
Impact 20

The Jane Goodall Institute USA

Annual Report 2020

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INTRODUCTION

From Covid-19 to the Climate Crisis, 2020 presented massive challenges that tested JGI’s core philosophy—that there is always hope, and that hope has the power to transform our world for the better. And so, in the face of so much suffering, hope became—and continues to be—our “spark

“Hope reaffirmed our commitment to science in all we do, from fighting climate change to animal welfare.”

in the dark.” It illuminated the path of our work from navigating a global pandemic to protecting biodiversity to growing the next generation of compassionate citizens. Hope reaffirmed our commitment to science in all we do, from fighting climate change to animal welfare.

No one shared a message of hope more widely or more confidently than Dr. Goodall herself. Even as she remained on lockdown at her family home in Bournemouth in the south of England, she stayed connected to and inspired generations of fans and followers through becoming ‘Virtual Jane.’

In 1977, Dr. Jane Goodall founded the Jane Goodall Institute (JGI) to ensure that her vision and life’s work would advance understanding of the natural world and mobilize the collective power of individual action to create a better future for all life on Earth. Forty-three years later, as we continue to advance our JGI USA organizational strategy, in 2020, that mission was critically tested. Our fragile planet has been transformed by a global pandemic, the Climate Crisis, apathy and eco-anxiety, and growing threats to ecosystems, biodiversity, and human communities like never before.

As this report goes to press, this multi-faceted crisis persists. But JGI, Dr. Goodall, and you—our loyal donors, members, activists, citizen scientists, students, teachers, families, partners, and others—are more connected than ever. Dr. Goodall went into the forest to study the remarkable lives of chimpanzees. She came out of the forest to save them, and in the process created a global community of changemakers who share the belief that hope leads to action, and action leads to even more hope and a better world. In a year like no other, we are grateful for your role in supporting JGI’s mission and Dr. Goodall’s ongoing efforts to turn hope into action.

Note: 2020 was an unprecedented year which called for unprecedented efforts to showcase our work and impact. Thanks to the support of our donors, much of our critical programming was able to continue in 2020 and imagery demonstrating appropriate Covid-19 protocols was captured. In order to best illustrate our work however, some imagery has been taken from virtual spaces/videos which are represented with a black frame in this report, and others may span years before or after 2020.

1. NAVIGATING COVID-19

“At times like this, we see the worst and the best in human nature. Let’s all use the gift of our lives to make this world a better place.”

Dr. Jane Goodall, DBE,
Founder of the Jane Goodall Institute & UN Messenger of Peace

AS AN UNPRECEDENTED SPRING 2020 TURNED INTO AN UNPRECEDENTED YEAR, JGI FACED THE COVID-19 PANDEMIC WITH SOLIDARITY, REFLECTION, COMMUNITY, HOPE, AND ACTION.

Dr. Goodall, who previously spent upwards of 300 days a year on the road, was forced to remain at home in England. But, thanks to virtual platforms, she was able to continue building connections, increasing compassion, and sharing her message of hope. Like the rest of the world, JGI had to adapt to rapidly changing circumstances and protocols to ensure that we could continue to fulfill our mission, generate positive outcomes across our programs, and keep our staff and precious wildlife safe.

Covid-19 affected JGI operations around the world. Community engagement programs were postponed, advocacy campaigns were put on hold, and building construction stopped. At the same time, requests for emergency funding by conservation partners and sanctuaries increased. But JGI has never shied away from challenges. Together, we found a way forward through hope.



Above: Screen shot from Dr. Goodall's video speaking about our broken relationship with the natural world as the catalyst to Covid-19 pandemic.



HOPE: A LIGHT IN THE DARK

The Covid-19 coronavirus pandemic has touched everyone, having a profound impact on every aspect of our lives from our families, livelihoods, transportation, the education system, medical services, and more.

Reflecting on all that was and continues to be difficult and tragic about the pandemic, we also recognize this moment in history as an opportunity to do better and be better, individually and together. We are making sure that there is still room for hope in the midst of this crisis by finding new ways to share Dr. Goodall’s message, protect wildlife through community-led efforts, fight climate change, and demonstrate that to be human is to be compassionate. As Dr. Goodall has said, “We have the choice to use the gift of our life to make the world a better place—or not to bother.”

FACING A CRISIS WITH COMPASSION

On February 28, 2020, a case of Covid-19 was reported in Nigeria, the first recorded in Sub-Saharan Africa. We knew it was likely the disease would continue to cross borders and arrive within the Republic of Congo, where JGI’s Tchimpounga Chimpanzee Rehabilitation Center houses over 140 rescued chimpanzees, in Tanzania, home to the Gombe Stream Research Center, as well as our other essential program countries. Knowing how susceptible chimpanzees are to human respiratory viruses, and needing to ensure the safety of staff, JGI put contingencies and increased protocols into place.

The pandemic also accelerated conversations about how disease outbreaks are related to the serious threat of wildlife trafficking and deforestation. The illegal wildlife trade not only steals millions of individuals from the wild, but it also puts humans and wildlife at great risk of disease transmission. Thankfully, many countries have enacted long overdue strict bans on the consumption and sale of wild animals, with other countries expected to follow. And most importantly, a great deal of our work has always focused on a ‘One Health’ approach for disease prevention—about which we’re excited to share updates in this report. Through advocacy, proactive preparation, strict protocols, the support of our JGI Family, and teamwork, we were able to get through the worst of times and find new ways forward.



I. NAVIGATING COVID-19, CONTINUED

PROTECTING PEOPLE & WILDLIFE FROM COVID-19

As chimpanzees and humans are so closely related (we share 98.6% of our DNA), we can easily transfer coronaviruses like Covid-19. As the news broke that the virus was spreading, JGI began taking necessary precautions to help prevent both human and non-human primate transmission within Tchimpounga, Gombe Stream Research Center, and other partner sanctuaries. Keeping safe the human and non-human primate communities who depend on these sanctuaries was a top priority.

The rescued great apes living in sanctuaries across countries in Africa have already experienced a great deal of trauma as survivors of the illegal wildlife trade. Day-to-day caregiving work outside the context of a pandemic seeks to ensure that the animals live the most natural life they can in the sanctuary. Accordingly, JGI's sanctuaries had to take every measure possible to limit risk of exposure to the chimpanzees in their care, and many partner sanctuaries faced significant financial loss from the resulting necessary restrictions to close doors for visitors.

In the past 60 years, human-borne diseases have spread to fellow great apes, causing lethal outbreaks, so it was essential to act quickly and proactively. At our Tchimpounga sanctuary, we implemented multiple temperature checks, human quarantine of 14 days, extensive hygienic and sanitary practices, uniform inspections, and outreach in local communities to support necessary health procedures. At Gombe, JGI also focused field research and data collection on health monitoring, and delayed housing construction for research staff. Increased protocols also ensued for a limited staff who remained to ensure the safety of the chimpanzee population.



While staff protocols helped to protect chimpanzees and other wildlife, not being able to work would have been very harmful to the economic well-being of staff. In accordance with JGI's commitment to sustainable livelihoods, we maintained the salaries of those who were unable to perform their regular duties and to providing additional pay to the essential workers who were on-site around the clock.

Emergency funding from donors across the globe played an essential role in our efforts to continue mission-driven work as safely as possible. By November 2020, research activities had resumed with new, even more vigorous distancing guidelines, allowing our vital science to continue.



PROFILE: CHIMPANZEE SANCTUARIES

Emergency Fundraising Campaign Keeps Sanctuaries Operating

As our Tchimpounga sanctuary and partner sanctuaries like JGI South Africa's Chimp Eden as well as others, adapted to new safety protocols and changes in operation, they also experienced rising costs. Everything from increased staffing to sourcing personal protective equipment to ensuring adequate access to clean and safe food for the chimpanzees became an added logistical and financial hurdle. At the same time, revenues were dramatically reduced at partner sanctuaries due to the sharp decline in tourism.

Across countries in Africa, sanctuaries looked to JGI for help, and we answered the call. We launched an emergency fundraising campaign to ensure sanctuaries were able to continue providing the highest level of care through the pandemic and

“Every individual makes a difference. Every individual has a role to play.”

Dr. Jane Goodall

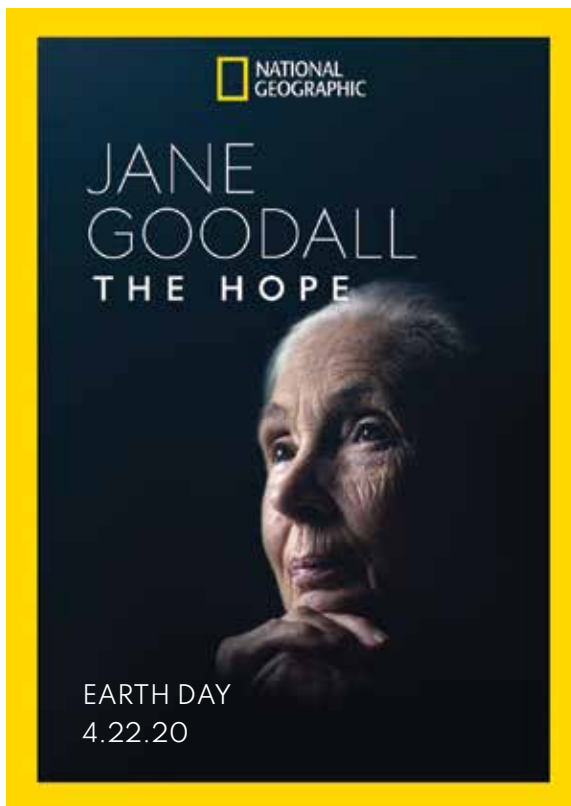
beyond. And with the generous support of JGI USA board member Reed Oppenheimer, every gift made on behalf of the campaign was matched dollar-for-dollar up to \$1 million.

When the campaign concluded in December 2020, \$2 million had been raised.

Those funds were allocated to fill funding gaps within sanctuaries according to level of need and priority according to JGI's Africa Programs strategy in early 2021. At one sanctuary, gifts were used to dig a well to improve access to clean water in the facility. Several others purchased digital X-ray machines to enable early detection of respiratory ailments. And for others, the campaign helped cover the cost of food and supplies at sanctuaries struggling to cover expenses absent the regular income of tourism fees.

