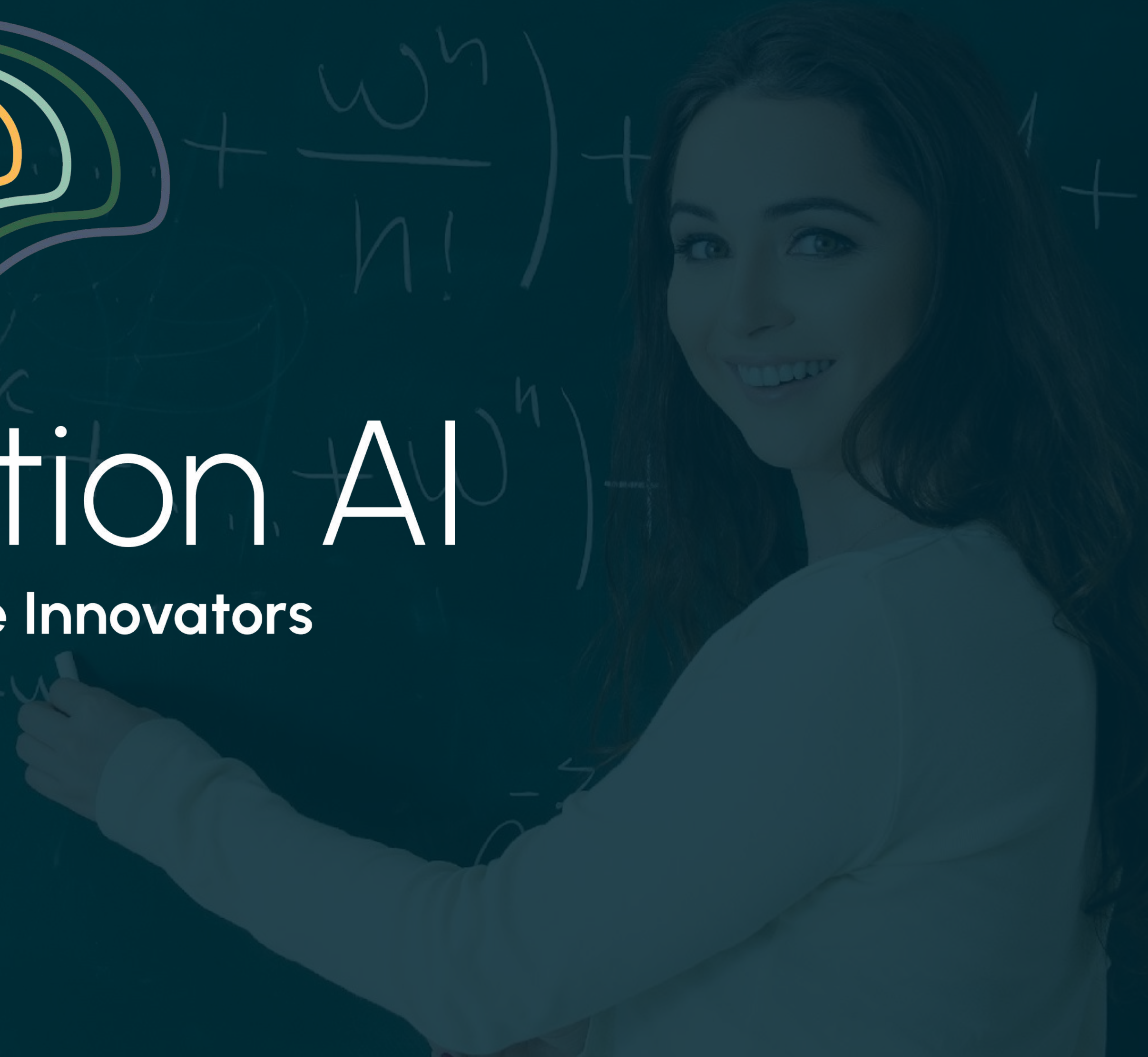




Generation AI

Nurturing Future Innovators





Foundation for Science and Technology

Inspired by tomorrow, FAST is building an ecosystem of innovation to accommodate scientists, technologists, and innovators in Armenia and beyond to succeed globally. We not only empower innovators to bring cutting-edge, commercially viable, and globally competitive solutions to life but also architect novel platforms for in-depth training and knowledge transfer to students and educators through projects in Education, Research, and Commercialization - core science ecosystem drivers.

FAST aims to play a critical role in Armenia's leapfrog and transformation into a top global innovator by 2041.

Co-Founders



Dr. Noubar Afeyan

Founder and CEO of
Flagship Pioneering,
Co-Founder and
Chairman of Moderna Inc.



Artur Alaverdyan

Serial Entrepreneur,
Venture Investor,
Founder of SolarOn
company



Ruben Vardanyan

Social Entrepreneur,
Venture Philanthropist,
Founder of RVVZ
Foundation



Ayb
Educational Foundation

Our Pillars



Education

School and university programs targeting system changes



Research

Developing and financing scientific programs



Commercialization

Creating opportunities for commercialization of the scientific results

26
projects

9,000+
stakeholders



Generation AI
Nurturing Future Innovators

Generation AI

Creating an educational and career pipeline for the AI researcher and innovator starting from the high school level.

