

# SECURING THE FUTURE

2023 Impact Report



# TABLE OF CONTENTS



|  |    |
|--|----|
| Letter from the NTI Co-Chairs                  | 4  |
| New Guardrails for Emerging Tech               | 6  |
| New Solutions for a Changing World             | 8  |
| New Engagement with New Audiences              | 10 |
| A Year of Global Impact                        | 12 |
| New Traction for NTI's Vision                  | 14 |
| New Ideas from Next-Generation Problem Solvers | 16 |
| Thank you!                                     | 18 |
| NTI Leadership                                 | 20 |
| NTI Staff                                      | 22 |
| 2023 Financials                                | 23 |

Manga artist Gigi Murakami created a mural on the history and future of nuclear weapons for the 2023 #CranesForOurFuture campaign, pictured here in New York City.

# LETTER FROM THE NTI CO-CHAIRS

FEBRUARY 2024

This sample of NTI's impact on global threat reduction tells the story of 2023:

- A new NTI initiative to mitigate the nuclear and biosecurity risks posed by rapidly emerging technologies and artificial intelligence (AI)
- A *Global Playbook* to guide countries on how to adhere to strong nonproliferation and security standards as they rapidly expand nuclear power
- A new organization dedicated to preventing the potentially catastrophic consequences of misuse or abuse of advances in bioscience and biotechnology
- A Congressionally mandated Pentagon review of the safety, security, and reliability of nuclear weapons in the face of risks posed by modern technologies.

The year erupted with a new understanding of the mind-boggling growth in AI capabilities. Deeply concerned about AI-related risks at the intersection of nuclear and biosecurity, we began laying the foundation for a robust new NTI initiative to address them. As former Google CEO Eric Schmidt said in a live-streamed conversation with Ernie at NTI in early 2024, "There's a great deal of concern that we're now building tools which will accelerate the danger that's already present." Governments and industry must get ahead of these accelerating risks, and the new program we're building at NTI is designed to help them do just that.

In addition to advances in AI, 2023 saw continued rapid advances in bioscience and biotechnology, reinforcing the importance of establishing safe-



guards to prevent deliberate or accidental misuse with potentially devastating consequences. Our approach has been to build a new independent organization, the International Biosecurity and Biosafety Initiative for Science (IBBIS), to work with governments, industry, academia, the public health community, and philanthropists to ensure that bioscience can flourish, safely and responsibly. As we write this letter, Ernie and our colleagues have officially launched IBBIS at the 2024 Munich Security Conference.

The year also saw record-shattering heat, prompting two dozen countries to pledge to triple global nuclear energy capacity by 2050. To guide them on an effective, sustainable, and responsible path to meet clean energy goals, NTI and partners developed a *Global Playbook for Nuclear Energy* and released it to wide acclaim at COP28, the annual United Nations conference on climate change. We were thrilled with the response and grateful to our partners on the project at the Clean Air Task Force and EFI Foundation.

We also were gratified in 2023 by our government's ongoing commitment to a U.S. Department of Defense fail-safe review. NTI helped initiate this study to reduce the risk of accidental or inadvertent use of nuclear weapons, as nuclear forces face increasing digitization, expanding cyber vulnerabilities, and growing interfaces with AI-enabled systems. Sam and Ernie have urged strong congressional oversight of the review, the results of which are due in 2024, and we are encouraging other countries with nuclear weapons to conduct similar reviews. Even amid worsening geopolitical tensions, all countries have a deep interest in making sure nuclear weapons are protected against these threats.

The year also brought new opportunities to reach broader audiences and begin changing the narrative on nuclear security. Many believe that deterrence will always work and that nuclear weapons assure our safety. In today's world, it won't, and they don't. We need a new security model that takes into account the role of terrorism, cyber, AI, and thousands of weapons in a multi-polar world.

We also must build the political will needed for change. In addition to our annual #CranesForOurFuture campaign, the summer blockbuster *Oppenheimer* gave a boost to our work to educate and raise awareness about escalating nuclear threats. Now, with the 2024 Oscars approaching, we are engaged in a significant campaign to let people know that J. Robert Oppenheimer himself was right to warn us against a dangerous arms race and the development of ever-more powerful weapons—and to reinforce that it is possible to make needed progress on reducing nuclear threats.

Looking ahead, we are acutely aware of the challenges we face, after a year that brought a second war in a region of the world with nuclear weapons, the continuation of Russia's brutal assault on Ukraine, indications that China will dramatically expand its nuclear arsenal, news from our own *NTI Nuclear Security Index* that countries are regressing on nuclear security, and a warning from the World Health Organization that the world should prepare for the next pandemic.

You'll learn more in these pages about how we're addressing these threats. As we pray for peace in Ukraine and across the Middle East, we know the work ahead will be hard. We take heart that for nearly 25 years, on both nuclear and biosecurity, NTI has proved that with your help, progress is possible.

We are extraordinarily grateful to the foundations, families, and individuals who put their trust in NTI by providing financial support, especially Ted for his vision and generosity. We thank new funders and long-time supporters: Carnegie Corporation of New York, Effective Giving, Founders Pledge, the Bill & Melinda Gates Foundation, the John D. and Catherine T. MacArthur Foundation, Open Philanthropy, and the Peter G. Peterson Foundation. Without them, we would not be able to do this important work.

We hope you will join us.

Ernest J. Moniz Sam Nunn Ted Turner

# NEW GUARDRAILS FOR EMERGING TECH

## Managing Risks at the Convergence of AI and the Life Sciences

AI-enabled capabilities can be channeled into exciting advances in bioscience and bioengineering, but these powerful tools and technologies also could be accidentally or deliberately misused—potentially creating a global biological catastrophe. In a new report, *The Convergence of Artificial Intelligence and the Life Sciences*, NTI | bio provided actionable recommendations for governance of AI-bio capabilities at an event on the margins of this year's UK AI Safety Summit and is actively pursuing its top recommendation: establishing an international forum to reduce AI-bio risks. The UK discussion paper for the Summit included multiple references to the NTI report, which also influenced the Biden administration's 2023 executive order on the safe and secure development and use of AI.

*“If we don't take bold action now to guard against accidental or deliberate misuse of bioscience and biotechnology, we could face catastrophic consequences in the future, which could be as bad as COVID or worse.”*

NTI | bio's Jaime M. Yassif to *Vanity Fair* on the implications of COVID-19's origin.



