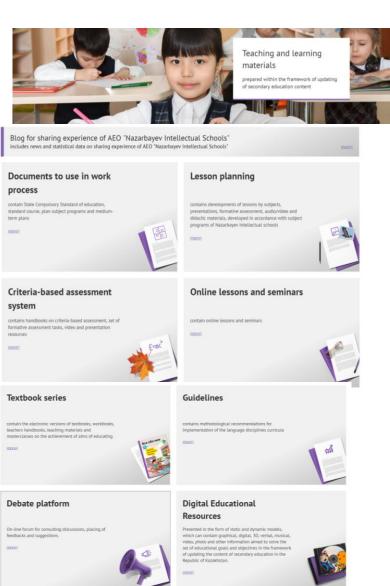
Reference sites for supporting updated educational Total content Attached schools schools in Pilot schools for in a region/city RK Intellectual schools Leading schools approbation 7 047 20 1 020 5 977 30

Region/city

through the introduction of online educational platform Systemmethodological complex



Support for teachers in the country through a system-methodological complex



36 124 141

downloads

281 722 authorized users



45 605 materials were developed under the programs for 1- 10 grades for all subjects in 2 languages



Documents to use in work process: SGSPE, curriculum samples, educational programs and plans, Structurally Methodical Writing

1540



Job-based planning: lesson planning, presentations, formative assessment, handouts and audio and video materials.

132 538



Curriculum samples: electronic versions of textbooks, activity books, teacher manuals, posters for speech development, digital educational resources

602



Methodological recommendations for the curricula implementation of language disciplines, video on implementation of curricula for 1,2, 3,5,7, 8 grades

349



Debate platform: Teachers are given the opportunity to conduct discussions, receive consultations in certain areas, post feedback and suggestions.

4316



494 videos were developed to explain the learning objectives of grades 1, 2, 3, 5, 6, 7, 8

Since 2018, a media library of educational resources has been created and is being updated in the subjects of «Biology», «Chemistry», «Physics», «Informatics» in English - 674

Mechanisms of methodological support for teachers in updated educational content



country

System-

through educational online platform SMC:

- 138 826 uploaded teaching materials and resources,

Methodological

- 37 800 015 downloads

Complex

- **292 443** users

region/town

Chain of LEADING SCHOOLS,

1020 schools – being as reference sites in experience disseminating (or each **7th** school in the country)

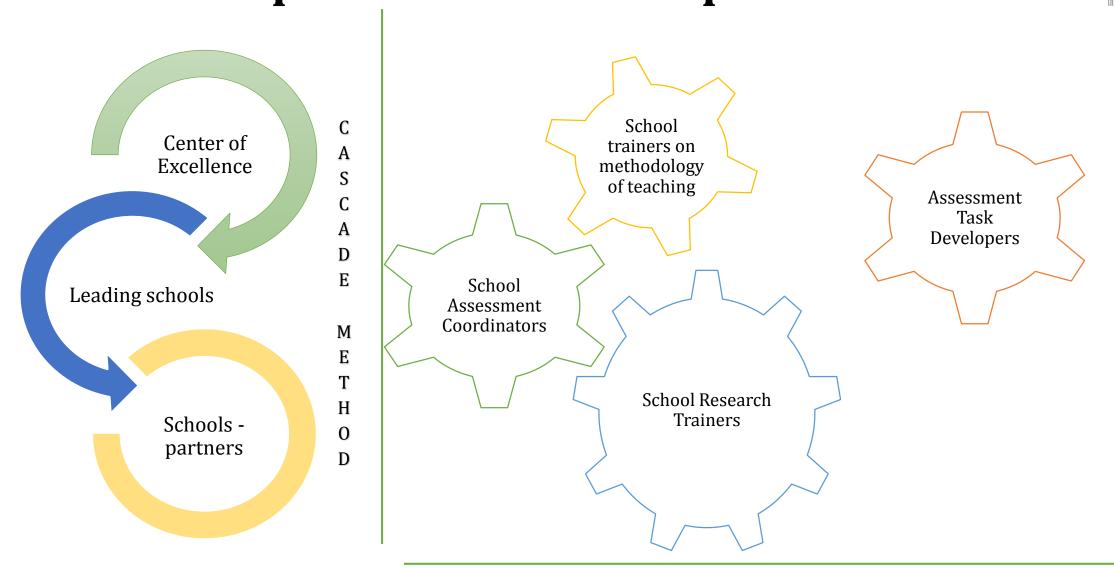
school

SCHOOL METHODICAL ASSET

school trainers and coordinators

(38 596 people were trained in the Republic of Kazakhstan, or every 10th teacher in the country)

