

2023 Activity Report

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1 Forewords



**Peter
Brabeck-Letmathe**

By Chairman Peter Brabeck-Letmathe & Vice Chairman Patrick Aebischer

Following the decision by the Swiss and Geneva authorities to extend GESDA's mandate for 10 more years, 2023 was the year we started scaling up our operations to grow in our role as an honest broker of science-driven concrete initiatives that can strengthen multilateralism through anticipation.

The announcement made on October 13, 2023, that the Open Quantum Institute was now ready to be spun off for a three-year pilot phase, in partnership with a key international organisation in Geneva, CERN, as a host, and UBS in Zurich as the financial supporting partner, exemplifies how we use anticipation as a catalyst between science and diplomacy.

The Institute's goal is to broaden the circle of beneficiaries from all the advances in quantum computing expected over the next quarter century.

The way to achieve that is to define and implement use cases for solutions to the most pressing global challenges such as developing sustainable nitrogen-fixation to feed the world, speeding up drug design, increasing water quality or creating more effective materials for carbon capture.

A second GESDA-born initiative, the Global Curriculum for Science and Diplomacy, will enter its design phase in 2024 with the support of the London-based charity Wellcome.

We are extremely grateful for the trust and support that has been placed in us by our founders, supporters, partners, and collaborators. And we remain deeply committed to helping emerging science play a greater role in advancing all of humanity and our planet despite the current geopolitical tensions.

When we began operating in September 2019, our Founders trusted us to carry out the ambitious mission of leveraging the anticipatory power of emerging science with diplomats, international organisations, businesses, philanthropy, and citizens working in Geneva and around the world.

In our view, anticipating the best uses for science offers a practical and hopeful approach towards achieving more effective multilateralism, especially for the implementation of the United Nations' 17 Sustainable Development Goals for 2030.

It is the most effective way for us to prepare for a world accelerated by science and technology, contrary to what happened last year with ChatGPT.



Patrick Aebischer

Forewords



Stéphane Decoutère

By Secretary General of the Board Stéphane Decoutère & Chief Executive Officer Sandro Giuliani

From an operational point of view, the completion of the first year of our scale-up phase in 2023 allowed us to make significant progress in five areas:

- The GESDA Science Breakthrough Radar® entered a new phase with several updates, additional topics and events, including the first Villars Spring Anticipation Workshop dedicated to deep dives into three fields of neuro-augmentation: brain hacking, hybrid brains, and artificial cognition through brain-inspired AI and robotics, along with two workshops entitled, "The Future of Peace and War", in partnership with the Geneva Centre for Security Policy and the Kent Global Leadership Program on Conflict Resolution at Columbia University's School of International and Public Affairs.
- GESDA now has concrete initiatives in development in all five platforms of the GESDA Science Breakthrough Radar®: Quantum Revolution & Advanced AI, Human Augmentation, Eco-regeneration & Geoengineering, Science and Diplomacy, and Knowledge Foundations.
- The demand from international organisations to develop strategic partnerships with GESDA is increasing. Consequently, GESDA is ramping up to offer its know-how toward the development of projects in collaboration with other organisations.
- GESDA no longer is an organisation focused only on the creation of innovative projects; but also is securing the funding for these initiatives to ensure their viability through its newly created Impact Forum. GESDA raised an additional 30.2 million Swiss francs from private donors for this purpose in 2023.
- GESDA is integrating more citizens into its thinking through several projects:
 - The GESDA Africa Youth and Anticipation Program, which, for the second year, brought together young people from the African continent to discuss the transformative potential of science and technology in society.
 - The Pulse of Society, a component of the GESDA Science Breakthrough Radar®, which measures the sentiment and actions of a global segment of the population towards potential future advances in science through an analysis of 10 million social media posts and 1.3 million newspaper articles.
 - The kick-off in March 2023 of our partnership with Présence Suisse to participate in the Swiss pavilion at the World Expo 2025 in Osaka, Japan, with an interactive exhibition inviting the 30 million expected visitors to craft and envision their future using the findings of the GESDA Science Breakthrough Radar®.



Sandro Giuliani

1.

Launch of the Open Quantum Institute in partnership with CERN and UBS

2.

Third edition of the GESDA Science Breakthrough Radar®, with 6 new Deep Dives

3.

Partnering with the London-based charity Wellcome Trust to scale up studies in Science and Diplomacy

4.

First GESDA "Intelligence Report" prepared with the Permanent Representatives of 21 countries' missions to the UN Office at Geneva

5.

Third edition of the Geneva Science and Diplomacy Anticipation Summit

6.

Inaugural meeting of the newly created GESDA Impact Forum

7.

Opening 144 personalised dialogues with potential diplomatic partners

3 GESDA Foundation: Why? What? How?

Why?

The GESDA Foundation was created out of a belief that all of humanity must benefit from the 21st century acceleration in scientific and technological discoveries.

Its co-founders also believe Geneva's multilateral framework provides a vital world forum for helping to make that happen, but that framework must be enriched by adding new tools of scientific anticipatory diplomacy.

GESDA's unique brand of anticipatory science and diplomacy is designed to facilitate 21st century solutions to vexing global challenges.

Over the past two decades, science diplomacy has gained traction worldwide as an international policy practice and a discipline of human sciences. In 2010, the United Kingdom's Royal Society and the American Association for the Advancement of Science (AAAS) published *New Frontiers in Science Diplomacy*, a 32-page booklet that defined science diplomacy and laid out a widely accepted framework for its practice around three pillars:

Science in diplomacy — using scientific evidence to inform foreign policy

Diplomacy for science — using diplomatic apparatus to support and inform international scientific collaboration

Science for diplomacy — using science as a soft power tool to improve international relations

Adapting science diplomacy to modern needs and factors remains a challenge. GESDA is navigating this challenge by balancing three core factors:

1. **The unprecedented pace** of scientific and technological progress
2. **The urgency with** which global challenges must be addressed
3. **The complexity** of geopolitics globally

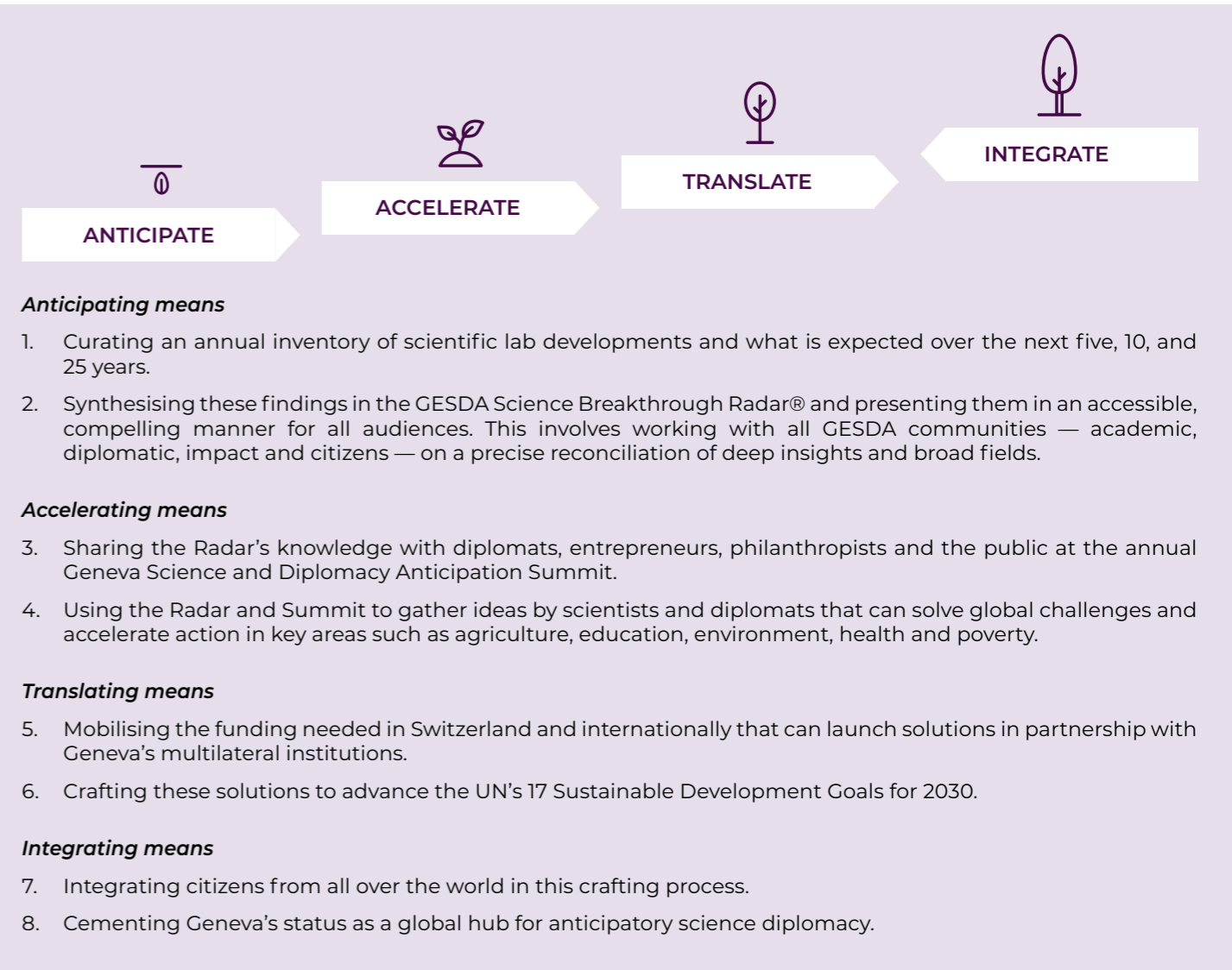
What?

The goal set for the Foundation in Article 3 of its statutes — as envisioned by the co-founders and approved by the Swiss Federal Supervisory Body for Foundations — is to develop **“an instrument of anticipation and action, giving priority to public-private partnerships on an international scale and to projects capable of providing solutions to current and future technological challenges, turning them into opportunities and broadening the circle of beneficiaries of scientific and technological advances”**.

As a result, the Foundation works **to strengthen the anticipatory power of multilateral stakeholders in Geneva and abroad seeking to improve the world, and to adapt science diplomacy to this century's accelerating pace of breakthrough advances**.

How?

To fulfill its mission, GESDA developed an “Anticipatory Situation Room” methodology built around four complementary activities: 1) anticipating, 2) accelerating, 3) translating, and 4) integrating.

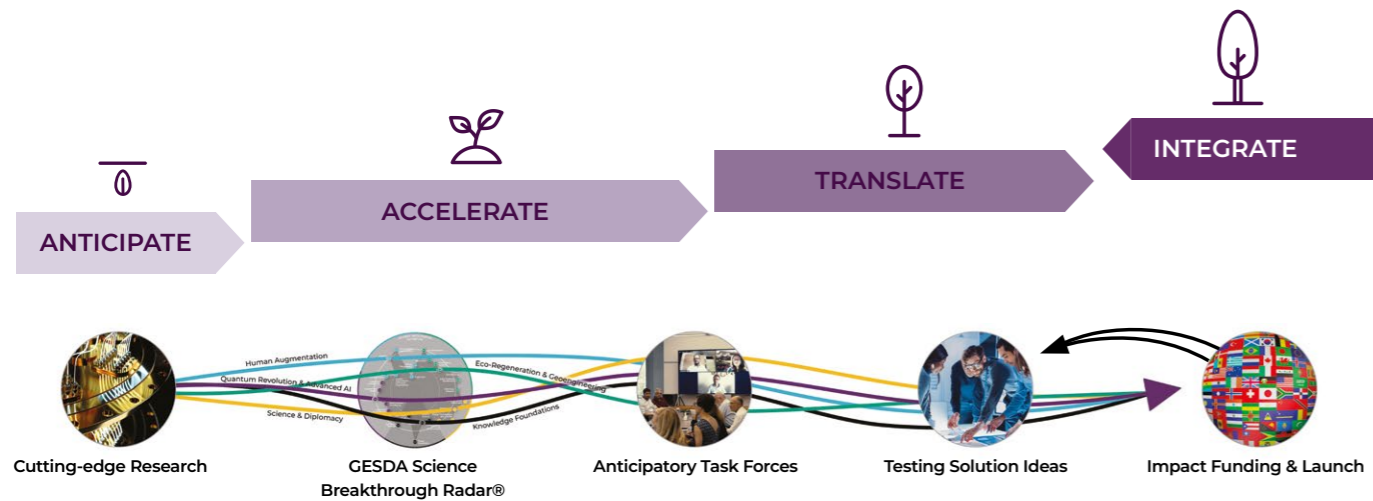


GESDA is fundamentally global but capitalises on four well-established and distinctive characteristics of Geneva and all of Switzerland:

- A long tradition of disruptive research in science and technology;
- Switzerland's renowned neutrality-driven diplomacy;
- The presence of innovative global companies in Geneva and elsewhere in Switzerland;
- Citizens interested and involved in public and world affairs thanks to a vibrant direct democracy.

GESDA in a nutshell

Anticipatory Situation Room pipeline of activities.

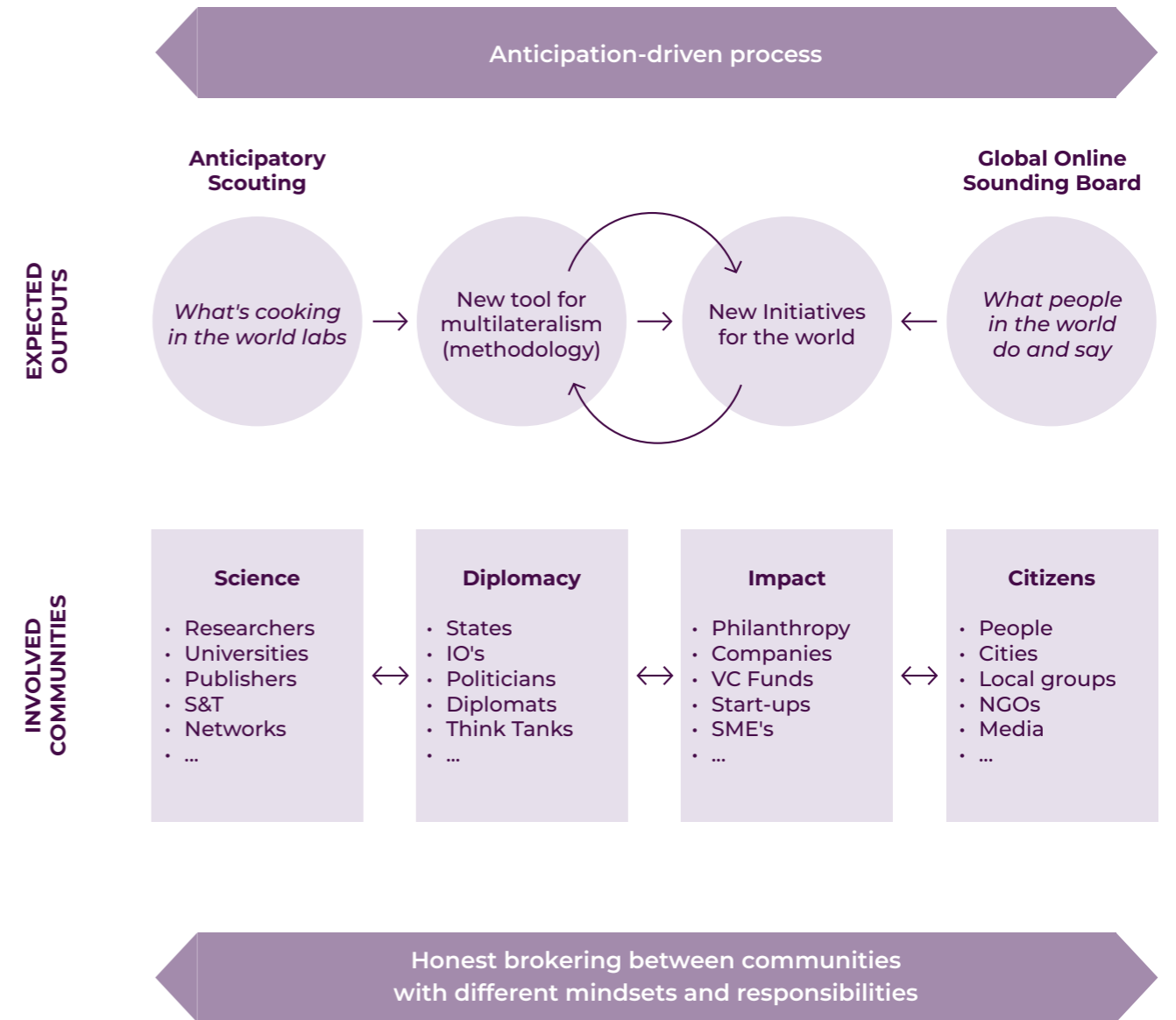


Anticipation	Acceleration			Translation		Integration	
Breakthrough Radar®	Solution Idea Pipeline			Implementation and Funding		Digital Interactive Global Sounding Board	
Emerging Topics Identification	Task Force Setup	Solution Idea Design	Solution Idea Evaluation	Solution Idea Incubation & Launch	Solution Idea Funding	Anticipation Gateway	Community Compass
1 Quantum Revolution & Advanced AI				1 Open Quantum Institute		Academic Community (Pulse of Science)	
2 Human Augmentation	II NeuroTech Compass					Diplomatic Community (Pulse of Diplomacy)	
3 Eco-Regeneration & Geoengineering	III Decarbonisation Accelerator					Impact Community (Pulse of Impact)	
4 Science & Diplomacy	IV Global Curriculum on Science and Diplomacy					Citizen's Community (Pulse of Society)	
5 Knowledge Foundations	V Youth and Anticipation Initiative						

USE THE FUTURE TO BUILD THE PRESENT

GESDA communities of practice

GESDA developed its anticipation-driven methodology to include the voices of stakeholders from four communities — Academic, Diplomacy, Impact, Citizens — who have differing mindsets and responsibilities.