At NTI's fall Board of Directors dinner, *Washington Post* columnist David Ignatius moderated a discussion between Administrator of the National Nuclear Security Administration Jill Hruby, a former Sam Nunn Distinguished Fellow at NTI, and CEO and Co-Founder of Twist Bioscience Dr. Emily Leproust, a member of NTI's Board of Directors, on the benefits and challenges of AI.

## Safeguarding DNA Synthesis

Benchtop DNA synthesis devices have begun to enable scientists to print synthetic DNA in their own labs, making it harder to protect against malicious actors who could use synthetic DNA to develop dangerous pathogens. NTI | bio interviewed 30 experts at the forefront of DNA synthesis technology and biosecurity to explore what benchtop DNA synthesis devices are currently capable of and how they may evolve, the biosecurity implications of these developments, and governance approaches that could mitigate the risks. Among the key recommendations: Rigorous customer and DNA sequence screening.

## Reducing Cyber Risks to Nuclear Weapons

Escalating tension between the United States and Russia has made the task of mitigating risks posed by the interaction of cyber capabilities and nuclear-weapons systems even more critical. As cyber capabilities grow, so does the risk of a cyberattack on a nuclear-weapons system—triggering catastrophic and unintended escalation and conflict. A new NTI report, *Reducing Cyber Risks to Nuclear Weapons: Proposals from a U.S.-Russia Expert Dialogue*, informed by U.S.-Russia expert dialogues held in 2020 and 2021, makes specific recommendations for a global diplomatic approach to reducing cyber-nuclear threats, including, where possible, through cooperation between the United States and Russia.

## IBBIS: Institutionalizing Innovative Biosecurity and Biosafety Norms

After years of development in consultation with leading international experts, NTI | bio prepared to launch the International Biosecurity and Biosafety Initiative for Science (IBBIS), a new, independent organization focused on strengthening and upholding global biosecurity norms with practical, innovative tools and incentives. IBBIS launched in early 2024 and is already making waves. The United Kingdom's 2023 Biological Security Strategy recognized IBBIS as a key partner, anticipating its influence in strengthening biosecurity best practices, standards, and regulations. The Paris Peace Forum also selected IBBIS for its Scale-up Program, a prestigious accelerator initiative.

## Developing the Common Mechanism to Support DNA Providers

NTI developed the innovative, open-source Common Mechanism for DNA synthesis screening—a software program that helps DNA providers make sure they do not unintentionally sell the building blocks of dangerous pathogens to malicious actors. Released in its beta version in early 2024, the software product will be managed and distributed by IBBIS.

# NEW SOLUTIONS FOR A CHANGING WORLD

## Advancing the Joint Assessment Mechanism to Determine Pandemic Origins

Global travel and trade, urbanization, and environmental degradation all increase the likelihood of naturally emerging pandemics—but whether a pandemic is caused naturally or deliberately, rapidly identifying the source is critical to mitigating its effects in real time and guarding against future risks. NTI | bio made important strides in establishing a Joint Assessment Mechanism (JAM) to identify the source of high-consequence biological events of unknown origins, publishing a paper in Johns Hopkins' *Health Security* journal; convening international biosecurity experts to discuss policy, institutional, and operational considerations for the JAM; and meeting with high-level officials from 16 countries to discuss placing the JAM under the purview of the UN Secretary-General's Office.

*"If the world is going to survive a new era of nuclear competition, every nuclear-armed country must strengthen its defenses against cyber threats and the possibility of rogue, accidental, or mistaken use of a nuclear weapon. Fortunately, they can do so...by advancing a global nuclear fail-safe—a system of self-imposed safeguards."*

In a *Foreign Affairs* article, Ernie Moniz and Sam Nunn urge nuclear-armed countries to join the United States in taking steps to prevent nuclear catastrophe.



In April 2023, NTI experts attended a working meeting of the International Partnership for Nuclear Disarmament Verification (IPNDV), hosted by Sandia National Laboratories in New Mexico. Since the IPNDV's founding almost 10 years ago, NTI has helped lead the Partnership's diverse group of experts from 30 countries in a collaborative process to develop practical solutions to the technical and procedural challenges associated with verifying nuclear disarmament.

## Building an Energy-Secure Future without Compromising Global Security

Nuclear power is gaining momentum as part of the global effort to manage climate change and meet a growing demand for energy—but the expansion of nuclear energy must not compromise nuclear security or lead to more nuclear weapons. At COP28, the UN global climate conference, NTI, the EFI Foundation, and Clean Air Task Force jointly released *A Global Playbook for Nuclear Energy Development in Embarking Countries*, which lays out pathways to efficiently and responsibly scale-up nuclear energy. NTI will continue working with governments and industry leaders to implement the *Playbook's* vision and ensure that the transition to a clean energy future does not increase the risk of nuclear catastrophe.



Ernie Moniz launches *Global Playbook* at COP28.

