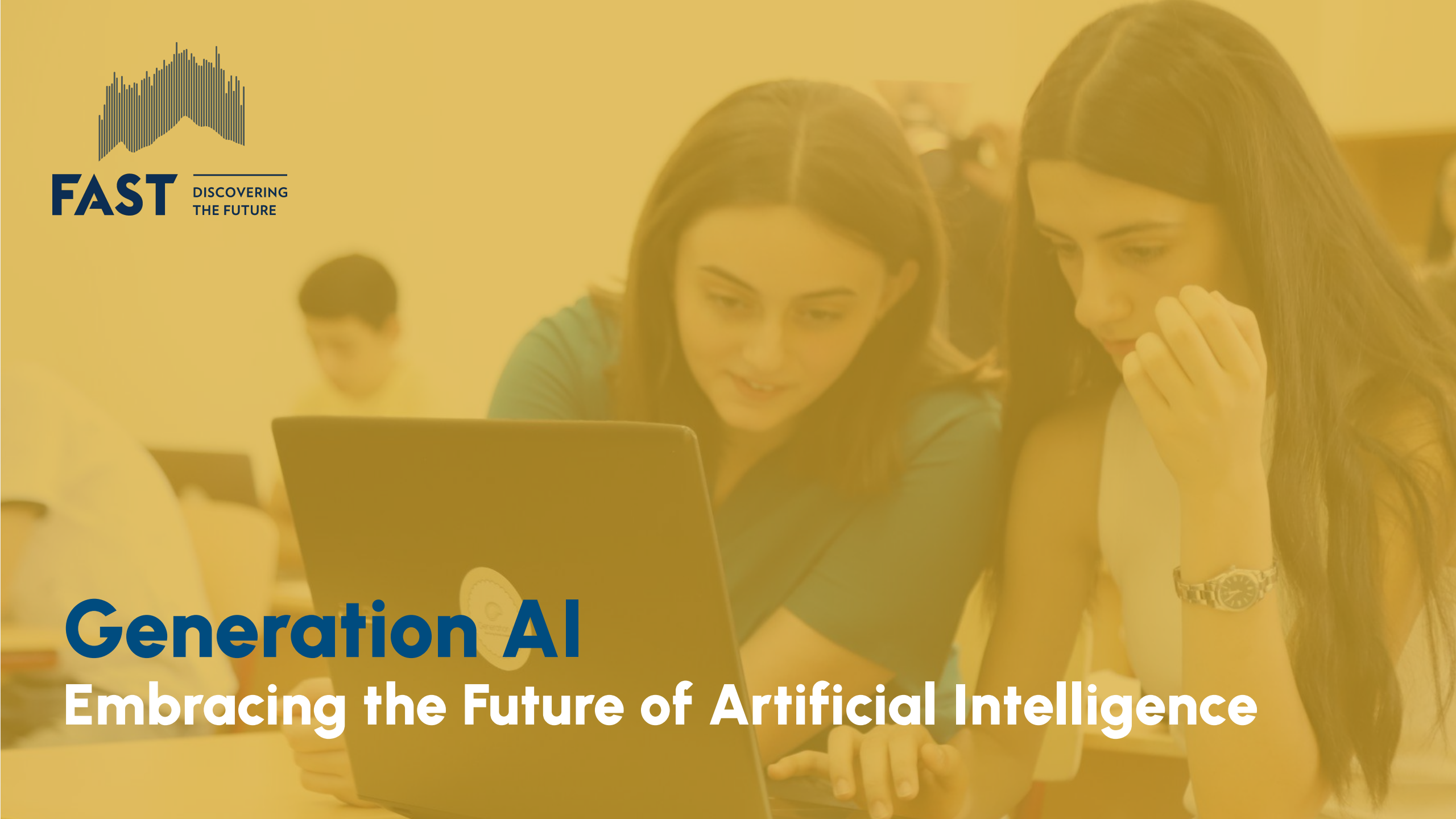
FAST
DISCOVERING
THE FUTURE



Generation AI

Embracing the Future of Artificial Intelligence

About Foundation for Armenian Science and Technology (FAST)

Since 2017, FAST has been building an **innovation ecosystem** to support scientists, technologists, and innovators in Armenia and propel them toward global success.