4.1. Major milestones

1st quarter

17.01.23	WEF High-Level Panel in Davos on the role of International Geneva in a fragmented world
30.01.23	First presentation of the Impact Forum at Swiss Federal Department of Foreign Affairs/GESDA dinner in Bern hosted by Federal Councilor Ignazio Cassis
01.02.23	Keynote by GESDA Chairman at McKinsey CEO Excellence Event in Zurich
03.02.23	First meeting of the Diplomatic Engagement Expert Group (DEEG) for the incubation of the Open Quantum Institute (OQI)
10.02.23	First meeting of the GESDA Chairman's Committee
02.03.23	OQI DEEG Meeting on "Quantum for the SDGs-specific use cases"
20-22.03.23	Villars High-Level Science Anticipation Workshop on Neuro-augmentation
23.03.23	OQI DEEG Meeting on "Quantum Computing & the Digital Divide"
01.04.23	Launch of the first edition of the GESDA News monthly newsletter
March-December	In collaboration with the lab for experimental museology of EPFL and Presence Suisse, GESDA advances the development of the Anticipation Gateway as a permanent installation in the Swiss Pavilion at the World Expo 2025 in Osaka, Japan

3^d quarter

06.07.23	Anticipation Workshop on "Earth Systems Modeling" for the new GESDA Science Breakthrough Radar®
20.07.23	Anticipation Workshop on "Advances in Science Diplomacy" for the 2023 edition of our Radar®
23.08.23	Anticipation Workshop on the "Future of Education" for the 2023 edition of our Radar®
24.08.23	Anticipation Workshop on "Orbital Resources" for the 2023 edition of our Radar®
25.08.23	Anticipation Workshop on "Prediction and Foresight" for the 2023 edition of our Radar®
27.08.23	Anticipation Workshop on "Unconventional Computing" for the 2023 edition of our Radar®
31.08.23	OQI DEEG Meeting on "Anticipating the environmental impact of quantum computing"
September	GESDA secures support from UBS for the OQI and from Wellcome for the Global Curriculum for Science and Diplomacy
19.09.23	Diplomatic Dinner on the Open Quantum Institute at the Residence of Mexico with 13 ambassadors
21.09.23	OQI DEEG Meeting to finalise the "Intelligence Report on the multilateral governance of quantum computing for the SDGs"
30.09.23	GESDA presents at the STS Forum in Kyoto after inaugurating the new Swissnex in Osaka

2^d quarter

04-06.04.23	Anticipating the Future of Peace and War – Inaugural Workshop
18.04.23	OQI DEEG Meeting on "Quantum Computing: common language for collaboration"
21.04.23	Spring annual Meeting of the GESDA Board of Directors
27.04.23 - 01.05.23	Quantum for the SDGs Hackathon in Abu Dhabi co-organised by GESDA with New York University (NYU) Abu Dhabi
03.05.23	GESDA expert presents at the UN Security Council in New York during Switzerland's chairmanship
09.05.23	OQI DEEG Meeting to prepare for the next OQI Ambassadorial Dinner
11.05.23	Diplomatic Dinner on the OQI at the Swiss Residency in Geneva
08-12.05.23	Second Geneva Science Diplomacy Week
17.05.23	GESDA Swiss Anticipation Day in Zurich in partnership with the University of Zurich
08.06.23	OQI DEEG Meeting on "Security, dual use and oversight of quantum computing"
20.06.23	Second Meeting of the GESDA Chairman's Committee
26-28.06.23	Anticipating the Future of Peace and War – A Foundation for Anticipating Four Probable Future Scenarios – workshop in New York
27.06.23	OQI DEEG Meeting on "Lessons Learned from Internet Governance"
20.04.23 and 23.06.23	Two solution idea workshops on science self-regulation

4th quarter

10-11.10.23	Fall meeting and retreat of the Board of Directors
11-13.10.23	2023 Geneva Science and Diplomacy Anticipation Summit
13.10.23	Geneva Political Talks on Science and Diplomacy and announcement of the launch of the OQI in partnership with CERN and UBS
13.10.23	Inaugural meeting of GESDA Impact Forum
21.11.23	Diplomatic dinner on the NeuroTech Intelligence Compass at the Swiss Residency with 11 ambassadors
27.11.23	GESDA presents at the Dubai Future Forum
1.12.23	COP28: GESDA organises a session on the deployment of the WMO Global Greenhouse Gas Watch (G3W) and boosting the engagement of the private sector
8.12.23	Third Chairman's Committee meeting
18-19.12.23	GESDA participates in the EU Science Diplomacy Conference at Madrid

4.2. Key results

1. Launch of the Open Quantum Institute in partnership with CERN and UBS

GESDA comes into its own as a think and do tank for anticipation and action, with the Swiss foreign minister, Federal Councilor Ignazio Cassis, and colleagues from 10 countries announcing the first flagship initiative born at GESDA, the Open Quantum Institute (OQI), ready to be spun off at CERN in 2024 with the support of UBS.

2. Third edition of the GESDA Science Breakthrough Radar® with 6 new Deep Dives

The GESDA Science Breakthrough Radar® each year provides a key tool for anticipation that serves as a resource for scientists, diplomats, entrepreneurs, and citizens. The 2023 edition encompassed 6 Deep Dives on current and future hot topics, 27 Breakthrough Briefs, seven updates of existing Briefs, three Briefs on new emerging topics and nine new invited contributions that will nurture future editions.

3. Partnering with the London-based charity Wellcome Trust to scale up studies in Science and Diplomacy

Backed by Wellcome, one of the world's largest charities, the GESDA Foundation prepares another flagship initiative: the Global Curriculum for Science and Diplomacy (GCSD) that will be designed with global partners. The prototype is the Geneva Science Diplomacy Week.

4. First GESDA Intelligence Report prepared with the Permanent Representatives of 21 countries' missions to the UN Office at Geneva

"The Intelligence Report on the multilateral governance of quantum computing for the SDGs" was prepared by GESDA in collaboration with the permanent representatives of 21 countries' missions to the UN Office at Geneva, with a foreword written by State Secretary of the Swiss Federal Department of Foreign Affairs Alexandre Fasel. GESDA's anticipatory work, methodology and expertise are now also requested by the UN Secretary General for his network of science advisors. GESDA offers a growing body of expertise on multiple fronts that is increasingly in demand, as evidenced by more international organisations seeking advice and partnerships.

5. Third edition of the Geneva Science and Diplomacy Anticipation Summit

GESDA Foundation fulfills its role as a global convener and honest broker by integrating the voices of all sectors from academia to politics, and from business to citizens at the annual Geneva Science and Diplomacy Anticipation Summit. It works in conjunction with Switzerland's Federal Department of Foreign Affairs, which serves as a host during the Summit for the now yearly Geneva Political Talks on Science and Diplomacy. Ten countries were represented in 2023 with a special contribution by Friar Paolo Benanti, who advises both Pope Francis at the Vatican and the Italian government on ethical issues related to AI.

6. Inaugural meeting of the newly created GESDA Impact Forum

GESDA Foundation raised 30.2 million Swiss francs in private funding in 2023 for its Core and Impact Activities with the goal of growing its capacity to play a role as a funding partner. To this end, the newly created Impact Forum assembled an inclusive array of project initiators, investors, supporters, and promoters. The first meeting was held in Geneva on October 13.

7. Opening 144 personalised dialogues with potential diplomatic partners

In 2023, GESDA Foundation increased its visibility and global reach through 144 personalised meetings with ministers, diplomats and leaders of international organisations. This effort was reinforced through special events such as the first Swiss Anticipation Day in Zurich and a Quantum Hackathon in Abu Dhabi, as well as through the launch of the new GESDA News monthly newsletter.



Key Result 1

Launch of the Open Quantum Institute in partnership with CERN and UBS

GESDA comes into its own as a think and do tank for anticipation and action, with the Swiss foreign minister, Federal Councillor Ignazio Cassis, and colleagues from 10 countries announcing the first flagship initiative born at GESDA, the Open Quantum Institute (OQI), ready to be spun off at CERN in 2024 with the support of UBS.

"Quantum technologies will have a direct impact on society as a whole. In health, energy, food and many other areas. But we have to be honest and say that today we don't know exactly what the impact will be. These are the societal challenges.

In line with the GESDA Science Breakthrough Radar®, we are confident that we will see impacts on people, society and the planet in the coming years and decades.

It's time to prepare ourselves for a human-centered use of quantum computing. Today, there are gaps between the fundamental and technological levels - as well as between the technological and societal levels - that need to be bridged.

We need a 'quantum-ready' society, going beyond the interests of individual players at corporate or national level.

I am therefore grateful that GESDA has initiated and curated a diplomatic dialogue on quantum computing, gathering guidance from the private sector, academic institutions and permanent representatives to the United Nations and other international organisations in Geneva.



This dialogue aims to help advance the United Nations' 17 Sustainable Development Goals for 2030. It goes hand in hand with a strong belief that science and diplomacy must work together to ensure that scientific and technological breakthroughs benefit all of humanity, not just a select few".

— From a speech by Swiss Foreign Minister and Federal Councillor Ignazio Cassis to the GESDA Summit on Oct. 13, 2023

Swiss Foreign Minister and Federal Councilor Ignazio Cassis (@GESDA/von Loebell)

Open Quantum Institute: Hosted by CERN, born at GESDA, supported by UBS



The OQI announcement featuring, L to R, Peter Brabeck-Letmathe (Chairman of GESDA), Ignazio Cassis (Swiss Minister of Foreign Affairs), Nathalie Fontanet (State Councilor of the Canton of Geneva), Fabiola Gianotti (Director General of CERN), Christian Bluhm (Chief Risk Officer of UBS) (@GESDA/von Loebell)

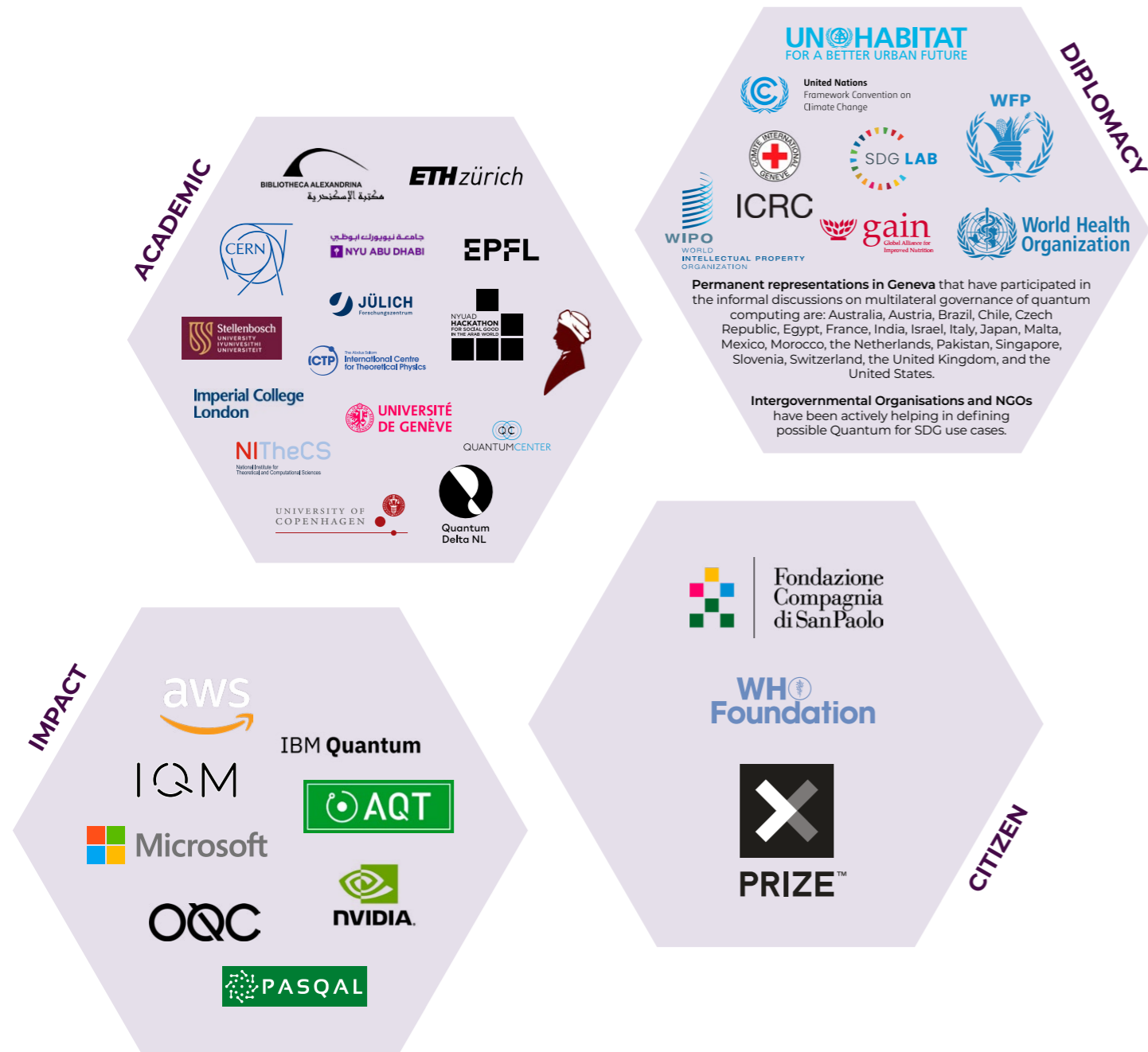
The keys to unlock quantum computing's potential

The OQI has four core objectives which we call the "4A's". We believe they are part of the answer to pioneering quantum computing for the benefit of all.

