

# MODEL OF LIFELONG LEARNING: THE ECOSYSTEM OF UALIKHANOV UNIVERSITY

Strategy for Transforming Regional Human  
Capital within the Lifelong Learning Paradigm.



# LIFELONG LEARNING AS A KEY FACTOR IN THE DEVELOPMENT OF HUMAN CAPITAL AND COMPETITIVENESS



President of the Republic of Kazakhstan,  
Kassym-Jomart Tokayev

“

Lifelong learning is the key to a nation's competitiveness in the modern world. We must create conditions for the development of human capital.

”

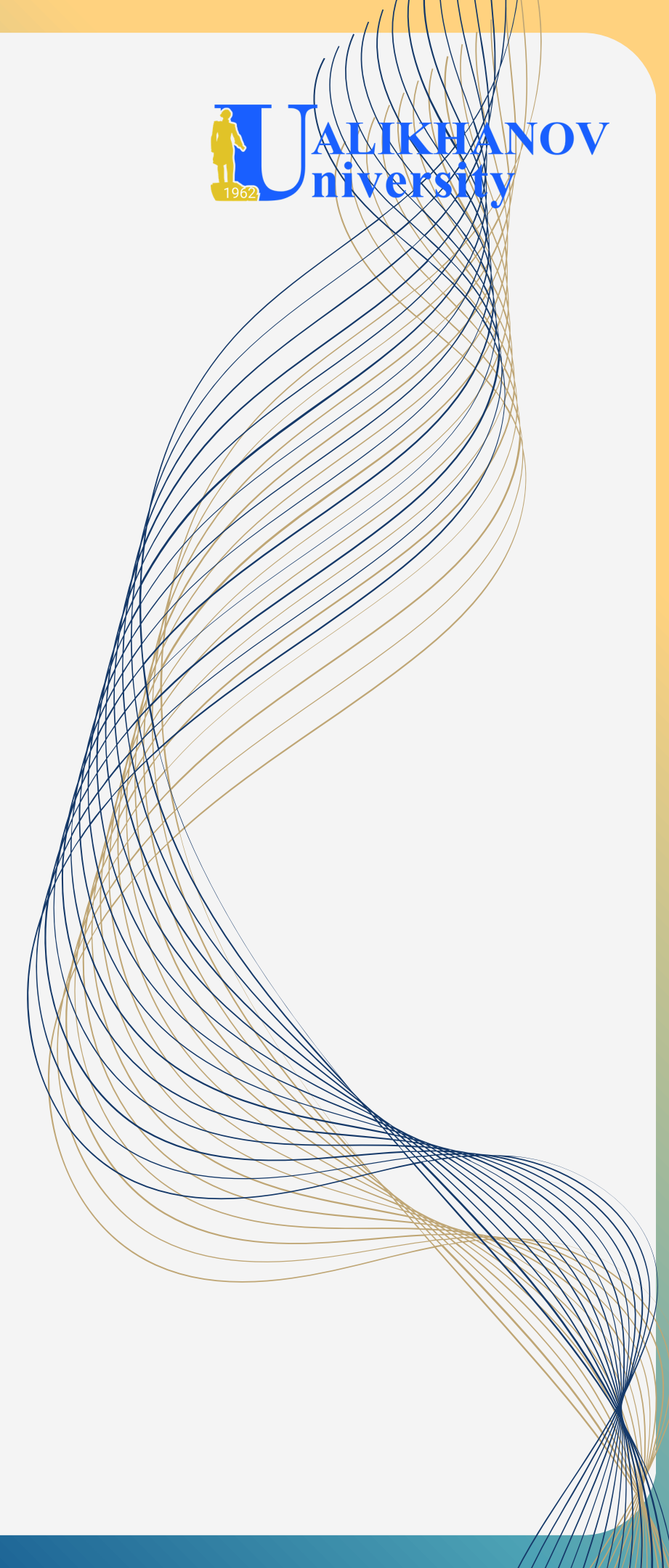


Minister of Science and Higher Education of  
the Republic of Kazakhstan,  
Sayasat Nurbek

“

The concept of lifelong learning is becoming the foundation of our educational policy. Universities must transform into platforms for continuous development.

”



# FOUNDATION OF THE ECOSYSTEM: STATE POLICY AND REGULATORY FRAMEWORK

## LIFELONG LEARNING ECOSYSTEM

**Legislative framework:**  
Laws of the Republic of Kazakhstan "On Education" and "On the Status of a Teacher."

**State strategy:**  
The Concept for the Development of Higher Education and Science (2023–2029), State Compulsory Education Standards (SCES), and Professional Standards for Teachers.