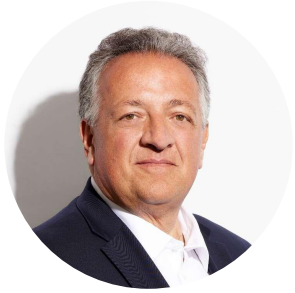
Focusing on science and innovation, **FAST empowers innovators** to bring cutting-edge, and globally competitive solutions to life.

We team up with academic institutions, government bodies, non-governmental organizations, and global players to ensure our impact reaches far and wide. Together, we're generating positive results that align with our core mission and values, inspiring and enabling positive change on a global scale.

Our Leadership

Board of Trustees

ANDRÉ ANDONIAN
FAST Chairman of the Board;
Chairman Emeritus North Asia,
Special Advisor at McKinsey &
Company



DR. NOUBAR AFEYAN
FAST Co-Founder;
Founder and CEO of Flagship
Pioneering, Co-Founder and
Chairman of Moderna

ARTUR ALAVERDYAN
FAST Co-Founder ;
Founder of SolarOn, Owner
and Chairman of ProfHolod

DR. INGRID HENGSTER
Managing Director,
Country CEO
Global Chairman Investment
Banking at Barclays Germany

CEO

DR. ARMEN ORUJYAN
Founding CEO of FAST

We created FAST to realize our vision of Armenia's future: as a world leading hub of innovation and creativity, with a new generation of talent focused on science and technology, engineering, and math.

Dr. Noubar Afeyan

Our Leadership

Dr. Mary A. Papazian
Chair of the Board

Executive Vice President,
Association of Governing Boards of Universities and Colleges
Former President, San Jose State University
USA

Dr. Garabed Antranikian

Director, Center for Biobased Solutions, TUHH
Germany

Armen Askijian

Chief Technology Officer, Head of Engineering Airbus U.S. Space & Defense, Inc.
USA

Hovhannes Avoyan

CEO and Founder, Picsart
Armenia

James Chavin

President, Teza Technologies
UK

Lord Ara Darzi of Denham

Co-Director, Institute of Global Health Innovation at Imperial College, London
UK

Gabrielle Gauthey

CEO High Representative, Senior Vice-President for European Public Affairs
Total Energies
France

Dr. Avak Kahvejian

General Partner, Flagship Pioneering
USA

Dr. Sarkis Kiramijyan

Interventional Cardiologist, Director of Structural Heart Disease Program, Adventist Health White Memorial Hospital
USA

