"Nazarbayev Intellectual Schools"
Autonomous Educational Organisation

Teachers changing the world of schooling

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Nur-Sultan, 24 October 2019

Global Trends Shaping Education (OECD, 2019)

Each of these trends is caused by the rapid development of technology.

Shifting global gravity
- The global balance of economic power is shifting towards Asian economies
- The global market expands, human mobility increases
- Consumption grows due to expansion of the global middle class
- New AI actors emerge

Social development
- The rights of migrants, linguistic and religious minorities are provided for in legislation
- Voter turnout have fallen in OECD countries
- The role of individual regions and cities is strengthening
- Quality of education in rural areas is still relevant

Security
- Cybercrime is growing
- The number and scale of worldwide natural disasters is increasing
- Increased bacteria resistance
- The number of traffic accidents is reducing
- Probability of living in a country in an armed external conflict significantly decreased

Life expectancy
- Life expectancy is increasing
- The potential for loneliness is increasing
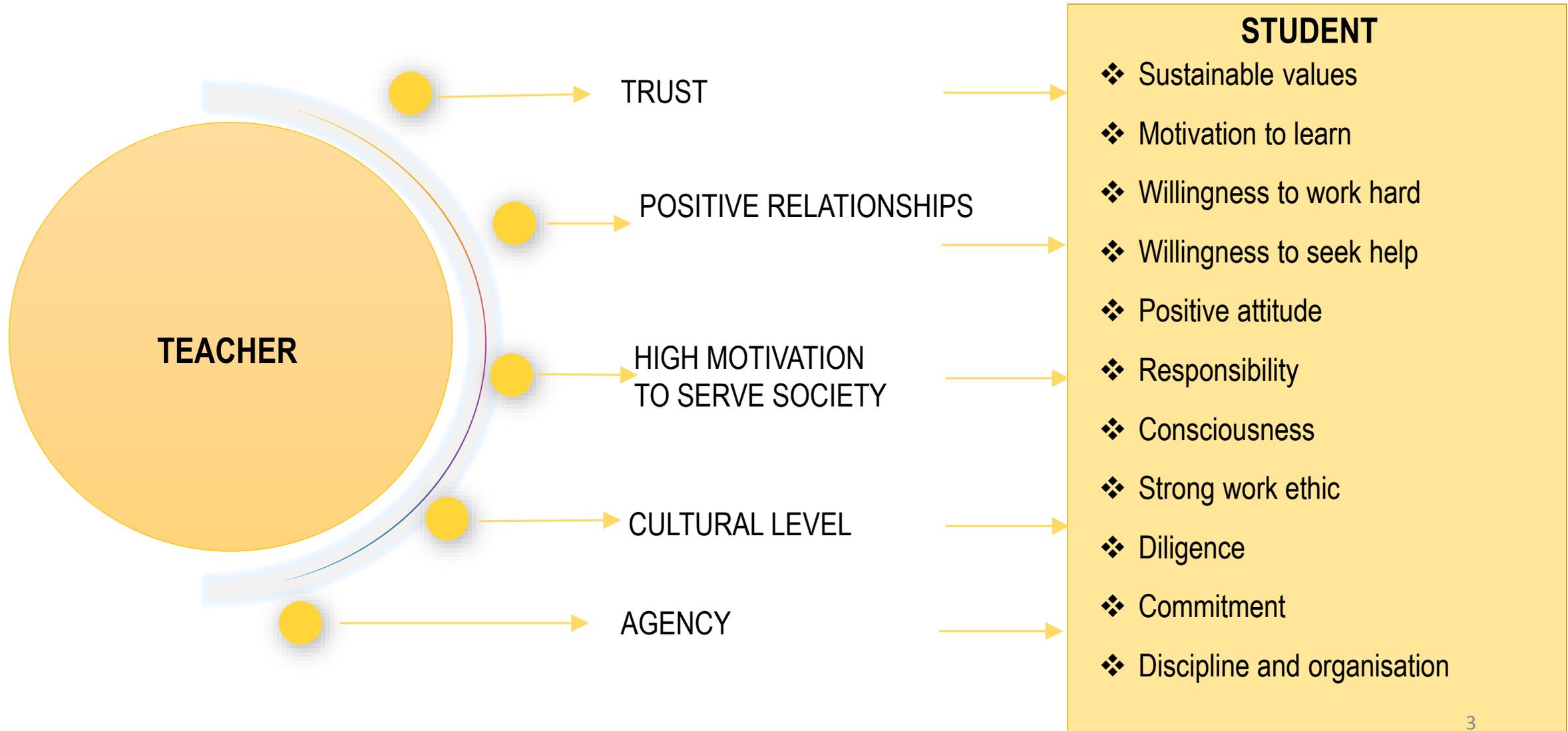- Years in retirement increased
- Digital elders

