Letter from Our President

2020 was a year of reckoning and resolve. The pandemic continues to test us. Our hearts go out to those who lost loved ones or who still may. We responded to the harsh reality of systemic racism with a commitment to intentionally advancing justice, equity, diversity, and inclusion within RESOLVE as well as in our work. We see more clearly that our society is fractured, deeply. We are reminded why good, fair government matters.

Even with tragedy and pain, we saw leadership and heroic acts. We thank our first responders, health care workers, and all who are playing a vital role in responding to this crisis. Where government institutions struggled, civil society, activists, entrepreneurs, innovators, and corporate leaders stepped in.

At RESOLVE, we tried to do our part — supporting government and health professionals as they grappled with how to navigate the scarcity of medical resources, launching projects and enterprises to get personal protective equipment into the hands of those in need, and supporting safer voting in the U.S. election. We are working with Orange, USAID, and GAVI to develop a new initiative to power remote access to health services. This initiative — HealthGrid — meets the moment by delivering health services, including cold chain storage for vaccines, to communities in need, starting in Africa. At its core, it is a self-sustaining social enterprise that will be replicable in other regions.

Our other programs continue to innovate. The Global Safety Net is a hopeful, science-based response to the climate and biodiversity crisis. Governments are using our research to set more ambitious goals. Our wildlife technology is now being deployed at scale, Apple and Tiffany & Co. are using our Salmon Gold in their products, stakeholders in the Missouri River watershed are collaborating on species recovery efforts, and we are showing that social enterprises can be a force for good.

We recognize that in challenging times, it pays to work together. In 2020 we announced new partnerships with Open Source Medical Supplies, Mission for Masks, Project Northern Lights, Nature for Justice, Natural State, the Diamond Development Initiative, and CVEDIA.

The past year changed us. We did not achieve all that we hoped on some issues, and on others we achieved more than expected. We thank all of our partners for their creativity, perseverance, and support. We are working hard to make 2021 a year of renewed hope for people and the planet.

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<th>Stephen D’Esposito</th>
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<td>President &amp; CEO</td>
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For over 40 years, we have worked to build the capacity of communities, the private sector, civil society, institutions, and governments to prepare for and respond to public health, environmental, and economic emergencies.

When a crisis hits, we mobilize our networks to rapidly develop, test, deploy, and scale creative solutions to help tackle urgent problems. We did just that in the early days of the COVID-19 pandemic and throughout 2020. The pandemic fractured global supply chains, creating an enormous global shortage of personal protective equipment (PPE) for healthcare and other frontline workers. RESOLVE joined the volunteers, makers, and micro-manufacturers who mobilized to fill the gap. We launched and supported a variety of initiatives to unblock supply chains, rally makers and manufacturers, and get PPE into communities with the greatest need.

We joined forces with Open Source Medical Supplies, a global network of over 70,000 makers, fabricators, community organizers, and medical professionals that rapidly compiled and vetted hundreds of open-source designs for protective equipment, setting specific guidelines for COVID-19 safety and guidance for communities organizing their own local response efforts. OSMS resources have been translated into dozens of languages and used in over 86 countries around the world.

With Makers Respond — a structured, resourced, rapid-response system that matches financial and material resources with volunteers who can quickly transform them and deliver them to medical systems in need — we brokered corporate and grassroots relationships to channel donated raw materials to the makerspaces and micro-manufacturers who were rapidly backfilling PPE shortages. This resulted in the delivery of hundreds of thousands of face shields and other supplies to state health departments and healthcare workers across the U.S. We also partnered with Project Northern Lights to support makers and distribute PPE in Canada, focusing on getting this critical PPE to Tribal communities, new immigrants, and other underserved communities.