These are trying times for all of us, but as Jane says, “Every individual makes a difference. Every individual has a role to play.” We are grateful for the many compassionate individuals who responded to the urgent need to help sanctuaries.

2. INSPIRING GENERATION JANE: DR. GOODALL'S LEGACY



Dr. Goodall has spent six decades transforming our understanding of the natural world and inspiring action on behalf of it. Through years of advocacy, community-building, innovative conservation programs, and a living legacy of pioneering research, she has become a global phenomenon who influences millions of people worldwide. Her message is crucial to creating positive action on behalf of environmental advocacy, compassionate and sustainable coexistence with wildlife and ecosystems, animal welfare, climate action, and more.

In addition to the work to spread Dr. Goodall's message, preserving and sharing her story for the next generation is a fundamental tenet of JGI's work. Her contributions and tangible assets—journals, research, and images—are among the most comprehensive of any public figure in modern history. JGI continues to archive and disseminate Dr. Goodall's precious living history to empower the scientific community, and inspire and activate compassionate citizens for today and tomorrow.

In 2020, she became 'Virtual Jane' and brought her message to the hearts and minds of people who needed it most via new online programs and a podcast, social media, and a documentary film. She and JGI also continued to partner on advocacy efforts, reaching out to policy makers and activists about the most pressing issues in an already challenging year.

“Together, we shall get through this really difficult time and we shall have learned what's truly important in life: family, friendship, love and above all—our health.”

Dr. Jane Goodall



BECOMING VIRTUAL JANE

Since the start of the pandemic, Dr. Goodall and JGI were motivated to bring Dr. Goodall online and into the homes of people of all ages, all around the globe. In a video message shared on her Facebook page in March 2020 (now viewed by at least two million in a single post), Dr. Goodall said, “At times like this, we see the worst and the best in human nature. Let’s all use the gift of our lives to make this world a better place. Together, we shall get through this really difficult time and we shall have learned what’s truly important in life: family, friendship, love and above all — our health.”

As another source of inspiration—a documentary film reached fans of all ages around the world. *Jane Goodall: The Hope*, which premiered on Earth Day 2020, is the story that finally explores Dr. Goodall’s vast living legacy. The film tells how she was moved to create community-led conservation programs through JGI, to improve the well-being of captive chimpanzees, to empower the next generation through Roots & Shoots, and to inspire millions to change the world for the better.

Additionally, Dr. Goodall began sharing some of her favorite books from her home in Bournemouth, England. ‘Storytime with Dr. Jane’ and ‘Jane Reads in the Shadow of Man’ became regular features across social media and dedicated webpages. With thousands of views worldwide, Dr. Goodall’s favorite stories became a reason for hope each week and will live as a precious archive for future generations.

And on top of launching a podcast, *The Hopecast*, in late 2020, Dr. Goodall shared hope online in dozens of incredible virtual events. Jane participated in a very special National Geographic event for the launch of ‘The Hope,’ the Fall Wildlife Conservation Network Expo, a live virtual reading of ‘Lion Family’ in celebration of our partnership and home goods line with Crate & Kids, the United Nations Climate Ambition Summit, The G7 Speakers Summit, several major University lectures, and featured on the *Daily Show with Trevor Noah*. Jane even shared a very special commencement address for all those students and families who weren’t able to celebrate their growth and success in person. And though the ‘Becoming Jane’ National Geographic Museum exhibit created in partnership with JGI had to close its doors, we worked to create a virtual version which continues to inspire across the internet.

Most essentially, Jane’s message of a reckoning truth that this pandemic was caused by our disconnect with nature and unsustainable global systems, resonated with audiences worldwide. This garnered media coverage including *PBS*, *The Tonight Show with Jimmy Fallon*, *The Hill*, *The Guardian*, *The NY Post*, *The Wall Street Journal*, *Medium*, *Forbes*, *CBS*, *Vogue*, *The Washington Post*, and *Scientific American*, among others. This wakeup call has already motivated people from every walk of life to forge a new future as a part of, not above, nature.

2. INSPIRING GENERATION JANE: DR. GOODALL'S LEGACY, CONTINUED

New Jane Goodall Hopecast Podcast Asks and Answers, "What is hope?"

Hope is a word that is often used in important speeches, in critical moments, in Star Wars films, and in our darkest hours. But what is hope? And what does it mean to Jane Goodall?

Dr. Goodall has lived a life propelled by hope. But it is not enough to expect something to happen, or to desire it. You must have confidence in the future, be willing to act, and trust yourself and others. That is what the Jane Goodall Hopecast, JGI's new podcast, is all about.

The series, which featured 16 episodes in the first season launched in late 2020, builds on Dr. Goodall's vision of hope turned into action. The podcast has already had nearly 300,000 downloads from over 131 countries. In the style of a fireside chat, each episode offers glimpses into Dr. Goodall's remarkable life and stories from changemaking guests like 13-year-old youth activist Genesis Butler, musician Dave Matthews, BBC News correspondent John Simpson, IUCN president Razan Al Mubarak, filmmaker and Academy Award winner Craig Foster of 'My Octopus Teacher,' and marine biologist, author, and policy expert Dr. Ayana Elizabeth Johnson.

Tune in at janegoodall.org/hopecast. You can also submit for a chance to be featured in our Mailbag episodes at janegoodall.org/hopecast-mailbag and become an Official Hopecaster at janegoodall.org/hopecaster.



Above: Hopecast guest filmmaker and Academy Award winner Craig Foster of 'My Octopus Teacher' of Episode 11: "Hope is All We Can Learn From Animal Teachers" and Dr. Ayana Elizabeth Johnson, marine biologist, author, and policy expert of Episode 15: "Hope is Courage and Taking Action Together."

At left: Hopecast guest musician and activist Dave Matthews of Episode 2: "Hope is Taking Action and Inspiring Those Around You."

2020 Advocacy Highlights



In the late 1980s, Dr. Goodall recognized that her gift for storytelling was a transformative way to inspire action. For nearly 40 years, Jane has used her voice and stories to advocate for a world in which humans, other animals, and the natural world are protected and respected. In 2020, Jane and JGI were able to move the needle on some incredible and urgent initiatives. Though there were dozens of activities, this represents just some of the best of our work from last year.

2020 was an impactful year for Dr. Goodall and JGI's Advocacy and Policy efforts. Dr. Goodall provided written testimony to the U.S. Senate Committee on Environment and Public Works as it met to discuss proposed amendments to the Endangered Species Act (ESA). "It is essential that we protect this legislation," she wrote. "Though the proposed amendments are presented by some as innovations, they will impose arbitrary state control over the careful process of listing species and critical habitats as endangered and also make it easier to delist them. This could mean that species that

are iconic to the American landscape, including the American Bald Eagle, the American Grizzly Bear, and the Florida Manatee, could be gone, truly gone, forever."

Via official testimony to the US House of Representatives and Senate, JGI joined Dr. Goodall's efforts to advocate for, protect, and enhance the Endangered Species Act by offering three main recommendations: increasing local community input and participation; advancing adaptive management measures as well as increasing cutting-edge data collection,

science, and decision-making; and improving federal and state partnerships. Through a separate effort, Dr. Goodall also made a statement protesting the delisting of gray wolves from the ESA, saying, "I have seen wolves with my own eyes in Yellowstone National Park and I have always loved them. They're an iconic species of the American landscape and they play an extremely vital role in the ecosystem where they live. How tragic if one could no longer hear the beautiful sound of their howling back and forth at night under the moon."

Media outlet The Hill featured Dr. Goodall in a live video interview with reporter Steve Clemons. Dr. Goodall expressed her hope that the Biden administration would "enforce America's position in the Paris Agreement...and make climate change a really important part of the role that his administration plays."

Additionally, the Wildlife Conservation 20 (WC20), which includes JGI, made a bold new declaration to the global leaders attending the G20 Summit. The declaration focused on increasing unified efforts and commitments to protect wildlife, especially in the wake of the Covid-19 pandemic and its relationship to wildlife trafficking.

And in 2020, JGI's Forever-Wild campaign encouraged all to #SharewithCare only #Aappropriate content to avoid perpetuating harmful portrayals of great apes and other wildlife, and to report harmful social media content.

3. BETTER SCIENCE FOR A BETTER WORLD

Below: JGI Tanzania locally elected Forest Monitor using mobile applications including Esri's Survey 123 to track and monitor forest reserve health.



JGI is a science-driven organization advancing innovative research and technology to demonstrate our true connection to the natural world, our responsibility to the other beings with whom we share this planet, and how our human intellect can solve the greatest problems of our time. Science cuts across every aspect of the organization in a systems-driven approach that tackles complex questions through the lens of the interconnection among wildlife, people, and the environment. JGI's Gombe Stream Research Center—which continues the innovative research Dr. Goodall

began decades ago—is just one example. Across our work, JGI uses cutting-edge data collection and cloud-based sharing platforms that document and combine local knowledge and values with state-of-the-art science data models and innovative research to spark new solutions and insights. In addition, the core of our conservation work supports community-led approaches and decision-making from the ground to the cloud, providing tech and tools for sustainable, holistic, and people-centered impact. Science is where we started, and it's where we're going next.