Ari Libarikian

Senior Partner, McKinsey & Company
USA

Serge Tchuruk

Consultant, Former Chairman, Alcatel-Lucent Enterprise
France

Dr. David Yang

Serial Entrepreneur, Founder, ABBYY
USA

Our Pillars of Impact

26
programs

12,000+
beneficiaries

EDUCATION

2600 participants directly trained in AI and entrepreneurship

3500+ training hours

RESEARCH

250+ researchers funded

85+ scientific papers in international journals

COMMERCIALIZATION

49 angel investors engaged

35 startups funded

270+ startups benefited

Generation AI

Nurturing Future Innovators

Generation AI High School Project

Changing the Future of Armenia with Transformative Education

Harnessing AI to Propel Armenia's Digital Future

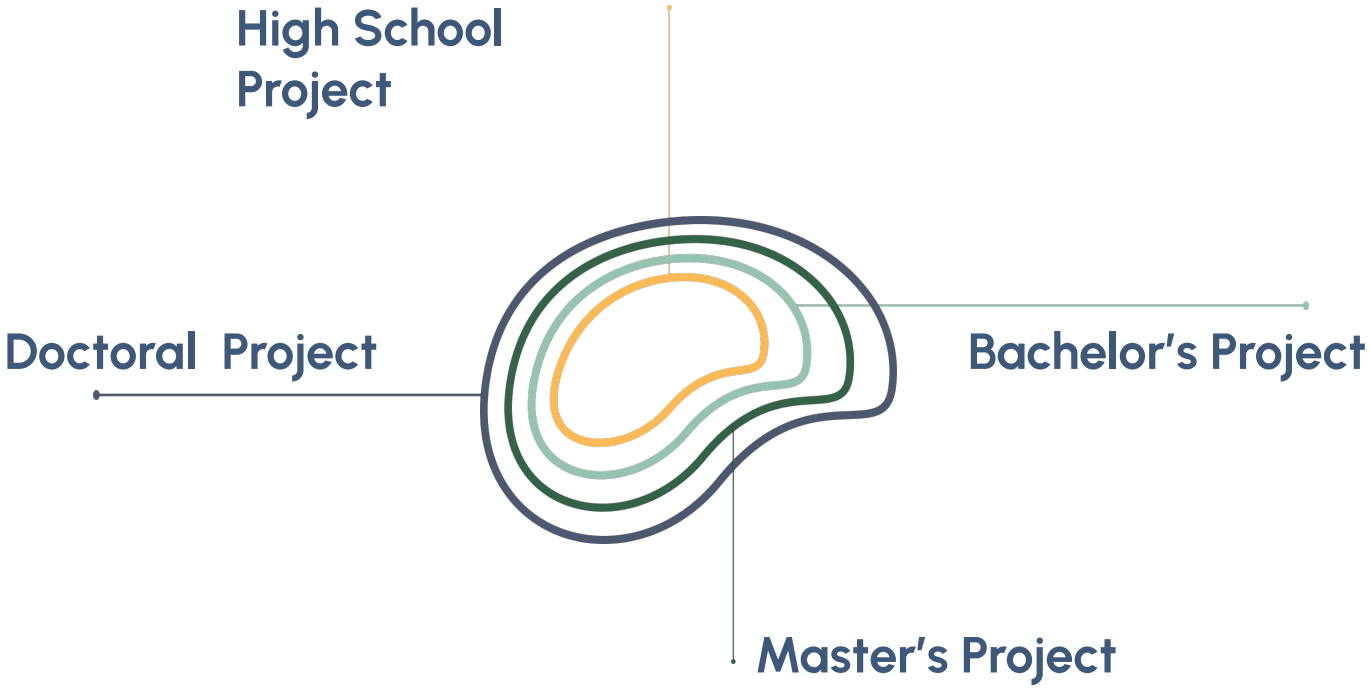
With large-scale expansion of AI on global markets, it is predicted to generate a **$459.3 billion market by 2030**.

Since 2017, FAST has been at the forefront of bringing AI advancements to Armenia. And today, we're taking another big step forward with the Generation AI program. This initiative is focused on creating a **sustainable education pathway** that will help nurture talented individuals for successful careers in AI. Our ultimate goal is to not only stimulate growth in the local AI sector, but also meet global demands for AI talent and **drive innovation** in the field.

Generation AI: A multi-layer solution

Generation AI aims interventions at all education levels, starting with high school level. Further, at the university level, projects focus on program revisions, new course development, project-based learning, and research engagement at bachelor's, master's, and doctorate levels.

The project is being implemented in partnership with the Ministry of Education, Science, Culture, and Sports with a vision of scaling it to **more public institutions and regions** in the coming years.



Objectives of Generation AI High School Project

Developing

Deliver skills in advanced mathematics and computer science, foundational for learning AI and overall tech proficiency

