

ADVANCE

ARMENIA LOS ANGELES GALA 2023

May 11, 2023
The Landmark
Los Angeles, CA



FOUNDATION FOR ARMENIAN SCIENCE & TECHNOLOGY (FAST)

MISSION

To foster and accelerate the advancement of science and innovation ecosystem in Armenia and beyond.

VISION

Armenia's transformation into a **Top 10 Global Innovator** nation, and **Top 5 Data Science** and **Artificial Intelligence** innovator by 2041.

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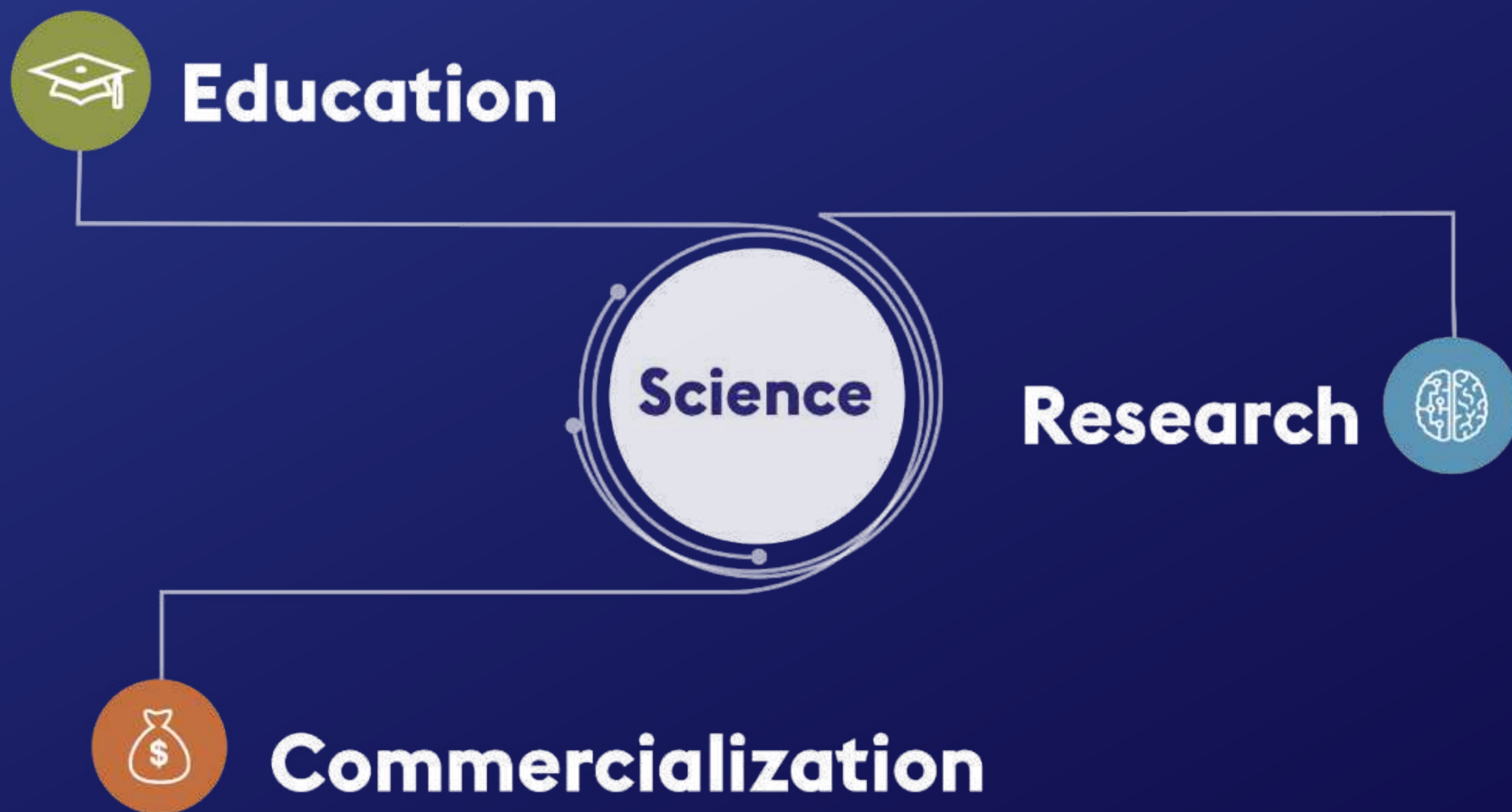
Consultant, Former
Chairman, Alcatel-Lucent
Enterprise
France