- 
ACCELERATING APPLICATIONS FOR HUMANITY
 Realising the full potential of quantum computing by accelerating the use cases geared towards achieving the SDGs, thanks to the combined forces of researchers and developers, entrepreneurs, the United Nations, and large NGOs.
- 
ACCESS FOR ALL
 Providing global, inclusive and equitable access to a pool of public and private quantum computers and simulators available via the cloud.
- 
ADVANCING CAPACITY BUILDING
 Developing educational tools to enable everyone around the world to contribute to the development of quantum computing and make the most of the technology.
- 
ACTIVATING MULTILATERAL GOVERNANCE FOR THE SDGS
 Providing a neutral forum to help shape multilateral governance of quantum computing for the SDGs.

Top partners from all sectors

The OQI benefits from a robust ecosystem that includes communities in academia, diplomacy, the private sector and broader citizenship.



Spotlight on the Open Quantum Institute – The OQI Incubation Report 2023

GESDA’s Board of Directors decided in early 2023 to fund and incubate the OQI, with a target launch set for 2024 to hand over an initiative with the best chances of success to a strong operating partner.

To implement this decision, the OQI incubation plan set deliverables for the OQI community to achieve by October 2023. These deliverables constituted the “minimum viable product” (MVP) for the OQI to test its offering with future users, learn by doing and improve its methods of action.

It also included programmatic and institutional perspectives that were developed based on key objectives for the pilot implementation phase, which is to run from March 2024 to December 2026.

The full Incubation Report can be read in the GESDA Science Breakthrough Radar® 2023 (pages 316-327).

Work Package	Milestones reached by the 2023 GESDA Summit
1 “Go-to” place for quantum SDG use cases	<ul style="list-style-type: none"> 4-6 outlines of SDG-focused use cases led by OQI curated multi-stakeholder teams Launch of a GESDA-PRIZE Quantum for SDG contest to generate global bottom-up submissions of use cases Impact X feasibility review of ‘non OQI’ use cases, guided by OQI’s theory of change and evaluation criteria (expert workshop to take place during the summit)
2 Pool of quantum computers	<ul style="list-style-type: none"> Clarification of the concrete modalities to access the OQI pool of computers MoUs with providers to secure sufficient and state-of-the-art level of access Mock-up of a unified access portal (including sketch of the workflow of users, specification of functionalities for stakeholders, list of critical issues)
3 User empowerment – educational capacity	<ul style="list-style-type: none"> Hackathon pilot, OQI prize winners reflect on experience and showcase their work at summit Quantum geopolitics online game (MVP mode)
4 Multilateral governance of quantum computing for the SDGs	<ul style="list-style-type: none"> Prioritisation of relevant multilateral governance themes Communication of initial considerations of DEEG (Intelligence Report on the multilateral governance of quantum computing for the SDGs)
5 Strong OQI governance	<ul style="list-style-type: none"> Governance scenario validated Individuals approached to join governing bodies once the OQI starts operations
6 Financial sustainability	<ul style="list-style-type: none"> Financing needs of incubation and pilot phase secured
7 Stakeholder engagement	<ul style="list-style-type: none"> Community proves concrete engagement in initial activities and demonstrates scientific excellence OQI goes public with a dedicated website presenting its work and mission: https://oqi.gesda.global/

By December 2023, more than 40 partners and over 130 experts worldwide had actively contributed to piloting OQI’s future offerings, and to building a best-in-class governance structure plus a science and technology knowledge hub. The incubation during 2023 provides a strong basis for the next phase of the implementation of OQI: the handover to CERN for the 3-year pilot implementation phase from 2024 to 2026.

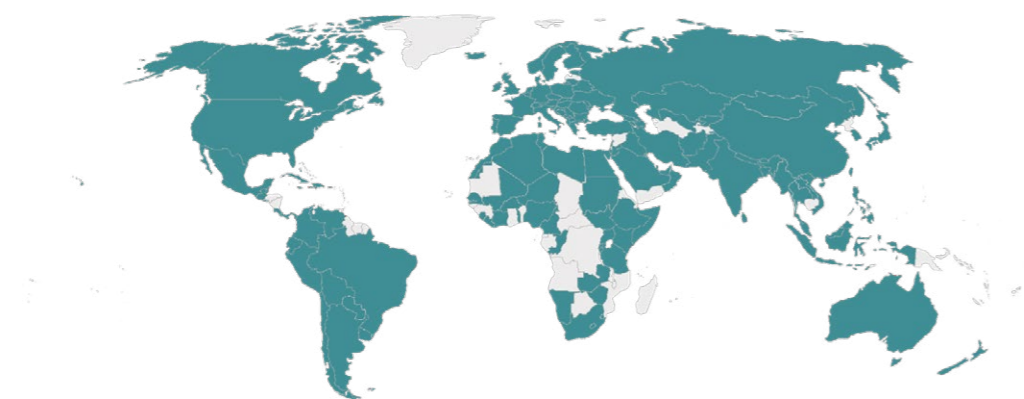
Key Result 2

Third edition of GESDA Science Breakthrough Radar® with 6 new Deep Dives

The GESDA Science Breakthrough Radar® each year provides a key tool for anticipation that serves as a resource for scientists, diplomats, entrepreneurs, and citizens. The 2023 edition encompassed 6 Deep Dives on current and future hot topics, 27 Breakthrough Briefs, seven updates of existing Briefs, three Briefs on new emerging topics and nine new invited contributions that will nurture future editions.

38,245 readers in 170 countries

With its third edition, the GESDA Science Breakthrough Radar® produced by the GESDA Academic Forum has become a key tool for anticipation and platform for continuing initiatives, workshops and deep dives into central themes. So far, **1,542 scientists from 73 countries** have contributed to the first three editions and the Radar® has been read in 170 countries.



A flagship product that never rests

In 2023, the GESDA Science Breakthrough Radar's® depth was expanded with six Deep Dives on two major themes – Neuro-augmentation and The Future of Peace and War – discussed at several high-level Anticipation Workshops.

- At an inaugural workshop in Villars organised in March 2023 by the GESDA Academic Forum with financial support from the Defitech foundation, a carefully chosen group of leaders from relevant disciplines focused on the enhancement of brain functions in three interdisciplinary themes: brain hacking, hybrid brains, and artificial cognition.
- GESDA, the Geneva Centre for Security Policy (GCSP), and Columbia University's School of International and Public Affairs (SIPA), join forces to lead discussions in Geneva and New York on applying GESDA's anticipatory methodology to mapping the future of peace and war.
- The four other Deep Dives presented in the 2023 edition are: Breakthroughs & Opportunities of Advanced AI and Quantum, The Human Right to Science – GESDA Science Lens, The Future of People, Society & the Planet(s) – GESDA Philosophy Lens - and People's Uses and Expectations Regarding Science – GESDA Digital Pulse of Society.

Overview of the scientific topics covered in the 2023 edition of the GESDA Science Breakthrough Radar®

Scientific Platform	6 Deep Dives for 2023	27 Breakthrough Briefs <i>3 new topics added for 2023 in bold</i> 7 updates in italic	11 Invited Contributions <i>9 new topics added for 2023 in bold</i>
1 Quantum Revolution & Advanced AI	The Opportunities of Quantum: GESDA Pulse of Diplomacy	1.1 <i>Advanced AI</i> 1.2 <i>Quantum Revolution</i> 1.3 Unconventional Computing 1.4 <i>Augmented Reality</i> 1.5 <i>Collective Intelligence</i>	• The Technological Opportunity for Digital Humanities and Art • AI for Science • Robotics & Embodied AI • Digital History
2 Human Augmentation	Neuro-augmentation	2.1 <i>Cognitive Enhancement</i> 2.2 <i>Human Applications of Genetic Engineering</i> 2.3 <i>Health Span Extension</i> 2.4 <i>Consciousness Augmentation</i> 2.5 <i>Organoids</i> 2.6 <i>Future Therapeutics</i>	• Future of Psychedelics Medicine
3 Eco-Regeneration & Geoengineering		3.1 <i>Decarbonisation</i> 3.2 Earth Systems Modelling 3.3 <i>Future Food Systems</i> 3.4 <i>Space Resources</i> 3.5 <i>Ocean Stewardship</i> 3.6 <i>Solar Radiation Modification</i> 3.7 <i>Infectious Diseases</i>	• Deep-sea Mining • Fungal Pandemics
4 Science & Diplomacy		4.1 <i>Science-based Diplomacy</i> 4.2 <i>Advances in Science Diplomacy</i> 4.3 Prediction, Foresight and Futures Literacy 4.4 <i>Democracy-Affirming Technologies</i>	• Misperceptions, meta-perceptions and conflict • Understanding the reality of multilateral relations with computational diplomacy
5 Knowledge Foundations	The Future of People, Society & the Planet(s) – GESDA Philosophy Lens The Future of Peace and War – GESDA Geopolitical Lens The Human Right to Science – GESDA Science Lens GESDA Digital Pulse of Society: People's Expectations about Science Throughout the World	5.1 <i>Complex Systems Science</i> 5.2 <i>Future of Education</i> 5.3 <i>Future Economics, Trade and Globalisation</i> 5.4 <i>The Science of the Origins of Life</i> 5.5 <i>Synthetic Biology</i>	• Future of Archaeology • Responsible Anticipation and Self-Regulation

Key Result 3

Partnering with the London-based charity Wellcome Trust to scale up studies in Science and Diplomacy

Backed by Wellcome, one of the world’s largest charities, the GESDA Foundation prepares another flagship initiative: the Global Curriculum for Science and Diplomacy (GCSD) that will be designed with global partners. The prototype is the Geneva Science Diplomacy Week.

GESDA is working to establish anticipatory science and diplomacy as an academic topic, a mindset and a new professional pathway since its emergence as a leading Solution Idea from the Breakthrough Radar®.

In September 2023, Wellcome joined with GESDA in supporting the design and incubation of the GCSD from 2024 to 2027 through a grant.

The Solution Idea of a GCSD will now enter its design phase, with plans for it to become an independent initiative by 2027 with the involvement of representatives from GESDA’s four communities: academic, diplomatic, impact and citizen.

Together with a broad coalition of global training providers, research institutions, employers and potential users, GESDA is leading this initiative to help train decision-makers from different countries and walks of life to use the great acceleration of science and technology to positively impact as many people as possible in all regions of the world.

GESDA Board Member and Diplomacy Forum Chair **Enrico Letta**, a former Prime Minister of Italy and President of the Jacques Delors Institute in Paris, was named by the GESDA Board to champion the project, giving the GCSD another boost and strong leadership.



"Science isn't enough. Evidence isn't enough, truth isn't enough. All these things will be mediated through politics, through diplomacy, through international relations. And that's why investing in building the cadre of people who can interact at that interface between science and diplomacy is so important to us. GESDA is full of ambition for this and very conscious that there are all sorts of things they can draw on in order to bring this together. So much work is going on around the world already, and we're not looking at reinventing the wheel, but bringing together a framework that can abstract from the good work happening worldwide and then bring that to a new context to build a truly global approach to science and diplomacy".

— Martin Smith, Head of Policy Lab, Wellcome

Martin Smith, Head of Policy Lab, Wellcome (©GESDA/von Loebell)

Spotlight on the Science Diplomacy Week 2023

The Geneva Science Diplomacy Week 2023 is an annual educational and networking experience into the science and diplomacy ecosystem of International Geneva. Initiated in 2021 by the GESDA Foundation and organised in 2022 and 2023 in partnership with 17 Geneva, Swiss and global academic and diplomatic institutions, the program brings together the current and next generation of leaders from around the world for an intensive week of dialogue and exchanges with key international agencies, diplomatic missions, academic institutions, global NGOs and technology leaders shaping the future of science for multilateralism.



Global Curriculum for Science and Diplomacy – Science Diplomacy Week: Immersion Program

Immersion program participants come from 24 countries



175 applications

30 selected participants

24 represented countries

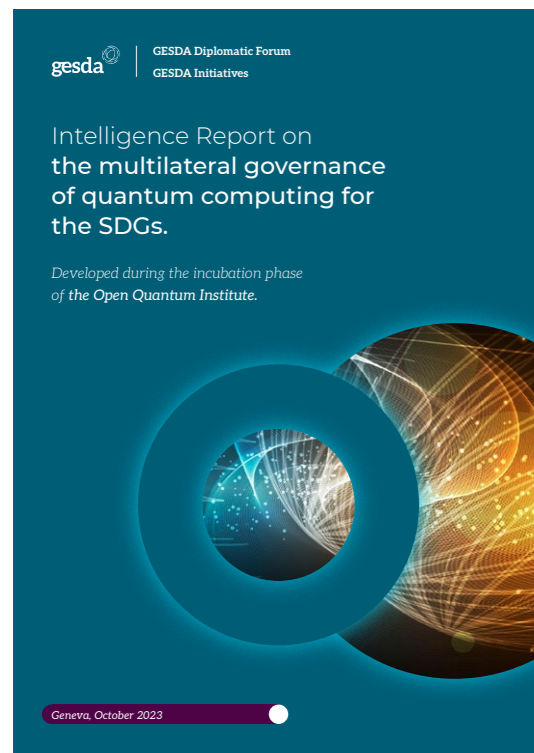
Key Result 4

First GESDA Intelligence Governance Report prepared with the Permanent Representatives of 21 countries' missions to the UN Office at Geneva

The “Intelligence Report on the multilateral governance of quantum computing for the SDGs” was prepared by GESDA in collaboration with the permanent representatives of 21 countries' missions to the UN Office at Geneva, with a foreword written by State Secretary of the Swiss Federal Department of Foreign Affairs Alexandre Fasel. GESDA's anticipatory work, methodology and expertise are requested by the UN Secretary General for his network of science advisors. GESDA offers a growing body of expertise on multiple fronts that is increasingly in demand, as evidenced by more international organisations seeking advice and partnerships.

Support and cooperation with governments represented in Geneva

GESDA, with the cooperation of permanent representatives from 21 countries' missions to the UN and other international organisations in Geneva, produced the first intelligence report on the multilateral governance of quantum computing in the service of the UN's 17 Sustainable Development Goals (SDGs) for 2030. The report was released at the 2023 GESDA Summit, where ministers and high-level officials from 10 countries joined the second edition of the Geneva Political Talks on Science Diplomacy.



GESDA is very grateful to the active participation in the informal discussions on multilateral governance of quantum computing for the SDGs, of Australia, Austria, Brazil, Chile, Czech Republic, Egypt, France, India, Israel, Italy, Japan, Malta, Mexico, Morocco, the Netherlands, Pakistan, Singapore, Slovenia, Switzerland, the United Kingdom, and the United States.

"The diplomatic representations involved wish to share this initial informal work with peers, so that more countries can be involved in the discussions and contribute to the shaping of innovative approaches for future governance frameworks of quantum computing".

"My hope is that the present report, published on the occasion of the 2023 GESDA Summit, will foster such contributions from colleagues and catalyse further dialogue and action by both the quantum computing and science diplomacy communities".



— Alexandre Fasel, Swiss State Secretary for Foreign Affairs and Chair of GESDA Diplomatic Forum 2022-2023

GESDA's expertise makes it a sought-after advisor with the ear of the UN Secretary General

GESDA's ties with the United Nations and its member countries deepened, including an invitation to join the UN Secretary General's Scientific Advisory Board and present the GESDA Science Breakthrough Radar® to the UN Secretary General and Executive Board.

