



Generation AI

Embracing the Future of Artificial Intelligence

Armenia at a Glance

Location: Armenia is a post Soviet country in the South Caucasus region of Eurasia.

Population: Approximately 3 million

Economy: Transitioning from an agricultural base to an economy driven more by industry and services.

Notable growth in IT and technology sectors.



Armenian Education System

Structure: Divided into pre-school, primary (grades 1-4), secondary (grades 5-9), and high school (grades 10-12), higher education including bachelor's, master's, and doctoral degrees.

Focus on Sciences: Armenian educational system has traditionally had a strong focus on **science and engineering**.

Growing IT Education: Many universities offer specialized programs in IT, HighTech and related fields.

Tech and Math Graduates: A significant portion of university graduates are in IT and engineering fields.

Government Initiatives: The government actively supports STEM and IT education, recognizing it as a key area for economic growth.

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

Board of Advisors



DR. MARY PAPAZIAN
Chairperson of the Board
Executive Vice President,
Association of Governing
Boards of Universities and
Colleges



DR. GARABED ANTRANIKIAN
Director, Center for Biobased
Solutions, Hamburg University of
Technology



HOVHANNES AVOYAN
CEO and Founder, Picsart



DR. JAMES CHAVIN
President, Teza
Technologies



LORD ARA DARZI OF DENHAM
Co-Director, Institute of Global
Health Innovation, Imperial College
London



GABRIELLE GAUTHEY
CEO High Representative
Senior Vice President of
European Public Affairs,
Total Energies



RON HOVSEPIAN
Executive Partner,
Flagship Pioneering,
President and CEO, Indigo
Ag.



DR. AVAK KAHVEJIAN
General Partner, Flagship
Pioneering



DR. SARKIS KIRAMIJYAN
Founder and Director,
Structural Heart Diseases
program, Adventist Health
White Memorial hospital