In late 2020, millions of Americans, including the nearly one million who serve as poll workers, converged on voting locations across the U.S., creating potential hotspots for COVID-19 transmission. RESOLVE leveraged our supplier relationships as well as new partnerships with VoteSafe and Mission for Masks to launch Gear Up to VoteSafe, a non-partisan initiative to promote safe in-person voting. Our Gear Up to VoteSafe team was able to procure and distribute PPE to voters and voting center workers in fourteen states across the country within just a few weeks. Additional PPE was provided to voting centers in Atlanta for early voting in the Georgia Senate runoff election. We turned each donated dollar into more than $5 worth of donated PPE, including 11,000 face shields, 10,000 N95s respirators, 130,000 facemasks, 25,000 pairs of nitrile gloves, and 8,000 gallons of sanitizer, among other items.

Even as supply chains begin to stabilize, access to PPE remains a challenge for many, especially those who are new to the marketplace or cannot place large-scale orders, such as schools, day cares, and places of worship. We are now working on forward-leaning strategies to provide essential tools and equipment to protect more people — particularly those who are not in a position to navigate the complex marketplace to secure PPE themselves.
Our Conservation team protects ecosystems, wildlife, and communities through groundbreaking research and peer reviewed publications, the creation of local, multi-sector constituencies for targeted land protection and restoration, and innovative technology.

Our Biodiversity and Wildlife Solutions team is producing leading-edge research, showing how natural lands can be protected through technological innovation, ambitious global agreements, and targeted land protection. Our Collaborative Ecosystem Stewardship team is working with diverse stakeholders across the United States to design and implement science-based, collaborative management plans for their shared natural resources.

Wildlife poaching has increased dramatically across Africa since the start of the COVID-19 pandemic. TrailGuard AI offers a timely solution to help understaffed parks stop poachers and ensure the safety of endangered wildlife as well as the rangers who protect them. In 2020, we shipped TrailGuard AI to seven parks in Africa as part of the first rollout towards our goal of deploying in 100 parks by 2022. Each of these first seven reserves harbor key elephant, rhino, or lion populations in sub-Saharan Africa. Our Biodiversity and Wildlife Solutions team has been providing virtual training and technical assistance to park managers at each site, enabling deployments of our anti-poaching systems to continue despite ongoing travel restrictions. In October 2020, we commenced large volume production of TrailGuard AI, positioning us to scale up deployments across Africa and Asia in 2021. The TrailGuard AI technology was featured in “The Age of AI”, BBC’s People Fixing the World podcast, and numerous press articles.

In partnership with CVEDIA and Intel, we also launched two new variants of the TrailGuard AI technology designed to address wildlife monitoring and illegal logging. ForestGuard AI detects logging trucks and sends real-time alerts to forest managers to stop illegal logging before it occurs. WildEyes AI detects target wildlife species and sends alerts to park managers in order to prevent human-wildlife conflict and improve wildlife research efforts. We have developed detectors for elephants, rhinos, lions, tigers, snow leopards, wolves, bears, and great apes, and these sophisticated AI algorithms are now ready to run on our WildEyes AI camera system.

In September 2020, our science-based plan to address the biodiversity crisis and stabilize the climate was published in Science Advances. Entitled the Global Safety Net (GSN), it is the first comprehensive global-scale analysis of terrestrial areas where enhanced...
protection is essential to reverse biodiversity loss and achieve climate resilience, totaling 50.4% of the Earth’s land. This study is a follow up to the Global Deal for Nature we published in April 2019 and highlights the importance of protecting and restoring the natural world to address four converging crises: climate change, the loss of biodiversity, ecosystem collapse, and the emergence of novel viruses such as COVID-19. We show that the solutions are interdependent. The GSN also highlights the central role that Indigenous Peoples and their lands play in preserving global biodiversity and major carbon reservoirs. We are developing implementation strategies that include targeting protection of high priority corridors as well as on-the-ground protection, restoration, and land use agreements for critical regions for climate and biodiversity. The GSN has been featured in a number of popular press articles and will be a centerpiece of our work moving forward.

In 2020, the Quick Response Fund for Nature provided grants to ten local organizations in nine countries to help secure critical habitat for rare and endangered species. Notable grants include helping to conserve African pangolins in Uganda, elephant corridors in Kenya, and a suite of western prairie species in Colorado.
RESOLVE’s Sustainable Resources team promotes ethical and sustainable production, use, and re-use of natural resources and the products made with them, and leads the collaborative design, testing, and scaling of solutions that benefit local communities.