JGI SCIENCE STRATEGY

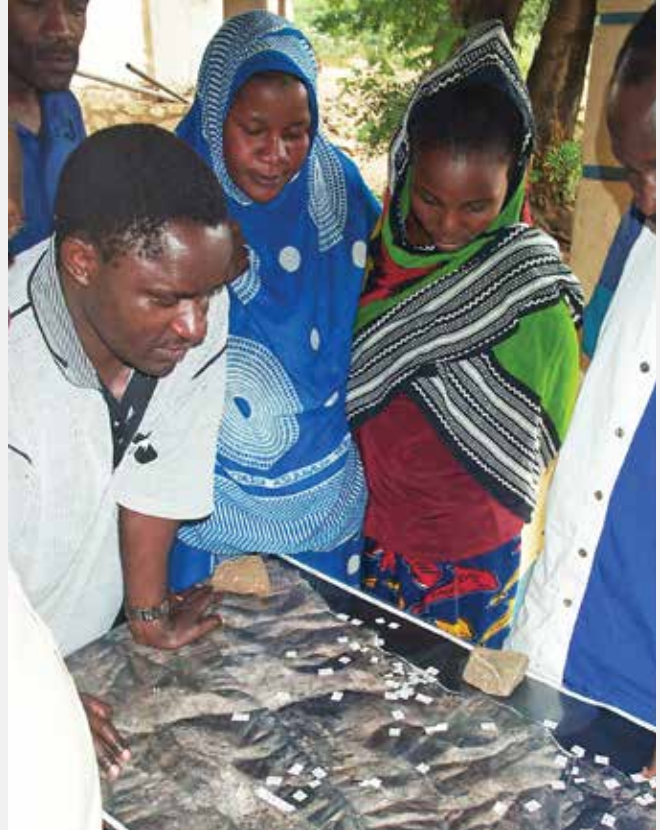
A New Strategy: JGI Science as a Cross-Cutting Institutional Pillar

Over 60 years ago, Jane Goodall advanced science through a unique combination of curiosity, focus on individuals as well as interconnections, observation, and collaboration.

This style of holistic thinking and systems through science—a result of Jane’s compassionate and forward-thinking nature—has defined the Jane Goodall Institute’s programs from the very beginning. In 2020, the work to further define, structure, and scale science throughout the entire organization came to fruition. This is being achieved through ongoing efforts to introduce a JGI Science Strategy, which is developing a common vision and tools to support all JGI programs on every level. With this strategy, we will unlock the power of data, innovative technologies and partnerships like never before.

JGI Science advances Jane’s legacy by tackling complex questions with intention through our fundamental lens. This perspective highlights the essential interconnection between other animals, people, and the environment. By focusing on long-term basic and applied research shaping impactful actions and results, our organization is one that integrates different disciplines, sectors, and ways of knowing. Our transformative systems-driven approach, realized through this strategy, helps us achieve science-based outcomes that we can put in the hands of local stakeholders and decision-makers, while also influencing the larger conservation landscape and dialogues for the better.

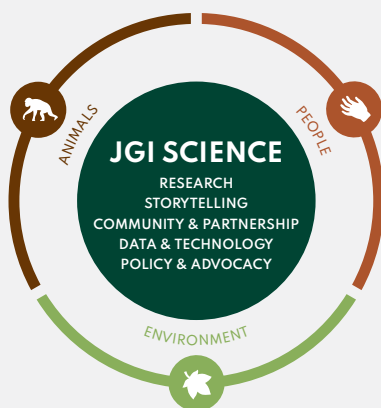
The JGI Science Strategy builds on and supports continuous development of our robust long-term data of individual behavior and socio-ecological research. This includes 65,000+ hours of data collected through observations of more than 320 chimpanzees over 60+ years. It also aims to develop an integrated JGI Science Platform and coordinated approach to collect, manage, share, and apply JGI’s data as valuable organizational assets. The JGI Science Platform builds on and expands concepts like JGI’s Decision Support System (DSS) to monitor chimpanzee habitat health, which integrates more than 30,000 Landsat satellite images. This generates actionable information to document chimpanzee habitat viability indicators using Esri’s ArcGIS platform. With over 6.2 million hectares of terrestrial and aquatic ecosystems currently under conservation management,



we integrate local and expert knowledge, satellite Earth observation data and species modelling to monitor threats, identify the most effective conservation strategies, and measure success. Through 30 years of community-led conservation through Tacare, including over 500,000 community members as our partners in science and conservation in our program countries across Africa, this work always puts people at the heart.

The work of the JGI Science strategy focuses on several cross-cutting programmatic areas including: Research, Storytelling, Community & Partnerships, Data & Technology, as well as Policy & Advocacy. By 2024, the strategy aims to: 1) Advance our understanding and monitoring of chimpanzees, habitats, threats, and conservation success using long-term research, effective technologies, and citizen science; 2) Implement a systems-based approach in pursuit of targeted, cutting-edge, research topics to accelerate conservation outcomes and maintain JGI’s global leadership on priority issues; 3) Infuse science across JGI programs as a driving force behind our outreach and partnerships, and; 4) Inspire communities with science to catalyze action through compassionate and informed decision-making.

The Jane Goodall Institute’s Science Strategy is made possible by the generosity of Jim and Nancy Demetriades.



3. BETTER SCIENCE FOR A BETTER WORLD, CONTINUED



TECH & TOOLS FOR COMMUNITY-LED CONSERVATION

JGI's community-led approach, known as Tacare, has been at the forefront of understanding the needs of local communities to collaborate and empower ownership of conservation for 30 years.

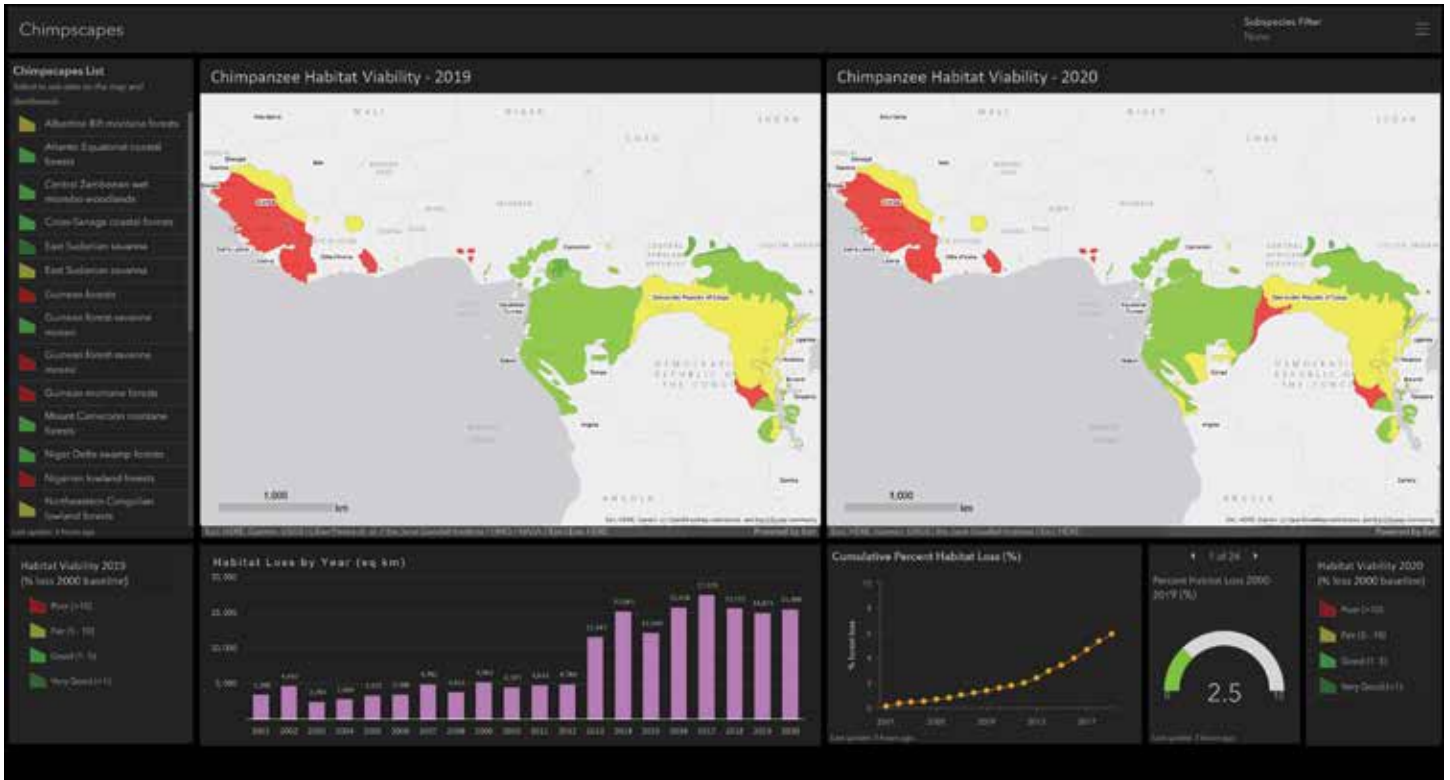
Dr. Lilian Pintea, vice president of conservation science, has been advancing this work through facilitating and leveraging innovations in technology and science to enable local communities to record their knowledge and values, expand their understanding, and develop better-informed local solutions. GeoDesign, combined with conservation planning, is an important mechanism to advance community ownership and land

tenure along with land-use strategies. By opening dialogues and using a common language provided by community mapping using high resolution satellite imagery and GIS, we can discuss threats like deforestation and its connection to increased risk of erosion and landslides. With this perspective, communities can support effective forest regeneration and prevent further erosion. If a picture speaks a thousand words, then surely a locally ground-truthed map tells an entire story. By connecting communities with this story, individuals begin to understand their own impact in real time and space, and how their actions alter their landscapes and lives.

This engenders ownership for land-use practices and fosters the insights needed for local communities to drive decisions.

In 2020, with three decades of community-led conservation success to draw from, JGI began building on the work of expanding our long-term and robust partnership with Esri to create a collection of conservation apps to scale Tacare and better support collaboration with local communities. The apps will help with four key workflows: gathering community context; mapping stakeholders; sketching community maps; and submitting user observations.

In January of 2020, JGI began open dialogues and interviews with key founders of the Tacare model to create a book—a practical reflection and guide—to the history and future of JGI's community-led approach created in partnership with Esri. This initiative was launched with a 3-day workshop in Kigoma, Tanzania, where many Tacare founders and practitioners met. In total, 29 formal interviews were conducted capturing the stories and insights of 80 community members across 7 community groups, 5 government officials and JGI staff—collectively representing Tanzania, Uganda, and the Democratic Republic of the Congo. The book is set to publish in 2022.



JGI SCIENCE PLATFORM TOOLS

DSS (Decision Support System)

The Decision Support System (DSS) is one of the tools, part of the JGI Science Platform (in development), that connects data with modelling and visualization tools such as dashboards and maps. The DSS helps to show the status and trends in chimpanzee habitat and population viability indicators each year at multiple scales, from a village forest reserve to all the chimpscapes within the entire chimpanzee range in Africa. The system integrates more than 30,000 Landsat satellite images from NASA/USGS combined with species models from the University of Maryland and generates data used to document these indicators over time. The DSS utilizes Esri's ArcGIS platform and cloud operations, to visualize this data for decision-makers using the Open

Standards for the Practice of Conservation. The result is a dashboard ranking populations and habitats with clear conditions of "Very Good," "Good," "Fair," and "Poor."