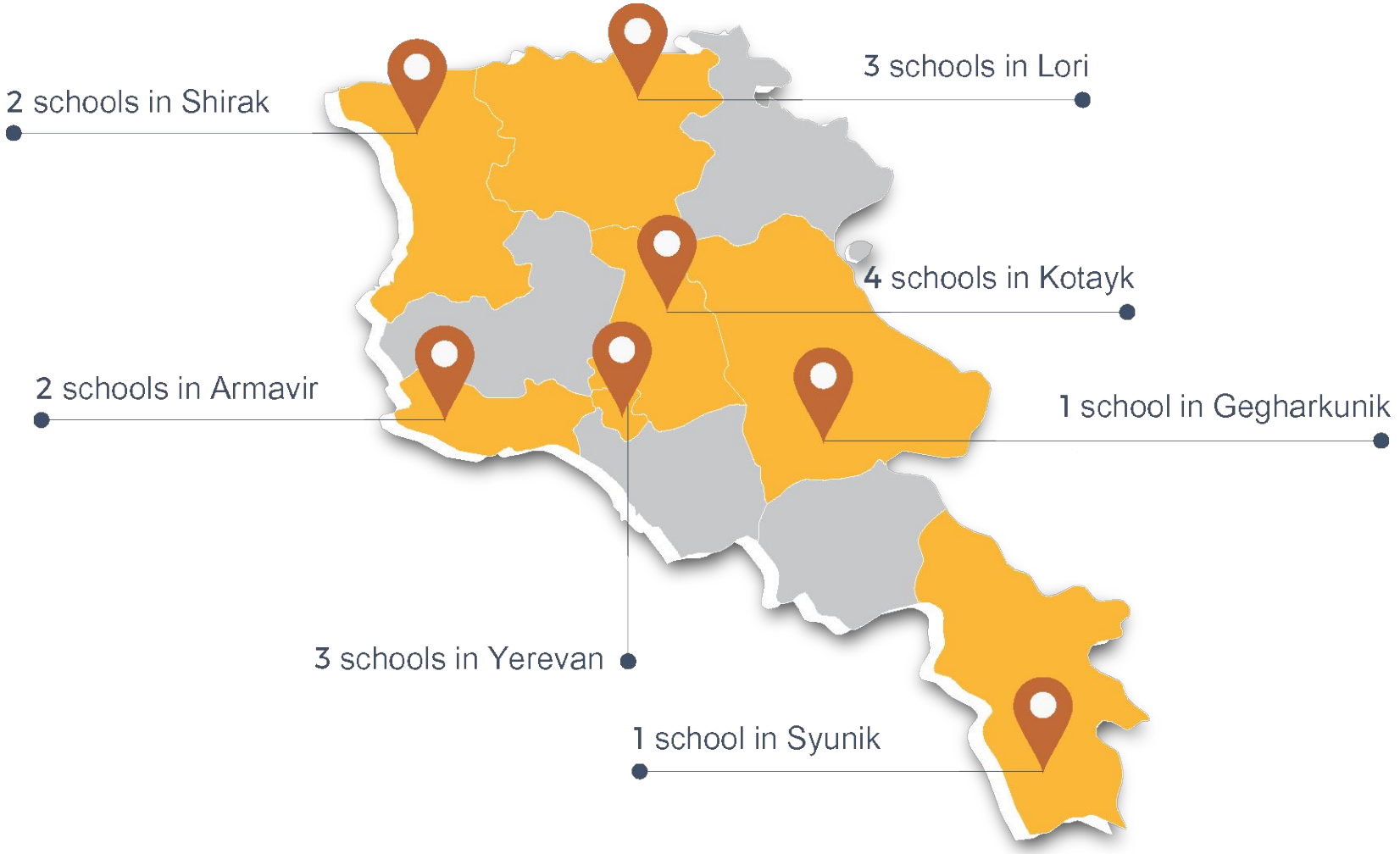
Motivating

Raise student literacy and motivation towards AI and STEM research & innovation careers