In July 2020, we joined forces with the Diamond Development Initiative (DDI) in a program merger to support and scale responsible sourcing of artisanally mined diamonds, gold, cobalt, “the three Ts” (tin, tantalum, and tungsten), and other minerals. The integration of programs and staff is an impact multiplier, bringing together more than fifty years of combined experience in conflict prevention and resolution, poverty reduction, biodiversity protection, supply chain due diligence, and ethical products. DDI@RESOLVE works to transform artisanal and small-scale mining by bringing this largely unregulated, informal sector into the formal economy in ways that benefit miners, their communities, regional and national economies, and the diamond and jewelry industry. Our priorities are reconciliation for communities affected by conflict diamonds and conflict minerals, restoration to heal the land and support new livelihoods, and responsible sourcing to ensure long term benefits for artisanal diamond miners and their families.

Developed by the Alliance for Responsible Mining and RESOLVE, with support from the European Partnership for Responsible Minerals (EPRM), the Code of Risk-mitigation for ASM engaging in Formal Trade (CRAFT) helps artisanal miners to implement due diligence and meet global market expectations and to progressively improve social, environmental, and safety conditions at artisanal sites. An open-source tool, it also supports responsible, international companies to engage in artisanal sourcing while observing Organisation for Economic Co-operation and Development (OECD) guidance. Since its initial publication in 2018, CRAFT has been implemented and adapted by stakeholders at artisanal gold, cobalt, and gemstone sites around the world. CRAFT v2.0 was published in May 2020, along with a guidebook containing additional explanation, tools, and resources to support miners implementing CRAFT. The CRAFT code and associated guidance are available online.

In 2012, RESOLVE launched the FPIC Solutions Dialogue, a group of civil society organizations, extractives companies, and indigenous networks developing practical guidance to support FPIC (Free, Prior and Informed Consent) community processes throughout the life of extractive projects. In early 2020, we held a webinar on community issues and impacts when a project closes. When COVID-19 hit, Dialogue members gathered virtually to discuss how to maintain engagement with and support indigenous communities across distance.
Our Healthy Communities team promotes equitable health access and outcomes for all people, communities, and populations by fostering the development of holistic and equitable wellness policies, strategies, and partnerships.

In 2020, this work was infused with new urgency as the COVID-19 crisis magnified and exacerbated existing health and wellness disparities among people and communities in the United States. In response, we have launched new initiatives specific to addressing COVID-19 and redoubled our efforts to address chronic and growing health equity challenges.

We continued to focus on reducing exposure to toxins in food and drinking water. The U.S. Environmental Protection Agency recently released revisions to its Lead and Copper Rule, requiring utilities to inventory service lines and develop a plan to replace those made of lead. The Lead Service Line Replacement Collaborative is working to help identify ways in which these new requirements can be leveraged to accelerate full lead service line replacement and communicate those opportunities to water system managers, the public health community, and community leaders.
We worked with the American Academy for the Advancement of Science (AAAS) to help elected officials better understand barriers to and solutions for addressing per- and polyfluoroalkyl substances (PFAS) contamination in drinking water. PFAS are a class of widely used chemicals, some of which are known to be harmful to human health. This work is part of a broader initiative between AAAS and RESOLVE to deliver actionable, science-based information to decision makers on issues from artificial intelligence in judicial decision-making, to orphaned and improperly abandoned oil and natural gas wells, to climate policy.

We also facilitated a coalition-building and prioritization effort to reduce toxic chemicals in food and achieve more robust governmental oversight. This project established strategies to raise awareness of the toxic chemicals that can enter food and to prompt action to eliminate specific routes of introduction, including direct food additives (such as color and flavorings) and food contact substances (like packaging).

We are working with US Pharmacopeia to engage stakeholders on the issues of setting quality standards for drugs, medical devices, and dietary supplements. In 2020, we held roundtables on precision medicine as well as standards for compounding (mixing together) drugs for human and animal patients.