In 2020, two chimpscapes out of 24 changed their viability ranking from Fair to Poor compared to 2019. The habitat viability of the Eastern chimpanzees in Congolian Swamp Forests declined from Fair to Poor and central chimpanzees in Western Congolian Forest-Savanna mosaic declined from Good to Fair. The largest increase in habitat loss occurred in western chimpanzee chimpscapes in Guinean Forests (18.4% loss in 2019 that expanded to 20.4% cumulative loss in 2020 using 2000 baseline) and Guinean Forest-Savanna mosaic chimpscapes (2019=12.1% loss and 2020=13.5% loss using



2000 baseline). Using tools like the DSS we can work with local communities and governments to bring attention to these growing issues, and advance activities to counter growing threats. In this way,

JGI provides the visualizations that allow for efficient and timely interventions. This will continue to be central to our approach to save chimpanzees from further decline in the future.

Explore more at janegoodall.org/impact20

3. BETTER SCIENCE

FOR A BETTER WORLD, CONTINUED

CELEBRATING GOMBE 60



July 14, 1960, was the remarkable day that 26-year-old Jane Goodall first stepped foot in Gombe National Park in Tanzania to begin her groundbreaking research on wild chimpanzees. July 14, 2020, marked 60 years of tremendous insights and ongoing research—now the

longest running wild chimpanzee study in the world. The #Gombe60 campaign honored this remarkable work and emphasized creating digital interactives to bring the story and insights of Gombe, Dr. Goodall, and the Jane Goodall Institute to audiences worldwide.

To kick off interactive excitement, JGI created a microsite featuring Gombe's legacy of science, understanding of chimpanzees, major discoveries, and conservation efforts. To explore the work through immersive maps, JGI also created a storymap published in partnership with Blue Raster and Esri. The Gombe 60 storymap is filled with photos, maps, and data visualizations. These detail the complex 60-year narrative that began with Dr. Goodall's observations and subsequent on-site research into the dynamic lives of wild chimpanzees and other primates. The storymap also underscores how Dr. Goodall, JGI, and partners have been responsible for substantial advancement in a range of matters, from groundbreaking primatology findings and methodologies to the increased percentage of women in STEM (Science, Technology, Engineering, Math) fields.

Explore more at janegoodall.org/gombe60.



Above: Screenshot from Gombe 60 Storymap

GOMBE 60 LIVE

Among the first people to greet Jane Goodall and her mother Vanne—who was serving as chaperone—when they stepped off the boat in Gombe was very young Jumanne Kikwale. Following in his father's footsteps, Jumanne served as a field assistant and eventually administrator of Gombe Stream Research Center. He celebrated his retirement in 2019 even though he continues to champion JGI's chimpanzee conservation efforts and Roots & Shoots to this day. Kikwale was one of several special guests who participated in "Gombe 60 Live with Dr. Jane Goodall" on the 60th anniversary. The live Facebook event was hosted by Guy Kawasaki and featured Harvard Professor of Biological Anthropology Dr. Richard Wrangham, GSRC Director of Baboon Research Dr. Anthony Collins, JGI Vice President of Conservation Science Dr. Lilian Pintea, and JGI Tanzania Director of Conservation Sciences Dr. Shadrach Kamenya. During the event, Dr. Goodall and staff reflected on some of the most fulfilling and stunning insights from the last 60 years. They also focused on what this place of science has personally meant to each of the participants, shaping friendships and careers, and to the world. Dr. Goodall joined Kawasaki once again in November to honor the anniversary of her famed observation of chimpanzee tool-use; the remarkable finding that forever redefined what it means to be human.

GOMBE RESEARCH HIGHLIGHTS

Gombe Today: Understanding Our Closest Living Relatives

Research activities, like other aspects of life, were not spared by the Covid-19 pandemic. In March 2020, Gombe Stream Research Center had to limit research in order to ensure the safety of staff and wildlife alike. Unfortunately, as the Gombe team was also dealing with a separate respiratory disease outbreak from earlier in 2020, some staff remained under strict protocol to monitor their recovery. In April, JGI conducted a series of meetings with park management and JGI Tanzania, continuously updating our Covid-19 guidelines. It was decided that long-term data collection protocols such as B-record follows would resume, but only with essential staff to continue prioritizing the health of all. In November, we were able to restore research activities by implementing strict testing and safety protocols to ensure the prevention of Covid-19 spread.

Research Highlights

Despite Covid-19 delays, nonetheless, there were 30 contributions to scientific publications in 2020 sharing Gombe insights, along with dozens of observations covering several ongoing studies in the Park. Gombe has three communities: Mitumba, Kasekela, and Kalande. For the last 60 years, JGI has been doing daily target follows of various chimpanzees on alternating days in the forest (known as the B-record).

The B-record has continued unbroken since Dr. Goodall first began her research, which is now the longest continuous chimpanzee study in the world. In addition, Gombe Stream Research Center (GSRC) researchers and our academic partners are conducting studies on the settlement patterns of young chimpanzee females and chimpanzee vocalization in



Above: Image of baby Goodali, infant child of Gremlin matriarch of the 'G Family' of Gombe chimpanzees.

both central communities. Additionally, studies on Mothers and Infants provide a greater sense of how this important bond shapes successful adults. Like the B-record, it was started by Dr. Goodall herself, and the subsequent longitudinal data is an unparalleled resource for scientists the world over. This research has contributed to tremendous insights, particularly the unique behaviors of Gombe female chimpanzees. Female chimpanzees normally leave their mother's community when they reach reproductive age at around 12 years old. However, Gombe is unusual in that only 50% of the females leave. One publication out of Duke University in early 2020 concluded that, "Female Chimpanzees with Powerful Moms are Less Likely to Leave Home." Research on this behavior is ongoing and could have great implications for our understanding of the different factors that influence female immigration patterns.

30

published pieces by researchers in 2020

300+

science publications from Gombe since 1960

828

focal follows of individual chimpanzees in 2020

1 Baboon Twin Birth

in 2020. Of 1,200 baboon births documented, there was only one other pair of twins in 1980

Insights on Chimpanzee Populations

As ongoing studies help expand our understanding of chimpanzee behavior, GSRC (in collaboration with JGI USA science team) also led a massive three-month chimpanzee survey on the Gombe-Masito-Ugalla (GMU) ecosystem, a vast area south of the Malagarasi river (30,000 km²), which holds the majority of Tanzania's chimpanzees. Surveys were run at 25 different sites, and data points were logged using Esri's Survey 123

mobile app on smartphones. This was uploaded into JGI's ArcGIS Online account for analysis, collaboration, and sharing with decision-makers. Using distance survey methods and observations like chimpanzee nests, the population size was estimated to be over 700 individuals. According to a 2018 survey, this reflects a stable chimpanzee population, which is wonderful news for Tanzania's chimpanzees and our efforts in the region.

4. PROTECTING BIODIVERSITY THROUGH COMMUNITY-LED CONSERVATION



Dr. Goodall has always espoused that efforts to conserve chimpanzees, other essential species, and their habitats

must happen in collaboration with local people as empowered leaders and stewards. Chimpanzees across the chimpanzee range are threatened primarily by habitat loss, disease, and illegal wildlife trade. For the last 30 years, JGI has been a pioneer of community-led conservation, also known as Tacare, which focuses on addressing drivers of threats that serve as challenges for both humans and wildlife. This means focusing on many of the inequities in these regions, and empowering communities to be conservation decision-makers for the improved well-being of humans, wildlife, and ecosystems alike.

Community-led conservation looked a bit different in 2020, but it was no less successful. In Tanzania, Republic of the Congo, Uganda, and other program countries, JGI worked with NGOs, local governments, and individuals to expand and operationalize our efforts to build a better world for people, other animals, and their shared environment.

31%

of leadership roles within target community institutions are occupied by women

127,769

individuals reached through JGI programs

\$1,513,031

generated from sustainable alternative livelihoods adopted by target communities

2,300

girls reached through JGI interventions, completing primary and secondary school in targeted communities

Tanzania



Research Helps Protect Habitats and Support Communities in Tanzania

In 2020, JGI completed one of its largest socio-economic baseline research studies to support its USAID-funded Landscape Conservation in Western Tanzania (LCWT) program. The study, which focused on the Gombe-Masito-Ugalla (GMU) landscape, investigated ways to protect habitats while supporting human communities.

Systemic poverty, limited educational opportunities, and poor infrastructure are barriers for all members of the community to play an active role in natural resource management, and according to the report, women must overcome many more obstacles than men. However, several important opportunities emerged. Ninety percent of those surveyed said they would feel badly if the forest disappeared, and many of those surveyed were aware of more sustainable actions such as regulating tree cutting, banning charcoal burning, guarding the forest, and collecting only dry firewood. Most individuals understood the benefits of land-use planning, and roughly half had some knowledge of family planning and approved of its use.

With these findings, LCWT can better advance sustainable livelihood support, trainings, and campaigns to best serve the needs of local communities while advancing conservation goals.



SENEGAL
MALI
GUINEA
LIBERIA

Wild Meat Hunting Alternative Livelihoods in DRC
As women play a powerful role in market direction of hunted meat consumption, JGI conducted a pilot project led by women to support alternative livelihoods.

Socio-Economic Baseline Study in Tanzania
Understanding the needs and challenges of local people creates strong, long-term partnerships to advance sustainable development and protect ecosystems.

CAMEROON

DEMOCRATIC
REPUBLIC
OF THE CONGO

UGANDA

GABON

REPUBLIC
OF THE CONGO

Tchimpounga
Chimpanzee
Rehabilitation Center

BURUNDI

Gombe Stream
Research Center

TANZANIA

ACROSS THE CHIMPANZEE RANGE,
JGI IS MAKING A DIFFERENCE;
HERE ARE SOME HIGHLIGHTS.