Dr. David Yang

Serial Entrepreneur,
Founder, ABBYY
USA

OUR PILLARS AND IMPACT



9,000+
Beneficiaries

25+
Programs

\$8,5mln
Invested

ADVANCE ARMENIA GALA 2023

Inaugural Advance Armenia Gala raised \$1.4 million for the ADVANCE research grants program in 2022.

In 2023, we aim to further expand our impact on research in Armenia through ADVANCE, while building a sustainable pipeline of scientists by focusing on enhancing education.

ARMENIA'S TECHNOLOGICAL LEAPFROGGING

R&D expenditure
(% of GDP)

0.23
2021 2030 2041

ARMENIA'S TECHNOLOGICAL LEAPFROGGING

R&D expenditure
(% of GDP)

0.23 0.76
2021 2030 2041

ADVANCE ARMENIA GALA 2023: GOAL

ADVANCE Research Grants Program

To secure funding for 10
research teams in
2023-2024
requires **\$ 1,25 mln**

Generation AI: High School Pilot Project

To integrate AI education
into 10 high schools
across Armenia
requires **\$ 2 mln**

ADVANCE RESEARCH GRANTS PROGRAM

The program funds research teams under the leadership of distinguished international scientists that are working on **producing globally competitive research.**



RESEARCH PROJECTS

The scaling of the program for IO grants was enabled by the generous support of our contributors in 2022.

BIOTECHNOLOGY 2020 - 2024



Principal Investigator:
Prof. Garabed Antranikian

Director of Center for
Biobased Solutions, Hamburg
University of Technology
Germany

Team: 8 local researchers

Co-funded and hosted by:
Yerevan State University

MACHINE LEARNING 2020 - 2024



Principal Investigator:
Prof. Arnak Dalalyan

Director of Center for Research
in Economics and Statistics
CREST, ENSAE Paris
France

Team: 1 international and 3
local researchers

Co-funded and hosted by:
Yerevan State University

NEUROSCIENCE 2022 - 2026



Principal Investigator:
Prof. Apkarian Vania Apkarian

Director, Center for Translational
Pain Research, Northwestern
University Feinberg School of
Medicine
USA

Team: 3 local researchers

Co-funded by:
Apkarian Foundation

Hosted by: Yerevan State
Medical University

COMPUTER VISION 2022 - 2026



Principal Investigator:
Prof. Sos Agaian

Professor of Computer Science at CSI
and the Graduate Center, City
University of New York
USA

Team: 7 local researchers

Funded by:
Sarkis and Nune Sepetjian

Hosted by: Yerevan State
University

DRUG DISCOVERY 2023 - 2027



Principal Investigator:
Prof. Ruben Abagyan

Professor at UC San Diego Skaggs
School of Pharmacy and
Pharmaceutical Sciences
USA

Team: 4 researchers recruited, 2
researchers to be recruited

Funded by: Joe Barnes

RESEARCH PROJECTS

VINE BIOINFORMATICS 2023 - 2027



Principal Investigator:
Prof. Hans Binder

Senior Scientist and the former Founding Managing Director at the Interdisciplinary Centre for Bioinformatics, University of Leipzig
Germany