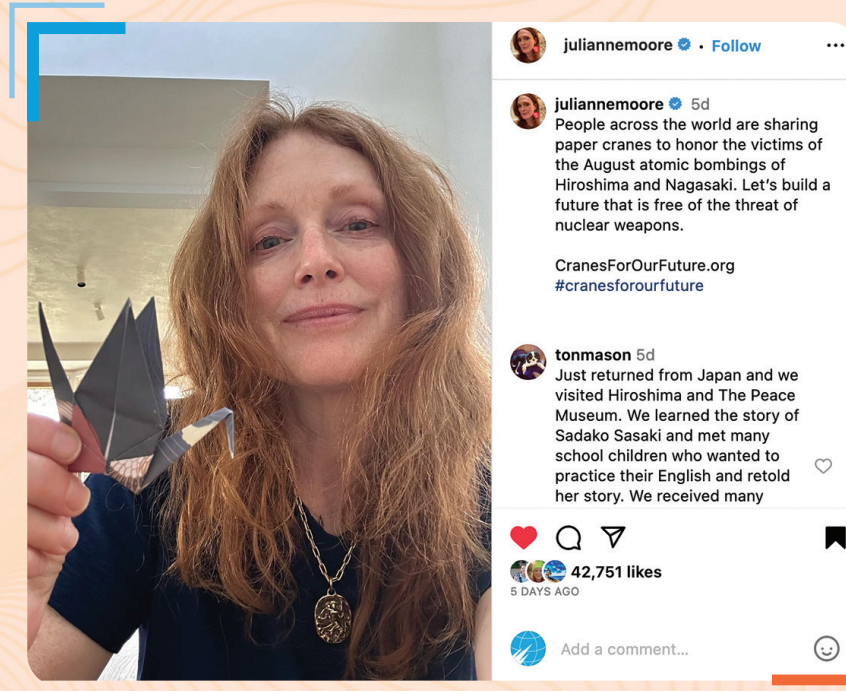
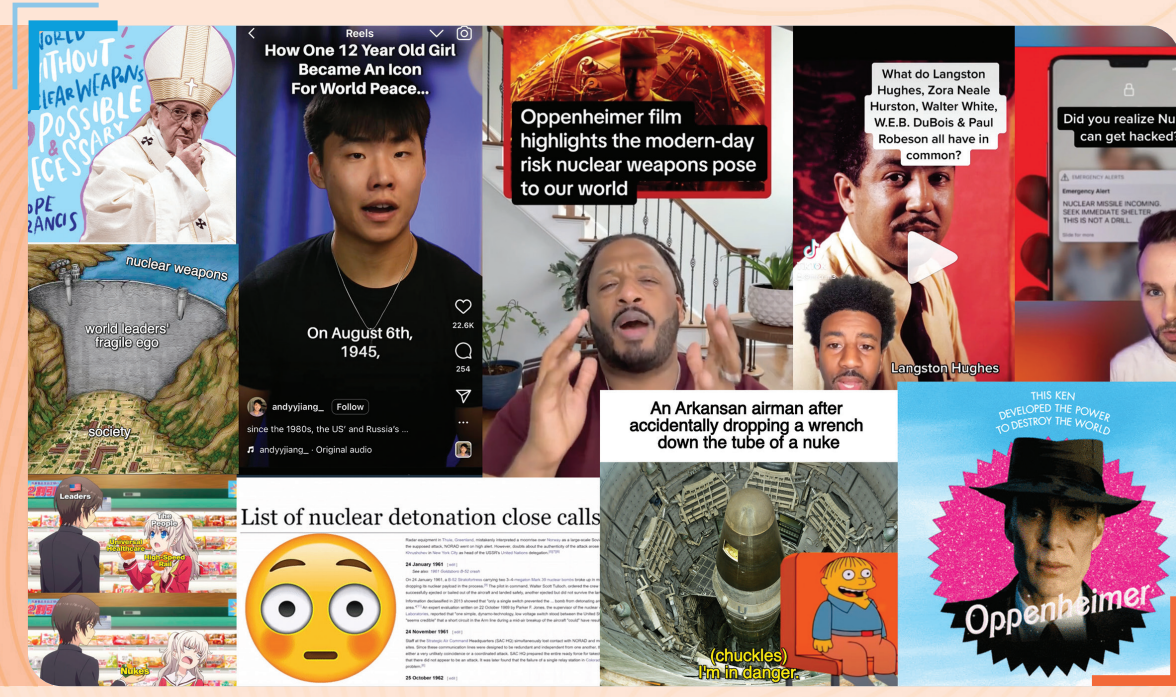
## Stabilizing the Global Nuclear Order

Russia's war in Ukraine, China's nuclear expansion, and domestic political turmoil in key countries are testing the foundation of the long-standing global nuclear order and creating critical new questions about the future of nonproliferation and disarmament. In response, NTI is convening experts to assess how strategic and nuclear risks are changing across the Euro-Atlantic and Asia-Pacific regions and develop concrete near-term steps to stop the decay of the security architecture and erosion of nonproliferation norms; mitigate nuclear risks; and advance common interests for a safer and more stable world.

## Strengthening Norms against Bioweapons

In the lead-up to the 2023 Biological Weapons Convention working group meetings, NTI | bio convened a group of academics, diplomats, biosecurity experts, and policymakers for a workshop on how to disincentivize countries from developing and using bioweapons. "This initiative is important because policy solutions to knotty problems like bioweapons proliferation do not develop in isolation," said NTI | bio's Nathan Paxton. "Establishing a strong community that has the time and resources to examine the range of current and future threats and develop forward-leaning solutions is critical."

# NEW ENGAGEMENT WITH NEW AUDIENCES



## Building Momentum for Change with #CranesForOurFuture

NTI successfully channeled the buzz around *Oppenheimer* into the annual #CranesforOurFuture campaign—the world’s largest online campaign in support of a world without nuclear weapons—reaching twice as many people as we did in 2022. Participants included U.S. Ambassador to Japan Rahm Emanuel, International Atomic Energy Agency Director General Rafael Grossi, UN Under-Secretary-General and High Representative for Disarmament Affairs Izumi Nakamitsu, Yoko Ono, actors Julianne Moore, Michael Douglas, Harry

Hamlin, Lisa Rinna, and George Takei, and hundreds more. For the first time, the campaign included an in-person component: a mural plastered in locations across New York City and Washington, DC, by manga artist Gigi Murakami, capturing the campaign’s hopeful message (see inside front cover).

## Reaching New Audiences Online with Creative Content

The data are clear: young, diverse audiences are the most likely to get their news and information from social media. NTI is engaging these audiences with GIFs and memes that deliver thought-provoking information on the frequency of nuclear close-calls, facts and figures about nuclear risks today, the dangers of relying solely on deterrence, and other topics—all in funny and culturally salient formats optimized to spread online. This effort has been successful in broadening NTI’s reach: We earned 1.6 million views on content posted from our social media accounts in 2023, a 60% increase over 2022.



NTI staff at *Oppenheimer* on opening day.

## Seizing the Moment of *Oppenheimer*

NTI capitalized on the release of the summer blockbuster *Oppenheimer* to connect the origin story of nuclear weapons with today’s growing nuclear threats. Days before the movie’s premiere, Joan Rohlfing and James McKeon published an op-ed in *USA Today* headlined, “The threat is real: Our nuclear weapons are much more powerful than *Oppenheimer*’s atomic bomb.” NTI also ran a social media campaign to circulate educational resources, prompt conversation, and encourage participation in #CranesForOurFuture. To build engagement, the campaign included memes and a satirical NTI “Barbenheimer” statement on the side of *Oppenheimer* in the great social media debate over whether moviegoers should see *Barbie* or *Oppenheimer* first.

# A YEAR OF GLOBAL IMPACT

A window into NTI's activities across the world

## Silicon Valley, USA

NTI and IBBIS leaders discussed the need to safeguard emerging biotechnology on the main stage at SynBioBeta, the premiere industry conference on synthetic biology.

## New York, USA

At United Nations headquarters, NTI experts reported on the long-term effects of a nuclear conflict and presented NTI | bio's proposed Joint Assessment Mechanism to help identify the source of pandemics of unknown origins.

## London, United Kingdom

NTI | bio released a new report, *The Convergence of Artificial Intelligence and the Life Sciences: Safeguarding Technology, Rethinking Governance, and Preventing Catastrophe*, on the margins of the UK government's AI Safety Summit.