4. PROTECTING BIODIVERSITY THROUGH COMMUNITY-LED CONSERVATION, CONTINUED

Tanzania



Scholarships Secure Success for the Future

Worldwide, gender-based educational gaps in countries like Tanzania are typically caused by financial or other social barriers, including poverty and lack of reproductive healthcare access. When girls are given access to education, the whole community benefits for years to come and conservation threats are diminished. That's why JGI has been providing scholarships to girls in Tanzania since 1998.

In 2020, the Girls Scholarship Program sponsored 40 scholarships for high-achieving young women and girls attending secondary and post-secondary academic programs. JGI visited 15 schools last year to monitor and evaluate student performance, see their accommodations, and discuss any challenges that the girls might face. JGI also brought

the girls together for a coordination meeting focused on Covid-19 safety measures and facilitated a study tour to Katavi National Park to learn about the environment and conservation.

Over the last 20 years, JGI has provided hundreds of scholarships which have shaped a new dawn of success for a generation of Tanzanian women and girls. With generous support from the Stadler Family, JGI expanded this work and created the Roots & Shoots Zanzibar Scholarship Program in 2019, which includes young men and women. In 2020, 25 talented and gifted Roots & Shoots youth in Zanzibar were given scholarships.

40

scholarships for high-achieving young women and girls attending secondary and post-secondary academic programs

25

talented and gifted Roots & Shoots youth in Tanzania were given scholarships in 2020

20+

years JGI has provided scholarships which have shaped success for a generation of Tanzanian women and girls



SUCCESS STORY

Microcredit Programs Empower and Improve Women's Well-being

Kisiza Mzee Ibrahim is a 48-year-old single mother of two and a resident of Kalalangabo village in western Tanzania. She is also a volunteer community health worker (CHW) with LCWT. Like many in Kalalangabo, Ibrahim is a fishmonger at the village market. Fish sellers often struggle during low catch seasons and face financial difficulties due to lack of sustainable financing mechanisms for their businesses.

In Western Tanzania, JGI has been using microcredit COCOBA (community conservation banking) groups for several years to support community credit systems that invest in sustainable alternative livelihoods. With the help of a JGI-initiated COCOBA group, Ibrahim was able to save TZS 2,500 on a weekly basis and receive business training from LCWT. Before long, she repaid a loan and expanded her capital to TZS 300,000. Other villagers look to Ibrahim as a strong, capable woman who built her own house while supporting her child's education. In addition to the COCOBA group, she attributes her success to family planning.

As a CHW, she is a trusted source in the village for family planning education, counselling, services, and referrals. She is often called on to respond to misconceptions and myths about family planning and is a valuable mentor for young women in the community. With firsthand experience of the benefits of business investment and family planning, she shares her story and success, inspiring others along the way.

Microcredit Program Successes:

285

groups in Western Tanzania

69%

of members are women

6,025

members

\$72,431

(Ths 167,966,792/=)
in savings



Tanzania



Compost Training Builds Farmers' Ability to Improve Soil and Protect Habitats

Deforestation for agriculture is the biggest threat to chimpanzee habitat in the western Tanzanian landscape. Through the USAID-funded Landscape Conservation in Western Tanzania project (LCWT), JGI focuses on finding sustainable alternatives to agricultural forest-clearing for farmers. Riverine forests in the region are a critical habitat for chimpanzees, other biodiversity, and healthy watersheds. Since low soil fertility is one of the key drivers of agricultural incursions into riverine forests, composting was identified as an appropriate way to build soil health in plots outside of forested areas at low cost.

In fall 2020, JGI offered a compost training that emphasized lessons on soil fertility and how it relates to farm yield; best agricultural practices; controlling pests and disease; the benefits of riverine forests; and the process of making and applying compost. Over three days, 165 farmers were trained in three pilot villages, culminating in the farmers working together to create a functional compost pile.

Since compost takes time to produce, the project further motivated the farmers by distributing ready-made compost. The farmers saw first-hand that crops receiving compost looked significantly better. "The plot with compost is doing great," said Moses Mashishanga, a pilot farmer. "The advice given by agricultural experts will give me good yields this year."

This work is part of a larger innovative LCWT Behavior Change Campaign (BCC) that kicked off in 2021. Through the BCC, a complete environmental behavior change approach will be implemented based on community surveys and collaboration to advance composting, improved farmer yield, and ecosystem protection in the region.

4. PROTECTING BIODIVERSITY THROUGH COMMUNITY-LED CONSERVATION, CONTINUED

Democratic Republic of the Congo



Women in DRC Come Together to Innovate Alternatives to Selling Wild Meat

The Democratic Republic of the Congo is a biodiversity hotspot which contains an essential population of chimpanzees and critically endangered Grauer's gorillas. JGI is the co-coordinator of the Eastern DRC Conservation Action Plan and has been driving collaborative action towards shared goals alongside participating NGOs, government officials, and community members for years. As part of the work to combat illegal wildlife trade, particularly great ape hunting, this group focuses on behavior change to better understand the drivers of this threat and potential alternatives.

In 2020, research revealed that women are the primary sellers and traders of hunted wild fauna, that this work is difficult, and that the main decision to participate is influenced by lack of livelihood alternatives.

Because it was found that women play a powerful role in influencing market direction of wild meat consumption, JGI conducted a pilot project that focused on organized women's groups in three communities. Known as "Amka kwa mabadiliko," or "Wake up to change" in Kiswahili, the project attempts to increase governance capacities and develop alternative livelihoods through women's collectives where the main livelihood is the selling of hunted wild fauna. These alternative livelihoods are discussed through, chosen by, and specific to each community. Some of the best outcomes have been increasing positive attitudes demonstrated by participating members.



“The empowerment of our women’s group is for me a very positive result as we come together and decide as a team for the implementation of our community project.”

EDRC Women’s Collective Participant



Uganda



Human-Wildlife Conflict Resilience Fund Model

In many areas across the chimpanzee range, human interactions with wildlife are growing because of forest clearing for agriculture, firewood, and other livelihood products. With the higher incidence of human-wildlife conflict (HWC), particularly in countries like Uganda, humans and wildlife are at odds and at great risk of causing each other profound harm. This not only leads to retaliatory killings by humans, but also further forest removal as an effort to push back wildlife from populated areas.

A lack of policy to offer compensation is one of the greatest causes of discontent amongst communities. To protect wildlife and human communities, JGI developed a resilience fund model in Uganda, which provides a great opportunity to foster coexistence and incentivize conservation. The JGI Uganda model is a community-based resilience fund operated at the local level with support from stakeholders and partners. JGI also offers awareness programs for the sustainable management of natural resources while establishing a community-based forest monitoring system using Esri's Survey 123 and other mobile and mapping technologies to cover HWC issues.

As of 2020, JGI's parish level community-based resilience fund is operational, and the awareness programs have reached more than 75% of HWC vulnerable groups. Based on this and other measures of success, the Ugandan Wildlife Authority are reviewing the opportunity to scale it up.

Liberia



Building a Safe Haven for Chimpanzees in Liberia

Liberia is home to over 7,000 western chimpanzees, and thus an essential region for species conservation. It is also home to threats like illegal wildlife hunting, logging, and mining. Our goal is to collaborate with key partners to reduce chimpanzee extinction risk across Liberia by 2030. In 2020, with the support of the JP Fletcher Fund and others, JGI sent an independent consultant and captive chimpanzee care expert Deborah Cox to Liberia for seven months to supply logistical and technical support to the Liberia Chimpanzee Rescue & Protection (LCRP) for the establishment of a 'gold standard' sanctuary for orphaned chimpanzees. Cox assisted the LCRP leadership team—including founders Jenny & Jim Desmond—through the first phase of the sanctuary's construction. This building is critical to the effectiveness of safe captive management of chimpanzees, ensuring both the welfare needs of the chimpanzees and the safety of the staff and surrounding communities.

As of October 2020, eight out of nine of the structures planned to be completed were expected to be operational before 2021. This facility is a crucial part of efforts in the region to advance JGI's Triangle Approach, which involves three cornerstone efforts to end illegal trade and hunting. This includes best in class sanctuary care, environmental education and public awareness, and successful collaboration with local law enforcement. The future of chimpanzees in Liberia looks a bit brighter thanks to these efforts.



Above: Rescued chimpanzee living at Liberia Chimpanzee Rescue & Protection.

4. PROTECTING BIODIVERSITY THROUGH COMMUNITY-LED CONSERVATION, CONTINUED

Guinea



Biomonitoring Program in Guinea Finds New Insights and Impact

Guinea hosts the largest population of West African chimpanzee subspecies in the world. It also hosts some of the most interesting and promising arenas for species coexistence. In 2019, JGI's Great Ape Conservation Director Dr. Marc Fourrier, and the JGI Spain/Senegal Research team developed a protocol on sampling design, data collection methodology, and data management for a biomonitoring program in three pilot sites for the Chimpanzee Coexistence Project in the Fouta Djallon, Guinea (funded by Biotope and Arcus Foundation as well as JGI USA). The project aims to better understand human-wildlife interactions and advance sustainable agroforestry and natural resource management practices, particularly in important chimpanzee sites in the northern mountains.

Over five months, JGI staff worked to collaborate on the protocol and the best methodology for the biomonitoring project. As of 2020, the monitoring teams began implementing the protocol in three key chimpanzee/coexistence sites. To advance this work, JGI conducted a training for 12 community monitors to implement the sampling protocol, and these newly trained technicians collected data on chimpanzee presence in the three sites for nearly two months before the project had to shut down temporarily during the pandemic. Integrating our science and technology framework, data is collected via mobile phones that systematize the information which can then be entered into a cloud-based platform, for analysis and management. These important efforts aim to resume in 2021.

Burundi



Advancing Conservation and Collaboration in Burundi

Over 90% of the Burundian population is directly dependent on natural resources, especially among the rural population. Unfortunately, there are numerous pressures and direct threats to forests, protected areas, and biodiversity. These threats put the Batwa people who depend on the forest in conflict with the chimpanzees who live there.

In 2020, JGI continued to support the local NGO Conservation and Community of Change (3C) to implement the "Project for Rescue of Chimpanzees and their Habitats and Promotion of Community Conservation." Through this project, JGI provided school supplies to 50 Batwa children, six rainwater tanks for handwashing to schools, and three tree nurseries to local nature reserves. Additionally, in the vicinities around the reserves, environmental education activities helped raise awareness among officials to encourage them to continue supporting the protection of chimpanzees and their habitat, including demarcating boundaries of protected landscapes.



