Session on Science and Technology

- Concentrate on the topic of Science and Technology
- Discuss some of the programs and efforts that have been initiated by the government of RA, ASOF, and other organizations:
 - To strategically place Armenia in a position to compete globally in certain strategic areas (where it can have an impact)
 - To build and exapnd capacity in education, R&D, and industry to meet its economic and national security-related needs.



Session on Science and Technology

Panelists

Hakob Arshakyan

Deputy speaker of the parliament of the Republic of Armenia

Nora Ayanian

Professor, Brown University

Karen Eguiazarian

Professor, Tampere University, Finland, and CEO of Noiseless Imaging Ltd

Hrant Khachatrian

Director of YerevaNN; Data Scientist at IntelinAir

Lilit Nersisyan

Director, Lab Leader, Armenian Bioinformatics Institute

Moderator: Oshin Peroomian

DILIJAN 2025

Science and Technology Development Council

- Established late Fall 2023
- Chaired by PM of RA
- Members include members of government of RA, Parliament, Academia, and Industry
- Members include 5 ASOF Fellows.









Haig Alexander Eskandarian
Department of Systems Biology, Harvard
Medical School
Biology, Medicine, Microbiology



Aram Galstyan
University of Southern California,
Amazon
Artificial Intelligence, Computer Science



Ivan Aprahamian Professor, Chair of the Chemistry Department, Dartmouth College Organic Chemistry, Adaptive Materials



Oshin Peroomian (Treasurer)
CTO Metacomp Technologies, Inc. and
Adjunct lecturer at AUA
Computational Fluid Dynamics,
Computational Multi-Physics



Nora Ayanian (chair)
Professor, Brown University
Computer Engineering, Computer
Science, Robotics



Vatche Sahakian (Secretary) Burton Bettingen Professor in Theoretical Physics at Harvey Mudd College

- Foundation registered in Armenian, Jan. 2025
- Council on Science and Technology (ASOF Committee)
- Appoints the Board



Karen Eguiazarian (Vice-Chair)
Professor in Signal processing, Tampere
University, Finland, and CEO of Noiseless
Imaging Ltd
Computational imaging & optics







- Artificial Intelligence
- Life Sciences (BioTech)
- Smart Chemistry
- Robotics
- Aerospace Engineering (up to LEO)
- Materials Engineering



 Partnering with discerning organization and institutions in Armenia.

















DILIJAN 2025



Three Foundational Pillars

- Education
- Research & Development (R&D)
- Infrastructure

- Support sustainable development
- 2. Drive technological progress
- 3. Enhance economic competitiveness



Education Pillar



Develop human capital: skilled researchers, engineers, professionals



Integrate Robotics, AI, and Aerospace Engineering into education



Establish pathways: schools → Armath labs → universities



Invite top experts for lectures and workshops



Create specialized undergraduate programs



Affiliate scholars with local universities





R&D Pillar



 Establish National Center for Robotics and Al



 Center for Aeronautical and Space Research



 Conduct cutting-edge research and pilot projects



 Promote industryacademia collaboration



Publish in international scientific journals
 DILIJAN 2025



Infrastructure Pillar



 Provide high-performance computing (GPU/CPU)



 2 Advanced robotics labs at the center



• 45 UAV + 60 Electronic Armath labs in schools



 Guidelines for robot deployment in various sectors



 Aerospace labs: wind tunnels, material testing, etc.



Manufacturing & prototyping facilities
 DILIJAN 2025



Implementation Roadmap



 Set up robotics labs with top scholars



 Launch 4 robotics and 3 aerospace pilot projects



• Start education program (school → graduate)



 Secure funding from government and partners



Build consortia and foster startups





Timeline and Budget



 7-year roadmap for both Robotics and Aerospace



• Estimated budget:



- Robotics: ~29 million USD



- Aerospace: ~41 million USD