**Institutional mechanisms:**  
Rules for teacher retraining, professional development, and recognition of non-formal education outcomes.

# THE UNIVERSITY OF THE FUTURE: FROM STRUCTURE TO PLATFORM



**Static structure**



**Dynamic support platform**

The university of the future is not a static structure, but a dynamic support platform for lifelong learning.

**Context:** The development of lifelong education is enshrined in the Concept for the Development of Higher Education and Science of the Republic of Kazakhstan (2023–2029). Ualikhanov University acts as a key partner in regional development, ensuring adaptation to the requirements of the labor market.

# LEARNER'S EVOLUTION: A CONTINUOUS ORBIT OF DEVELOPMENT

Supporting individuals at every stage of their personal and professional growth through the Institute of Lifelong Education.

## ACTIVE CITIZEN

The Third Mission and Longevity

05

## PROFESSIONAL

Adaptation and upgrading

03

04

## HEAD

Strategic thinking

## APPLICANT

Entry point and integration

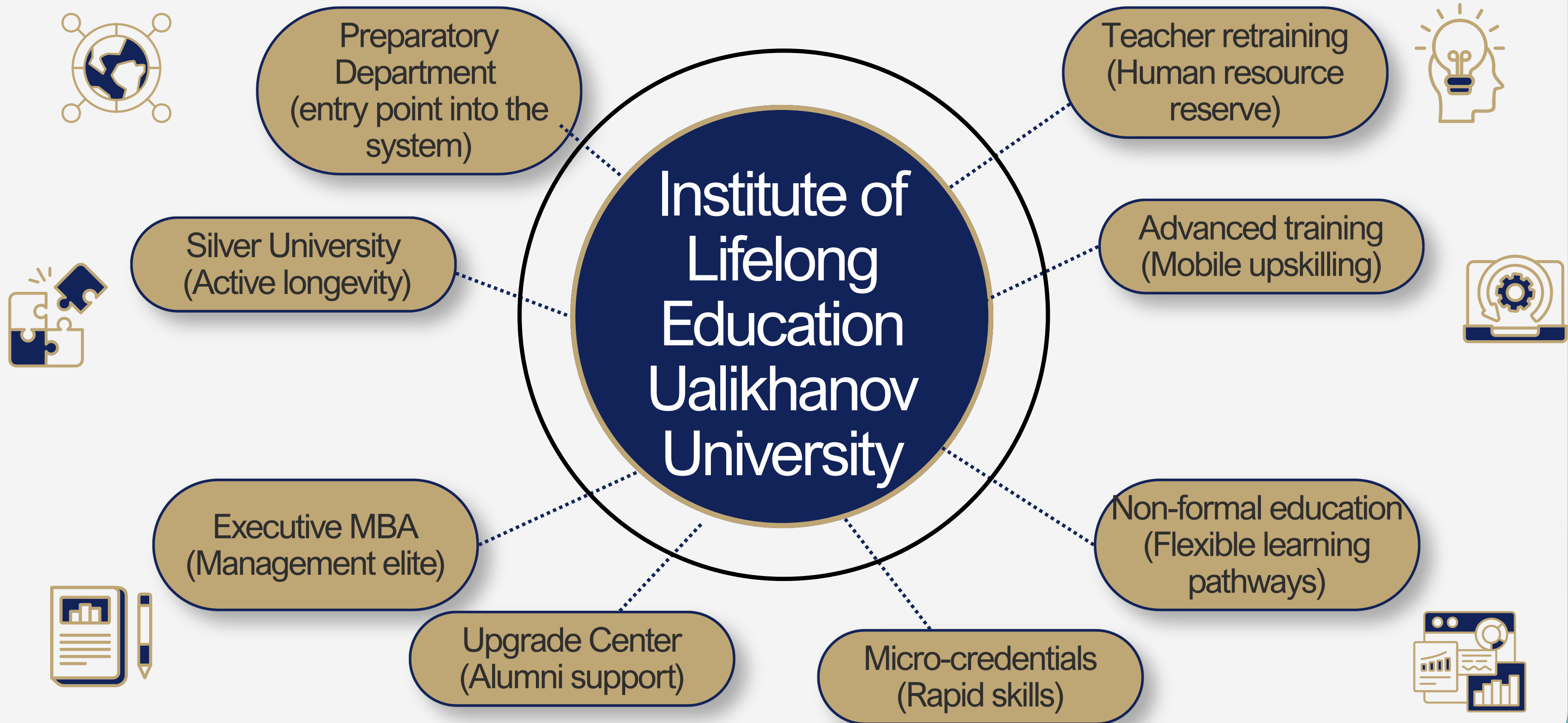
01

02

## STUDENT

Academic foundation

# ARCHITECTURE OF THE LIFELONG LEARNING ECOSYSTEM



# STAGE 1: INTEGRATION AND ACCESS TO EDUCATION

## FOCUS: PREPARATORY DEPARTMENT



**Target audience:**  
Foreign citizens  
and  
representatives  