ARI LIBARIKIAN
Senior Partner, McKinsey &
Company



SERGE TCHURUK
Consultant, Former Chairman
Alcatel-Lucent Enterprise



DR. DAVID YANG
Serial Entrepreneur
Founder and Chairman,
ABBY

Our Pillars of Impact

25

programs

10,000+

beneficiaries

EDUCATION

1800 participants directly trained in AI and entrepreneurship

3300+ training hours

RESEARCH

200+ researchers funded

75+ scientific papers in international journals

COMMERCIALIZATION

49 angel investors engaged

35 startups funded

270+ startups benefited



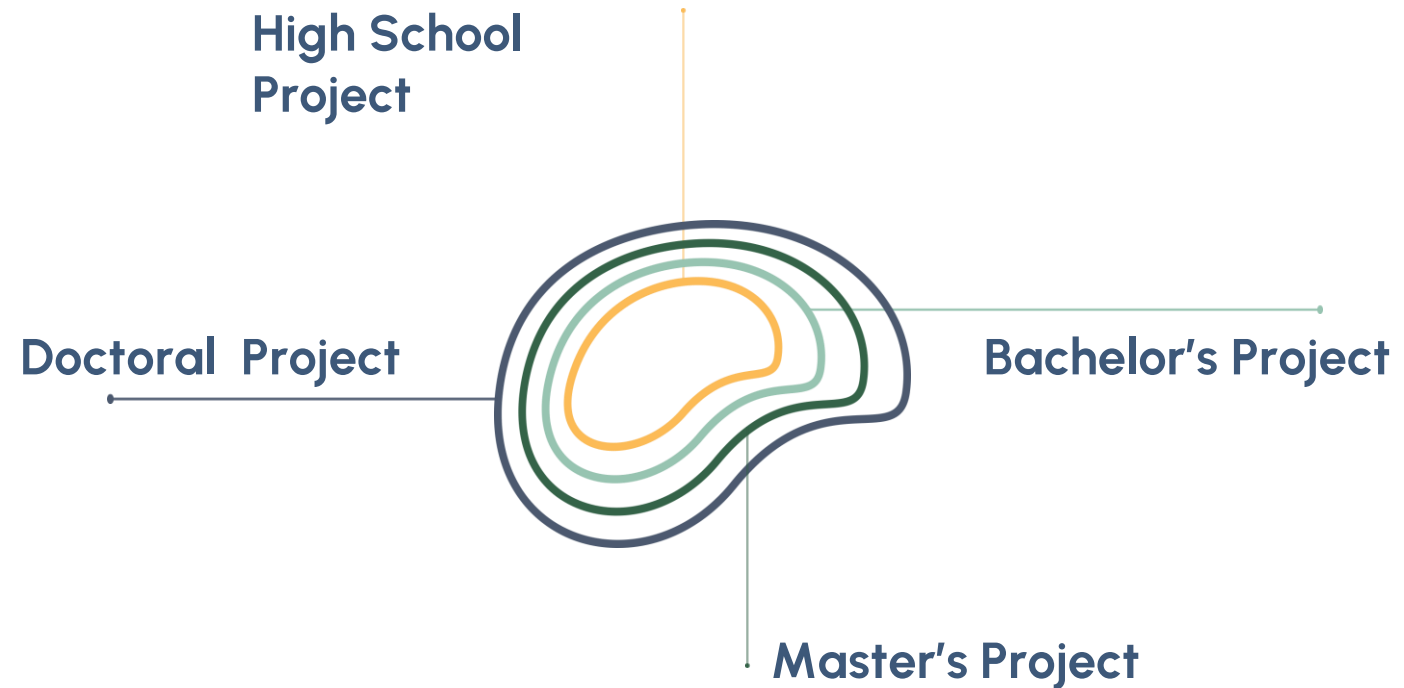
Generation AI
Nurturing Future Innovators

Generation AI High School Project
Changing the Future of Armenia with Transformative Education

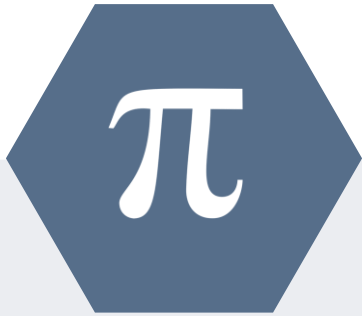
Generation AI: A multi-layer solution

Generation AI aims interventions at all education levels, starting with high school (10-12th grades) 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