Modern culture
- The difference in income between men and women reduced
- Increased Internet access
- The number of freelance workers is growing
- Mass consumption becomes ethical
- Virtual becoming reality
- New family models and more active parenting from fathers

"…we live in the era of constant change… now every year is transformative…"

Yuval Harari

THE TEACHER – IS A LEADER, WHO IS ABLE TO MAKE EFFICIENT USE OF TIME, REALISTICALLY EVALUATE TASKS, QUICKLY FIND THE BEST SOLUTIONS, SERVE THE SOCIETY AND TAKE RESPONSIBILITY.

TEACHER

TRUST

POSITIVE RELATIONSHIPS

HIGH MOTIVATION TO SERVE SOCIETY

CULTURAL LEVEL

AGENCY

STUDENT

- ❖ Sustainable values
- ❖ Motivation to learn
- ❖ Willingness to work hard
- ❖ Willingness to seek help
- ❖ Positive attitude
- ❖ Responsibility
- ❖ Consciousness
- ❖ Strong work ethic
- ❖ Diligence
- ❖ Commitment
- ❖ Discipline and organisation

The teacher is a force, and the professional team of teachers is a driving force that contributes to the development of schooling.

Collaborative professionalism based on a high level of trust in work relationships is the golden cell of professional collaboration. **In such an environment, teachers have strong relationships, trust each other and feel free to take risks and make mistakes.**

British scholar Andy Hargreaves, 2018.

Methodological support of mainstream school teachers

nationally

the online platform **www.smk.edu.kz**:

Educational	- **138 826** training materials published
Resource	- **37 800 015** downloads
Portal	- **292 443** users

locally

A network of LEADING SCHOOLS
1020 schools are the reference sites for experience dissemination
(or every **7th** school in the country)

in school

SCHOOL METHODOLOGICAL CORE STAFF
school trainers and coordinators (**38 596** teachers were trained in the Republic of Kazakhstan, or every **10th** teacher in the country)

Experience dissemination

Developed			Trained under the professional development programmes of "Nazarbayev Intellectual Schools" AEO	Conducted
On education content	**On assessment system**	**On teacher professional development**		
3 standards **163** subject programmes **364** medium-term plans for Grades 1-8, 9-10 **93** teaching aids on the implementation of subject programmes **157** textbooks **290** digital educational resources	**a new criteria-based system of assessment** **30 125** assessment tools **711** teaching aids on assessment	**153** teacher training programmes, training courses on assessment, teaching aids	**314 775** teachers trained in subject content and assessment **73 322** teachers trained in teaching methods and technologies **30 099** school trainers trained in teaching methods and technologies, on research, school coordinators trained in assessment **5 575** certified trainers **6 161** school leaders completed leadership courses	**8 087** training workshops **12 042** master classes **4 755** training sessions **3 085** online lessons **383** online workshops **904** on-site consultations **1956** lessons of team teaching **4 311** lesson observations **144** lectures for parents