5. FIGHTING CLIMATE CHANGE AND RESTORING HABITATS



The climate crisis is the greatest existential threat of our time. Many communities and ecosystems are seeing increasing flooding, heat stress, water scarcity, extreme and destructive weather patterns, rising sea levels, and drought, which is causing suffering for humans and wildlife alike. Additionally, economic, gender, and racial inequities put marginalized communities at disproportionate risk as we face the worst of climate impacts.

At JGI, we focus particularly on deforestation and habitat loss which also serves as a great solution—the restoration and regeneration of forests. We are also monitoring landscapes, from space and in the field, assessing potential climate change effects on natural systems, and using these insights to inform interventions that will ensure a sustainable future for all. Local community and larger strategic partnerships, inspiring individual and collective action, and advancing climate justice all play an important role in JGI’s conservation efforts.

359

individuals (e.g., rangers, forest monitors, eco-guards, forest guards) reached through training for improved protection and/or management of community conservation areas (disaggregated by gender)

5,894,693

hectares of chimpanzee habitat under management for conservation



FOREST RESTORATION AND REGENERATION

At the 2020 World Economic Forum, Dr. Goodall announced her commitment to the Trillion Tree campaign of UNEP (United Nations Environment Programme) of contributing five million trees (by protection, planting, and/or restoration) through JGI and partnerships.

Preventing the continued loss and degradation of forests and supporting sustainable and appropriate restoration could contribute to one-third of total climate change mitigation needed by 2030. Restoring just 350 million hectares of forest could potentially offset 1.7 gigatons of carbon dioxide equivalent annually (IUCN). By the campaign’s estimations, an area totaling the size of the United States could be reforested.

Planting enough trees to restore habitats and remove carbon dioxide from the atmosphere is no small task, but in 2020, Dr. Goodall and JGI committed to doing just that. From local communities leading in efforts to plant and save millions of trees in Uganda to Forest Monitors restoring woodlands in their villages in Tanzania, we are making meaningful strides in enabling local communities to lead on fighting climate change and preserving fragile ecosystems in the process.

SUCCESS STORY



Mr. Mujuni Godfrey Plants Seeds of Hope

The JGI team in Uganda has distributed thousands of indigenous seedlings to local farmers and Private Forest Owners (PFOs) at the household level seasonally as part of our efforts to restore and protect forests in important conservation regions. In 2020, community members in 10 areas of Hoima and Kikuube district were successfully mobilized through awareness meetings and were trained in tree nursery protocols and management to raise native seedlings of their choosing. The implemented restoration project activities have already grown remarkable change.

Mr. Mujuni Godfrey from Katanga region, for example, is now a model native tree farmer who has planted more than 10,000 tree seedlings in one year. Godfrey is not only able to grow these seedlings as part of income generation but is now also part of a movement to restore ecosystems in Uganda. Together, we're creating an ascending JGI family tree of increased human well-being, which is sprouting conservation and climate impact.

IMPACT PARTNERSHIPS

Climate Change Resilience & Monitoring in Western Tanzania

The Landscape Conservation in Western Tanzania (LCWT) initiative is a USAID-funded program that works to expand Tacare, JGI's community-led conservation approach. Among LCWT's goals is integrating climate change knowledge through community meetings, training sessions, radio programs, and workshops. As of last summer, those efforts had reached more than 1,600 community members who are engaged in livelihood activities that improve resilience to climate change, such as tree planting, beekeeping, mushroom collection and sales, food vending, as well as grain processing and selling flour. Such activities reduce pressure on forests by helping the community become less reliant on making and selling charcoal.

In addition, a partnership with the Tanzania Meteorological Authority (TMA) has been developed to allow LCWT to place automatic weather stations (AWS) in the landscape to support climate change monitoring. To comply with Tanzania's laws, JGI worked with the TMA to ensure mutual agreements for the data. This ensures strategic installation and long-term maintenance, as well as embedding the AWS into the ecosystem of weather stations and reporting systems. This effort to collect long-term data is essential for climate change analysis and adaptation in the region.

5. FIGHTING CLIMATE CHANGE AND RESTORING HABITATS, CONTINUED

SUCCESS STORY



Local Forest Management Grows Hope in Tanzania

The Landscape Conservation in Western Tanzania (LCWT) USAID-funded project provides regular support for natural resource management capacity-building in the landscape. Patrols in Tongwe East and Tongwe West Local Authority Forest Reserves in Tanganyika District have begun contributing to minimizing the threats to habitats and wildlife. These developments are positive signs to reduce the rate of chimpanzee habitat loss and for habitat restoration and forest regeneration.

Tanganyika District Natural Resources Officer Bruno Nicholas reported that LCWT-funded joint patrols conducted by community elected forest monitors were able to penetrate deep into the forest reserves to monitor developments of forest resources and arrest perpetrators. He said, “We are seeing forest regeneration in the areas where people used to conduct illegal logging.

The canopy cover is improving, and we are seeing the return of animals such as wild dogs, buffaloes, elephants, chimpanzees, and red-colobus monkeys.”

Tanganyika District Council Executive Director Romuli John cited two factors that have contributed to the success of effective efforts protecting the forests: first, the support of USAID funding through JGI; and second, increased support of the LCWT to the joint patrols of both forests.

LCWT-funded security patrols in Tongwe East and Tongwe West Local Authority Reserves have resulted in the confiscation of 1,758 snares in July 2020. Some of the revenue accrued from patrols have been allocated to the construction of Ikola District Hospital and Kasekese Health Centre, both in Tanganyika District.



YOUTH PLANT THE SEEDS OF THE FUTURE



Roots & Shoots, JGI's global youth program, also plays an important role in restoring and protecting forests. In 2020, Roots & Shoots youth and partners from over 50 countries around the world helped the Trillion Trees campaign move closer to its goal. The first Roots & Shoots USA Project-in-a-Box, 'I Dream of Green,' launched in Fall 2020, provides guidance for youth to learn how to make a difference by greening their communities. Globally, hundreds of thousands of native trees have been planted, particularly in Tanzania where Roots & Shoots was born.

With these efforts and our community-led conservation work—which has long prioritized forest monitoring and management, land use planning using geospatial data, and technologies to further these initiatives—Dr. Goodall and JGI hope to give global forests, and our planet as we know it, a fighting chance.

800,000+

trees planted by Roots & Shoots groups in Tanzania

5. FIGHTING CLIMATE CHANGE AND RESTORING HABITATS, CONTINUED

IMPACT PARTNERSHIPS

JGI Partners with One Tree Planted in Uganda

Partnerships are vital to the success of our ambitious goals. Towards this end, three million of five million trees will be planted, protected, or restored in collaboration with One Tree Planted through the Uganda Wildlife Habitat & Corridor Restoration Project. The effort, which launched in 2020, will support long-term and large-scale restoration of the forests across western Uganda that make up the Albertine Rift—one of the most diverse terrestrial ecoregions in Africa. Using Tacare, JGI’s community-led conservation approach, the project will restore degraded areas, promote agroforestry practices, and strengthen forest monitoring and law enforcement. It will also continue to support over 3,500 households in sustainable livelihoods, fuel-efficient stoves, improved agricultural practices, community-managed enterprises and microcredit programs. This effort includes the establishment of more collaborative forest management (CFM) groups to monitor forests and protect watersheds. Already, approximately one million native trees are being planted and/or protected and restored each year through this work and other partnerships in Uganda.



“The forest is for me a temple—a cathedral of tree canopies and dancing light.”

Dr. Jane Goodall



1M+

native trees planted, protected, or restored per year through partnerships in Uganda



6. GROWING THE NEXT GENERATION OF COMPASSIONATE CITIZENS



To become agents of change, young people need support, skills, connection with their peers, and a sense of agency. Roots & Shoots, JGI's youth program, is a grassroots movement that empowers young people through best practices in service learning and humane education to create local impact. Today, in over 50 countries worldwide and all 50 states, hundreds of thousands of youth complete community projects related to social justice, pollution, climate change, wildlife conservation, animal welfare, and other pressing issues that matter most to them. Recognized by the World Health Organization and the United Nations as an innovative and effective youth program, Roots & Shoots gives everyone a way to make a difference.

Roots & Shoots USA 2020

1,644

new members registered online

11,500+

new young people helped to develop compassionate traits

3,609

1-Click Actions completed

Youth Making Change Despite Covid-19 Challenges

As Roots & Shoots adapted to operating in a pandemic, the program created new opportunities including a family toolkit, learn-at-home guides, Covid-friendly project ideas, and adaptations for social distancing. Those efforts to overcome pandemic obstacles and a newly designed website helped thousands of young people to make positive change in 2020. It also helped Roots & Shoots distribute nearly 160 project grants totaling almost \$33,000 in support, with 56 percent of grants going to Title I schools.

“I do have reasons for hope...Above all, the commitment of young people when they're empowered to take action.”

Dr. Jane Goodall



At left: Roots & Shoots project Neighborhood Trash Clean Up

Below: Roots & Shoots project Harkness Park Restoration



And while many young people felt alone, we made sure to grow our community of connection exposing 9.5 million people to ways to join the Roots & Shoots program. Some notable examples include our Earth Day PSAs with *Cartoon Network* and the Big Green Draw with the Walt Disney Family Museum. We also worked with the Born this Way Foundation, Unicef, Best Friends Animal Society, Microsoft, HP, Trillion Trees, Global Landscapes Forum, and many more! Our work collaborating with companies and media like Crate & Barrel, National Geographic, and *The Tonight Show with Jimmy Fallon* increased Roots & Shoots program exposure and brought impactful service-learning and ways to take action to young people across the country.