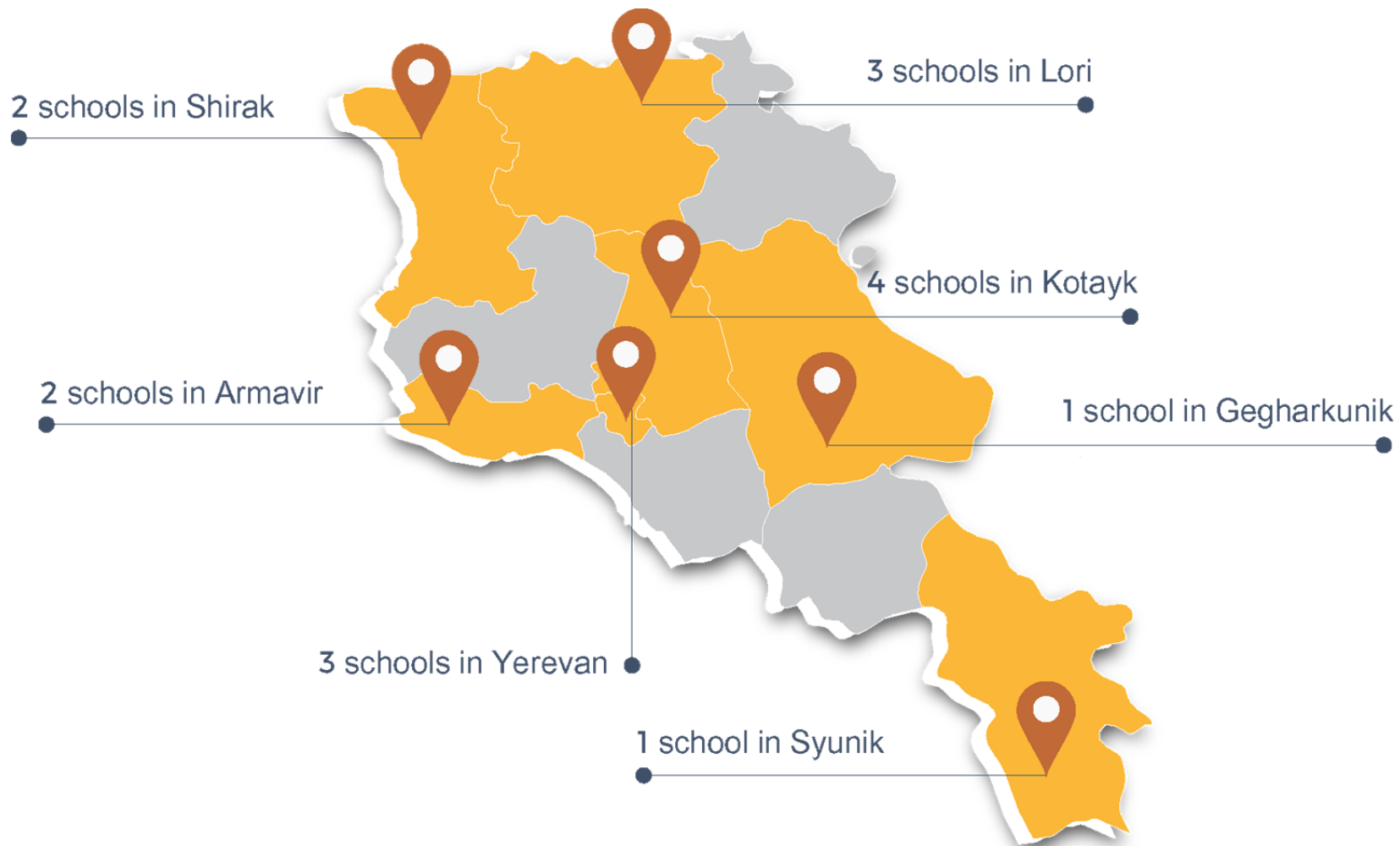
Raise student literacy and motivation towards AI and STEM research & innovation careers



Upskilling

Provide differentiated AI education for high school students

Generation AI High School Project 2023-2026



16

Participating
High Schools/105

7

Regions Across
Armenia/11

58+

Teachers and
Instructors

400

High School
Students 23.000

Curriculum Framework

Mathematics

Linear Algebra
Calculus
Probability and
Statistics

Programming

Basic Python Syntax
Data Structures
Libraries & Frameworks
Object-Oriented
Programming

AI (basic and advance)

Introduction to AI, its subfields
Concept of ML
Supervised and unsupervised
learning
Neural networks, decision trees
language modeling
Reinforcement learning