The cycle diagram of data provided to Intellectual schools based on the results of assessment during the school year
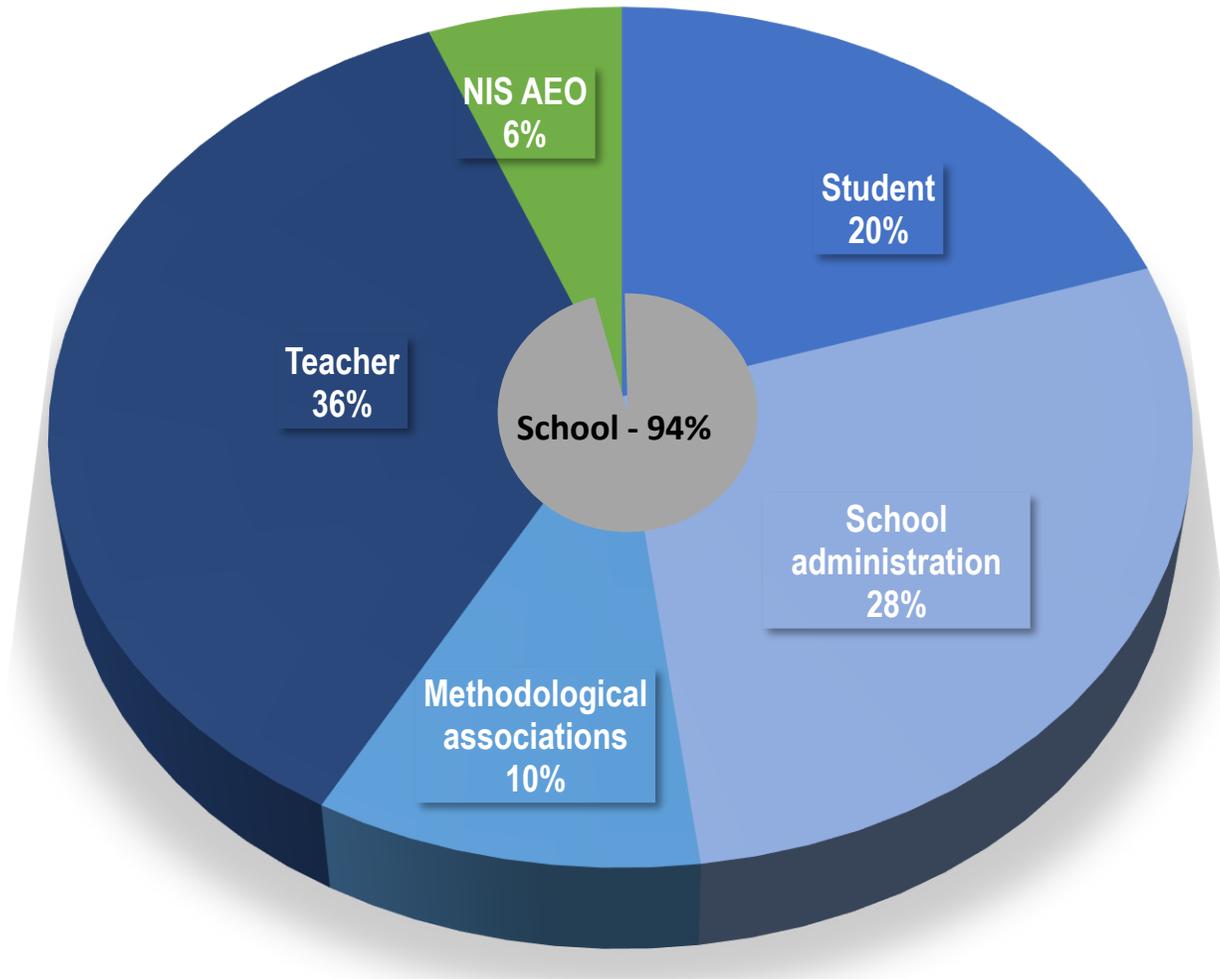
94% of reports is submitted to school, with the largest share of the data provided to the teacher (36%).