Generation AI Educational Program



Multi-stage program starting from schools to HEIs.



The pilot stage starts in September 2023 and will involve about 10 (ten) high schools in Yerevan and regions.

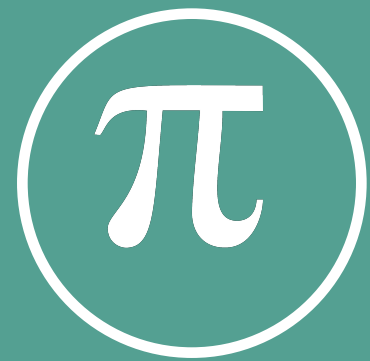


Enablers

Strategic Partner is the RA Ministry of Education, Science, Culture, and Sports of the RA.

Implemented in collaboration with local educational organizations and AI industry.

Generation AI: High School Project Purpose



Developing

Provide prerequisite competencies in advanced mathematics and computer science needed for learning AI



Motivating

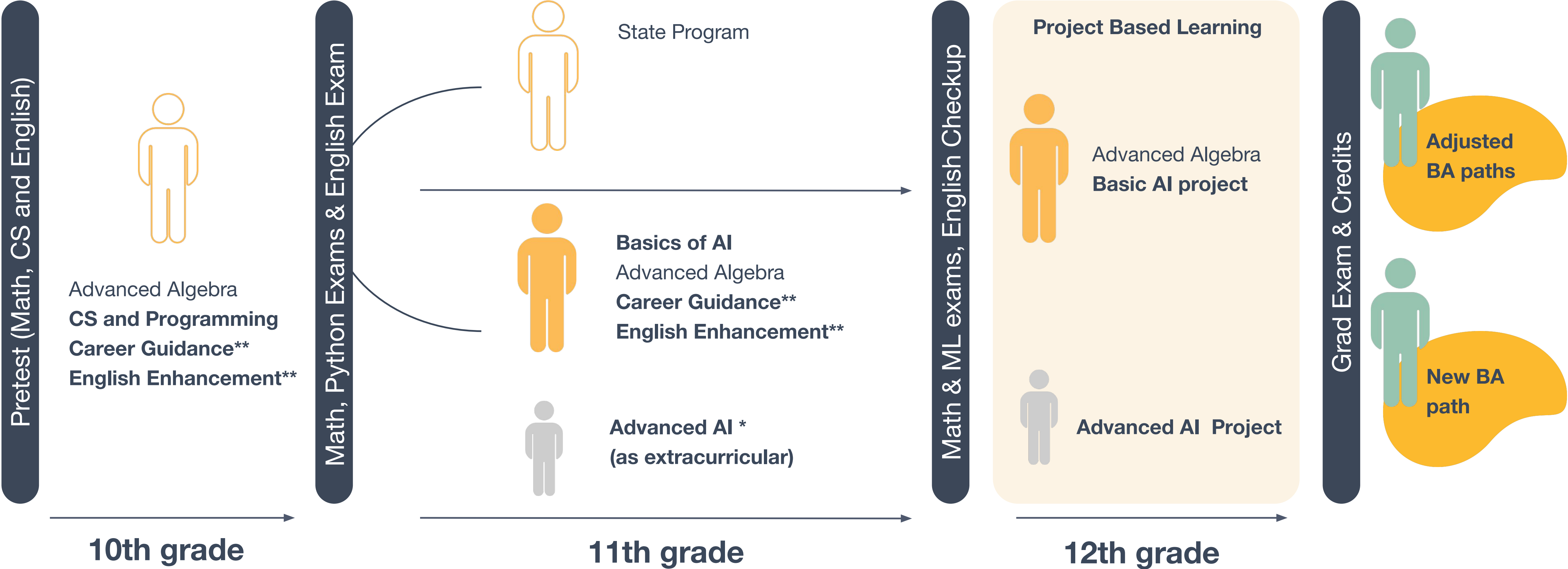
Raise student literacy and motivation towards AI and STEM research & innovator careers



Upskilling

Provide differentiated AI education for high school students

Student Learning Path



*Only for Generation AI advanced level students
**English and Career Guidance as an out of school programs

In-School programs*

*The programs are validated by the RA Ministry of Education

	Advanced Algebra			Python Programming	Basics of Artificial Intelligence	
	Mandatory component			School Component (selective subject)	School Component (selective subject)	
Track	STEM track (track with advanced math classes) 15 student/school					
Classes	10	11	12	10	11	12/I
Hours per week	5	5	5	2,5	3	Research project
Pretest/ Exam	✔Pretest ✔Annual exam ✔Mid and Graduation Exams ✔Credits			✔Pretest of CS ✔Mid and Graduation Exams ✔Credits	✔Mid and Graduation Exams ✔Final project ✔Credits	
Teachers/ instructors and Teacher trainings	High school math teacher Knowledge and methodological training & mentorship program			Industry specialist (leading instructor, hybrid learning model) Teaching assistant at schools Methodological training & mentorship program		