Upskilling

Provide differentiated AI education for high school students

Generation AI High School Project 2023-2026



16

Participating Schools

7

Regions Across Armenia

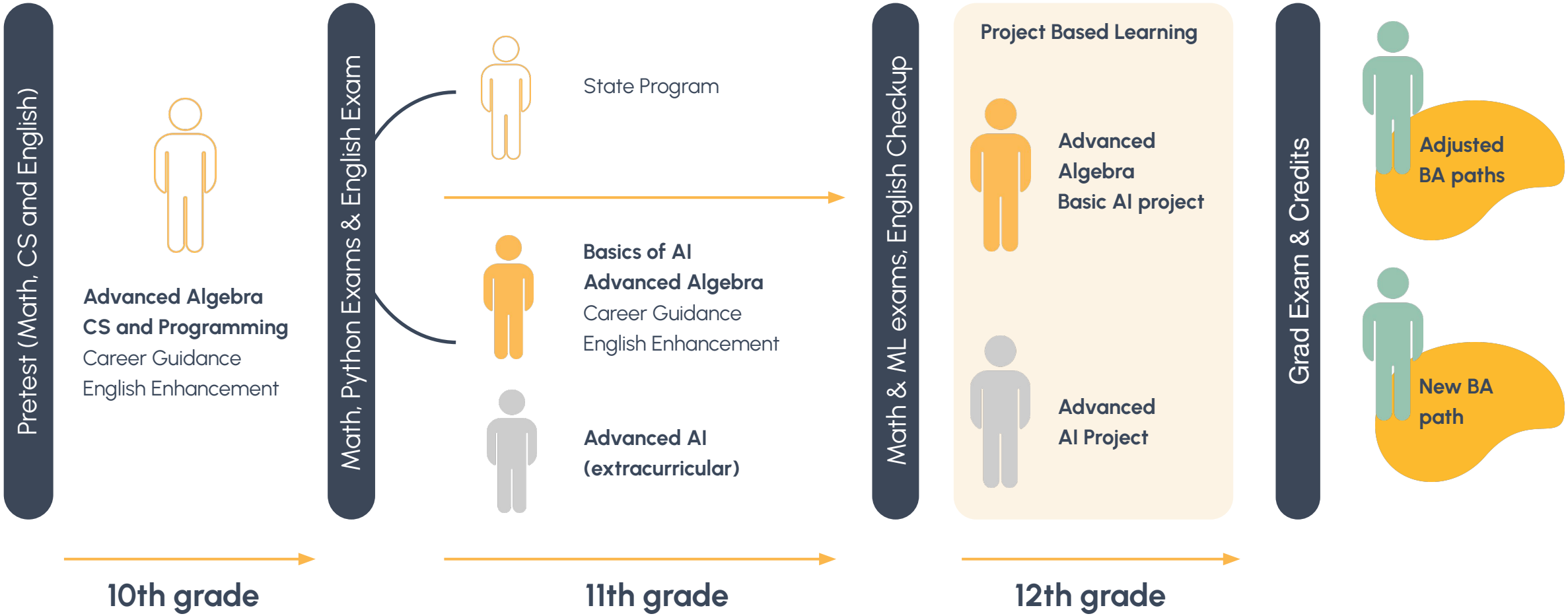
58+

Teachers and Instructors

400+

High School Students

Student Learning Path



Content multi-layered expert validation

To ensure that the program meets the highest international standards and effectively addresses Armenia's specific needs, we follow a comprehensive validation process.

High-level international experts in the field of education

Local and international experts from academia and industry

Local and international curriculum, content, assessment specialists

Specialists and partners for teacher training and mentoring

Specialists and partners for career guidance program

Advisors of Generation AI program

Pioneers in Education, Statistics, and Institutional Leadership

ALICE PETROSSIAN

Served as Chair of the California Commission for Teacher Credentialing, President of the California Community Colleges Board of Governors, and Trustee of the California State University System.

DR. ARNAK DALALYAN

Professor of Statistics at ENSAE, Institut Polytechnique de Paris, and the Director of the Center of Research in Economics and Statistics (CREST). Currently serves as Associate Editor for several statistical journals.

DR. MARY A. PAPAZIAN

Dr. Mary Papazian most recently served as the 30th president of San José State University (SJSU). She holds 35 years of experience as a university professor, academic and administrative leader.