Team: 1 international and 5 local researchers

Funded by:
Joe Barnes

MATERIALS SCIENCE 2023 - 2027



Principal Investigator:
Prof. Alexander Mukasyan

Director of the Advanced Electron Microscopy Core at Integrated Imaging Facility, University of Notre Dame
USA

Team: 5 researchers

Hosted by: Institute for Physical Research of National Academy of Sciences of Armenia

DATA SCIENCE 2023 - 2027



Principal Investigator:
Prof. Nelson Baloyan

Professor at the Department of Computer Sciences, Universidad de Chile
Chile

Team: 5 researchers, 3 research interns

Partner: American University of Armenia

RADIOBIOLOGY 2023 - 2027



Principal Investigator:
Prof. David Goukassian

Professor at the Icahn School of Medicine at Mount Sinai
USA

Team: 6 researchers to be recruited

Hosted by: Institute of Molecular Biology

MATHEMATICAL ANALYSIS 2023 - 2027



Principal Investigator:
Prof. Michael Ruzhansky

Professor at University of Ghent
Belgium

Team: 4 researchers to be recruited

Hosted by: Yerevan State University

GENERATION AI: High School Project

OBJECTIVES ON A NATIONAL LEVEL



Provide prerequisite competencies in Advanced Mathematics and Computer Science needed for learning AI