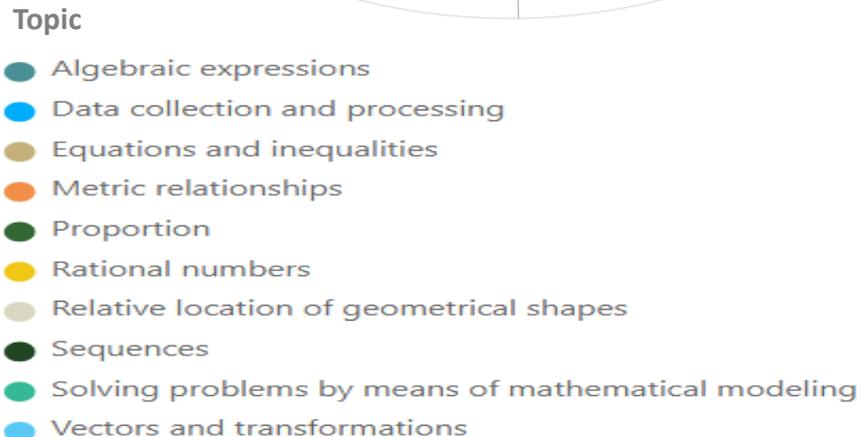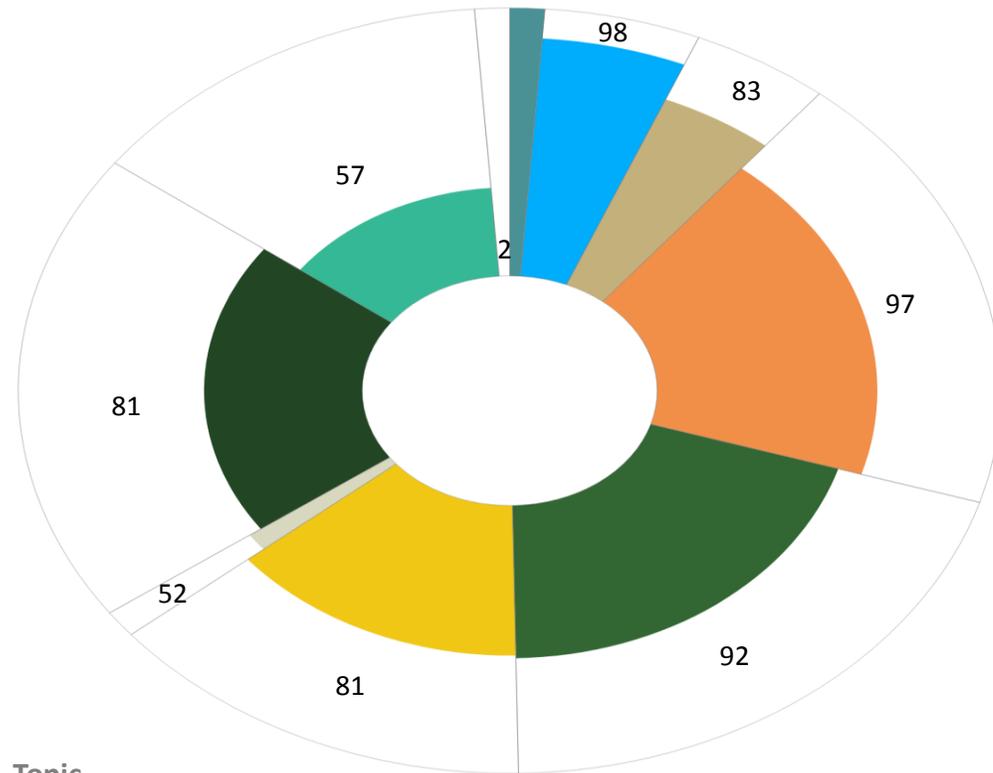
Data on students:
- Strengths
- Weaknesses
- Motivation
- Applied skills
- Interests, aspirations
- Behaviour, etc.