## Cambridge, United Kingdom

More than 35 international biosecurity and biotechnology experts from industry, governments, and academia joined an NTI | bio meeting to advance practical solutions to reduce emerging biological risks associated with rapid technology advances.

## Munich, Germany

At the Munich Security Conference, NTI hosted side events calling for nuclear-weapons states to undertake nuclear fail-safe reviews and advocating to strengthen global biosecurity norms to protect bioscience and biotechnology from misuse.

## Budapest, Hungary

The International Partnership for Nuclear Disarmament Verification (IPNDV), co-led by NTI and the U.S. Department of State, gathered for working meetings with partners from more than 15 countries.

## Paris, France

IBBIS participated in the 2023 Paris Peace Forum and was selected as one of 10 initiatives to join its prestigious accelerator program.

## Vienna, Austria

NTI experts hosted meetings of the Cyber-Nuclear Forum and the Global Dialogue on Nuclear Security Priorities, attended the IAEA general conference, and briefed on the results and recommendations in the 2023 *NTI Nuclear Security Index*.

## Washington, DC, USA

Senior White House and administration officials rolled out the Biden administration's new strategy for countering weapons of mass destruction (WMD) terrorism in an NTI-hosted event.

## Geneva, Switzerland

NTI's Global Nuclear Order and Global Enterprise to Strengthen Nonproliferation and Disarmament projects gathered in person, and NTI | bio led a delegation of next-gen biosecurity leaders at the Biological Weapons Convention.

## Abu Dhabi and Dubai, United Arab Emirates

NTI co-led a workshop in Abu Dhabi on responsible nuclear energy expansion with 40 experts from the Middle East and the United States, then launched a new joint report on the same subject at COP28 in Dubai.

## Hiroshima, Japan

NTI experts joined two events with other international experts to develop and advance ideas to reduce the risk that nuclear weapons are ever used again.

## Bangkok, Thailand

NTI | bio convened 50 international experts for the 6th meeting of the Global Biosecurity Dialogue in partnership with the Thai government to take new actions to prevent deliberate biological events and to develop a shared vision for strengthening biosecurity in Southeast Asia.

## Buenos Aires, Argentina

NTI co-organized a workshop on regional nuclear security in Latin America, highlighting opportunities presented by the 2023 *NTI Nuclear Security Index*.

# NEW TRACTION FOR NTI'S VISION

## Elevating the Call for Nuclear Fail-Safe Reviews

After years of diligent advocacy by NTI, the U.S. government is conducting a review of nuclear command-and-control and weapons systems and fail-safe procedures to make sure they are robust enough to prevent the unauthorized, inadvertent, or accidental use of a nuclear weapon. Now other nuclear-weapons states must do the same. NTI's Euro-Atlantic Security Leadership Group championed the idea of a global fail-safe review at the Munich Security Conference in February. Ernie Moniz and Sam Nunn reaffirmed the importance of this initiative in a *Foreign Affairs* op-ed: "Even if the goal of global disarmament remains elusive, there is still much that nuclear-armed states can do now to prevent a potential catastrophe. The world cannot afford to wait for more peaceful times to reduce the risks of nuclear use."

*"We all know that humans make mistakes. We don't always have good judgment. We behave differently under stress. And there are so many examples of human failures over the course of history. Why do we think it's going to be any different with nuclear?"*

Joan Rohlifing to *The New York Times* on the potential for cognitive science to help us understand and address the inherent risks in nuclear decision-making.



Ananya Agustin Malhotra, Patricia Jaworek, and Mary Fulham at the United Nations.

## Bringing Attention to the Global Effects of Nuclear Conflict

"The inconvenient truth is that leaders are taking huge risks they don't understand because they do not fully comprehend—or do not want to comprehend—the broader societal consequences of nuclear use," NTI's Patricia Jaworek said during a panel discussion at the second Meeting of States Parties to the Treaty on the Prohibition of Nuclear Weapons at the United Nations. Her paper, *Global Effects of Nuclear Conflict: Implications for Nuclear Policymaking, Then and Now*, co-authored with NTI colleague Ananya Agustin Malhotra, explores the history of nuclear winter research in the United States and the persisting disconnect between the science and nuclear policy, outlining key questions for policymakers to address in an increasingly interconnected world.



Ernesto Mané, Secretary, Political Section, Embassy of Brazil; Joan Rohlifing; Ernie Moniz; Scott Roecker; and Jack Brosnan at the 2023 NTI Index release.

## The 2023 NTI Index Paves the Way for Action on Securing Nuclear Materials and Facilities

As global instability and political and social unrest pave the way for new forms of violent extremism, the sixth edition of the *NTI Nuclear Security Index* found that nuclear security conditions have deteriorated in countries and areas with nuclear facilities and weapons-usable nuclear materials for the first time in more than a decade. Through high-level briefings and meetings in the lead-up to a key global nuclear security conference in May 2024, NTI is pushing governments to use the *NTI Index's* nine core data-driven recommendations as their roadmap to reviving global nuclear security and preventing nuclear terrorism.