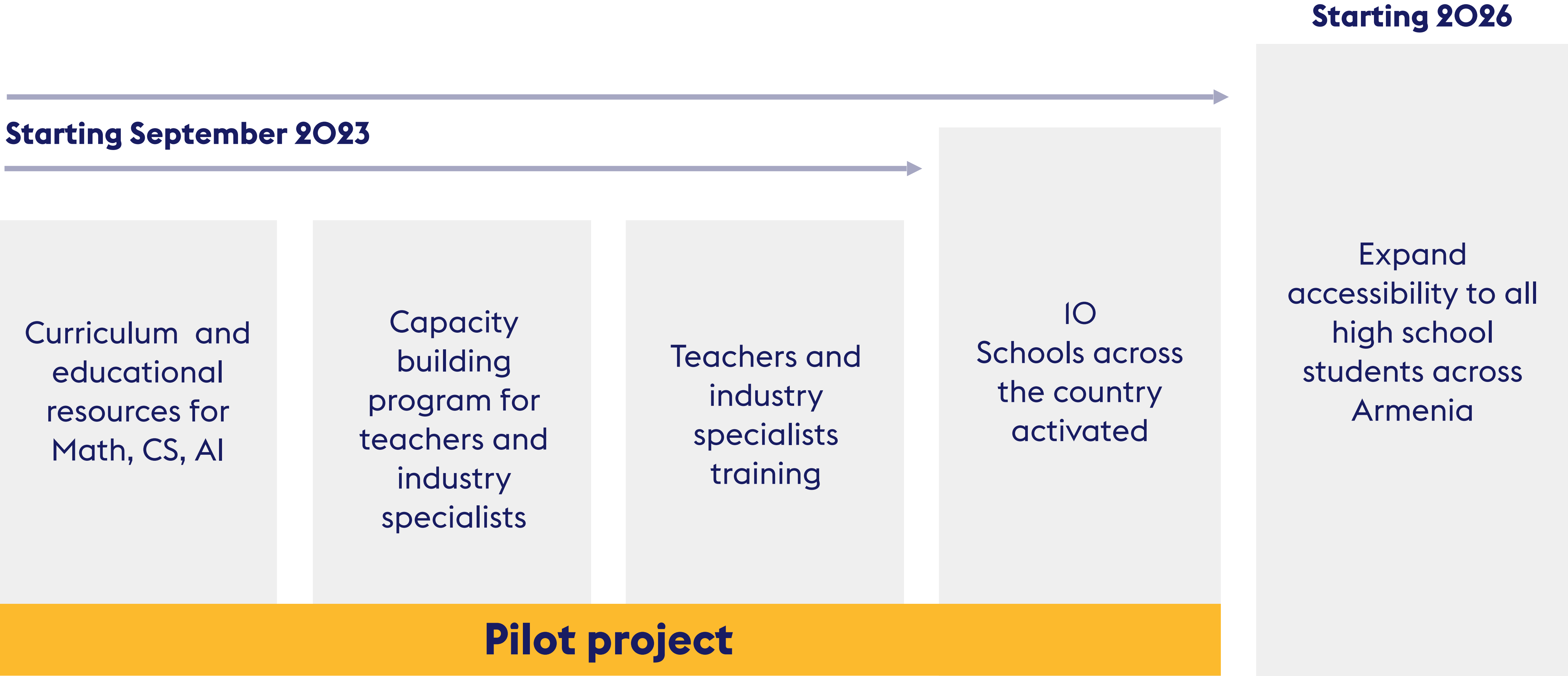


Provide basic and advanced levels of AI education for high school students



Raise student literacy and motivation towards AI and STEM research careers

GENERATION AI: PROJECTS COMPONENTS AND PATH





ABOUT THE GALA

Advance Armenia Gala 2023

The Landmark, Los Angeles, CA

May 11, 2023

Secure your seat and support the mission by contributing **\$1,000**

All contributions will be collected through **Friends of FAST**, FAST's US based sister organization. It is a tax-exempt Public Charity organization as described in Section 501(c)(3) of the Internal Revenue Code; EIN 87-4632702.



KEYNOTE SPEAKER

Dr. Ardem Patapoutian

2021 Nobel Prize Laureate in
Physiology or Medicine
Professor, Scripps Research
Investigator, Howard Hughes
Medical Institute

PROGRAM SPEAKERS

Welcoming Remarks



Dr. Noubar Afeyan
FAST Co-Founder

FAST's Journey



Dr. Mary Papazian
FAST Chair of the
Board of Advisors



Suzanna Shamakhyan
FAST Vice President of
Strategic Programming

EVENT HOST COMMITTEE

Co-Chairs:

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Elizabeth Zoryan

His Eminence Archbishop

Hovnan Derderian

Dr. Lusine Abgaryan

Avetis Antaplyan

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Yana Saakyan

Vrej Sarkissian

Elena Semerdjian

Arthur Stamboltsyan

Fred Tatlyan



HOW YOU CAN MAKE AN IMPACT

ENGAGEMENT OPPORTUNITY

OPTION 1 **CATALYST**

\$10,000

Thanks to your generous contribution, a classroom can be converted into a Computer Lab, which we plan to do in 10 high schools

1 table (general seating) and DONOR BENEFITS:

- ✓ Tabletop name recognition on sponsored table
- ✓ Social Media mention
- ✓ Website recognition
- ✓ Program Book recognition

ENGAGEMENT OPPORTUNITY

OPTION 2 **ADVOCATE**

\$25,000

Thanks to your generous contribution, a research team can have necessary laboratory materials to conduct cutting-edge experiments for one year

1 table (general seating) and DONOR BENEFITS:

- ✓ **Social Media recognition post**
- ✓ **Newsletter recognition**
- ✓ Tabletop name recognition on sponsored table
- ✓ Social Media mention
- ✓ Website recognition
- ✓ Program Book recognition

ENGAGEMENT OPPORTUNITY

OPTION 3 **CHAMPION**

\$50,000

Thanks to your generous contribution, a research team can receive remuneration to continue the work for one year

1 table (preferred seating) and DONOR BENEFITS:

- ✓ **2 invitations to an Exclusive Reception with Dr. Ardem Patapoutian**
- ✓ **Digital Screen recognition**
- ✓ Social Media recognition post
- ✓ Newsletter recognition
- ✓ Tabletop name recognition on sponsored table
- ✓ Program Book recognition
- ✓ Website recognition
- ✓ Social Media mention