Roots & Shoots USA 2020

50,000+

people reached with Dr. Goodall's message of hope, and inspired through shared stories of action

528

New community action projects started by young people

4,385

individuals signed up for Roots & Shoots Challenges

6. GROWING THE NEXT GENERATION OF COMPASSIONATE CITIZENS, CONTINUED

ROOTS & SHOOTS GOES VIRTUAL

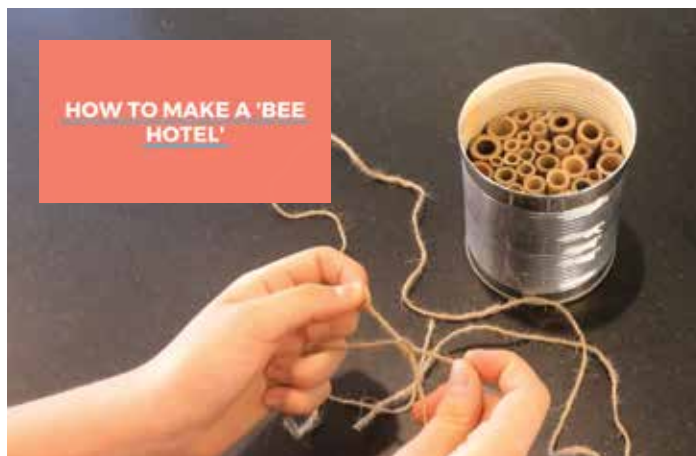
There's no question that 2020 was difficult for educators and learners alike. Through creative efforts by Roots & Shoots to support at-home learning and action, our Roots & Shoots members adapted beautifully in this unprecedented time. In spring 2020, Roots & Shoots launched Learn At-Home guides that provided weekly schedules and creative lesson plans for teachers, parents, and students. To support their peers through quarantine, Roots & Shoots youth leaders also made videos to guide people through easy and fun at-home activities including pressing flowers, making a bee hotel, and preparing healthy meals.

As more and more people focused on getting outdoors, we also provided our first 'Project-in-a-Box' guide called "I Dream of Green," which emphasized ways for young people to green their communities and our world. Most excitingly, we also launched the all-new quarantine friendly Roots & Shoots Family Toolkit to give youth, educators, and parents an all-encompassing guide that provides direction to create meaningful community projects through our 4-Step Formula.

And while we all faced the isolation of the pandemic, the Roots & Shoots National Youth Leadership Council (NYLC) stepped up more than ever before—virtually! During the first ever virtual National Youth Leadership Summit, the RSNYLC reached over 1,500 people during the live event, leading to a historic number of sign-ups to join.

Roots & Shoots 4-Step Formula:

1. Get Engaged
2. Observe
3. Take Action
4. Celebrate



BUZZING ABOUT SEVEN-YEAR-OLD SERAPHINA'S BEE SANCTUARIES

At just five years old, Seraphina read “I Am Jane Goodall” by Brad Meltzer. She immediately wanted to become a member of Roots & Shoots in order to #BeLikeJane. Using Roots & Shoots tools and resources like the 4-Step Formula to create and implement a community project, Seraphina was able to: Step 1) Get inspired (by Dr. Jane), Step 2) Observe her community to find out how to best accomplish her goal and, Step 3) Take Action! She decided she wanted to create a small pollinator garden in her own backyard to support local bee populations. Soon after, her work spread and she became known as a bee advocate in her Georgia community, sharing her passion and knowledge with neighbors and friends—even helping them create their own bee sanctuaries.

In 2020, Seraphina took her pollinator journey a step further and joined the Roots & Shoots contributions to the Trillion Trees Campaign after a hurricane uprooted many of the native trees in her community. She took advantage of outdoor spaces to plant native pollinator trees everywhere she could. Despite the barriers of the pandemic, she was able to provide “pollinator paradises” for seven homes and continue efforts to educate community members about bee conservation. She has used her social media platform to amplify this message and was even an Earth Day guest speaker for first and second graders using Google Classroom. Step 4 of the 4-Step Formula is to celebrate and reflect on your impact, which Seraphina did by thinking about how incredible it was to listen to the needs of her local community and inspire positive change.



“It’s very simple to find a need in any area in something that you are interested in so don’t be afraid to start a project. A Roots & Shoots project can be something small like Seraphina’s original bee sanctuary and still create an impact in your community.”



PROFILE: ROCKY HILL TRAILBLAZERS

Revitalizing a Nature Trail

Meyrav Revivo of the UC Davis Sustainable Environmental Design Roots & Shoots group has been a member of Roots & Shoots for seven years and in 2020 used the new website to report on and grow their community project. The REACH Youth Coalition of Vacaville, California, pushed their city council to prioritize the revitalization of a nature trail that students use to get to and from

school. When the students needed help preparing the site renderings, Meyrav’s Roots & Shoots group decided to step in. In 2020, they began by conducting interviews with community members who are invested in the trail to understand their needs. They discovered that the main needs include lighting, trash cans, vegetation, and more community buy-in to keep the trail a priority for city

council. Through these conversations, they learned there is a lot of interest in an old community garden space at the trailhead, and Meyrav plans to use this as the next step in gaining community buy-in. This Roots & Shoots group is currently working on site renderings and looks forward to where the trail leads next.

6. GROWING THE NEXT GENERATION OF COMPASSIONATE CITIZENS, CONTINUED

PROFILE: CLIMATE CHANGE CHAMPIONS

A Passion for Addressing Climate Change

The new Roots & Shoots website makes it possible for users to create, join, and search for groups, and become virtual collaborators. The Climate Change Champions Roots & Shoots Group evolved through these new interactive features on the website. When a young Roots & Shoots member discovered an inspiring project in our database, she reached out to that project's creator. Even though the two activists live in distant parts of the country, they discovered they had many similar interests, including their main passion: addressing climate change. Together, they created a public Roots & Shoots group to connect with others who were just as passionate about climate change as they are. Today, this entirely virtual Roots & Shoots group has grown to over 76 members from across the U.S. who are participating in monthly challenges and Roots & Shoots projects.

SOCIAL EQUITY TOOLS & LEARNING

Solidarity and Action

In 2020, society grappled with a powerful increased recognition of and demand for accountability around the inequities that have long shaped hardships for people, other animals, and the planet we share. To support and affirm the Roots & Shoots community during conversations about racial injustices and their connection to environmental action, Roots & Shoots provided a number of resources including a 1-Click Action which serves as a starting point for greater understanding of systemic racism, an Anti-Racist Reading List (created by former RSNYLC member René Jameson), Roots & Shoots project examples for how to join and lead conversations that empower compassionate action, as well as curated resources from leaders in the social and environmental justice spaces.

AWARDS AND RECOGNITION

Roots & Shoots USA Website Wins Gold

Early 2020 brought an exciting development for the Roots & Shoots community—the full launch of the new rootsandshoots.org website supported by the Fund II Foundation. Through the new site, Roots & Shoots members can create member profiles, connect with one another, and explore, create, and join community projects and groups. Using more streamlined visuals and powerful storytelling, the website reflects the Roots & Shoots program itself: a place where everyone can feel welcome and make a difference.

In October, Roots & Shoots USA and Taoti Creative, a DC-based full-service creative agency, won the Gold W3 Award in the nonprofit category for the new website. The award underscores rootsandshoots.org as being insightful and helpful for youth as well as for educators, parents, adult mentors, and those supporting young changemakers in any space.





6. GROWING THE NEXT GENERATION OF COMPASSIONATE CITIZENS, CONTINUED

SUCCESS STORY

Roots & Shoots Makes a Lifelong Impression

A former Roots & Shoots youth participant, Hon. Swaleh Mhando is the current District Commissioner for Tanganyika District in Tanzania's Katavi Region. Through his time with Roots & Shoots, he has been guided by the program's values to protect the environment, other animals, and communities. "Trees are a treasure to our life. They regulate the climate and provide us with fresh air," says Mhando. "If you happen to visit a place where we are building new offices," he says, "you will witness that we have kept trees intact, especially in the areas where the site plan

doesn't provide for the construction of any building. Unlike other towns where the rising temperatures have become a challenge due to global warming, in Tanganyika District, we don't need an [air conditioner] to cool down temperatures in our homes and offices. Trees provide the natural cooling effect." Hon. Swaleh Mhando has been a vital partner in our efforts to expand programs into refugee settlements in the region, particularly emphasizing Roots & Shoots as a way to support a sense of purpose and community within the area.

"Trees are a treasure to our life. They regulate the climate and provide us with fresh air."

Hon. Swaleh Mhando





Roots & Shoots: A Global Tapestry of Hope

Roots & Shoots is a global grassroots movement of young changemakers in over 50 countries worldwide—and growing! From Tanzania, where Roots & Shoots started, across other African countries and beyond, Roots & Shoots is creating the activated, compassionate global citizens the world needs today, for tomorrow. These pages include some highlights for Roots & Shoots across Africa Programs.

Roots & Shoots in Republic of Congo Connects Youth with Nature

The Roots & Shoots program is a crucial element in the engagement and environmental education of young people utilizing three forested areas in Republic of the Congo (RoC) including Tchimpounga Nature Reserve, Conkouati-Douli National Park, and Dimonika Biosphere Reserve. By working directly with local schools, JGI RoC has helped educators better engage with their students in the daily learning process and has encouraged greater understanding and appreciation of surrounding environments.

Though this work was temporarily halted due to the pause of in-person schooling, late 2020 included new educational campaigns, with teachers integrating the lessons of “I am not your servant” in classroom learning. The subject

addresses the mentality that humans have the right to use animals however they please, particularly great apes. By drawing parallels between humans and chimpanzees, students can develop respect and understanding of fellow great apes. By teaching the students about the amazing ecology and inherent value of chimpanzees, as well as the laws that protect great apes in the region, young people and communities at large continue to be our partners in conservation.

4,989

Roots & Shoots groups implementing activities across Africa Program countries that promote respect for chimpanzees and their habitats

7. ANIMAL WELFARE: GROWING COMPASSION AND ADVOCACY



Dr. Goodall's research demonstrating that non-human animals are sentient, complex, intelligent, compassionate, and have innate value transformed human understanding of our relationship with the natural world. It also increased reverence and respect for the other beings with whom we share our planet. Through decades of advocacy on behalf of chimpanzees, worldwide wildlife, and animals in captive facilities, Dr. Goodall and JGI have fundamentally improved life for innumerable species. By supporting best-in-class care and practices for appropriate captive welfare in our model sanctuaries like Tchimpounga Chimpanzee Rehabilitation Center, by expanding and growing advocacy and partnerships to protect non-human animals, and by developing campaigns to improve public awareness and human behavior, JGI is delivering on a world that recognizes our place within—not above—the rest of the animal kingdom.