Extracurricular programs

	English Enhancement	Career Guidance
	Extracurricular: B2 level as a mandatory requirement before the 11th grade 2nd semester for learning AI	As a part of state career guidance and out of school activities
Classes	10, 11	9, 10,11,12
Pretest/ Exams	✓Pretest ✓Final exam	
Format	As an opportunity in collaboration with partner organizations (English clubs, online platforms)	Out of school and self-learning activities Connection with HEIs and career centers Mentorship program starting from the 11th grade Internship opportunities from the 12th grade

The program undergoes multi-layered expert approval



Advisors

High-level experts in the field of education
(with international experience)

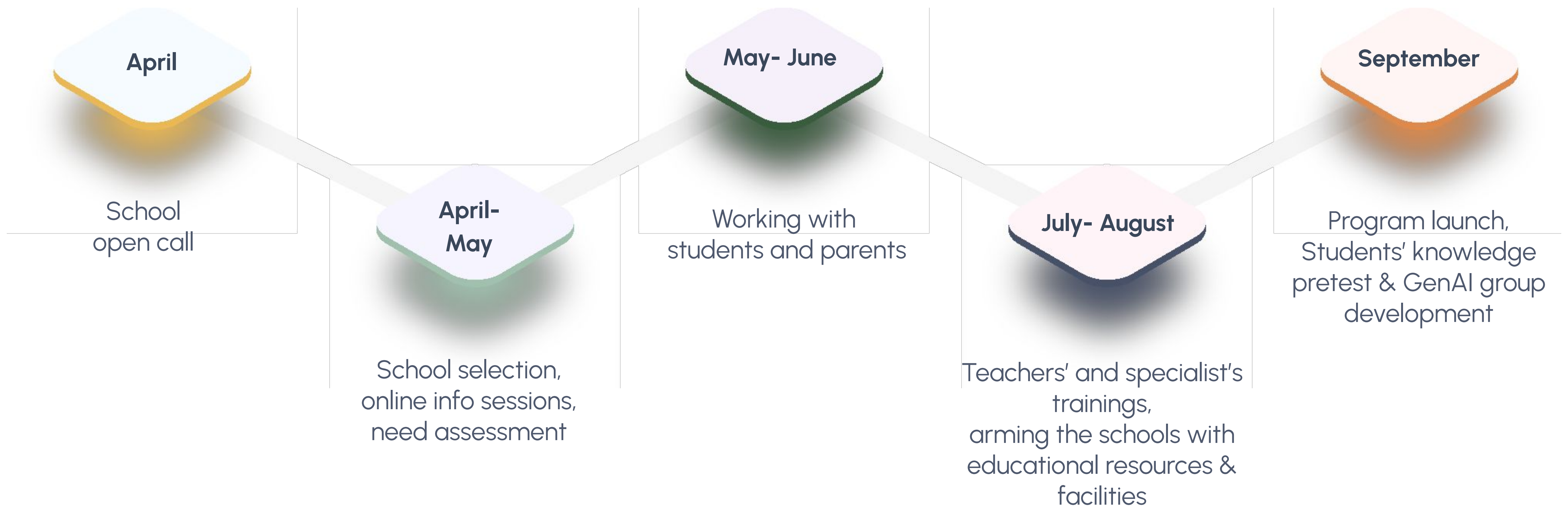
Taskforce

Armenian and international Experts from Academia and Industry

Working Groups

- Curriculum, content, assessment specialists
- Specialists and partner institutions for teacher training and mentoring
- Specialists and partner structures for the implementation of the career guidance program

Timeline 2023



What will students gain from the program?

Free & competitive education

- Advanced Math with practical and new methodology
- Basics of Python programing and certification
- Basics of Artificial Intelligence and certification

Soft skills

- Computational Thinking
- Critical Thinking
- Innovative and creative thinking
- Team work
- Research skills

Opportunities

- Career Guidance
- implementation of projects for real-world problem-solving
- Educational path guidance
- English language skills enhancement
- Scholarships for the best alumni
- Access to a community of AI learners to foster collaboration and learning

What will the school gain from the program?

Becoming the Generation AI school, the school will:

- provide a comprehensive program that enables students to delve deeper into the field of Artificial Intelligence, fostering specialization and advanced learning opportunities
- provide an opportunity to equip and certify mathematics teachers with the necessary knowledge and up-to-date methodology for advanced mathematics instruction
- test the implementation of hybrid education model by involving specialists of the field.
- create an opportunity for students to participate in a comprehensive career guidance program
- get armed with suitable facilities to enable best learning experience
- become one of the first schools in the region to pilot the program for in-demand field

3 Year Pilot Stage

Starting from Sept 2023 with an intention to scale-up

10

High Schools across the country activated

High School Students Impacted

450

30+

Teachers and Industry Specialists Trained

Contact us

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