GESDA also contributed to the UN Secretary-General's “A New Agenda for Peace” while working with the UN High Representative for Disarmament Affairs.



U.N. Secretary General António Guterres, on July 20, 2023, announces the release of a new "Our Common Agenda" policy brief for the Summit of the Future in 2024. The brief is known as "The New Agenda for Peace". (©UN Photo/Manuel Elías)



Swiss Foreign Minister and Federal Councilor Ignazio Cassis, center, chairs a UN Security Council meeting on "Futureproofing Trust for Sustaining Peace" in May 2023. (©UN Photo/Loey Felipe)

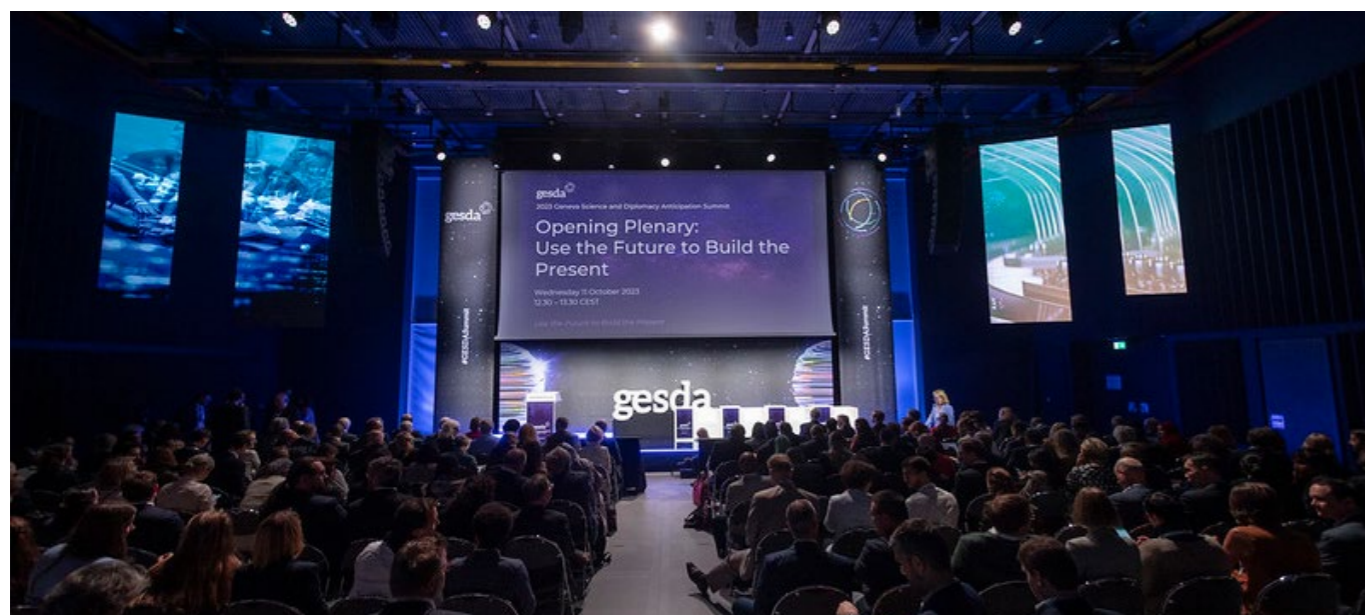
GESDA's work is in demand from Switzerland and international organisations

In May 2023, an UN Security Council open debate chaired by Swiss Foreign Minister and Federal Councilor Ignazio Cassis shone a spotlight on GESDA's brand of anticipatory science and diplomacy as a 21st century solution.

Key Result 5 Third edition of the Geneva Science and Diplomacy Anticipation Summit

GESDA Foundation fulfills its role as a global convener and honest broker by integrating the voices of all sectors from academia to politics, and from business to citizens at GESDA’s annual Geneva Science and Diplomacy Anticipation Summit. It works in conjunction with Switzerland’s Federal Department of Foreign Affairs, which serves as a host during the Summit for the now yearly Geneva Political Talks on Science and Diplomacy. Ten countries were represented in 2023 with a special contribution by Friar Paolo Benanti, who advises both Pope Francis at the Vatican and the Italian government on ethical issues related to AI.

The 2023 Summit offered a diverse program with 23 sessions open to 1,366 registered in-person and online participants. These include eight plenary sessions, nine anticipatory briefings and six interactive discussions. Two open events and three side events also were held. High-level debates and presentations featured the Oppenheimer Project and NeuroRestore.



The 2023 GESDA Summit's Opening Plenary at CERN Science Gateway (@GESDA/von Loebell)

The 2023 Geneva Science and Diplomacy Anticipation Summit At a Glance Geneva – October 11 to 13, 2023

Two major Announcements	<ol style="list-style-type: none"> October 11 – International partnership with Wellcome to create the first Global Curriculum on Science Diplomacy October 13 – Launch of the Open Quantum Institute with Swiss Federal Councillor Ignazio Cassis, Geneva State Councillor Nathalie Fontanet, GESDA Chairman Peter Brabeck-Letmathe and GESDA's project partners, CERN Director General Fabiola Gianotti, and UBS Chief Risk Officer Christian Bluhm
A strong political segment	<p>Geneva Political Talks on Science and Diplomacy hosted by the Swiss Minister of Foreign Affairs, Federal Councillor Ignazio Cassis, with:</p> <ol style="list-style-type: none"> Ministers and delegates from 10 countries Directors of three international organisations
Six thematic highlights....	<ol style="list-style-type: none"> GESDA Science Breakthrough Radar® 2023 - 1 - Overview on the six 2023 Deep Dives and the 1,542 contributing scientists worldwide GESDA Science Breakthrough Radar® 2023 - 2 - Overview on the Pulse of Society 2023 featuring 11 million citizens' reflections on science breakthroughs presented in the Breakthrough Radar® Neuro-augmentation: Hope or Hype? The Future of Peace and War Science Diplomacy at Scale AI and Quantum for All
.... and more	<ol style="list-style-type: none"> One demonstration on the progress of neuroprosthetics (Sylviane Borel, Prof. Grégoire Courtine, Prof. Dr. Jocelyne Bloch) Nine anticipatory science special briefings Six interactive panel discussions
Ten affiliated events (open or on invitation)	<ol style="list-style-type: none"> Special screening of the Oppenheimer documentary: <i>The Day After Trinity</i>, with Oppenheimer family members (open) The Messenger RNA Adventurers (open) Swiss Ministry of Foreign Affairs – MENA region workshop Dubai Future Foundation workshop Science Diplomacy Capital for Africa workshop ETH – AI workshop Open Quantum Institute Scientific Review workshop Future of Peace and War Initiative – next steps Geneva Science Diplomacy Week Alumni First GESDA Impact Forum meeting
Two community events	<ol style="list-style-type: none"> Speaker's dinner Academic Forum Dinner
Five main documents	<p>From GESDA's partner "Fondation pour Genève"</p> <ul style="list-style-type: none"> Science Diplomacy: An Opportunity for Geneva <p>From GESDA Foundation</p> <ul style="list-style-type: none"> GESDA Science Breakthrough Radar® 2023 Executive Summary of the Radar® 2023 Intelligence Report on the multilateral governance of quantum computing for the SDGs signed by the GESDA Diplomatic Forum Open Quantum Institute Incubation Report

Summit Session **"From the Atomic Bomb to AI: Lessons from Oppenheimer"** on 12 October 2023 at the 2023 GESDA summit, linked to the special screening of the Oppenheimer documentary, *The Day After Trinity*, in presence of the Oppenheimer family, Friar Paolo Benanti, Doreen Bogdan-Martin, and Patrick Aebischer.



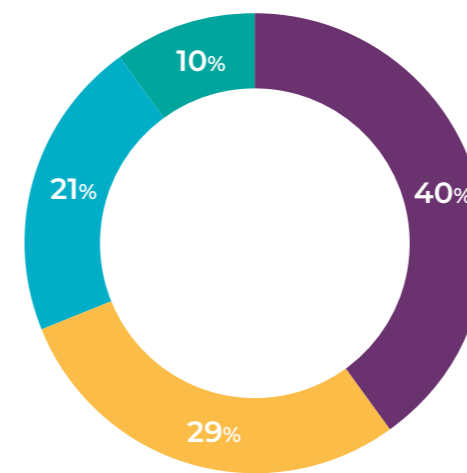
At **"Quantum Solutions for All: High-Level Political Segment"**, a political roundtable organised by the Swiss Federal Department of Foreign Affairs (FDFA) and GESDA, ministers and decision-makers discuss the opportunities and challenges offered by quantum technology. Moderator Alexandre Fasel, State Secretary for Foreign Affairs, Switzerland, opens the session with Ignazio Cassis, Sarah Bint Youssef Al Amiri, Peter Sztaray, Viscount Camrose, Tatiana Valovaya, Yoichiro Matsumoto, Patricia Gruber.



People Pictured on Page 30

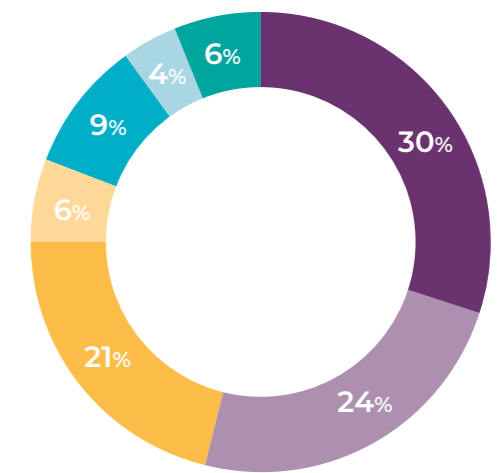
1. Summit Session "From the Atomic Bomb to AI: Lessons from Oppenheimer"
2. Charles Oppenheimer, Founding Member, The Oppenheimer Project, USA
3. Doreen Bogdan-Martin, Secretary-General, International Telecommunications Union
4. Summit Session "From the Atomic Bomb to AI: Lessons from Oppenheimer"
5. Kate Oppenheimer, Founding Member, The Oppenheimer Project, USA
6. Paolo Benanti, Theologian and Academic, Third Order Regular of St. Francis; Professor, Pontifical Gregorian University; Advisor to Pope Francis on A.I. and Technology Ethics, Vatican City
7. Patrick Aebischer, Vice-Chairman, GESDA; President Emeritus, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland
8. Quantum Solutions for All: High-Level Political Segment
9. Alexandre Fasel, Ambassador, Special Representative for Science Diplomacy of the Swiss Federal Department of Foreign Affairs.
10. Emilija Stojmenova Duh, Minister of Digital Transformation, Slovenia (video message)
11. Patricia Gruber, Science and Technology Advisor to the Secretary of State, USA
12. Péter Sztáray, State Secretary for Security Policy and Energy Security, Hungary
13. Sarah Bint Yousef Al Amiri, Minister of State for Public Education and Advanced Technology, United Arab Emirates
14. Tatiana Valovaya, Director-General, United Nations Office at Geneva; Yoichiro Matsumoto, Science and Technology Advisor to the Minister of Foreign Affairs, Japan, background modification by Housatonic
15. Viscount Camrose, Minister for AI and Intellectual Property, UK

Speakers' Community Overview



- Academic
- Diplomatic
- Impact
- Citizen

Geographical Origin of Speakers



- Switzerland
- Europe
- North America
- Latin America
- Asia
- Africa
- MENA

Key Result 6 Inaugural meeting of the newly created GESDA Impact Forum

GESDA Foundation raised 30.2 million Swiss francs in private funding in 2023 for its Core and Impact Activities with the goal of growing its capacity to play a role as a funding partner. To this end, the newly created Impact Forum assembled an inclusive array of project initiators, investors, supporters, and promoters. The first meeting was held in Geneva on October 13.

From a think and do tank to funding for action

GESDA becomes a funding partner, extending its honest broker role to bringing together investors and project promoters, and establishes an Impact Forum with key executive leaders joining and meeting for the first time in Geneva.

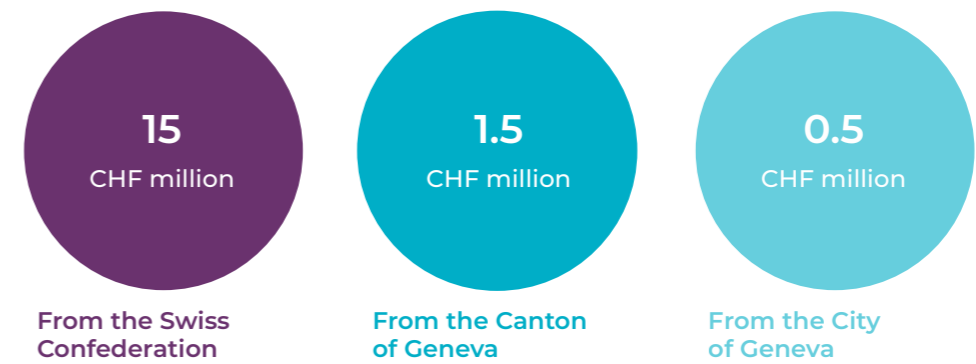


GESDA Foundation operates as a public-private partnership and is committed to raising private funding over the next five years that is two to three times as much as the 3 million Swiss francs a year in public funding that it receives from the Swiss Confederation.

The ratio as of the end of 2023, after the first year of scaling up:

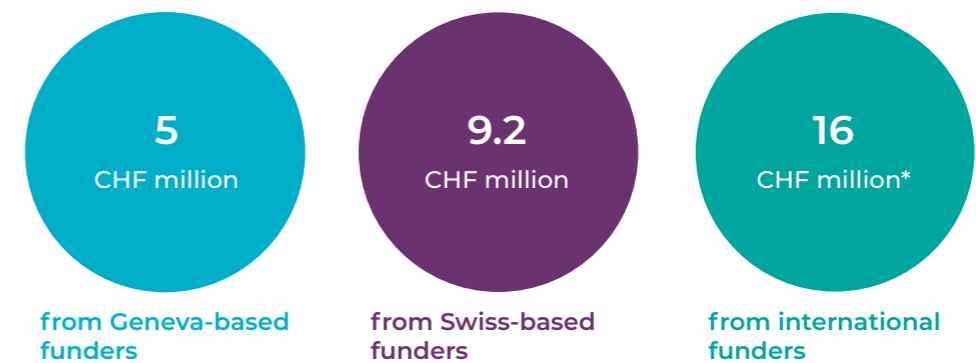
- Public Funding - 36 %
- Private Funding - 64%

Total public funding for 2023-2027: 17 CHF million



Total private funding secured for 2023-2027 by end of 2023: 30.2 CHF million*

(One anonymous foundation, UBS, SICPA, Fondation Defitech, Wellcome, Open Society Foundations, Compagnia San Paolo, Google)



* incl. 5 USD\$ million for the XPRIZE Quantum Algorithms Contest presented by GESDA 2024-2027

Key Result 7

Opening 144 personalised dialogues with potential diplomatic partners

In 2023, GESDA Foundation increased its visibility and global reach through 144 personalised meetings with ministers, diplomats and leaders of international organisations. This effort was reinforced through special events such as the first Swiss Anticipation Day in Zurich and a Quantum Hackathon in Abu Dhabi, as well as through the launch of the new GESDA News monthly Newsletter.

Diplomatic engagement highlights

In 2023, GESDA Foundation first increased its engagement with the diplomatic community. Most of these meetings and events responded to a particular objective in the realm of strengthening or identifying opportunities for future and specific collaborations, nurturing and keeping the diplomatic community aware of GESDA's progress and initiatives while socialising GESDA's tools for effective multilateralism and GESDA's raison d'être with global actors (see details of the meetings in Chapter 5).