of the Kazakh  
diaspora  
abroad.

### **Academic preparation**

(Passing the Unified National Testing for admission to universities in the Republic of Kazakhstan)

**Language  
foundation**  
(Trilingualism:  
Kazakh,  
Russian, English)

**Socio-cultural  
adaptation**  
(History, culture of  
Kazakhstan, legal  
framework of stay)

**Key conclusion: A mechanism for social integration and expansion of the demographic potential of higher education.**

# STAGE 1: INTEGRATION AND ACCESS TO EDUCATION

## FOCUS: PREPARATORY DEPARTMENT

Duration of study: 9 months

Workload: 1,800 academic hours / 60 credits

### Structure of the educational program

Mandatory component

Elective component

University component

01

- History of Kazakhstan
- Reading literacy
- Mathematical literacy
- English language

02

- Biology
- Physics
- Chemistry
- Mathematics
- Geography
- Computer Science
- Kazakh Language / Literature
- Foreign Language
- World History

03

- Preparation for the Unified National Testing (UNT)
- Acmeology

# STAGE 3: PROFESSIONAL ADDRESSING THE REGIONAL TALENT SHORTAGE

Teacher retraining is aimed at preparing specialists with higher education who do not have a pedagogical background to carry out teaching activities.

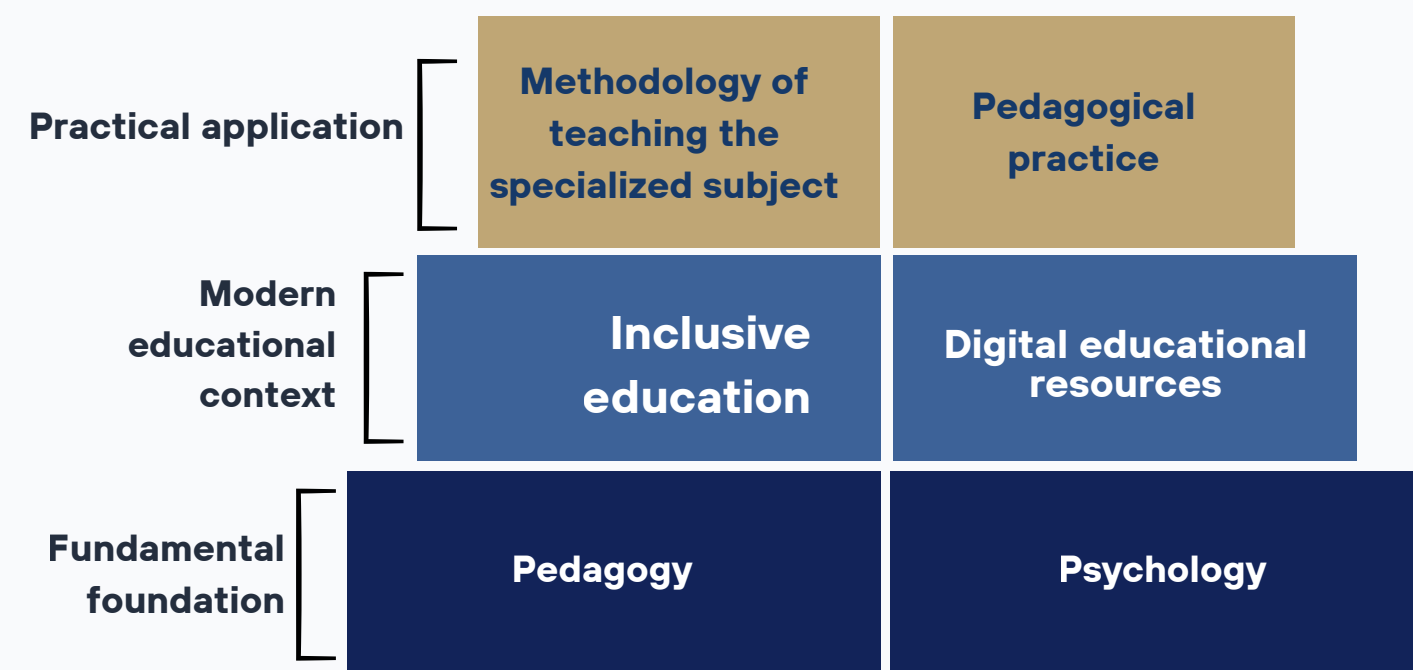
Program workload:

40 credits – 1,200 academic hours

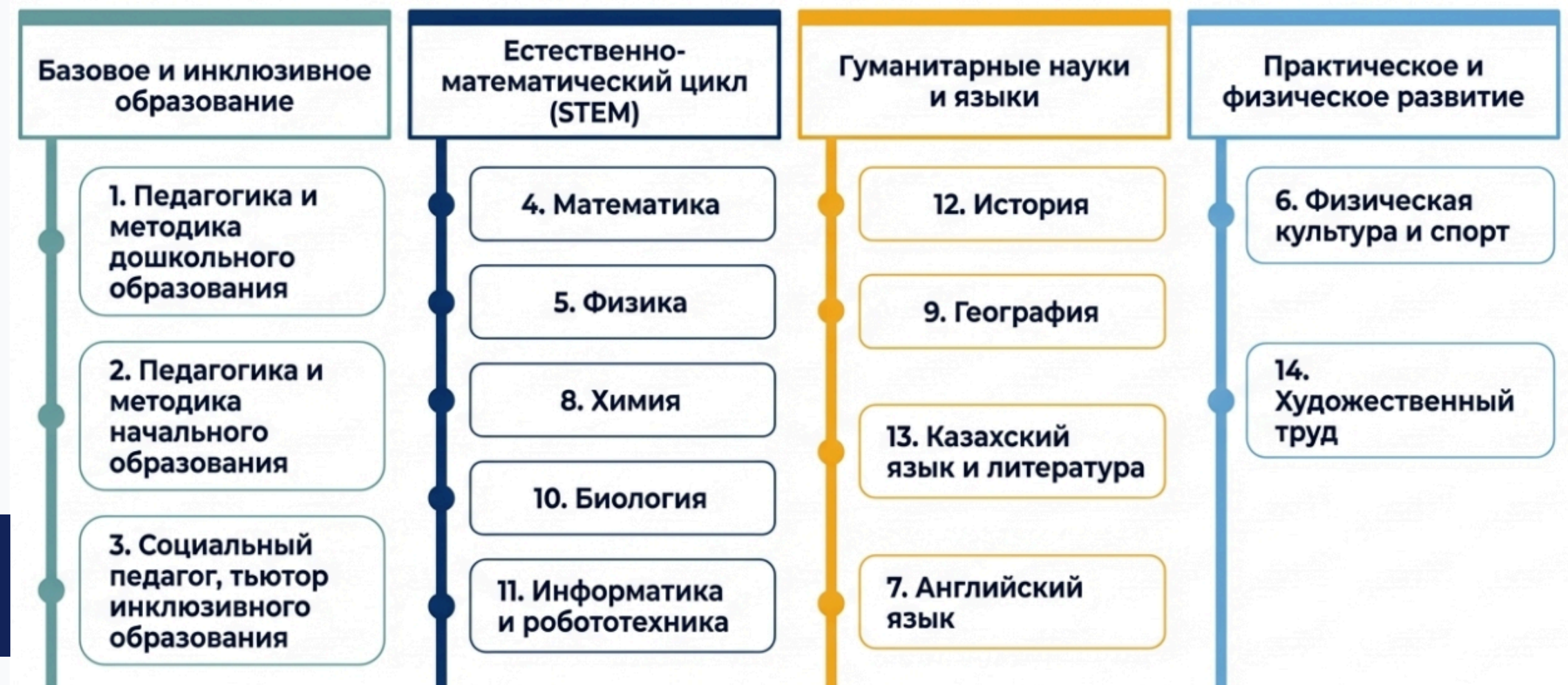
The program is implemented in accordance with the Order of the Minister of Education and Science of the Republic of Kazakhstan dated March 17, 2020, No. 110 "On approval of the Rules for teacher retraining."