Data is used to ensure:
- Individual feedback
- Differentiation
- Guidance
- Engagement in learning

Using the results of monitoring to develop learning

The data is used to **ensure the dialogue between**:
- student and teacher
- teacher and parents
- teacher and teacher
- teacher and school administration

Data **contributes to**:
- differentiation and individualisation of the learning process
- selection of effective teaching methods

The data **leads to**:
- increased teacher agency
- **understanding the value** of feedback-based learning

Data is **processed to**:
- identify the strengths and weaknesses of each school and individual student
- inform predictive analytics

Topic
- Algebraic expressions
- Data collection and processing
- Equations and inequalities
- Metric relationships
- Proportion
- Rational numbers
- Relative location of geometrical shapes
- Sequences
- Solving problems by means of mathematical modeling
- Vectors and transformations

Effective Teaching Cycle

ANALYZE
identify misunderstandings,
difficulties and competencies

PLAN
build and rebuild
learning

MONITOR
observe and diagnose the
situation

EDUCATE
implement changes
in my teaching

ASSESS
take into account the depth
of understanding

PREDICT
build a model of
future results
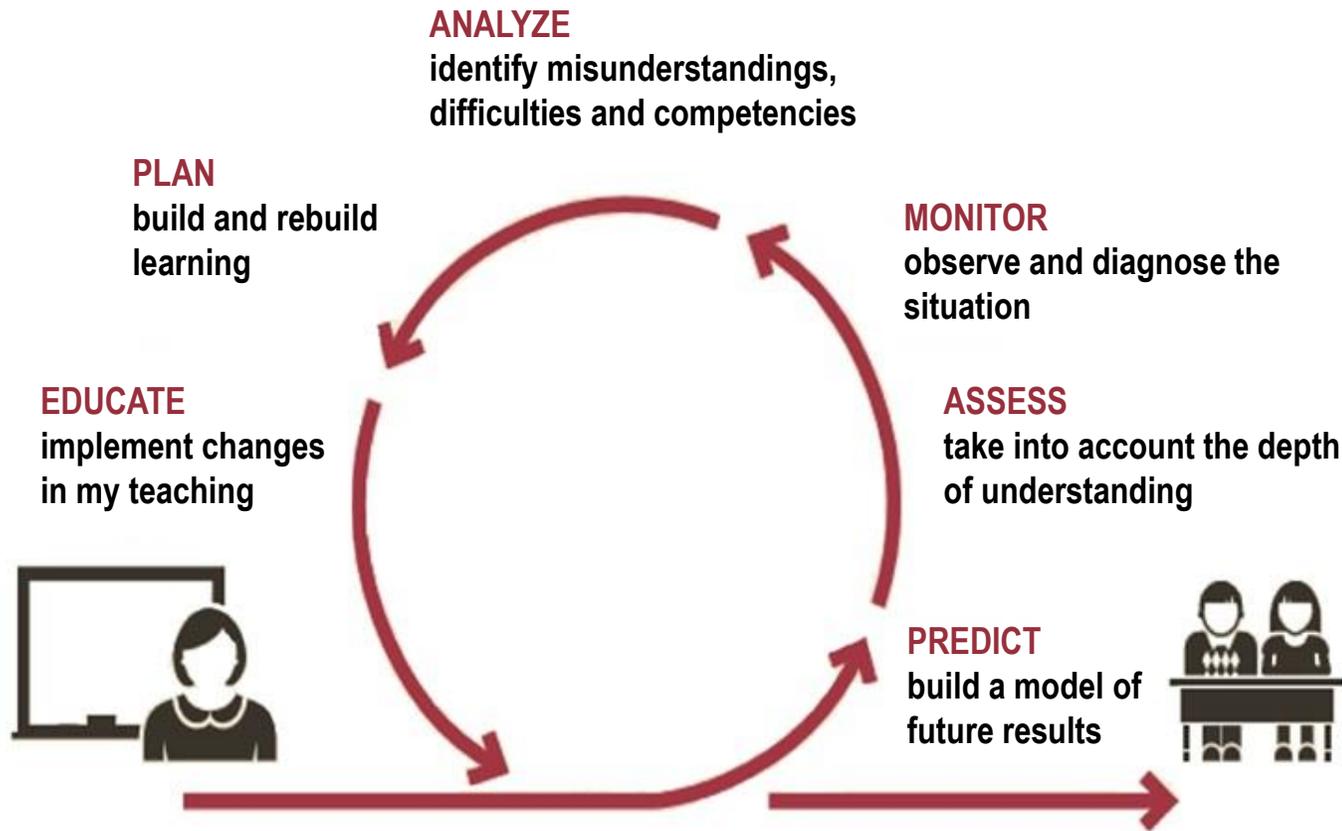
The grade proportion in External summative assessment