Maintaining, expanding, and purposefully engaging with diplomatic stakeholders is a demanding task, but it has been paying off, as noted in the following table.



1. Patricia Gruber, Science and Technology Adviser to the Secretary of State United States Department of State (@GESDA / von Loebell)
2. Joel Antonio Hernández García, Undersecretary for Multilateral Affairs and Human Rights in the Ministry of Foreign Affairs in Mexico (@GESDA / von Loebell)
3. Sarah Bint Yousif Al Amiri, UAE Minister of State for Public Education and Advanced Technology (@GESDA / von Loebell)

Meeting/Event	Impact
Substantive exchange with a representative of the UN Secretary General's office and UN Futures Lab, including UNSC plan to launch a High-Level Scientific Advisory Board (HLSAB) and opportunities for GESDA's engagement 18.01.2023	GESDA received a formal invitation to be part of the network of the High Level Scientific Advisory Board This ongoing exchange is a building block for potential inputs into the Summit of the Future
Substantive exchange with ITU DG for GESDA to contribute to World Summit Information Society (WSIS 2023) 25.01.2023	Ambassador Alexandre Fasel, GESDA's Diplomacy Chair, was invited to speak at the WSIS high-level political segment GESDA was given a slot to present the OQI as a side event with multiple stakeholders
Substantive exchange with Minister of Science, Technology, and Innovation of Colombia 27.02.2023	GESDA is considering Colombia as a potential partner for the GCSD in Latin America
Substantive exchange with International Parliamentary Union (IPU) 28.02.2023	IPU SG was invited to block his agenda to participate at the GESDA Summit's panel on Science and Diplomacy
Substantive exchange with Minister of Foreign Affairs of Liechtenstein 28.02.2023	Opportunity to present GESDA as a Swiss-born foreign policy innovative initiative
Briefing to UNCTAD SG on possibilities for collaboration (GCSD) 01.03.2023	UNCTAD SG is interested in collaborating with the GCSD design and development
Follow up exchange with ISO Deputy SG 03.03.2023	ISO is interested in continuing a collaboration with GESDA, for example, science diplomacy standards ISO offered a briefing to OQI DEEG (diplomatic workstream)
Participation at WSIS 2023: high-level political segment and side event on quantum digital divide and the SDGs 14.03.2023	Successful multi-stakeholder collaboration with the ambassadors of Mexico and Morocco, plus EPFL, IBM and the SDG Lab
Substantive exchange with UNDP's Geneva director and New York IT's director 15.03.2023	UNDP invited GESDA to multi-stakeholder meetings as a key actor on foresight and anticipation
Follow-up exchange with Minister of Digital Transformation of Slovenia and invitation to the GESDA Summit 16.03.03	The Minister participated at the Summit (virtually, although she intended to come in person)
Substantive exchange with WIPO DG 28.03.2023	WIPO continues to meaningfully engage with GESDA: Summit session and IP-related
Initial contact with UN System Staff College Director 29.03.2023	GESDA was invited to deliver a Trend Talk on anticipation for the UN SSC Summer Course UN SCC could become a future GCSD client
Participation at 'by invitation only' 2-day workshop with UN High Representative for Disarmament Affairs and a group of ambassadors from selected countries on the New Agenda for Peace (NA4P) 27 & 28.04.2023	GESDA is invited to deliver various talks to the UN membership on security, disarmament and peace related topics (translating GESDA Science Breakthrough Radar® themes for multilateral governance)
Substantive exchange with UNDRR High Representative 08.05.2023	Nothing to report yet
Substantive exchange with High Commissioner for Human Rights 19.05.2023	The High Commissioner considered the GESDA Science Breakthrough Radar® a unique tool and instructed his staff to continue engaging with GESDA

Meeting/Event	Impact
Initial contact and exchange with WTO deputy DG 24.05.2023	Nothing to report yet
Briefing to Human Rights Council President - PR Czech Republic 30.05.2023	The President of the HRC participated in the OQI ambassadors' dinners and attended the Summit VIP dinner
Follow up with head of the UN Futures Lab 27.06.2023	GESDA is considered a relevant actor in shaping the work programme of the Lab
Briefing to the Youth for Biosecurity co-hort of the United Nations (participants worldwide). 08.08.2023	Projection of GESDA as an honest broker for Science and Diplomacy Socialisation of the GESDA Science Breakthrough Radar® for effective multilateralism/ GESDA's initiatives
Briefing to the Working Group of the Biological Weapons Convention considering the establishment of a Scientific Advisory Mechanism in the context of the work of the Convention. 14.08.2023	Projection of GESDA as an honest broker for Science and Diplomacy Socialisation of the GESDA Science Breakthrough Radar® for effective multilateralism in a formal setting
Briefing to the United Nations Disarmament Fellows (participants worldwide) 30.08.2023	Projection of GESDA as an honest broker for Science and Diplomacy Socialisation of the GESDA Science Breakthrough Radar® for effective multilateralism/ GESDA's initiatives
Briefing to a cohort of diplomats from the Middle East (through the GCSP) 14.09.2023	Projection of GESDA as an honest broker for Science and Diplomacy Socialisation of the GESDA Science Breakthrough Radar® for effective multilateralism/ GESDA's initiatives
Participation as a speaker (AI-Science Diplomacy) at the AI Conference organised by SiDLab UNIGE ETHZ 15.09.2023	Strengthening GESDA's collaboration with SiDLab Connecting AI research/science with effective multilateralism and governance (GESDA's approach)
Substantive exchange with the president of the Chilean Council for Science, Technology, Knowledge, and Innovation for Development (CTCI) of Chile 13.10.2023	Invitation to participate at Congreso Futuro and to bring GESDA's methodology to the Chilean's government prospective strategies
Briefing to a cohort of young diplomats from Latin America (through Konrad Adenauer Stiftung) 14.11.2023	Projection of GESDA as an honest broker for Science and Diplomacy Socialisation of the GESDA Science Breakthrough Radar® for effective multilateralism/ ESDA's initiatives
Substantive exchange with US. State Department Director of Strategy & Policy Risk of the Envoy's Office for Critical and Emerging Technologies (OQI) 15.11.2023	Strengthening GESDA's collaboration with the USA (Open Quantum Institute) Raising GESDA's profile outside Geneva
Substantive exchange with Science and Technology Adviser of the Ministry of Foreign Affairs of the UAE (Global Curriculum for Science and Diplomacy GCSD) 22.11.2023	Strengthening GESDA's ongoing collaboration with the U.A.E (Summit, NTIC) Invitation to join the GCSD advisory body
Briefing on OQI (incl. diplomatic engagement) to FDFA cohort (various divisions) 24.11.23	OQI is perceived as a positive initiative based on the informative session The diplomatic engagement from other countries was highly commended
Briefing to Permanent Missions on OQI as part of Quantum Day by UNODA 30.11.2023	Socialisation of the OQI/GESDA as a concrete example of Science Diplomacy

List of acronyms used on pages 35 and 36

FDFA	Federal Department of Foreign Affairs
GCSP	Geneva Centre for Security Policy
IPU	Inter-parliamentary Union
ISO	International Organization for Standardization
ITU	International Telecommunication Union
UNCTAD	UN Trade and Development
UNDP	United Nations Development Programme
UNDRR	United Nations Office for Disaster Risk Reduction
UNODA	United Nations Office for Disarmament Affairs
WIPO	World Intellectual Property Organization
WSIS	World Summit Information Society
WTO	World Trade Organization

2023 was the first year of GESDA's scale-up phase, based on the decision by the Swiss and Geneva governments to extend the Foundation's mandate for 2022 to 2032. This 2023 Activity Report is an opportunity to look back from a high-level perspective at how GESDA began to scale-up and realise its full potential.

5.1. Science anticipation

	2022
Objective	<ul style="list-style-type: none"> Assess the relevance of the four initial scientific platforms and adapt them if necessary Prepare the 2nd GESDA Science Breakthrough Radar®
Results	<p>Second edition of the GESDA Science Breakthrough Radar® with 37 emerging topics</p> <p>Addition of Knowledge Foundations as a fifth scientific platform, covering transversal areas from the perspective of their impact on individuals, society and the planet. It covers topics from basic sciences, engineering, social sciences, and humanities.</p> <p>37 emerging topics</p> <p>774 leading scientists from 70 countries</p> <p>336 breakthroughs</p> <p>Broaden the scope with philosophical and geopolitical lenses</p> <p>Add the monitoring actions people take in the Pulse of Society</p> <p>In close collaboration with Fondation pour Genève</p> <p>2022 - Resulting in: 47,000 new views on the digital platform 15,000 new users from 154 countries 23% from Switzerland – 16% from the U.S.</p>
Benefits for the Founders	The GESDA Science Breakthrough Radar® starts to serve as a benchmark product for key global institutions, further positioning International Geneva as the global hub for science anticipation and more effective multilateralism

	2023
Objective	<ul style="list-style-type: none"> Consolidate and deepen content for the 3rd GESDA Science Breakthrough Radar® Collaborate with key academic institutions to further develop the Radar Design and implement a campaign to promote the Radar from 2022 to 2023
Results	<p>Third edition of the GESDA Science Breakthrough Radar® with 42 emerging topics</p> <p>For the first time, the Radar contains six Deep Dives on:</p> <ul style="list-style-type: none"> Neuro-augmentation, based on the results of the inaugural high-level Villars Anticipation Workshop Enhanced lenses on: <ul style="list-style-type: none"> <i>Philosophy</i>, addressing fundamental questions about the future of humanity, debated by scholars in philosophy, social sciences and humanities, <i>Science</i>, based on the Brocher Foundation workshop on the Right to Science <i>Geopolitics</i>, based on two workshops in Geneva and New York on the Future of Peace and War, organised with Colombia University and GCSP. The Pulse of Society The incubation report of the Open Quantum Institute <p>42 emerging topics</p> <p>848 leading scientists from 73 countries</p> <p>324 breakthroughs</p> <p>Expansion of the Radar Advisory Board with Prof. Michael Schaeppman, president of University of Zurich, as new member</p> <p>Promotion campaign and formalisation of Radar partners launched at the STS Forum in Kyoto led by Academic Forum Chair Michael Hengartner</p> <p>Radar presentation to 22 international organisations, academic institutions and government entities</p> <p>2023 - Resulting in: 64,000 new views on the digital platform 20,000 new users from 165 countries 26% from Switzerland – 19% from the U.S.</p> <p>1,542, total number of scientists participating over three years</p>
Benefits for the Founders	The GESDA Science Breakthrough Radar® starts to serve as a benchmark product for key global institutions, further positioning International Geneva as the global hub for science anticipation and more effective multilateralism

5.2. Diplomacy acceleration

2022	
Objective	The methodology is evaluated , and proposals are articulated for optimisation beyond the pilot phase
Results	<ul style="list-style-type: none"> • First Geneva Science Diplomacy Week with an immersion program and open forum including Geneva-based partners and global collaborators • Announce the creation of a Global Curriculum on Science and Diplomacy • GESDA founders extend the mandate and support for GESDA Foundation for the next 10 years, based on a proposal submitted at the end of 2021 <p>Second edition of the Geneva Science and Diplomacy Anticipation Summit 1,267 registrations 152 speakers and moderators from 46 countries 21 sessions: Panels, debates and solution ideas High-Level Political Segment with Swiss President Ignazio Cassis and ministers from Estonia, Mexico, Morocco, Singapore, and United Arab Emirates 4 Solution Ideas presented The topics, debates and solution ideas resulted from the Radar®, task forces and outcomes of the 1st edition of the first summit in 2021.</p> <p>First GESDA Symposium on reviving the human right to science at the Brocher Foundation in December</p> <ul style="list-style-type: none"> • Continued efforts to build long-lasting partnerships with Geneva-based organisations and international stakeholders • Kick-started work on the Future of Peace and War with Columbia University and the GCSP • Multiple activities in capacity-building and training for and with major proponents of science diplomacy • Provided intelligence briefings and introduced GESDA's know-how to global stakeholders, policymakers and the diplomatic community • Developed interactions with the science and diplomacy hubs in Bern and Geneva by Switzerland's Special Representative for Science Diplomacy and his colleagues.
Benefits for the Founders	Advanced a solutions pipeline for the design and launch of concrete initiatives, attracting new actors and helping position International Geneva as a hub of action-oriented science diplomacy for a more effective multilateralism Proponents of International Geneva are aware of the scientific advances that are likely to contribute to the accomplishment of their mission and are actively involved in implementing solutions that are derived from science or technology.

2023	
Objective	<ul style="list-style-type: none"> • Completing evaluation of Open Quantum Institute (OQI) • Advancement of further solution ideas, initiatives and tools (Global Curriculum for Science and Diplomacy NeuroTech Intelligence Compass, Future of Peace and War, Science Self-Regulation) • Engaging more actors of International Geneva (IOs, MPs, NGOs) and politicians, diplomats and international civil servants worldwide in GESDA's activities
Results	<ul style="list-style-type: none"> • OQI evaluation completed and ready to launch incubation phase • Getting the financial support from Wellcome for design and incubation of the Global Curriculum for Science and Diplomacy (GCSD) secured • Scientific deep dive on Neuro-augmentation and continued design of a NeuroTech Intelligence Compass <p>Third edition of the Geneva Science and Diplomacy Anticipation Summit 1,366 registrations 89 speakers and moderators from 23 countries 23 sessions: Panels, debates and solution ideas A High-Level Political Segment with Swiss Foreign Minister and Federal Councilor Ignazio Cassis and ministers and top-level advisors from Hungary, Japan, Mexico, Slovenia, Switzerland, the United Arab Emirates, the United Kingdom, and the United States, along with the Director-General of the UN Office at Geneva 2 high level debates and demonstrations with the Oppenheimer Project and the NeuroRestore center 3 Solution Ideas presented • The topics, debates and solution ideas resulted from the Radar, task forces and outcomes of the second edition of the summit in 2022.</p> <p>Preparation of a Geneva Manifesto on Anticipation and the Human Right to Science planned for release in 2024 or 2025</p> <ul style="list-style-type: none"> • Second Geneva Science Diplomacy Week with an immersion program and an open forum including Geneva-based partners and global collaborations • Advancement of the initiative on Anticipating the Future of Peace and War In collaboration with the Swiss FDFA, Columbia University and the GCSP • Assessment of the feasibility for the creation of a Science Self-Regulation Agency <p>Staff from international organisations, NGOs, and Permanent Missions of International Geneva participated in GESDA activities:</p> <ul style="list-style-type: none"> • Summit: 17 speakers and moderators • OQI: 168 contributors • GCSD: 16 experts • SDW: 45 experts • Science self-regulation: 5 contributors • NeuroTech Intelligence Compass: 11 contributors
Benefits for the Founders	Advanced a solutions pipeline for the design and launch of concrete initiatives, attracting new proponents and helping position International Geneva as a hub of action-oriented science diplomacy for a more effective multilateralism Proponents of International Geneva are aware of the scientific advances that are likely to contribute to the accomplishment of their mission, and are actively involved in implementing solutions that are derived from science or technology.