Educational programs for teacher retraining in the 2023–2024 academic year have been developed and included in the register of the European Higher Education Area (EHEA).\*\*

## Six core modules for developing a modern teacher



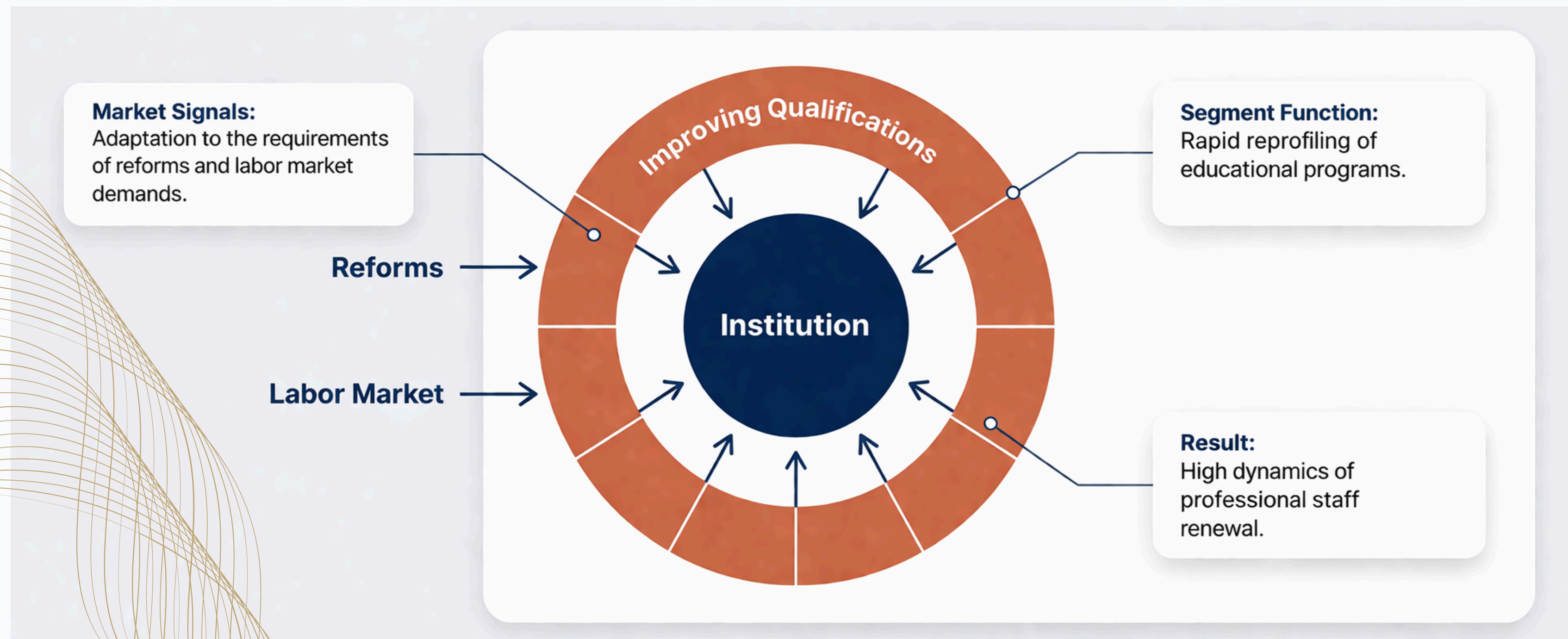
## 14 направлений подготовки: Матрица профилизаций



# SYSTEM OF PROFESSIONAL DEVELOPMENT ENGINE OF PROFESSIONAL RENEWAL

The main goal of the system is the rapid updating and deepening of professionals' competencies in line with modern requirements.

Course workload: 36/72/80 hours



# TEACHER PROFESSIONAL DEVELOPMENT (ADVANCED TRAINING OF TEACHERS)

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In 2024, the NCJSC “Sh. Ualikhanov Kokshetau University” was included in the Register of organizations implementing professional development courses for teachers of secondary schools and technical and vocational education organizations, approved by the Ministry of Education of the Republic of Kazakhstan. Within this area, the university has developed and approved 10 professional development programs for teachers.

1. **STEM approach in teaching Chemistry**
2. **Development of practical assignments for the Geography course in Grades 10–11**
3. **Planning and organizing students’ scientific research in Biology using artificial intelligence**
4. **Advanced concepts of Python programming**
5. **Modern trends in History teaching methodology**
6. **Modern trends in German language teaching methodology**
7. **Digital and mobile technologies in the training of educators, preschool teachers, and primary school teachers**
8. **Innovative technologies in teaching the Kazakh language and literature: key directions and methods**
9. **STEAM technologies in English language lessons**
10. **Integration of the STEM approach in education: strategies and methods for teachers**

**Course workload: 80 hours**

## STAGE 3: ADDRESSING THE REGIONAL TALENT SHORTAGE (PROFESSIONAL)

**466** listeners

Have completed teacher retraining courses (over 3 years).  
The majority are already employed in regional educational institutions.