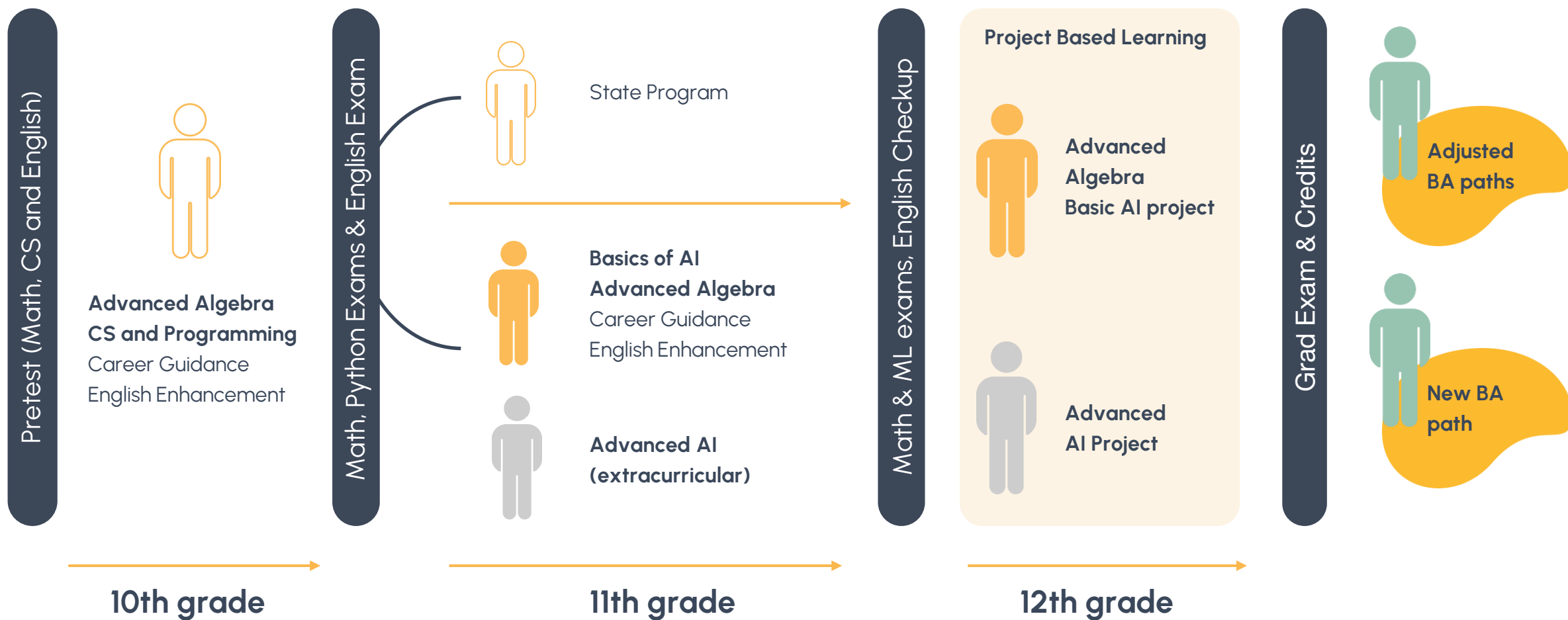
PBL in AI

Building a basic chatbot
Developing a spam filter
Creating a simple
recommendation system,
Basic image classification
system, etc.

Skill Development and Career Guidance

Prospects in Industry and
Science
Student Mentorship and
Internships
English Enhancement
Entrepreneurial Skills

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



Advisors

Local and international experts from academia and industry



Taskforce

Local and international curriculum, content, assessment specialists

Specialists and partners for teacher training and mentoring

Specialists and partners for career guidance program



Workforc
e

e

Teaching Staff Involved



School Math
Teachers



School Computer
Science
Teachers



Specialists from
Industry to Teach
Python and AI

Ongoing Teacher Training (Knowledge and Methodological) and Mentorship Program

Partnerships with Government, Industry and Academia

- Engaging Public Schools and Keep Alignment with National Strategy
- Development and Enhancement of Educational Resources.
- Involving Teachers for delivering specialized subjects.
- Implementing Career Guidance Programs.
- Involving students in real-life projects.
- Involving students in internships.
- Enhancement of School Facilities.
- Sponsorship and scholarships for students and schools.



Generation AI
Nurturing Future Innovators



FAST DISCOVERING
THE FUTURE



ՀՀ ԿՐԹՈՒԹՅԱՆ, ԳԻՏՈՒԹՅԱՆ,
ՄՇԱԿՈՒՅԹԻ ԵՎ ՍՊՈՐՏԻ ՆԱԽԱՐԱՐՈՒԹՅՈՒՆ

education@fast.foundation
<https://fast.foundation/>