5.3. Translation into action and Impact Fund

	2022	2023
Objective	Ensure available funding for initiatives to be incubated by GESDA	<ul style="list-style-type: none"> Complete incubation and feasibility study of Open Quantum Institute Advance further initiatives Support the setup of the Impact Forum
Results	<p>Creation of the Impact Forum and Citizens Forum is announced at the 2022 Summit</p> <p>First UCT-GESDA Youth Anticipation initiative (Cape Town in July)</p> <p>First Geneva Science Diplomacy Week with an immersion program and open forum among partners in Geneva and worldwide</p> <p>Added monitoring to taking the pulse of society</p>	<ul style="list-style-type: none"> Incubation and feasibility study of Open Quantum Institute completed and ready to launch 3-year pilot implementation phase as of March 2024 with CERN as host and UBS as supporting partner Design of XPRIZE-GESDA Quantum Contest finalised, with Google as title sponsor secured in early March 2024. Second Geneva Science Diplomacy Week with an immersion program and an open forum, including Geneva-based partners and global collaborators, demonstrates the capabilities of the GCSD Africa Youth Anticipation Initiative with three winners participating in the 2023 Summit Collaboration with the UN High Commissioner for Human Rights to mark the 75th anniversary of the Universal Declaration of Human Rights (UDHR) establishing a human right to science Assessment of a collaboration with the World Meteorological Organisation to develop a business model for its Global Greenhouse Gas Watch (G3W)
	<p>GESDA announces the incubation of the first two initiatives from a pipeline of 8 solution ideas:</p> <p>Open Quantum Institute (OQI)</p> <p>Global Curriculum on Science and Diplomacy</p> <p>By the end of the year, GESDA received support letters for the OQI from over 30 organisations, institutions, companies, and foundations, and from 12 nations' permanent missions in Geneva</p> <p>The Global Curriculum on Science and Diplomacy gathers over 16 partners - and the number is growing</p>	<ul style="list-style-type: none"> Impact Forum formally launched on Oct. 13 with 10 high-level executives in the private sector and philanthropy CHF 47.2 million* public and private funding secured in 2023 for 2023-2027 <ul style="list-style-type: none"> CHF 17 million public funding for 2023-2027 CHF 30.2 million* private funding 2023-2027: <ul style="list-style-type: none"> CHF 5 million from Geneva-based funders CHF 9.2 million from Swiss-based funders CHF 16 million* from international funders <p>* incl. USD \$ 5 million for the XPRIZE-GESDA Quantum Contest</p>
Benefits for the Founders	Mobilization of substantial new funding sources for International Geneva, more than 50% of it from institutions not typically investing in science diplomacy and International Geneva.	

5.4. Global visibility and integration of citizens voices

	2022	2023
Objective	<ul style="list-style-type: none"> Communicate the results of the pilot phase evaluation and future perspectives in GESDA's development Publish the second edition of the Radar as a new annual reference tool for communities 	<ul style="list-style-type: none"> Significant increase in awareness in Switzerland and worldwide based on anticipation among the four GESDA communities.
Results	<p>10,000 followers on communication channels, including:</p> <ul style="list-style-type: none"> 4,500 followers on Twitter with 740 tweets published, generating 350,000 views and 14,000 clicks or retweets 4,200 followers on LinkedIn with 363 posts generating 250,000 views, 5,500 clicks and 3,000 comments <p>GESDA Best Reads: 31 editions in 2022 and 500 subscribers</p> <p>Radar digital platform reached 15,000 new users in 2022</p> <p>In 2022, GESDA was cited and promoted by key stakeholders:</p> <ul style="list-style-type: none"> November's "UK Parliament Note" outlines GESDA's work on science diplomacy At the 2022 Summit, Singapore's Ministry of Foreign Affairs issued an official press release including the transcript of Foreign Minister Dr Vivian Balakrishnan Health Policy Watch dedicated an in-depth article to dengue viral research that highlights GESDA alongside WHO. <p>The increasing participation at the summit, growing number of contributing scientists to the Radar, and the active interest in the OQI and Curriculum all underline a positive trend and growing interest in GESDA and its activities.</p>	<p>12,475 followers on communication channels, including:</p> <ul style="list-style-type: none"> 5,102 followers on Twitter (X) (13.4 % growth compared to 2022) 7,373 followers on LinkedIn (75.5 % growth compared to 2022) <p>Launch of GESDA NEWS: 8 highly engaging newsletter editions in 2023 with a readership of more than 2,500 subscribers reflecting an extremely high open rate above 60 %.</p> <p>GESDA Science Breakthrough Radar® digital platform reaches 20,246 followers in 2023</p> <p>In 2023, GESDA cited and promoted by key stakeholders:</p> <ul style="list-style-type: none"> PASQAL will support GESDA's activities related to the Open Quantum Institute. PASQAL is a quantum company co-founded by Alain Aspect, winner of the 2022 Nobel Prize in Physics. The New York University Abu Dhabi signed an MoU with GESDA during the 11th edition of the NYUAD Hackathon for Social Good in the Arab World, May 2, 2023 Sarah Al Amiri, Minister of State for Public Education and Advanced Technology and Chairwoman of Emirates Schools Establishment, led a UAE delegation to the Geneva Science and Diplomacy Anticipation Summit (GESDA), which took place from 11th-13th October, Emirates News Agency (WAM) October 18. Sarah Al-Amiri cited by the Handelszeitung, Oct. 19: I am here because the Swiss Foreign Minister invited me and because the connection between science and diplomacy is something we that we in the United Arab Emirates, believe in very strongly. "...The Swiss Confederation has created original and important new instruments with the creation of the Geneva Internet Platform and GESDA."
	<p>1 press conference 12 October 2022 6 press releases</p>	<p>1 press conference 13 October 2023 8 press releases</p>
		GESDA has advanced the design of an Anticipation Gateway that can serve as a unique public entry point to its work. The first installation to demonstrate this concept will be included in the Swiss Pavilion at World Expo 2025 in Osaka, Japan.
Benefits for the Founders	Reinforce and amplify International Geneva's position and visibility as a thought leader in anticipatory science diplomacy	

Outlook of GESDA's Meetings with Diplomacy Community Stakeholders in 2023

10/01/23	Meeting with United Nations University Centre for Policy Research (UNU-CPR)
11/01/23	Meeting with International Development Research Center (IDRC)
12/01/23	Meeting with the Digital Health Technology Unit at World Health Organisation (WHO)
13/01/23	Meeting with AVINA - Foundation for the Food of Tomorrow
18/01/23	Meeting with the United Nations Secretary-General Office (UNSG) and the United Nations (UN) Futures Lab
25/01/23	Meeting with the International Telecommunications Union (ITU)
26/01/23	Meeting with the Center for Open Science (COS, OSF)
03/02/23	Meeting with the Diplomatic Expert Engagement Group (DEEG) for the Open Quantum Institute (OQI)
07/02/23	Meeting with the International Telecommunications Union (ITU)
08/02/23	Meeting with the Permanent Mission of Slovakia
09/02/23	Meeting with a Delegation from the Center for Open Science (COS, OSF)
14/02/23	Meeting with the Permanent Mission of Italy
27/02/23	Meeting with the Embassy of Colombia in Bern, Ministry of Science, Technology & Innovation
28/02/23	Meeting with the Inter-Parliamentary Union (IPU)
28/02/23	Meeting with the U.N President of the General Assembly
28/02/23	Meeting with the Permanent Mission of Liechtenstein, Ministry of Foreign Affairs
01/03/23	Meeting with the United Nations Conference on Trade & Development (UNCTAD)
01/03/23	Meeting with the High-Level Advisory Board on Effective Multilateralism at Graduate Institute of International and Development Studies (IHEID)
02/03/23	Meeting with the Biological Weapons Convention (BWC)
03/03/23	Meeting with the University for Peace (UPEACE)
03/03/23	Meeting with the International Standards Organisation (ISO)
03/03/23	Meeting with the United Nation's SDG Lab
06/03/23	Meeting with a Delegation of the EPFL Center for Quantum Science and Engineering
07/03/23	Meeting with a Delegation of Mexico and the Mexican Physics Society
07/03/23	Meeting with IBM Research Europe
09/03/23	Meeting with the Permanent Mission of Sierra Leone
09/03/23	Meeting with a Delegation of the Permanent Mission of China
14/03/23	Meeting with the Food and Agriculture Organisation (FAO)
14/03/23	WSIS High Level Political Segment with participation of GESDA Diplomacy Forum chair Alexandre Fasel
15/03/23	Meeting with the United Nations Development Programme (UNDP)
15/03/23	Meeting with the Biological Weapons Convention (BWC)
16/03/23	Meeting with the Ministry of Digital Transformation of Slovenia
16/03/23	WSIS GESDA session on Quantum Tech and the Open Quantum Institute (OQI)
27/03/23	Meeting with the U.K. Government
28/03/23	Meeting with the Director General of the World Intellectual Property Organisation (WIPO)
29/03/23	Meeting with the Dubai Futures Foundation
29/03/23	Meeting with a Delegation of the United Nations System Staff College
30/03/23	Meeting with the Swiss Ambassador Head of Host State Division
04/04/23	Meeting with the U.S. Permanent Mission

05/04/23	Workshop on the Future of Peace and War
06/04/23	Workshop on the Future of Peace and War
12/04/23	Meeting with the Embassy of Switzerland in Paris
13/04/23	Meeting with the Permanent Mission of Slovenia
27/04/23	Workshop on the UNSG New Agenda for Peace (NA4P)
28/04/23	Workshop on the UNSG New Agenda for Peace (NA4P)
03/05/23	Meeting with the Center for Open Science (COS, OSF)
04/05/23	Meeting with the Editor of Nature Magazine
08/05/23	Meeting with a Delegation of the United Nations Office for Disaster Risk Reduction (UNDRR)
08-12/05/23	Meetings at the Geneva Science Diplomacy Week 2023
16/05/23	Meeting with the Vice President Global of the World Wildlife Fund (WWF)
16/05/23	Meeting with the Foreign Ministries Science & Technology Advice Network (FMSTAN)
17/05/23	Meeting with the Permanent Mission of Finland
19/05/23	Meeting with the High Commissioner for Human Rights
21/05/23	Meeting with the Permanent Mission of Kenya
22/05/23	Meeting with the Ministry of Foreign Affairs of Mexico
24/05/23	Meeting with the World Trade Organisation (WTO)
24/05/23	Future of Multilateralism Workshop at the Graduate Institute
26/05/23	Meeting with Permanent Mission of Brazil
30/05/23	Meeting with the Joint Institute for Nuclear Research (JINR)
30/05/23	Meeting with the Permanent Mission of Czech Republic
31/05/23	Meeting with the World Wildlife Fund (WWF) U.S.
01/06/23	Meeting with the Permanent Mission of Iran
01/06/23	Meeting with the Permanent Mission of Slovenia
05/06/23	Meeting with a Delegation of the UNSG Office
06/06/23	Geneva Academy-NeuroTech and Human Rights event
06/06/23	Meeting with the Permanent Mission of India
07/06/23	Meeting with the Permanent Mission of Kenya
08/06/23	Meeting with the Permanent Mission of Brazil
13/06/23	Meeting with a Delegation of the Office of the High Commissioner for Human Rights (OHCHR)
14/06/23	Meeting with Wellcome in London
19/06/23	Meeting with the Permanent Mission of Egypt
20/06/23	Meeting with the Permanent Mission of Brazil
21/06/23	Meeting with the Permanent Mission of the United Kingdom
27/06/23	Meeting with a Delegation from the UN Futures Lab
28/06/23	Meeting with the Arms Trade Treaty
30/06/23	Meeting with representatives from United Nation's international organisations at the UN Summer Academy Trend Talk UNSSC
04/07/23	Meeting with the Permanent Mission of Spain
04/07/23	Meeting with the UN Habitat Deputy Director

11/07/23	Meeting with the Permanent Mission of Egypt
13/07/23	Meeting with the Biological Weapons Convention (BWC) Implementation Support Unit
18/07/23	Meeting with the Embassy of Chile in Bern
28/07/23	Meeting with the Permanent Mission of Ethiopia
28/07/23	Meeting with the Governance and Policy Think Tank (GPTT), University of Tehran
08/08/23	Meeting with UN Youth for Biosecurity Fellowship
08/08/23	Meeting with the Permanent Mission of Argentina
10/08/23	Meeting with the Permanent Mission of Mexico
11/08/23	Meeting with the UN Futures Lab
14/08/23	Meeting with the Biological Weapons Convention (BWC) Working Group
14/08/23	Meeting with the Permanent Mission of Chile
16/08/23	Meeting with the UN Office for Disarmament Affairs (UNODA)
23/08/23	Meeting with a Delegation from the Principles for Peace (P4P) Foundation
30/08/23	Meeting with UNODA Disarmament Fellows
30/08/23	Meeting with the UN University for Peace (UPEACE)
31/08/23	Meeting with the Diplomatic Expert Engagement Group (DEEG) for the Open Quantum Institute (OQI)
31/08/23	Meeting with the Ministry of Foreign Affairs of UAE
01/09/23	Meeting with the United Nations Alliance of Civilizations (UNAOC)
01/09/23	Meeting with the International Telecommunications Union (ITU)
05/09/23	Meeting with a Delegation from the U.K. Department for Science, Innovation and Technology
05/09/23	Meeting with the Principles for Peace (P4P) Foundation
12/09/23	Meeting with the Simon Institute for Longterm Governance (SI)
13/09/23	Meeting with the International Science Council (ICS)
14/09/23	Meeting with Saudi Arabia cohort of diplomats and governmental officials
15/09/23	Meeting with a Delegation from the Lab for Science in Diplomacy (SiDLab) by the University of Geneva (UNIGE) and the ETH Zürich (ETHZ)
18/09/23	Meeting with the UN University for Peace (UPEACE)
19/09/23	Diplomatic Dinner on the OQI at the Residence of Mexico with 13 ambassadors
20/09/23	Meeting with the Permanent Mission of Peru
22/09/23	Meeting with the Permanent Mission of Switzerland
25/09/23	Meeting with the United Nations Office for Disaster Risk Reduction (UNDDR)
26/09/23	Meeting with the Permanent Mission of Germany
28/09/23	Meeting with the Permanent Mission of the USA
13/10/23	Meeting with the Council for Innovation, Science & Technology (CONICYT)

19/10/23	Meeting with the Permanent Mission of India
20/10/23	Meeting with the University of the United Nations
24/10/23	Meeting with the Permanent Mission of the Holy See
26/10/23	Meeting with the Permanent Mission of Mexico
02/11/23	Meeting with the Permanent Mission of Switzerland
03/11/23	Meeting with the Council for Innovation, Science & Technology (CONICYT)
06/11/23	Meeting with the Permanent Mission of Rwanda
06/11/23	Meeting with the Permanent Mission of Switzerland
07/11/23	Meeting with the Permanent Mission of El Salvador
08/11/23	Meeting with the Permanent Mission of Kenya
13/11/23	Meeting with the Permanent Missions attending the Convention on Certain Conventional Weapons (CCW)
14/11/23	Meeting with a Delegation of young diplomats from the Konrad Adenauer Stiftung (KAS)
15/11/23	Meeting with the Permanent Mission of Brazil
15/11/23	Meeting with the U.S. State Department
17/11/23	Meeting with the Permanent Mission of Brazil
21/11/23	Meeting with the Permanent Mission of Namibia
22/11/23	Meeting with the Ministry of Foreign Affairs of UAE
23/11/23	Meeting with the Biological Weapons Convention (BWC) Implementation Support Unit Head
24/11/23	Meeting with a Delegation from the Swiss Federal Department of Foreign Affairs (FDFA) in Bern
24/11/23	Meeting with the Swiss FDFA's Head of the Digitalisation Division
24/11/23	Meeting with the Swiss FDFA's State Secretary
30/11/23	Meetings at the UN Office for Disarmament Affairs (UNODA) Quantum Day
04/12/23	Meeting with the Technology and Global Affairs Innovation Hub at Science Po
05/12/23	Meeting with the Swiss Delegation to BWC
06/12/23	Meeting with United Nations Institute for Disarmament Research (UNIDIR) Quantum
07/12/23	Meeting with the Diplo Foundation
12/12/23	Meeting with UNDP Deputy Administrator
12/12/23	Meeting with WHO Chief Scientist
14/12/23	Meeting with Chilean Secretary General for Foreign Affairs
15/02/23	CERN event call for action for young academics
18-19/12/2023	EU Science Diplomacy Conference
21/12/23	Meeting with Permanent Mission of Hungary