	2016 year	2019 year
A - A*	16,7	30,8
C - B	49,4	50,4
E - D	27,8	16,1
U	6,2	2,7

■ A - A* ■ C - B ■ E - D ■ U
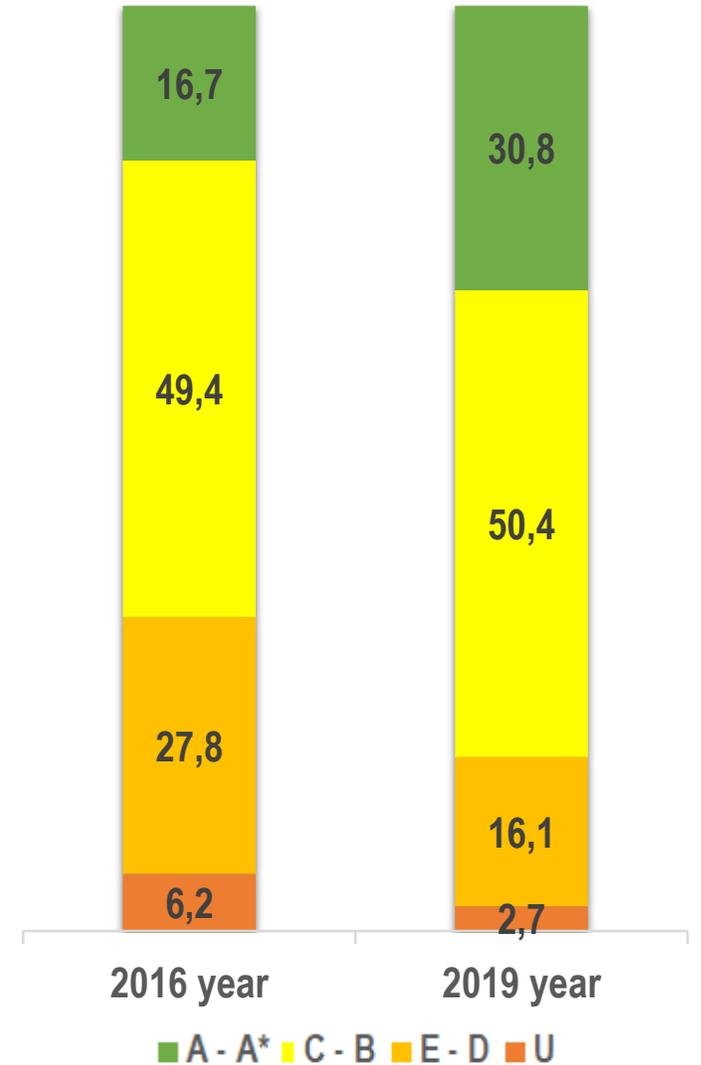
The system of professional development of teachers in Nazarbayev Intellectual schools

Implementation of conceptual approaches in the curriculum

Criteria-based assessment

Teaching and learning methodology

Language competency

ICT competency

A1 A2 B1 B2 C1 C2

Teacher professional development

at school

national

international

student

master

researcher

expert

moderator

teacher

intern

mentoring, coaching, training

attestation

Action Research

Lesson Study

Using in daily practice, presenting the results at international conferences, publications

Pedagogical practice of students
School of the future teacher
"Mugalim Ziyatker" talent scouting contest
CoE courses

Competitive selection

Great scientist
M. Lomonosov

Famous mathematician
N. Lobachevski

Well-known pianist of the XX
century S. Richter

*"If there is a profession that changes the world for the better every day, it is the profession of the **TEACHER**.*

THANK YOU FOR YOUR ATTENTION!