Developing the potential of schools in the teachers' professional development



Support for teachers through the school methodological asset



Total schools in the RK	Total prepared school trainers	Including pathway			
		School coordinators on criterion assessment	School trainers on teaching methods and technologies	School research trainers	School assignments developers and experts on assessment
7 014	38 596	9 043	17 517	3 526	8 510
		conducts in-school courses under the program "Reflection in Practice", provides advice on teaching methods	provides advice on issues related to formative and summative assessment procedures	conducts in-school courses under the program "Research in teacher's practice", organizes the implementation of Lesson studies and Action research	provides methodological assistance for teachers in the development and examination of tasks for formative and summative assessment in 10 subjects

Chain of leading schools-reference sites for updating educational content

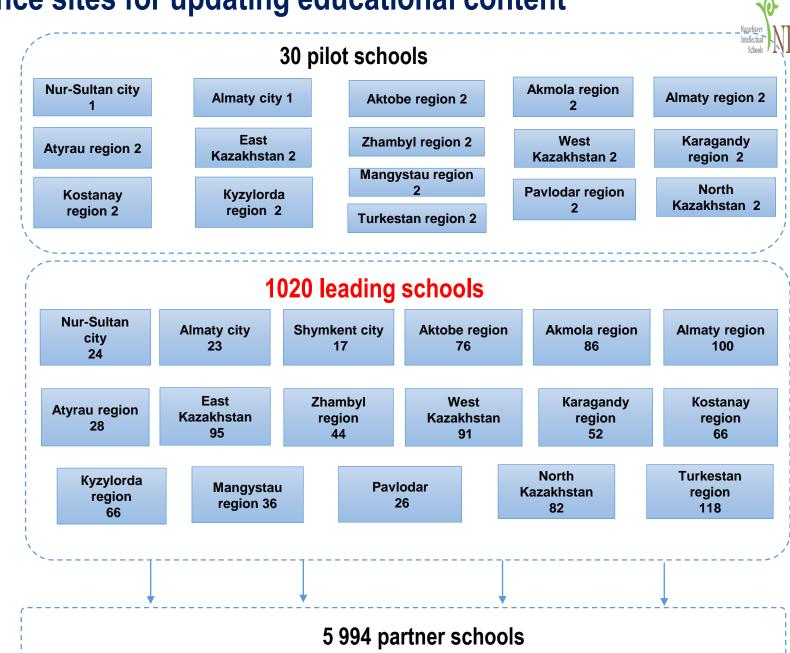
Methodological centers for updating the content of education

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Methodological work with teachers of the Republic of Kazakhstan through seminars, master classes, webinars.

Center of Excellence

Methodological work with methodological asset of each school of the Republic of Kazakhstan (through the pool of school trainers and school coordinators)



Teachers' assistance through leading schools



Goal: building up the methodological potential of the teaching staff of leading schools to create an effective quality management mechanism for introducing updated educational content.

Organizational and analytical stage

Identification of the methodological potential of the leading school staff through questionnaires and surveys, visits to in-school methodological events, analysis of the school's development plan, joint recruitment of the development team (leaders)

Stage of training and development of a leading school

School Administration Training Training of the development team (leaders)

Training of all school teachers

Equipping with methodological resources

Stage of interaction between leading and partner schools

Conducting group and individual trainings (seminars, master classes, lesson observations) at the request of pilot school teachers

Studies of the professional potential of leading and partner schools of the Republic of Kazakhstan