**1191** people

Have completed professional development programs (over 3 years).  
This confirms a high level of dynamic professional workforce renewal.

The university acts as a driver of regional workforce stability, developing professionals capable of responding to environmental changes.



# Adaptive Tools: Synthesis of Training Formats

## Synthesis of Training Formats for Adults

	<b>Pedagogical retraining</b>	<b>Professional development</b>	<b>Non-formal education</b>	<b>Microqualifications</b>
<b>Target audience</b>	Persons with higher non-pedagogical education	Employees of various organizations, teachers of secondary schools and vocational schools, university professors	Specialists of various professional fields and age categories	Specialists interested in the rapid development of new professional competencies
<b>Format/term</b>	40 credits 6.5 months	Short-medium term	Prerequisites (Master's degree, doctoral studies), additional credits	Compact, practical-oriented
<b>The key task</b>	Filling the staffing gap in schools	Digital transformation, functional literacy	Bridging academic gaps, flexible trajectories	Quick reaction to the labor market
<b>Result</b>	Perpetual certificate with the right to teach	Rapid updating of competencies	Individualization of training	Certificate/digital badge

# Market Flexibility: Ecosystem of Micro-Qualifications

Developed based on Order of the Ministry of Education and Science of the Republic of Kazakhstan (Order No. 319) dated June 23, 2025. Focus on specialized applied skills and digital badges.

**Career Guidance Educator**  
(internal program)

**Personnel Consultant**  
(with Akmola Region Justice Department)

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(with Akmola Region Justice Department)

**«STEM Educator**  
(with Caravan of Knowledge PKF)

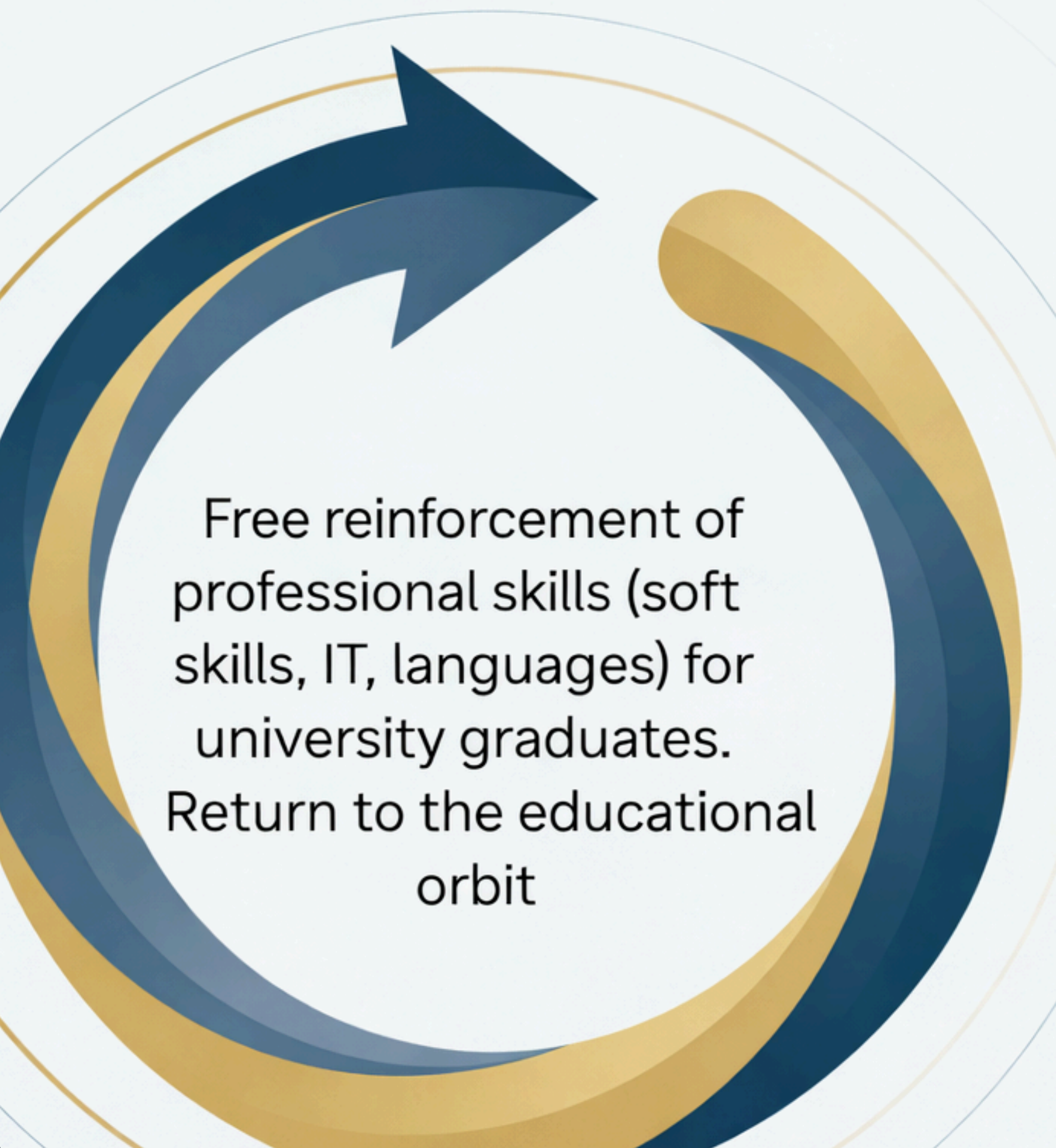
**«Teacher Assistant**  
(with Secondary School No. 4 in Kokshetau)