GESDA is scaling up its digital approach

12,475 followers on Social Media
(As of Dec. 2023, 43.4 % increase to 2022)
• 7,373 LinkedIn
• 5,102 Twitter (X)



INCREASE REGULARITY
Implementation of weekly editorial planning

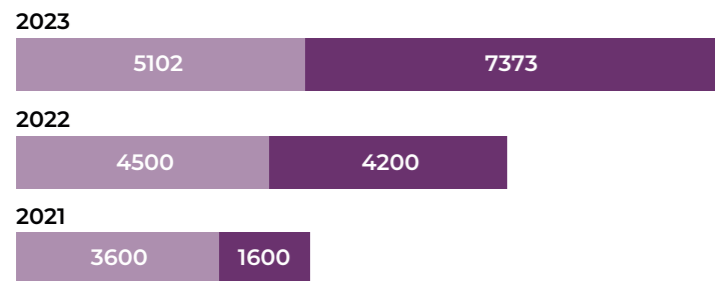


INCREASE TRUST by sharing timely information.
Implementing new information-sharing guidelines internally



INCREASE REPUTATION by building partnerships and trust with actors from GESDA's ecosystem. Approaching targeted social media accounts

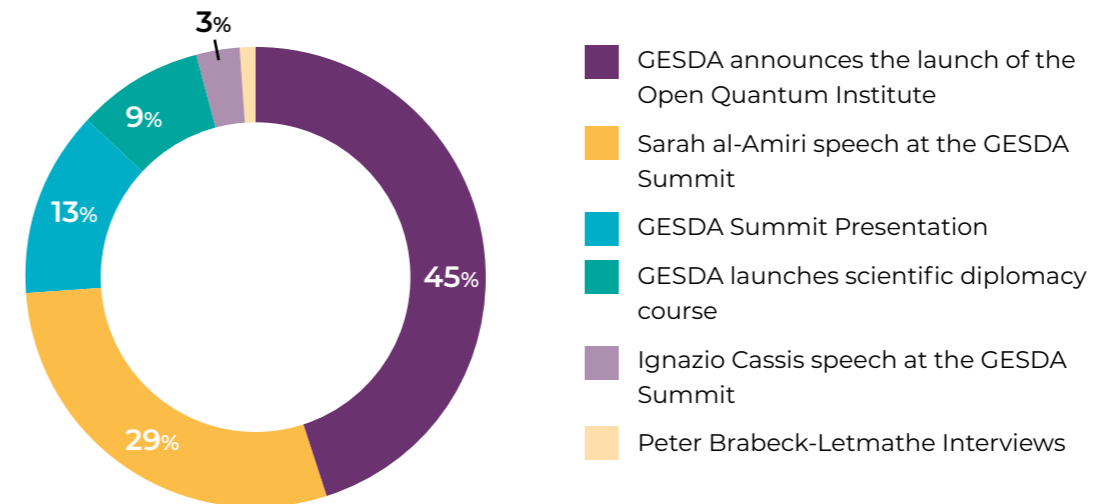
GESDA Science Breakthrough Radar® digital platform Reaches 38,000 readers in total, with 20,246 new followers in 2023



Impact in the global media sphere

With its announcement of financial support and backing for two concrete GESDA initiatives, the 2023 Summit drew significant media attention across multiple platforms and featured 114 original articles, the highest proportion yet compared with the two previous summits in 2022 and 2021.

GESDA media analysis – Summit 2023



Top articles:

- **SDA - Quantum technology should serve the common good**
The article authored by SDA covers Swiss Federal Minister and Federal Councilor Ignazio Cassis announcement of the launch of the Open Quantum Institute at the GESDA Science Diplomacy Summit, garnering attention from 12 additional sources.
- **WAM News Agency - Sarah Al Amiri leads UAE delegation to Switzerland**
Sarah al-Amiri's involvement in the GESDA Summit attracted significant media attention, primarily due to the extensive coverage of the WAM story, which was featured in 43 other sources; mainly Indian.
- **Swissinfo - Technology governance: can GESDA put Geneva on the map?**
Prominent Swiss media have featured several stories about the Summit, emphasising Switzerland's commitment to leveraging science diplomacy in its pursuit to establish Geneva as a pivotal center for technology governance.
- **ATS - GESDA launches a science diplomacy course and expands**
Multiple articles reported on GESDA's recent initiatives to introduce a worldwide scientific diplomacy program. The foundation, backed by Switzerland, is also broadening its board by welcoming former Italian Prime Minister Enrico Letta and former UNICEF Executive Director Henrietta Fore.
- **SDA – Swiss Foreign Minister Ignazio Cassis speaks at the GESDA Summit**
The media highlighted Swiss Foreign Minister and Federal Councilor Ignazio Cassis's participation in GESDA's third Summit, where he engaged in political discussions centered on science diplomacy, with a particular focus on global governance in the field of quantum information technology. He also provided commentaries on the current situation in the Middle East.
- **Corriere del Ticino - Peter Brabeck-Letmathe: «Scientific diplomacy at the service of peace»**
In an exclusive interview with Corriere del Ticino, GESDA President Peter Brabeck-Letmathe reflected on the conclusion of the GESDA summit, highlighting the significance of launching the Open Quantum Institute in Geneva as a pivotal moment. He underscored GESDA's effectiveness and its ability to swiftly implement ambitious projects with enduring impact.

An original monthly newsletter starts in April 2023

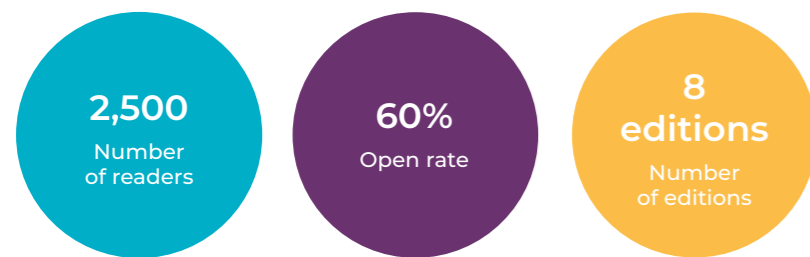
GESDA launched the GESDA News monthly newsletter, quickly gaining nearly 2,500 regular readers and offering valuable insights on GESDA's activities and audience. Produced with original, timely reporting and information on the latest events, the newsletter reached an open rate of more than 60% and connected with audiences on six continents, particularly in the United States, Switzerland, the United Kingdom and the rest of Europe. A Nov. 2023 issue, for example, offered original GESDA interviews with Board Member Mamokgethi Phakeng and young professionals from Africa at the Summit, showing how GESDA is creatively engaging citizens and youth in anticipatory science and diplomacy.

GESDA News – 2023 Trends

The September and October editions were the most widely read in 2023. In September, for example, it was read:

- In the U.S. by **2,288 people** (65.2%)
- In the UK by **442 people** (12.6%)
- In Switzerland by **435 people** (12.4%)

These three countries, plus France and Germany, had the top readerships for GESDA News newsletters in 2023. In the first four editions, Switzerland ranked second, ahead of the UK.



Anticipating the future of peace and war
Many academics from a broad variety of fields have indicated we are at an inflection point in history. Three organizations - GESDA, Geneva Center for Security Policy (GCSP) and School of International and Public Affairs (SIPA) at Columbia University - have joined forces to anticipate what this may mean for the future of peace and war.

During a first workshop that will take place on April 5th and 6th in Geneva, researchers will come together to attempt to develop the methodological frameworks and tools to better identify relevant trends and countertrends that shape the future of peace and war.



How Business Can Contribute to Decarbonization

As the world gears up for its annual UN-brokered climate summit at the end of the year, typically an exercise in raising hope and action that is met with an overall less-than-adequate level of government ambition among the world's biggest carbon-emitting economies, the important role that businesses can play in tackling the climate crisis rises to the forefront. Decarbonizing business models and reaching net zero emissions has long been a focus of GESDA.



Beyond the Think Tank: Engaging Citizens to Spur Actions and Debates

For Tihokomelo Mogotsi, a water resources engineer in South Africa, climate change's effects on water availability is the primary issue he's working on. Molecular biologist Kalonji Abundance Tshisekedi, who is finishing his Ph.D. in Johannesburg, is using his training and research in microbial community interactions to improve public health and well-being.

They were among the young people interested in learning more about how to turn the advances covered in the GESDA Science Breakthrough Radar into positive actions that can reshape our world and fulfill the UN's 17 Sustainable Development Goals for 2030.

Their paths also illustrate how GESDA's Citizens Forum is bringing a sharper focus on ways of creatively engaging more people in science and diplomacy, particularly through the spread of youth anticipation in Africa.



Even the Robots Support AI Regulation

Between hopes and fears, the debate on artificial intelligence has generated mixed reactions in the political world. Governments and lawmakers, a little late as is the case with every technological breakthrough, are trying to jump on the bandwagon and seek legislative solutions that reduce the negative effects without muzzling research. Here's a first state of play on the issue, along with other articles on themes that GESDA's work has touched on and highlighted.

The study from our partner *Fondation pour Genève*



Foreword

"The Fondation pour Genève works to promote Geneva's influence, attractiveness, and openness to the world, in particular by supporting the action of the Federal, Cantonal and Municipal authorities. This implies the development and support of multilateral institutions that contribute to a better global governance.

If many labor, health, trade, climate or intellectual property global matters, peace negotiations and humanitarian affairs are today addressed in Geneva, we owe it to deeply anchored institutions that chose to settle here, sometimes more than a century ago.

The role of our Foundation is also to clear new paths. This study takes stock of recent initiatives in the field of science diplomacy to provide a better understanding of this discipline, that is gaining significant traction globally.

With the establishment of GESDA, supported by our Federal and Cantonal authorities and the support of our Foundation, Switzerland was right. It anticipated, before others, that in upcoming years, certain scientific advances will be questioned and raise new global governance challenges.

Today, these developments are on the verge of turning the world's organization upside down and of reshuffling the cards. Very soon, we will need to rethink international relations, as it has already been the case in Geneva, leading to the creation of CERN 70 years ago, thus positioning our region as the global hub for research in particle physics.

Our Foundation entrusted this study to Sarah Sermondadaz, a renowned science journalist and engineer who brilliantly carried it out. The aim was not only to map the political and academic interactions that are taking place in Geneva around scientific challenges, but beyond, to explore ways for Geneva to renew its international network. I would like to thank her, as this work is, to our knowledge, the most comprehensive study ever written on the subject".

— Marc Pictet, President of the Fondation pour Genève



6.1. Governance

Governance Structure

The Geneva Science Diplomacy Anticipator (GESDA) Foundation is an independent, private, not-for-profit foundation governed by Swiss law with its headquarters in Geneva.

GESDA was jointly founded by the Swiss and Geneva cantonal governments in close collaboration with the City of Geneva.

Initially established in September 2019 for a pilot phase of three years, the Foundation's statutes were amended on April 22 2022 by the Board of Directors to extend its operations for 10 years (Sept. 2022 to Sept. 2032). The amended Statutes were approved by the Swiss Federal Authority Supervising Foundations on Aug. 26 2022.



The Foundation is governed by the **Foundation's Board of Directors** (BoD), which serves as its top decision-making body.

- The BoD is chaired by a President (Chairman) and Vice-President (Vice-Chairman), both of whom are appointed by mutual agreement between the founders.
- At least one member is appointed by the Swiss Foreign Minister with a formal decision of the Swiss government.
- At least one member is appointed by the Geneva cantonal government with the City of Geneva.
- The Secretary General is a member of the Board of Directors.

The Foundation Board is supported in its work by the **General Secretariat of the Board**.

The Foundation Board can delegate the daily supervision of the Foundation's affairs to a Board Committee: The **Chairman's Committee**, which consists of the Chairman and Vice-Chairman of the Foundation Board, the Secretary General, the chairs of the Fora, and the Chief Executive Officer.

The Board and the CEO are supported and advised by the **Fora** and thematic expert groups. The Fora are generally chaired by a member of the Board. There are four fora: **Academic, Diplomatic, Impact and Citizens**.

The Foundation Board has appointed an **Executive Team**, under the leadership of the **Chief Executive Officer**. The Executive Team implements the strategy and ensures GESDA's global operation.

Task Forces for Solution Ideas and Advisory Board to the GESDA Science Breakthrough Radar®

As GESDA rolls out its design and incubation of **solution ideas**, it sets up **Expert Task Forces** and **Advisory Committees** to implement them.

A small group of scientists constitute the **Advisory Board to the Radar** and supports the integration of the scientific content into the Radar.

Working groups can also provide expertise and guidance to the Board and Executive Team. The fora, advisory board and task forces are critical components of GESDA's governance but are not decision-making bodies from a statutory perspective.

2023 from a governance perspective

Major milestones

10 February	Chairman's Committee Meeting
21 April	Board Meeting
20 June	Chairman's Committee Meeting
10-11 October	Board Meeting
8 December	Chairman's Committee Meeting

First year of GESDA's scale-up phase completed

From a governance and operations perspective, 2023 was pivotal in setting up GESDA for the scale-up phase. Many changes have already been implemented. GESDA's structure and organisation, however, will keep evolving with its strategy over the next decade.

GESDA Foundation Board of Directors as of the end of 2023



Peter Brabeck-Letmathe
Chairman, appointed by the Swiss Federal Council. Vice Chairman of the Board of Trustees of the World Economic Forum (WEF); Chairman Emeritus of Nestlé SA.



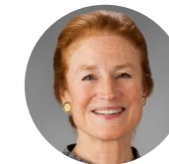
Patrick Aebischer
Vice Chairman, appointed by the Swiss Federal Council. Professor of Neuroscience; former President of the Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland.



Micheline Calmy-Rey
Professor at the Global Studies Institute (GSI) at the University of Geneva, Switzerland. Former President of the Swiss Confederation and former Swiss Minister of Foreign Affairs. Designated by the Geneva authorities.



Stéphane Decoutère
Secretary General of the Board of Directors.



Henrietta H. Fore
Former Chair/CEO of Holsman International, Former Executive Director of UNICEF, Former Administrator of USAID.



Michael Hengartner
President of the Board of the Swiss Federal Institutes of Technology (ETH Board) Zurich/Bern. Designated by the Swiss Minister of Foreign Affairs.



Enrico Letta
President of the Jacques Delors Institute in Paris, Former Prime Minister of Italy.



Michael Møller
Former Director General of the UN Office in Geneva and former Under-Secretary-General of the United Nations.



Cheryl Moore
Chief Research Programmes Officer for the Wellcome.



Mamokgethi Phakeng
Former Vice Chancellor (President) of the University of Cape Town, South Africa and Professor of Mathematics Education.



Chorh Chuan Tan
Singapore's Chief Health Scientist. Former President of the National University of Singapore (NUS) and of the World Economic Forum's Global University Leaders Forum (GULF).

GESDA Fora and their Chairs

Academic Forum

Diplomacy Forum

Impact Forum

Citizen Forum

Chair



Michael Hengartner
President of the Board of the Swiss Federal Institutes of Technology (ETH Board) Zurich/ Bern.



Alexandre Fasel
[until 10.10.2023]
Swiss State Secretary for Foreign Affairs.



Patrick Aebischer
Professor of Neuroscience; former President of the Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland.



Mamokgethi Phakeng
Former Vice Chancellor (President) of the University of Cape Town, South Africa and Professor of Mathematics Education.



Enrico Letta
[since 10.10.2023]
President of the Jacques Delors Institute in Paris; Former Prime Minister of Italy.