## Educating and Engaging U.S. Legislators

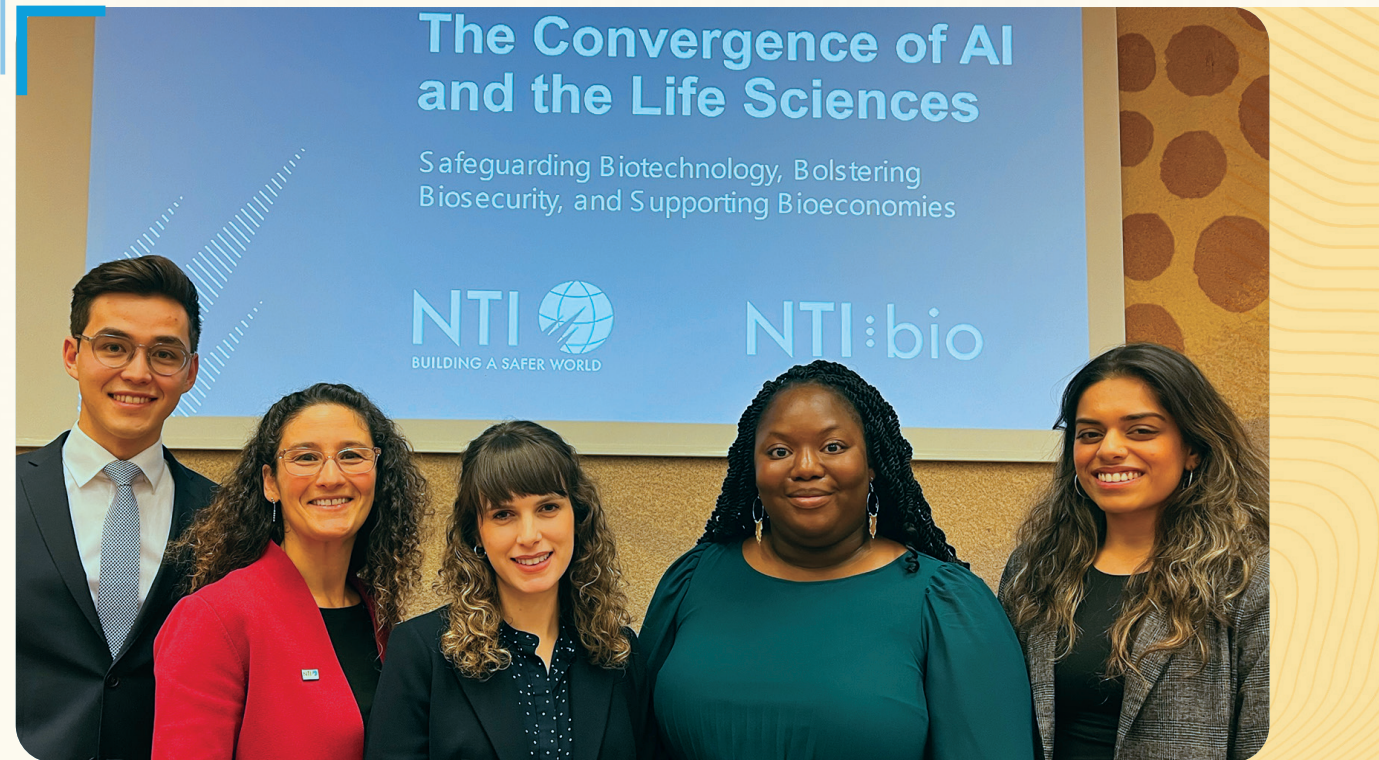
NTI is committed to educating and engaging U.S. legislators and their staff on key nuclear and biological security issues. In 2023, NTI hosted a briefing on Capitol Hill detailing how Congress can provide much-needed oversight for DNA synthesis technologies and mitigate emerging risks posed by the convergence of AI and the life sciences. NTI also co-hosted a dinner with the Center for the Presidency and Congress to discuss nuclear policy issues with a bipartisan group of senators and representatives. NTI | bio's Jaime M. Yassif testified before a hearing of the U.S. House Select Subcommittee on the Coronavirus Pandemic, where she called for urgent steps to strengthen biosafety and biosecurity policy and practices.



# NEW IDEAS FROM NEXT-GEN PROBLEM SOLVERS

## Fostering Cutting-Edge Ideas from Next-Gen Experts

NTI | bio's annual Next Generation for Biosecurity Competition, now in its seventh year, encourages collaboration between promising early-career experts from around the world and elevates their innovative ideas on the international stage. Winners of this year's competition—co-hosted with the Next Generation for Global Health Security Network, the iGEM Foundation, 80,000 Hours, SynBio Africa, and the Global Health Security Network—proposed a “biosecurity-by-design” approach to integrate biosecurity into every stage of the life science research and development pipeline. The competition drew dozens of teams from 16 countries and NTI | bio brought the winners to the Biological Weapons Convention Meeting of States Parties in Geneva, where they presented their winning concept during a side event. Writing for NTI's *Atomic Pulse* blog, NTI | bio's Gabby Essix noted that the biosecurity field “has traditionally been dominated...by older men from the global north. We are working to build gender parity and involve those with more diverse educational and professional backgrounds, including those early in their careers.”



Next Gen for Biosecurity competition winners Askar Kleefeldt, Alexandra Klein, and NTI | bio's Jaime Yassif (second from left) and Gabby Essix (second from right). Gurpreet Dhaliwal with

## Supporting Efforts to Understand the Future of Euro-Atlantic Security

Ten years ago, NTI launched the Younger Generation Leaders Network (YGLN) to help develop and foster a new generation of leaders equipped to tackle global challenges fueled by historic animosities. Today, the robust network has more than 100 members from more than two dozen countries across the Euro-Atlantic, working together to build trust and dialogue and offer fresh ideas on how to tackle the most pressing security issues in the region. When our beloved colleague Bob Berls passed away in 2021, NTI established the Robert E. Berls, Jr. Next Generation Fund to promote understanding and scholarship among U.S., European, Russian, and Asian young professionals. In 2023, NTI issued the inaugural Berls Fund award to the YGLN to support its efforts to redefine and advance Euro-Atlantic security amid the war in Ukraine.

## Interning at NTI

NTI's internship program continues to flourish. Across the Global Nuclear Policy, Nuclear Materials Security, NTI | bio, Communications, and Finance programs, we welcomed 13 interns in 2023. In addition to supporting program work, interns are encouraged to pitch their own ideas for research and projects to complete while at NTI. Maya Deutchman, a senior at Vanderbilt University when she interned with NTI's Communications team, recalled that her interest in nuclear policy was sparked during a high school history class, so “I decided to create a syllabus that would allow others to begin to develop an understanding of nuclear weapons and the impact of their continued existence,” she wrote in a piece for NTI's *Atomic Pulse* blog. Deutchman's syllabus is available on the NTI website.

## Tackling Hard Problems as an ISF Fellow

Schmidt Futures, a philanthropic initiative of former Google CEO Eric Schmidt and his wife, Wendy, selected NTI | bio's Chris Isaac for the 2023 cohort of International Strategy Forum (ISF) Fellows. Isaac, who supports NTI | bio's efforts to improve biosecurity and biotechnology governance, joined 116 other fellows from 40 countries for the 11-month program. “Participating in ISF was a wonderful experience because of the strong community, excellent mentorship and networking, and commitment of the fellowship to tackling hard problems,” Isaac said. “Despite how dire things often seem, being a part of ISF reminds me that there are people all around the world working tirelessly to make things better, and that there is a network of mentors ready to help.”