**«Scout Leader**  
(with "Duman" Youth Organization LLP)

**Travel Instructor**  
(with the Tourism Industry Association of Akmola Region)



# New Responsibility Model: Upgrade Center (Launch: December 2023)



Free reinforcement of professional skills (soft skills, IT, languages) for university graduates. Return to the educational orbit

## Course Demand (2025–2026)

Emotional Intelligence

**33 listeners**

Cybercrime Counteraction

**20 listeners**

Business English

**19 listeners**

English Boost  
(Academic)

**11 listeners**

Inclusive Education  
(IE)

**11 listeners**

# Stage 4: Formation of the Management Elite (Executive)

**Focus:** Executive MBA Program “Corporate Management” (7M04107).

**Target Audience:** Business leaders and owners. Integration of real business cases.



# Stage 5: Third Mission and Active Longevity (Active Citizen)

**Focus:** Silver University (5 years of successful operation)

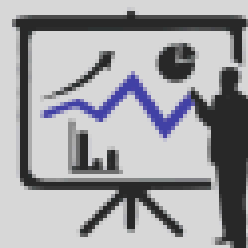




**Silver  
University**

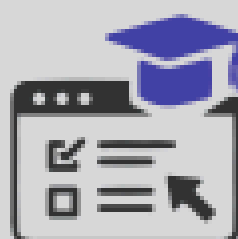


**Lifelong Learning  
a strategic priority  
of educational policy**



**The Third Mission of Universities social  
responsibility of higher education  
institutions and their contribution to  
societal development**

**National Educational Policy  
an inclusive educational  
environment and education  
for all generations**



**University Development  
Strategy Ualikhhanov University  
Development Program 2023–2029**



## Results and Educational Areas

Results and Educational Areas

**2021:** Launch of the Silver University  
**5** Years of development  
**24** Educational programs  
**600+** Students



### Academic Model

2 Semesters  
32 Hours per course  
2 Hours of classes per week  
Practical learning formats

### Key Focus Areas

Digital Competencies  
Intellectual Development  
Culture and Creativity  
Health and Active Longevity



**«COGNITIVE FUNCTIONS as a psychological aspect of the process of reintegrating third-age individuals into modern society»**  
 Laboratory of Pedagogical Innovation

**«ASSESSMENT and IMPROVEMENT OF PHYSICAL HEALTH through the use of interdisciplinary and integrated strategies»**  
 Life Sciences and Health Center

Professional development course for faculty: "Psychological and pedagogical foundations of adult education" — 72 hours

**«LEVEL OF ENGAGEMENT in mastering computer and digital technologie»**  
 Department of Information Technology

Ualikhhanov University **Start-UP «Senior Travel»**  
 (Department of Business and Services)