Content Development Experts

Ashot Abrahamyan

Candidate of Technical Sciences,
International Education Expert,
Lecturer of Mathematics and
Computer Science

Khatchig-Hrag Derjian

Mathematics teacher, mathematics
content developer and teacher
trainer at Aslan Seminary in
Lebanon

Martin Mirakyan

Master's graduate,
Instituto Superior Técnico, Portugal
Co-founder of Profound Academy

Content Development Experts

Dr. Hrayr Harutyunyan

Research Scientist at Google Research
PhD in Computer Science, University of Southern California

Vahan Huroyan

ML Researcher at YerevaNN Research Lab, ML course instructor at YSU and ACA, Ph.D. in Mathematics, University of Minnesota

Tsolak Ghukasyan

NLP researcher and lecturer from Russian-Armenian University, Ph.D. in Computer Science, RAU

Varazdat Avetisyan

AI specialist at SASTIC, Co-founder, CTO Luseen Mobile, Trainer, Lecturer, PhD in Computer Science,

Program Taskforce

The program curriculum and all learning materials developed in the scope of the program are reviewed by our Taskforce which includes teachers, lecturers and experts from various educational institutions and industry leaders.

Ayb Educational Foundation

AUA American University of Armenia

Profound Academy

drone EDULAB

QUANTUM ՔՎԱՆՏ

Քառակուսի

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High School Pilot Stage Budget Distribution

16 schools | 3 years | $2 mln

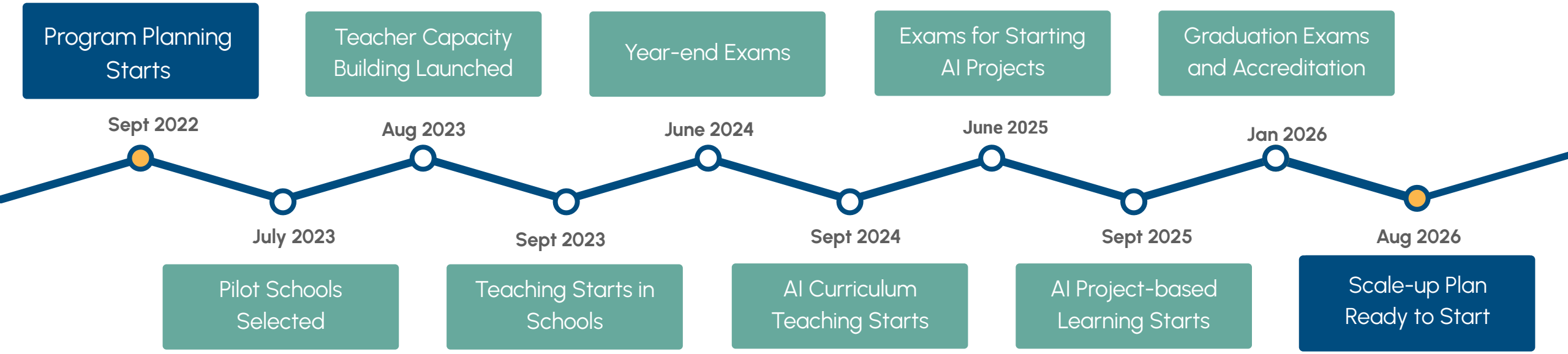
12%
Career Guidance and Students' Skill Enhancement