Nazarbayev Intellectual Schools



Periods: I stage of research: 26 April -12 May 2018

Il stage of research: 11 March – 12 April 2019

Study Sample Size:

I stage (with leading schools):

6 198 respondents were interviewed, including 8 511 respondents were interviewed, including

- 763 leading schools' principals;

- 1 867 partner schools' principals

- 5 435 leading schools' teachers

- 6 644 partner schools' teachers

Research focus:

- culture, management and school management; dynamics of their development;
- professional beliefs and values of leaders and teachers of leading and partner schools, their problems and needs;
- •degree of satisfaction with the results of interaction between leading schools and partner schools; the nature and degree of stability of the dynamics of the ongoing qualitative and quantitative transformations in leading and partner schools

The results of the first study are published in collections:

- International Conference "Modern Problems of Science and Education" (2018, Moscow);
- "Modern science technology" Collection of scientific articles of the Russian Academy of Natural Sciences (2018, Moscow)
- "Reports of the Kazakh Academy of Education" NGO of scientists and teachers of the Republic of Kazakhstan (№4, 2018, Astana);
- X International scientific-practical conference "School of the new generation" (2018, Astana).

According to the results of two surveys of partner and leading schools leaders, the qualitative changes in partner schools should be noted

- 72.0% claim that with the support of leading schools, leadership groups of teachers were created to manage school development, criteria-based assessment, lesson research and mentoring with novice teachers who provide timely and targeted methodological support to groups;
- over 55.0% of leaders say that schools have been enriched with methodological resources and the annual improvement in the quality of education is due to the use of new forms and methods of instruction;
- more than 51.0% of principals changed the teaching practice as a whole, learned medium-term planning, self-reflection and problem solving for conducting research on their own practice; learned to develop descriptors and criteria for student learning success, set specific expected results, systematically use active forms and teaching methods.

Quantitative indicators of changes in partner schools based on two monitoring studies

Study performance criteria	The average Intelled
Percentage of managers who have acquired knowledge and skills in the field of school management and leadership	48,7
Percentage of managers who understand the essence of distributed leadership and learn how to put it into practice	39,3
Percentage of schools that have learned to develop a school development plan	61,9
Percentage of schools that have learned to develop criteria for successful school development	49,4
The proportion of leaders who have learned to conduct research on teaching practices and who are now able to teach their school teachers	46,0
Percentage of schools where lesson study groups are established	57,5
Proportion of schools in which parental participation in school development planning has increased	49,7
Percentage of leaders who have changed the way they interact with students and their parents	48,3
The proportion of principals who began to devote more time to the professional development of school teachers	46,6
The proportion of leaders who have learned to develop a path for the professional development of school teachers	55,5

Positive changes in the practice of secondary schools of the Republic of Kazakhstan



school management changed: the prevalence of administrative and administrative issues decreased from 75% to 25% and focused on addressing the issues of teaching quality and professional development of teachers

more than 97% of leading school teachers are convinced that the quality of the organization and conducting methodological trainings has improved and they have a positive effect on their teaching practice

in 97% of leading schools, the practice of collaborative management, distributed leadership, teacher commitment to the interests and success of the school, systemic planning, monthly and weekly visits and supervision of teachers' lessons by leaders was established

over 73% say that the content of training activities at partner schools is determined on the basis of analysis of the survey results of pilot schools teachers, adjust with real needs and therefore have a high level of effectiveness

More than 41.0% of teachers, as a result of interaction with Leading schools, changed the teaching practice as a whole, learned self-analysis and problem solving for conducting their own practice studies, developed skills in developing descriptors and criteria for the success of student learning, setting specific expected results, systemic use of active forms in the lesson and teaching methods

72.0% of teachers confirms that with the support of leading schools in Partner schools leadership groups were created to manage school development, to introduce criteria-based assessment, to study the lesson and mentoring with novice teachers, which contributes to the timely and targeted provision of methodological support to PS teams

Conclusions: The results of monitoring Studies showed that Nazarbayer

the creation of this mechanism is objectively justified, since it contributed to the qualitative and quantitative transformations, both in leading and partner schools.



THANK YOU FOR YOUR ATTENTION!

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