# THANK YOU! THANK YOU!

**We gratefully acknowledge all our 2023 funders, including the following institutions and individuals who gave \$500 or more. Thank you for supporting NTI's nuclear and biological threat-reduction mission during this critical time. Your generosity builds a safer world, now and for future generations.**

*"I know I'm helping to make sure that there are competent people working on these issues at the highest levels and with great impact."*

Torsten Karzig, PhD

|  |  |  |   |  |   |
|--|--|--|---|--|---|
| Anonymous  | Zachary Frank  | Harold Kalishman                                   | Admiral Michael G. Mullen, USN (Ret.), Michael and Deborah Mullen Charitable Fund | Nicholas Ritter  | Ryan Storey                                     |
| Gary Abel  | Manuel Pantelias Garces, Valor Equity Partners                                     | Torsten Karzig                                     | Sarah Nichols   | Indre and Justin Rockefeller                           | Sharon Street                                   |
| Brooke D. Anderson   | Bill & Melinda Gates Foundation  | James Kieffer, The Dozen Dimes Foundation          | The Colleen and Sam Nunn Family Foundation  | Joan Rohlfing  | Jeffrey Swanberg                                |
| Harvard Kennedy School Belfer Center for Science and International Affairs | Giving What We Can   | Scott Kilner                                       | Ronald and Jane Olson   | Tom Rosshirt   | Ted Turner                                      |
| David Bernstein  | Global Affairs Canada, Canada Department of Foreign Affairs, Trade and Development | Eric and Jennifer Kirby                            | Open Philanthropy   | Ray and Meredith Rothrock                              | Turner Foundation, Inc.                         |
| John Browne  | The Goodnow Fund   | Susan Koch   | Victor and Jeanne Orphan, Coastal Community Foundation                            | Lynn Rusten  | Charles Turner                                  |
| Michael Brown, Bockus Brown Family Foundation                              | Rose Gottemoeller  | Steven and Alison Krausz                           | Alastair Ewan Paterson Charitable Fund  | R. Pito Salas, Iguana Fund                             | Manthan Vasavada                                |
| Bruce Power  | Trevor Haag  | Samuel La  | Peter G. Peterson Foundation  | Lawrence Satkowiak                                     | Matthew Vernacchia                              |
| Garrett Camp   | Mimi Hall  | Edward Levine                                      | Dale Pfau   | Tom and Linda Savage                                   | James von Herrmann, von Herrmann Family Charity |
| Carnegie Corporation of New York   | Margaret A. Hamburg, MD, and Peter F. Brown  | John Lichter, George Lichter Family Fund           | Sharang Phadke  | Thomas Scanlan   | Alison von Klemperer                            |
| George Combs   | Aidan Hendrickson  | Michael Lippitz, Season of Change Foundation       | Robert S. Pitts and Elizabeth O'Brien Pitts, Pitts Family Giving Fund             | Val and Min-Myn Schaffner, Schaffner Family Foundation | Kathy Waller                                    |
| Foy Cooley   | Chris Henrich  | Walter and Karen Loewenstern, The Loewenstern Fund | Ploughshares Fund   | Natasha Schooling                                      | Noah Walley                                     |
| Carla and David Crane  | John Hess, Hess Foundation   | Albert Lu  | Rafe Pomerance  | Alan Schwartz, The Schwartz Family Foundation          | Ellsworth Whiteman, Whiteman Family Fund        |
| Ignacio Cuervo   | Lynn Holbein   | John D. and Catherine T. MacArthur Foundation      | Rudy and Alice Ramsey   | Charo Serventy   | Sheila and William Widnall                      |
| Parker Davis   | Ann M. & Robert M. Holder Foundation   | Carmen E. MacDougall and Paul J. Allen             | Rethink Charity Foundation, RC Forward Long-Term Future Fund                      | Laura Turner Seydel                                    | Malcolm Hewitt Wiener Foundation                |
| Timothy Diaz   | Marshall and Yuko Hung   | Leo & Rachel Marcus Family Foundation              | Irwin Redlener  | Stephen and Amy Shapiro                                | Barrie and Deedee Wigmore Foundation            |
| Michael Dobrin   | Jon Huntsman Jr., The Huntsman Foundation  | Brian McCracken                                    | Admiral John Richardson, USN (Ret.), Briny Deep Giving Fund                       | Clifford Sheets  | Melody Wilder Wilson                            |
| Effective Giving   | The Irving Family Fund at the Athens Area Community Foundation                     | Lee McKillop                                       |   | Scott and Diane Shillings                              | Marcia S. Wilson                                |
| Effective Ventures Foundation  | Sally Jobe   | Charis Menschel                                    |   | Silicon Valley Community Foundation                    | Will and Karen WinterHamlin                     |
| Theodore Ellis   | Wyatt Jordan   | Ernest J. Moniz                                    |   | Southern Company Foundation, Inc.                      | Robert Wolfe                                    |
| Favaro Family Foundation   |  |  |   | Samuel Sperling  |   |
| Andrew Fisher  |  |  |   |  |   |
| Fortum   |  |  |   |  |   |
| Founders Pledge  |  |  |   |  |   |

# NTI LEADERSHIP



## Board of Directors

**Ernest J. Moniz**  
Co-Chair and Chief Executive Officer,  
NTI

**Sam Nunn**  
Co-Founder, Co-Chair, and Strategic  
Advisor, NTI

**Ted Turner**  
Co-Founder and Co-Chair, NTI

**Des Browne**  
Lord Browne of Ladyton  
Vice Chair, NTI

**Joan Rohlfing**  
President and Chief Operating Officer,  
NTI

**Ambassador Hamad Alkaabi**  
Permanent Representative, United  
Arab Emirates (UAE) to the IAEA  
UAE Special Representative for  
International Nuclear Cooperation

**Ambassador Brooke D. Anderson**  
President, Pivotal Ventures  
Former U.S. Ambassador at the  
United Nations

**Dr. Alexey G. Arbatov**  
Head, Center for International  
Security at the Primakov National  
Research Institute of World Economy  
and International Relations, Russian  
Academy of Sciences  
Senior Fellow, Center for Strategic  
Research

**Luciana Borio, MD**  
Venture Partner, ARCH Venture Partners  
Senior Fellow for Global Health,  
Council on Foreign Relations (CFR)

**Gideon Frank**  
Former Director General, Israel Atomic  
Energy Commission

**Margaret A. Hamburg, MD**  
Former Commissioner of the U.S. Food  
and Drug Administration (FDA)

**Ambassador Jon M. Huntsman, Jr.**  
Former U.S. Ambassador to Russia,  
China, and Singapore  
16th Governor of Utah

**Dr. Shirley Ann Jackson**  
Former President, Rensselaer  
Polytechnic Institute (RPI)

**Ambassador Riaz Mohammad Khan**  
Former Foreign Secretary, Pakistan

**Dr. Jeong H. Kim**  
Former President, Bell Labs

**Federica Mogherini**  
Rector, College of Europe  
Former High Representative of the  
EU for Foreign Affairs and Security Policy  
and Vice President, European  
Commission