ENGAGEMENT OPPORTUNITY

OPTION 4 **INNOVATOR**

\$125,000

Thanks to your generous contribution, a research team can undertake a cutting-edge research project for one year with the lead of an international Principal Investigator

2 tables (preferred seating) and DONOR BENEFITS:

- ✓ **Naming rights to one grant for one year**
- ✓ **4 invitations to an Exclusive Reception with Dr. Ardem Patapoutian**
- ✓ **Press Release recognition**
- ✓ Digital Screen recognition
- ✓ Social Media recognition post
- ✓ Newsletter recognition
- ✓ Tabletop name recognition on sponsored table
- ✓ Program Book recognition
- ✓ Website recognition
- ✓ Social Media mention

ENGAGEMENT OPPORTUNITY

OPTION 5 **ILLUMINATOR**

\$200,000

Thanks to your generous contribution, students from one out of ten pilot schools across Armenia will have an access to AI education

2 tables (preferred seating) and DONOR BENEFITS:

- ✓ **Naming rights: 1 School's AI education powered by the donor**
- ✓ **6 invitations to an Exclusive Reception with Dr. Ardem Patapoutian**
- ✓ **Stage recognition**
- ✓ Press Release recognition
- ✓ Digital Screen recognition
- ✓ Social Media recognition post
- ✓ Newsletter recognition
- ✓ Tabletop name recognition on sponsored table
- ✓ Program Book recognition
- ✓ Website recognition
- ✓ Social Media mention

ENGAGEMENT OPPORTUNITY

OPTION 6 **VISIONARY**

\$250,000

Thanks to your generous contribution, two research teams each under the leadership of an international PI can undertake cutting-edge research project for one year

3 tables (preferred seating) and DONOR BENEFITS:

- ✓ **Host of an Exclusive Reception with Dr. Ardem Patapoutian**
- ✓ **Naming rights to 2 grants for one year**
- ✓ **8 invitations to an Exclusive Reception with Dr. Ardem Patapoutian**
- ✓ Stage recognition
- ✓ Press Release recognition
- ✓ Digital Screen recognition
- ✓ Social Media recognition post
- ✓ Newsletter recognition
- ✓ Tabletop name recognition on sponsored table
- ✓ Program Book recognition
- ✓ Website recognition
- ✓ Social Media mention

PACKAGES

| Benefits | Catalyst \$ 10K | Advocate \$ 25K | Champion \$50K | Innovator \$ 125K | Illuminator \$ 200K | Visionary \$ 250K |
|--|--------------------|--------------------|-------------------|----------------------|-------------------------|----------------------|
| Table, 10 seats | 1 table | 1 table | 1 table | 2 tables | 2 tables | 3 tables |
| Seating Type | General | General | Preferred | Preferred | Preferred | Preferred |
| Tabletop name recognition on sponsored tables | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Social Media mention | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Website recognition | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Program Book recognition | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Social Media recognition post | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Newsletter recognition | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Exclusive Reception with Dr. Ardem Patapoutian | | | 2 invitations | 4 invitations | 6 invitations | 8 invitations |
| Digital Screen recognition | | | ✓ | ✓ | ✓ | ✓ |
| Press Release recognition | | | | ✓ | ✓ | ✓ |
| Naming rights | | | | 1 grant | 1 School's AI education | 2 grants |
| Stage recognition | | | | | ✓ | ✓ |
| Host of the Exclusive Reception with Dr. Ardem Patapoutian | | | | | | ✓ |

NAMING RIGHTS: ADVANCE grant



The naming rights for the project are granted to the Donor who donates 125k towards ADVANCE and sponsors the research grant for one year.

The Donor will be recognized in all printed and online information materials related to the project throughout the year.

NAMING RIGHTS: one school's AI education patronage



The naming rights for the Generaion AI projects are granted to the Donor who donates 200k and powers AI education in one school.

The Donor will be recognized in all printed and online information materials related to the project.

**Mind is power,
join us to help
build a powerful
Armenia**

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