28%
Curriculum and Educational Resources Design

24%
Schools' Computer Labs Enhancement

36%
Teachers Recruitment, Capacity Building and Remuneration

High School Pilot Stage Timeline



Impact assessment and Revision for Improvement and Scale-up

PARTNERSHIPS

Strategic Partner

MINISTRY OF EDUCATION, SCIENCE, CULTURE AND SPORTS OF THE REPUBLIC OF ARMENIA

MINISTRY OF HIGH TECH INDUSTRY OF THE REPUBLIC OF ARMENIA

Knowledge Partners

Ayb Educational Foundation

ZLENK

ARMENIAN CODE ACADEMY

Profound Academy

Քառակուսի

GTL MISTI GLOBAL TEACHING LABS IN WALES

ANALYSIS GROUP

SUPPORTERS

Computer Lab Supporters

VESTA

Coca-Cola Hellenic Bottling Company

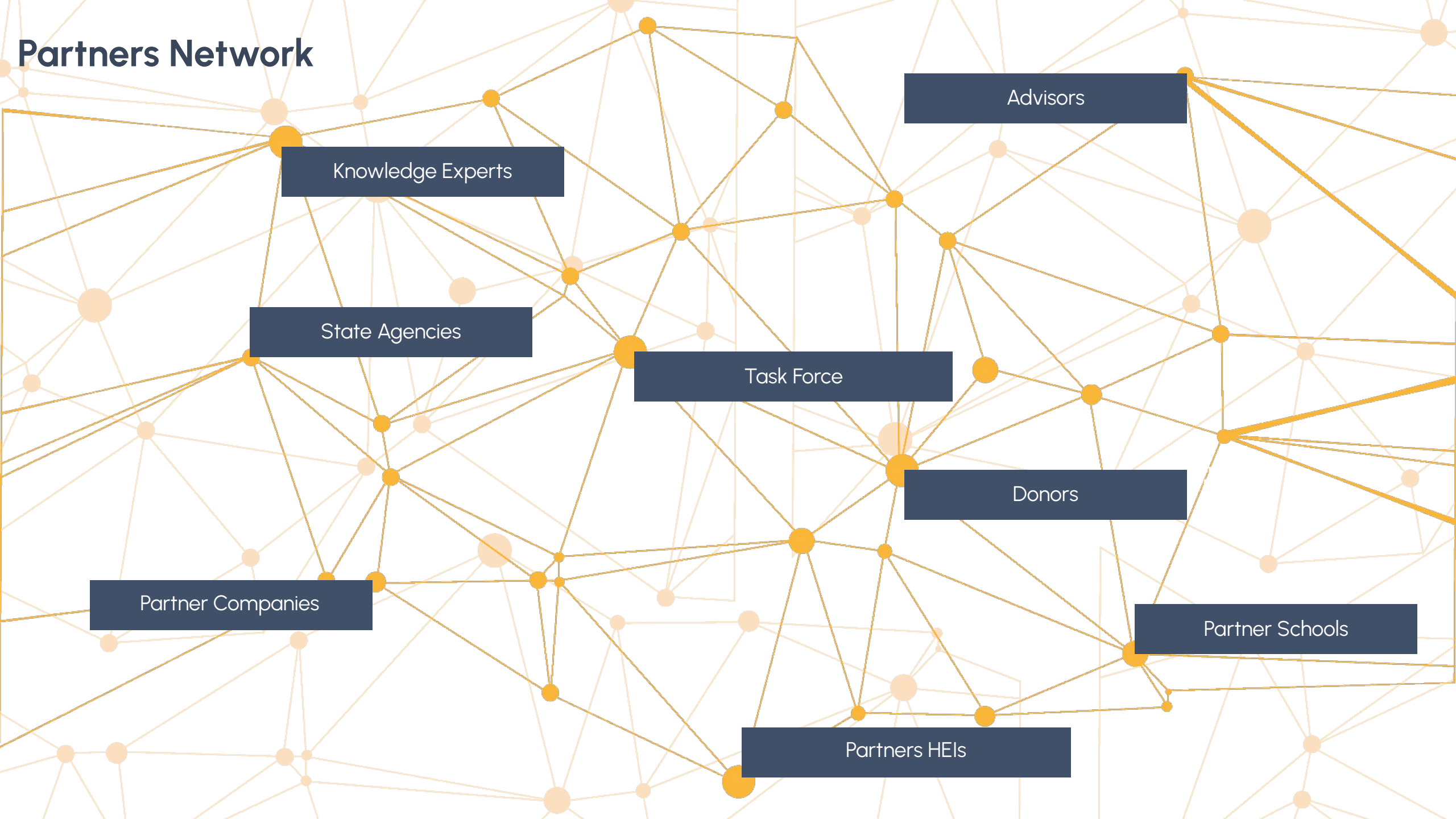
cognaze™

School Supporters

Ashot Hovanesian

Sarkis and Zaruhi Galadjian

Partners Network



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MINISTRY OF EDUCATION,
SCIENCE, CULTURE AND SPORTS
OF THE REPUBLIC OF ARMENIA

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