**Dr. Michelle McMurry-Heath**  
Former Chief Executive Officer, Biotech  
Innovation Organization (BIO)

**Admiral Michael G. Mullen, USN (Ret.)**  
17th Chairman, U.S. Joint Chiefs of Staff

**Ronald L. Olson**  
Partner, Munger, Tolles & Olson LLP

**Michael A. Peterson**  
Chairman and Chief Executive Officer,  
The Peter G. Peterson Foundation

**Ray Rothrock**  
Venture Investor, FiftySix  
Investments Partner Emeritus, Venrock

**Louis Salkind**  
President, Bright Horizon Foundation

**Laura Turner Seydel**  
Chair, Captain Planet Foundation  
Director, Turner Foundation

**Dr. Nathalie Tocci**  
Director, Istituto Affari Internazionali

**Ambassador Alexa Wesner**  
Former U.S. Ambassador to Austria

**Dr. Peng Yuan**  
President, China Institutes of  
Contemporary International  
Relations (CICIR)

**Ambassador Gustavo Zlauvinen**  
Executive Secretary, Argentine  
Chemical Weapons Convention  
National Authority  
Former Deputy Foreign Minister,  
Argentina

## Emeritus

**Gov. Edmund G. Brown Jr.**  
Former Governor of California  
Executive Chair, Bulletin of Atomic  
Scientists (BOAS)

**Professor Liru Cui**  
Senior Advisor and Former President,  
China Institutes of Contemporary  
International Relations (CICIR)

**Charles B. Curtis**  
President Emeritus, NTI

**Susan Eisenhower**  
President, Eisenhower Group, Inc.

**Ambassador Rolf Ekéus**  
Chairman Emeritus, Stockholm  
International Peace Research  
Institute (SIPRI)

**HRH Prince El Hassan bin  
Talal of Jordan**  
Former Crown Prince to the Hashemite  
Throne of Jordan

**Igor S. Ivanov**  
Former Minister of Foreign Affairs,  
Russia

**Pierre Lellouche**  
Former Minister of State, France

**Dr. Jessica T. Mathews**  
Distinguished Fellow and former  
President, Carnegie Endowment  
for International Peace

**Ambassador Hisashi Owada**  
Former Vice Minister for Foreign  
Affairs, Japan  
International Court of Justice, The  
Hague Netherlands

**Dr. William J. Perry**  
19th U.S. Secretary of Defense

**Sir Malcolm Rifkind**  
Former Foreign Secretary and former  
Secretary of Defense, UK  
Former Member of Parliament, UK

**Professor Amartya Sen**  
Nobel Laureate in Economics  
Lamont University Professor  
and Professor of Economics and  
Philosophy, Harvard University  
Former Master, Trinity College,  
Cambridge