**17** excursions

- Astana
- Burabay
- Shalkar
- Imantau
- Zerenda
- Syrymbet

First international trip to **Uzbekistan**  
**30** students

October 10, 2025 → trip to **China**  
**14** students

Ualikhhanov University **Intergenerational Projects**

**DIALOGUE** between student-volunteers and the older generation

Workshops, excursions, language training





# Results

## Intergenerational projects

- Master classes
- Excursions
- Language trainings

## Author's tours

- Akmola region
- Kazakhstan
- Abroad

## Scientific research projects

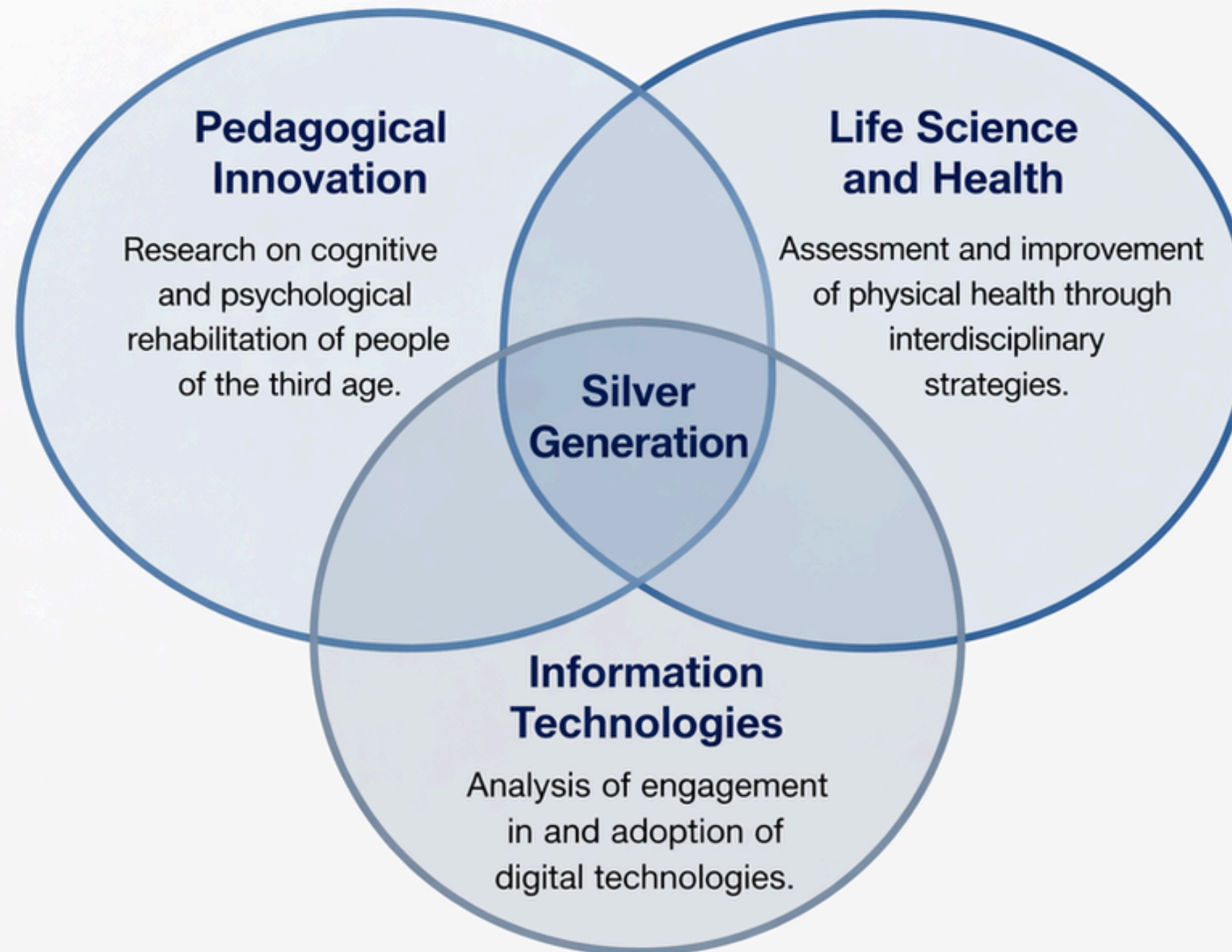
- Assessment of physical health
- Psychological aspects of the third age
- Involvement in digital technologies

## International cooperation

- Membership in the Association of Universities of the Third Age
- Memorandum with Hong Kong Metropolitan University

# Research Integration: Studying the Issues of the Silver Generation (2025)

The practical experience of Silver University is transformed into fundamental research.



**Outcome:** Data is integrated into courses for professional development of educators, creating a closed cycle of continuous education.

# Strategic Results: Institutional and Regional Effect



## **Systemic Integration into the National Strategy**

Ualikhhanov University is building a systemic, institutionally sustainable model of lifelong learning, fully integrated into Kazakhstan's national development strategy.

We are ready to share our accumulated experience and are open to strategic partnerships in advancing lifelong education.