We are also on the front edge of addressing the public and environmental health threats posed by plastic pollution. From burning plastic waste to microplastics in our oceans, a paradigm shift is needed to prevent the waste and toxic effects of our overreliance on single-use plastics. PR3 is a pre-competitive effort among corporate, government, and NGO champions to create standards for reusable packaging models that will enable reuse to scale globally. PR3 aims to create a world in which reusable packaging is economically, socially, and environmentally preferred to single-use plastic packaging. Our mantra is Standards = Scalability. PR3 is the only initiative in the world focused on aligning reuse systems across brands and supply chains. PR3 plans to launch demonstration projects in Seattle in late 2021 and Jakarta in 2022.
Fiscal Year 2020
July 1, 2019 – June 30, 2020

TOTAL SUPPORT AND REVENUE
$5,689,587

EXPENSES
$5,746,767

Grants $613,392
Contributions $1,848,779
Management and General Support $433,147
Fundraising $66,546

Other Income $508,494
Contract Service Fees $2,718,923
Program Services $5,247,074
Highlights from 2020

- TrailGuard AI featured in “The Age of AI” YouTube TV series
- Facilitated the MRRIC Adaptive Management Workshop in Nebraska City, NE
- Makers Respond delivered 115,000 face shields to healthcare workers in Maryland and Michigan
- Published v2.0 of CRAFT code for artisanal miners, with guide book
- OSMS launched their guide: Home Care for COVID-19
- Global Safety Net paper published in Science Advances
- Formed partnerships with OSMS and Makers Respond
- Launched WildEyes AI in partnership with CVEDIA
- Presented our work on Crisis Standards of Care at the virtual Preparedness Summit
- Commenced large volume manufacture of TrailGuard AI, and delivered to seven parks in Africa
- Provided PPE to election officials and volunteers through Gear Up to VoteSafe
- Finalized Utah Lake Water Quality Study Management Goals

Timeline:
- FEB: TrailGuard AI featured in “The Age of AI” YouTube TV series
- APR: Formed partnerships with OSMS and Makers Respond
- JUN: OSMS launched their guide: Home Care for COVID-19
- JUL: Global Safety Net paper published in Science Advances
- AUG: Provided PPE to election officials and volunteers through Gear Up to VoteSafe
- SEP: Finalized Utah Lake Water Quality Study Management Goals
- OCT: Commenced large volume manufacture of TrailGuard AI, and delivered to seven parks in Africa
- NOV: Presented our work on Crisis Standards of Care at the virtual Preparedness Summit
- DEC: Makers Respond delivered 115,000 face shields to healthcare workers in Maryland and Michigan
The RESOLVE Team

Staff and Program Leadership

Stephen D’Esposito, President & CEO
Abby Dilley, Vice President of Programs, Senior Mediator
Laura Bartock, Facilitator
Erin Bongard, Business Manager
Maya Breitung-Smith, Senior Mediator
Paul De Morgan, Senior Mediator
Eric Dinerstein, Program Director
Tommie-Lynne Enright, Program Associate
Sanjiv Fernando, Program Coordinator
Nathan Hahn, Conservation Technologies Consultant
Mason Hines, Mediator
Claudette Juska, Research Advisor
Sherry Kaiman, Senior Advisor
Taylor Kennedy, Senior Program Manager
Amy Larkin, Strategic Partner
Andy Lee, Research Fellow
Anthony Mansaray, DDI Sierra Leone Team
Tim Martin, Senior Advisor and Program Director
Joseph Mboka, Director of DDI Sierra Leone Team

Alidor Mwamba Ilunga, Coordinator of DDI DRC Team
Jennifer Peyser, Senior Mediator
Ian Rowe, Strategic Partner
Latha Saikrishnan, Chief Financial Officer
Richard Schroeder, Program Director
Steven Shannoh, DDI Sierra Leone Team
Michele Sofisti, Head of Global Partnerships
Carly Vynne Baker, Strategic Partner
Beth Weaver, Senior Mediator
Sophia Wilson, Program Associate

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