# NTI STAFF

## Executive Leadership

**Ernest J. Moniz**, Co-Chair and Chief Executive Officer

**Joan Rohlfing**, President and Chief Operating Officer

**Carmen MacDougall**, Senior Vice President

**Amy C. Hargrett**, Chief Financial Officer and Treasurer, Vice President

## Officers

**Mimi Hall**, Vice President, Communications

**Peggy Knudson**, Vice President, Development

**Scott Roecker**, Vice President, Nuclear Materials Security

**Lynn Rusten**, Vice President, Global Nuclear Policy Program

**Jaime Yassif**, Vice President, Global Biological Policy and Programs

## Staff

**Keirstin Anderson**, Office Assistant/ Receptionist

**Alex Bednarek**, Program Officer, Nuclear Materials Security *(on temporary assignment)*

**Jessica Bell**, Senior Director, Global Biological Policy and Programs *(on temporary assignment)*

**Eric Brewer**, Deputy Vice President, Nuclear Materials Security

**Jack Brosnan**, Program Officer, Nuclear Materials Security

**Jessica Bufford**, Senior Program Officer, Nuclear Materials Security

**Gregory Butchello**, Executive Assistant and Events Coordinator

**Ryan Cahill**, Digital Director, Communications

**Amy Cole**, Director for Grants and Contracts

**Jason Conklin**, Senior Accountant

**Catherine Crary**, Executive Assistant and Events Coordinator

**Naomi Diehl**, Special Assistant to the President, Board Liaison

**Gabrielle Essix**, Program Officer, Global Biological Policy and Programs

**Naya Fallouh**, Development Assistant

**Mary Fulham**, Communications Officer

**Tatiana Ghonda**, Controller

**Cathy Gwin**, Senior Director, Communications

**Juliet Henry**, Communications Manager

**Heidi Hermisson**, Director for Development

**Sharon Hoeck**, Development Manager

**Chris Isaac**, Program Officer, Global Biological Policy and Programs

**Patricia Jaworek**, Program Officer, Global Nuclear Policy Program

**Sara Kaufman**, Executive Assistant and Events Coordinator

**Laura Kiefer**, Director of Operations

**Shayna Korol**, Program Associate, Global Biological Policy and Programs

**Valeria MacPhail**, Director, Office of the Honorable Sam Nunn, Atlanta

**Ross Matzkin-Bridger**, Senior Director, Nuclear Materials Security

**James McKeon**, Senior Program Officer, Global Nuclear Policy Program

**Mark Melamed**, Deputy Vice President, Global Nuclear Policy Program

**Cheryl Nathan**, Director, Human Resources

**Samantha Neakrase**, Senior Director, Nuclear Materials Security *(on temporary assignment)*

**Manya Panchyshyn**, Executive Assistant and Travel Administrator

**Nathan A. Paxton**, Senior Director, Global Biological Policy and Programs

**Nickolas Roth**, Senior Director, Nuclear Materials Security

**Aparupa Sengupta**, Senior Program Officer, Global Biological Policy and Programs

**Hayley Severance**, Deputy Vice President, Global Biological Policy and Programs

**Douglas Shaw**, Senior Advisor

**Rachel Staley Grant**, Deputy Vice President, Communications

**Emma Stephens**, Executive Assistant and Events Coordinator

**Valeria Valdes**, Staff Accountant

**Tammy Ware**, Human Resources Administrator

**Caressa Williams**, Executive Assistant and Events Coordinator

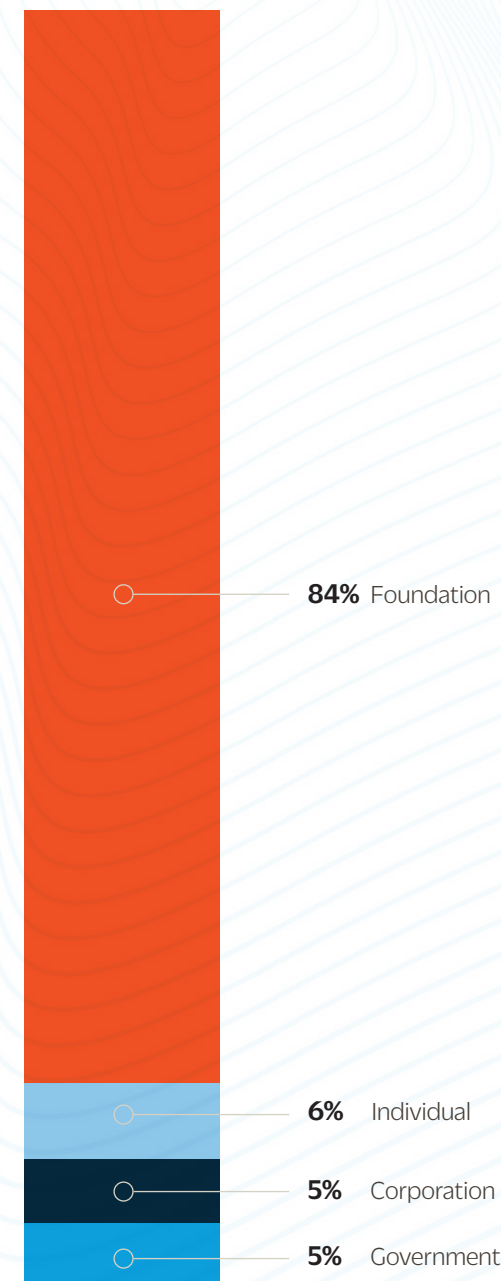
**Isabelle Williams**, Senior Director, Global Nuclear Policy Program

*As of December 31, 2023*

# 2023 FINANCIALS

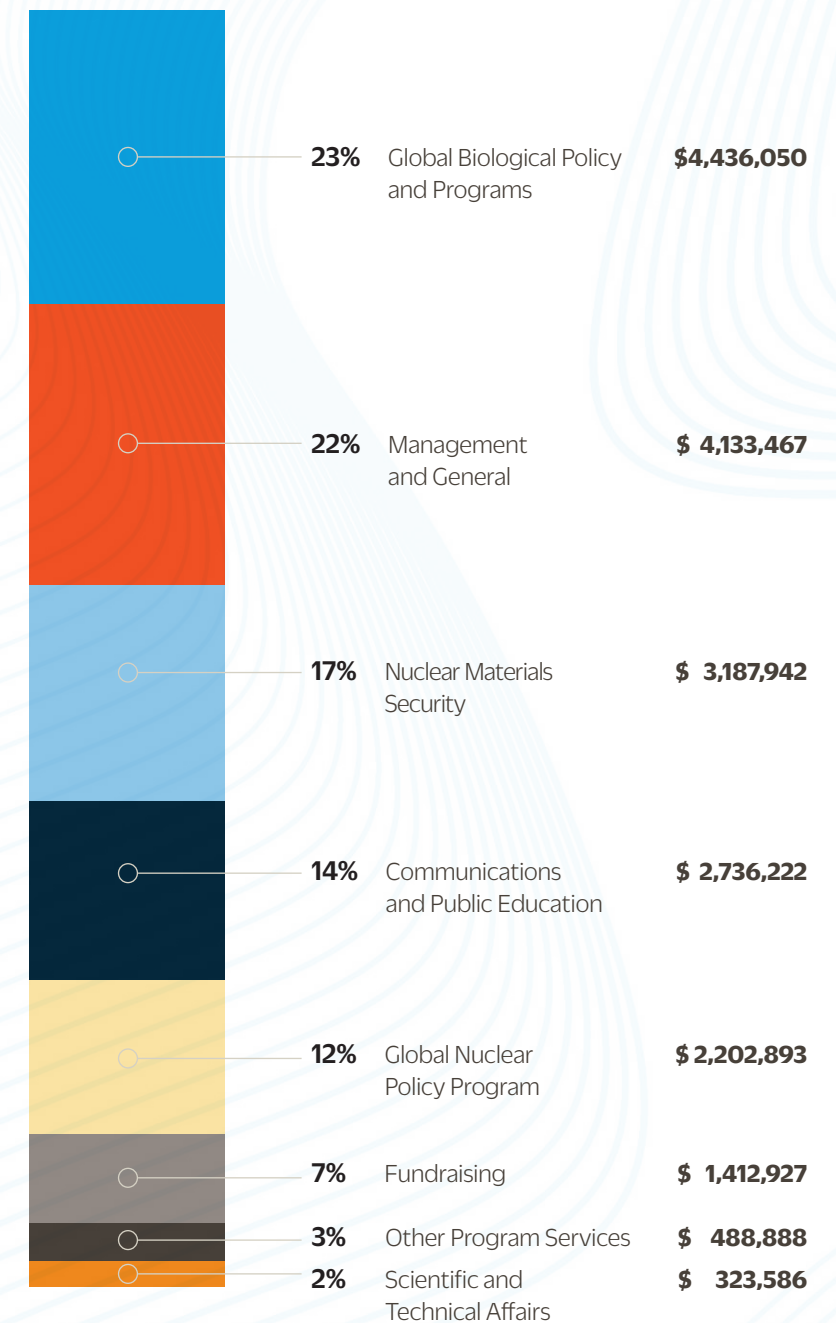
## Where the Funds Came From

### REVENUE SOURCES



## Where the Funds Went

### EXPENDITURES



**Total \$18,921,975**

\*NTI does not accept funding from the U.S. government but accepts funding from other governments.



The fourth annual **#CranesForOurFuture** campaign takes flight August 6-9, 2024. Fold and share a paper crane on social media with your message of hope for a world without nuclear weapons. For more information, visit [www.CranesForOurFuture.org](http://www.CranesForOurFuture.org)



NTI:bio

1776 EYE STREET, NW, SUITE 600 WASHINGTON, DC 20006 (202) 296-4810 WWW.NTI.ORG

 [FACEBOOK.COM/NTI.ORG](https://www.facebook.com/NTI.ORG)

 [@NTI\\_WMD](https://twitter.com/NTI_WMD)

 [NTI\\_WMD](https://www.instagram.com/NTI_WMD)

 [NUCLEAR THREAT INITIATIVE](https://www.linkedin.com/company/nuclear-threat-initiative)