Advisory Board to the GESDA Science Breakthrough Radar®



Sir Peter Gluckman
Chair of the International Network of Government Science Advice (INGSA) and president of the International Science Council (ISC).



Michael Hengartner
President of the Board of the Swiss Federal Institutes of Technology (ETH Board) Zurich/ Bern.



Michel Mayor
Representative of the Fondation pour Genève, Professor Emeritus and 2019 Physics Nobel Prize Laureate University of Geneva.



Marie-Laure Salles
Director of the Graduate Institute of International and Development Studies.



Michael Schaepman
President, University of Zurich.

GESDA TEAM, as of end of 2023

By end of 2023, the team consisted of 18 members.



Sandro Giuliani
Chief Executive Officer (CEO)



Esther Cappelli
Communication Manager



Jean-Marc Crevoisier
Director, Communications and Marketing



Gerard Escher
Senior Advisor



Claudia Freymond
Advisor for the Solution Accelerator



Florent Gaillard
Board and Program Manager



Sophie Gilbert
Program Lead, Science Breakthrough Radar



Marga Gual-Soler
Head of Science Diplomacy Capacity Building



Alice Hazelton
Head of Summit



Marieke Hood
Executive Director Impact Translator



Catherine Lefebvre
Senior Advisor for the Open Quantum Institute



Marie Sophie Müller
Program Lead, Solution Accelerator



Martin Müller
Executive Director Science Anticipator



Maricela Muñoz
Director, Strategic Partnerships



Daria Robinson
Executive Director Solution Accelerator and Deputy of CEO



Markus Schilter
Project Manager



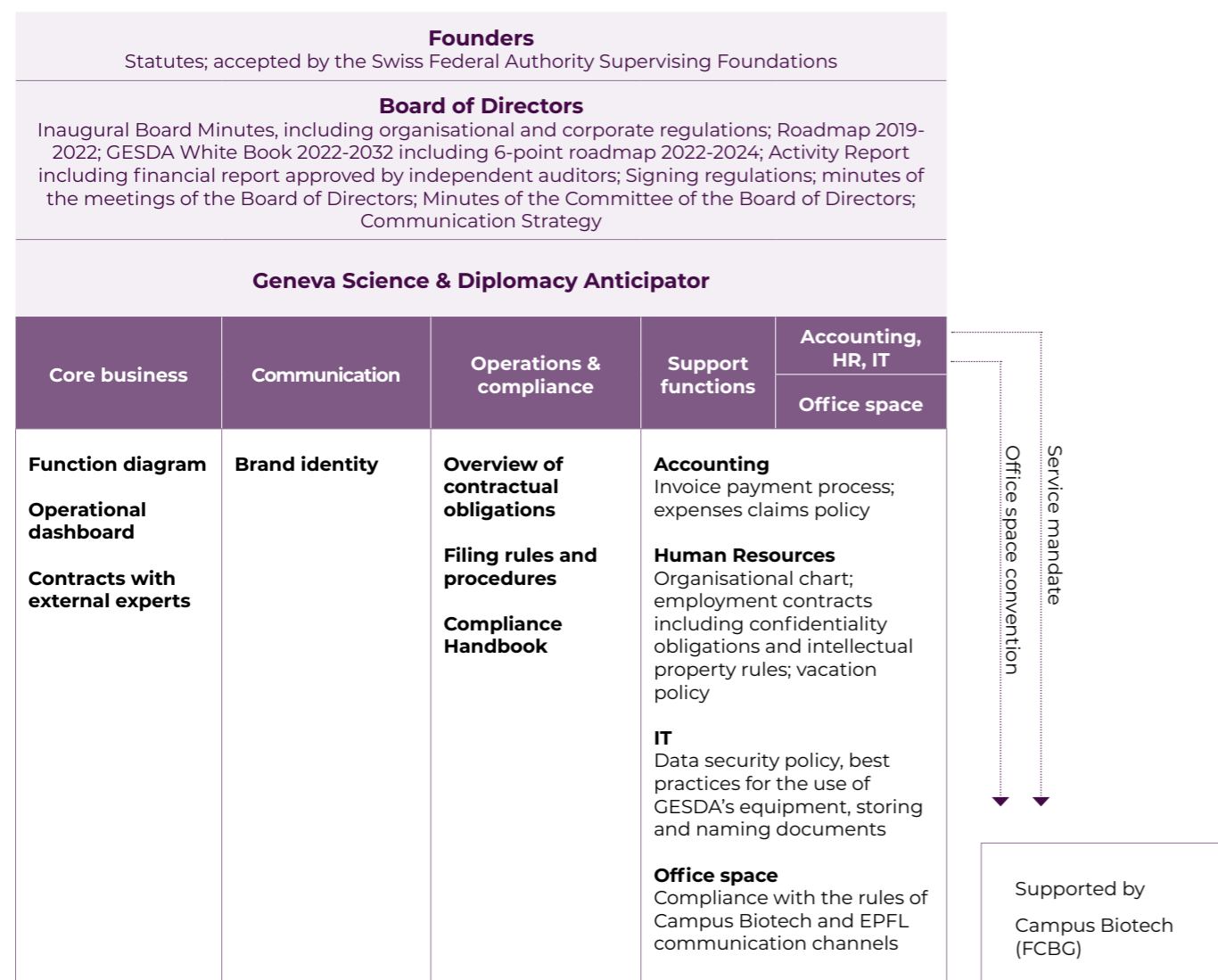
Marianne T. Schörling
Senior Program Manager



Agota Seguin
Head of Operations

6.2. Compliance

The GESDA Foundation is aligned with the highest standards of compliance. GESDA has a solid internal control system in place to ensure accurate monitoring of operations, progress towards objectives, and a secure framework for activities. GESDA's Board of Directors approved at its Board Meeting on Oct. 11 2023 an updated version of GESDA's Compliance Handbook based on its new statutes (August 2022) and its new internal organizational and corporate regulations (May 2023).



6.3. Finance

GESDA's Board of Directors approved the budget for 2023 at its Board Meeting on Oct. 12 2022.

The income and expenditures have been recorded in the financial report 2023 based on the following principle: A grant is recognised as income for GESDA per annual allocation defined in the contractual document framing the relationship. If not specified, GESDA will recognise the committed amount of the grant in the year of signature of the contractual document respectively confirmation of the grant. The same principle is applied for GESDA contributions to third party projects.

Together with the annual result carried forward from 2022, GESDA ends the year 2023 with a total equity of CHF 480'422.

2023 Audited results

Financial Results 2023	Result 2022(1)	Result 2023	Budget 2023(2)	Var 2023 vs Budget
	Jan 22 - Dec 22 12 months	Jan 23 - Dec 23 12 months	Jan 23 - Dec 23 12 months	Jan 23 - Dec 23 12 months
Core Expenses	5,344,724	7,076,696	9,400,000	-2,323,304
Operations	2,947,668	4,773,750	6,600,000	-1,826,250
Personnel Costs	2,483,149	4,045,726	5,700,000	-1,654,274
<i>Indemnities Board of Directors</i>	111,572	117,194	100,000	17,194
<i>Salaries and Other Employment Costs</i>	2,371,577	3,928,531	5,600,000	-1,671,469
Communication	209,303	225,722	350,000	-124,278
Infrastructure and expenses	255,216	502,303	550,000	-47,698
Products	2,397,057	2,302,946	2,800,000	-497,054
GESDA Science Breakthrough Radar®	809,730	661,635	700,000	-38,365
Geneva Science and Diplomacy Anticipation Summit	1,165,238	1,290,872	1,200,000	90,872
Digital interactive Global Sounding Board	139,115	207,362	200,000	7,362
GESDA Science and Diplomacy Solution Accelerator*	282,974	143,077	500,000	-356,923
GESDA Impact Translator	0	0	200,000	200,000
Core Income	5,808,620	3,630,500	11,000,000	-7,369,500
Core Funding	5,808,620	3,580,500	9,000,000	-5,419,500
Public	4,800,000	400,000	3,500,000	-3,100,000
1 - Swiss Confederation	4,600,000	0		0
2 - Geneva Guangzhou	100,000	300,000		300,000
3 - Geneva City	100,000	100,000		100,000
Private/Philanthropy	1,008,620	3,180,500	5,500,000	-2,319,500
Product Funding	0	50,000	2,000,000	-1,950,000
GESDA Science Breakthrough Radar®	0	50,000	1,000,000	-950,000
Geneva Science and Diplomacy Anticipation Summit	0	0	1,000,000	-1,000,000
Core Result	463,896	-3,446,196	1,600,000	-5,046,196
Impact expenses	587,492	585,755	1,500,000	-914,245
Solutions **	322,977	574,133	1,000,000	-425,867
Open Quantum Institute	0	388,665	500,000	-111,335
Global Curriculum for Science and Diplomacy	322,977	185,467	500,000	-314,533
Initiatives **	264,515	11,622	500,000	-488,378
GESDA-XPRISE Quantum Contest	250,000	0	20,000,000	-20,000,000
Anticipation Gateway / Youth Anticipation Initiative	0	0	100,000	-100,000
Human Rights to Science	14,515	11,622	200,000	-188,378
New Initiatives	0	0	200,000	-200,000
Impact income **	400,479	2,071,106	1,500,000	571,106
Solutions	250,000	2,068,106	1,000,000	1,068,106
Open Quantum Institute	0	1,093,106	500,000	593,106
Global Curriculum for Science and Diplomacy	250,000	975,000	500,000	475,000
Initiatives ***	150,479	3,000	500,000	-497,000
GESDA-XPRISE Quantum Contest	150,479	0	20,000,000	-20,000,000
Anticipation Gateway / Anticipation Initiative	0	0	100,000	-100,000
Human Rights to Science / Manifesto	0	3,000	200,000	-197,000
New Initiatives	0	0	200,000	-200,000
Impact Result	-187,013	1,485,352	0	1,485,352
Operational Result	276,883	-1,960,844	1,600,000	-3,560,844
Investments	13,604	15,002		
Depreciation	-4,494	-8,586		
Annual result	285,992	-1,954,427		
Share capital	50,000	50,000		
Result carried forward	2,098,857	2,384,850		
Annual result	285,992	-1,954,427		
Total equity	2,434,850	480,422		

(1) New presentation according to the financial plan 2023-2027 presentation

(2) Budget not audited

*includes pipeline (NeuroTech, Decarbonisation & Others)

** to populate on a rolling basis according to pipeline activity and Impact Fund availability

*** indicated for purposes of funding need but likely not going through GESDA accounts

2023 Balance Sheet

Assets		31/12/23	31/12/22
Current assets	Cash and cash equivalents	1,936,021.07	2,615,155.80
	Prepaid expenses	111,502.60	30,352.49
	Short-term receivables	1,266,839.40	3,000,000.00
	Total current assets	3,314,363.07	5,645,508.29
Non-current assets	Long-term receivables	1,107,067.00	0.00
	Total non-current assets	1,107,067.00	0.00
Fixed assets	Tangible assets	24,257.34	17,840.64
	Total fixed assets	24,257.34	17,840.64
Total assets		4,445,687.41	5,663,348.93

Liabilities and equity		31/12/23	31/12/22
Current liabilities	Short-term payables	811,509.63	150,471.91
	Accrued liabilities	153,755.95	78,027.90
	Loan	3,000,000.00	3,000,000.00
	Total Current Liabilities	3,965,265.58	3,228,499.81
Equity	Capital	50,000.00	50,000.00
	Results carried forward	2,384,849.12	2,098,857.24
	Profit/(Loss) for the period	-1,954,427.29	285,991.88
	Total equity	480,421.83	2,434,849.12
Total liabilities		4,445,687.41	5,663,348.93

2023 Profit and loss statement

		2023	2022
Income	Contributions of public entities	400,000.00	4,800,000.00
	Philanthropic donations	5,298,606.40	1,409,098.55
	Other income	3,000.00	0.00
	Total income	5,701,606.40	6,209,098.55
Expenses	GESDA Science Breakthrough Radar®	661,635.06	809,729.77
	Geneva Science and Diplomacy Anticipation Summit	1,290,872.30	1,165,237.51
	Science and Diplomacy Solution Accelerator	207,361.58	282,974.09
	Digital interactive Global Sounding Board	143,076.97	139,115.22
	Open Quantum Institute	388,665.22	0.00
	Global Curriculum for Science and Diplomacy	185,467.30	322,977.10
	GESDA-XPRIZE Quantum Contest	0.00	250,000.00
	Human Rights to Science	11,622.30	14,514.99
	<i>Project-related expenses</i>	<i>2,888,700.73</i>	<i>2,984,548.68</i>
	Personnel costs	4,045,725.51	2,483,149.07
	Communication	225,721.65	209,302.72
	Other infrastructure expenses	430,313.13	249,852.93
	Total expenses	7,590,461.02	5,926,853.40
	Earnings before depreciation		-1,888,854.62
Depreciation		8,585.70	4,494.25
Earnings after depreciation		-1,897,440.32	277,750.90
Financial expenses		-2,663.06	-3917.42
Financial products		10,438.43	0.00
Interest on loan		-77,029.09	-31,875.00
Financial result		-69,253.72	-35,792.42
Other exceptional income and expenses		12,266.75	44,033.40
Profit/(Loss) for the period		-1,954,427.29	285,991.88

2023 Cash-flow statement

	2023	2022
Profit/(Loss) for the period	-1,954,427.29	285,991.88
Depreciation	8,585.70	4,494.25
Working capital	-1,945,841.59	290,486.13
Variations of current assets	1,652,010.49	-2,065,683.34
Variations of liabilities	736,765.77	33,723.23
Change in net operating assets	2,388,776.26	-2,031,960.11
Cash flow from operating activities	442,934.67	-1,741,473.98
Variations of non-current assets	-1,107,067.00	0.00
Investments	-15,002.40	-13,604.00
Cash flow from investing activities	-1,122,069.40	-13,604.00
Variations in loans	0.00	3,000,000.00
Cash flow from financing activities	0.00	3,000,000.00
Variations of cash and cash equivalent	-679,134.73	1,244,922.02
Cash and cash equivalents at the beginning of the period	2,615,155.80	1,370,233.78
Cash and cash equivalents at the end of the period	1,936,021.07	2,615,155.80

Auditor's report



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To the Board of Trustees of
Geneva Science and Diplomacy Anticipator (GESDA), Geneva

Geneva, 11 June 2024

Report of the statutory auditor on the limited statutory examination

As statutory auditor, we have examined the financial statements (balance sheet, profit and loss statement, cash flow statement and notes) of Geneva Science and Diplomacy Anticipator (GESDA) for the financial year ended 31 December 2023.

These financial statements are the responsibility of the Board of Trustees. Our responsibility is to perform a limited statutory examination on these financial statements. We confirm that we meet the licensing and independence requirements as stipulated by Swiss law.

We conducted our examination in accordance with the Swiss Standard on the limited statutory examination. This standard requires that we plan and perform a limited statutory examination to identify material misstatements in the financial statements. A limited statutory examination consists primarily of inquiries of company personnel and analytical procedures as well as detailed tests of company documents as considered necessary in the circumstances. However, the testing of operational processes and the internal control system, as well as inquiries and further testing procedures to detect fraud or other legal violations, are not within the scope of this examination.

Based on our limited statutory examination, nothing has come to our attention that causes us to believe that the financial statements do not comply with Swiss law and the deed of foundation.

Ernst & Young Ltd

 Alfred Widmann
(Qualified Signature)

Licensed audit expert
(Auditor in charge)

 Elodie Vuillaume
(Qualified Signature)

Licensed audit expert

Enclosure

- Financial statements (balance sheet, profit and loss statement, cash flow statement and notes)



**Geneva Science and Diplomacy Anticipator
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