97%+

Welfare Index of chimpanzees in Tchimpounga Center

140+

chimpanzees at Tchimpounga Chimpanzee Rehabilitation Center in Republic of the Congo

CHIMPANZEE WELFARE INDEX PROMISES NEW HOPE FOR CAPTIVE GREAT APES

The Chimpanzee Welfare Index (CWI), developed by JGI's Dr. Rebeca Atencia, executive director of JGI RoC, assesses factors like physical and mental health to assign a score to individual chimpanzees.

That score and the underlying data then helps to establish individualized care plans and can facilitate the recognition of physical and psychological changes that may not be evident to staff in daily observation, especially those changes that may happen slowly. In 2020, an additional feature was added to the welfare index database, which enables an automatic text message alert if there is any change to an individual's body condition score. By using a standardized system, JGI Republic of Congo can identify concerns and measure improvement. Tchimpounga's staff has seen a 22% increase in welfare scores over the last four years. As of 2020, Tchimpounga chimpanzees were rated at an average of 97% on the CWI—a 4% increase from 2019.

Realizing the significant success of the welfare index, Dr. Atencia is working to share the methods of Tchimpounga's system of condition scoring and monitoring with other sanctuaries. Through the creation of a Great Ape Welfare Committee, Dr. Atencia has been working to create standardized welfare indicators for great apes in human care on a global level. The creation of a worldwide Great Ape Welfare Index will help sanctuaries and zoos better analyze and improve the general health and well-being of chimpanzees, gorillas, orangutans, and other primates being cared for by humans around the globe. The CWI is based on a Ph.D. thesis, 'Great Ape Welfare Index,' created by Australian primatologist Amanda Fernie.



7. ANIMAL WELFARE: GROWING COMPASSION AND ADVOCACY, CONTINUED



Above: Dr. Rebeca Atencia performing cardiogram on rescued chimpanzee resident of Tchimpounga Sanctuary.



STUDY ON CHIMPANZEE HEART HEALTH DEMONSTRATES BENEFITS OF SANCTUARIES

Cardiovascular disease is one of the leading causes of death in the United States, and so, like many things related to human health, looking to our closest living relatives can provide some important insights.

In fact, a recent study which included JGI staff in Republic of the Congo found that chimpanzees in rehabilitation centers had lower body weights and lower levels of fatty acids, which decrease their risk for cardiovascular diseases.

This study, performed in conjunction with the University of Michigan, University of New Mexico, researchers in Uganda, and JGI staff at Tchimpounga Chimpanzee Rehabilitation Center, evaluated certain lifestyle factors in chimpanzees and their correlation with heart health. Researchers monitored chimpanzees who live in rehabilitation centers, which allow them to roam semi-free and in social groups, better reflecting wild conditions. These chimpanzees had lower levels of fatty acids, decreasing their risk for cardiovascular disease even as they continued to age.

This research contributes to understanding around our own lifestyles and health needs for physical activity and outdoor space. With more research of this kind, we can continue to provide best-in-class care for rescued great apes and improve human well-being along the way.

Tchimpounga Provides a Safe Haven for Rescued Chimpanzees



Perrine

Just before 2020 began, Perrine was found in the remote village of Enyelle in northern Republic of the Congo, stolen for the illegal wildlife trade. Dr. Rebeca Atencia, executive director of JGI RoC, flew from Spain to Republic of the Congo to save the infant's life. At two years old, Perrine was severely underweight, weighing less than six pounds (at birth, chimpanzees typically weigh four pounds). The situation was dire as she was also anemic and had a fever. JGI staff performed a blood transfusion—one of only two known successful chimpanzee-to-chimpanzee blood transfusions performed across countries in Africa, both at Tchimpounga. JGI caretaker and surrogate mother Antoinette then spent every moment with Perrine, 24 hours a day, gently feeding her to make sure she had adequate nutrition. After weeks on the brink, thanks to JGI's expert staff Perrine started to eat on her own. Today, she can walk, play, and even climb.

Zeze

In 2020, little Zeze was attacked and lost his eye as a result of the illegal pet trade in Angola. Because of Zeze's injuries and malnourishment, the Angolan government worked with JGI to ensure the transport of Zeze to Tchimpounga. Though the infant's future seemed bleak, JGI's expert staff devoted specialized care to him, making sure his caregiver provided 24-hour love and treatment. Though he will never recover his eye, Zeze has recovered a sense of family with the other rescued chimpanzees, like Perrine. Their kinship and compassion, along with the professional care of JGI's caregivers, present an opportunity for Zeze to see a future filled with hope.

Koungoulou

At Tchimpounga, every chimpanzee's individual needs are our focus. JGI's Chimpanzee Welfare Index helped staff at Tchimpounga develop an individual care plan for Koungoulou, who was too dominant to integrate with other chimpanzees living at the sanctuary's island sites. After careful consideration, he was transferred back to the main sanctuary where he was slowly integrated into a new group. There, he was able to enjoy the outdoor enclosure and formed strong bonds with other chimpanzees, Christopher and Dan. While Koungoulou has still expressed dominant behavior, which has changed some of his new group's dynamics, the new dominant male of the group has not yet been determined. Their relationship has helped Dan to find a comfortable place within the hierarchy of the group.



Covid

In September, a young male chimpanzee was confiscated from a private residence by Dr. Atencia in the city of Pointe Noire, in Republic of the Congo, in cooperation with a local associate. While he was found in good physical health aside from mild filariasis, he exhibited anxious behavior associated with psychological trauma. Dr. Atencia promptly transported the little chimpanzee to Tchimpounga sanctuary, where he very quickly relaxed within the comfort provided by his JGI RoC caregivers. Shortly after his arrival, the baby was named Covid as a reminder that the fight for the protection of wild primates continues, even when so much came to a halt during the pandemic.



Explore more at janegoodall.org/impact20

7. ANIMAL WELFARE: GROWING COMPASSION AND ADVOCACY, CONTINUED

COMPASSION, EDUCATION, AND AWARENESS PROTECTS GREAT APES

In the Republic of the Congo (RoC), JGI operates primarily through our ‘Triangle Approach,’ which emphasizes the combined power of sanctuary care, work with law enforcement, and public awareness. In 2020, Covid-19 protocols and restrictions limited outreach, but the JGI staff found new and creative ways to analyze data and advance public awareness. Informative billboards on the protected status of great apes in the region have been incredibly successful. In late 2020, the JGI RoC Education Team installed local billboards in the city of Pointe Noire. Following a recent assessment of prior billboards placed throughout the city, it was noted that several had succumbed to the elements and needed to be replaced. Two billboards in Pointe Noire were replaced, and a countrywide status assessment of all previously erected billboards is in motion.

Additionally, JGI in RoC has used the power of media to advance conservation messages, particularly through the wildly successful television program ‘Super Kodo,’ which reaches millions regionally. The series—filmed and directed



by JGI Congo’s Communication Officer, Fernando Turmo and starring young Carel M.—features a young superhero who through various adventures demonstrates the importance of protecting wildlife and fighting illegal wildlife crime.

In 2020, the newest episode focused on the relationship between dogs and humans with Super Kodo taking his friends to meet JGI RoC’s Canine Detection Unit. The episode also touches on the pandemic and includes information on preventative measures, such as proper hygiene, mask wearing, and social distancing. Likewise, it focuses on the role of illegal wildlife trade and consumption in association with the spread of many diseases and viruses. With provocative and engaging efforts like these, JGI has partnered with local communities to make a difference for wildlife—and it’s working.



Above: Baby Perrine with caregiver at JGI’s Tchimpounga Chimpanzee Rehabilitation Center in Republic of the Congo.



8. ONE HEALTH AND PREVENTING THE NEXT PANDEMIC



Above: Mosquito sample taken as part of JGI's partnership with Microsoft under Project Premonition to track disease in GMU landscape.



JGI's approach to creating a better world recognizes that the needs and threats facing people, other animals, and the environment are interconnected. All three must operate in harmony for mutual sustainability. JGI's One Health strategy takes an integrated, holistic approach for the well-being of our world and its diversity of inhabitants. Many scientists predict that the next pandemic will be a result of our continued imbalance with the natural world, particularly as deforestation puts humans and wildlife in closer proximity along with illegal wildlife crime. Amidst much of our advocacy to protect humans and wildlife, our Gombe One Health Hub is a direct community-led ecosystem health platform, built on decades of innovative work, that is dedicated to monitoring, understanding, and preventing zoonotic spillovers.

In 2020, As part of our One Health team, JGI colleagues published five peer-reviewed papers including 'Antimicrobial resistance creates threat to chimpanzee health and conservation in the wild' in *Pathogens*, and 'COVID-19: Protect great apes during human pandemic' in *Nature*.

365

fecal samples collected in 2020

30+

media pieces on One Health, Gombe, Great Apes and Covid-19 in 2020

709

daily health sheets completed and added to long-term data collected since 2004



IMPACT STORY

Expanding Wildlife and Human Healthcare in Uganda

Chimpanzees and humans share similar physiological and genetic characteristics and thus can transmit many viruses, bacteria, fungi, protozoa, and intestinal and ecto-parasites. Over the last five years, Uganda has witnessed successive outbreaks of respiratory illness (of human origin) in the habituated chimpanzee groups across the country, resulting in loss of over 30 individuals.

Despite the need for health management of Uganda's wild chimpanzee populations, there was an enormous gap in availability of technical veterinary capacity for wild chimpanzee health interventions. Uganda's chimpanzees are spread across over 600 kilometers but there are only two experienced veterinarians in the country who can perform complex procedures and administer anesthesia. It was virtually impossible for these two veterinarians to provide needed support to all field sites when great apes are exhibiting severe symptoms, injuries, and/or when cases of deaths are reported.

In response, JGI trained a veterinarian to be based with the staff of the Kibale Chimpanzee Project (KCP) working out of the Kibale Conservation Area in the Albertine Rift region. As part of the Chimpanzee Health Intervention and Monitoring Program

(CHIMP), the veterinarian accompanies rangers and KCP on patrols to monitor and record the health of chimpanzees, as well as provide health services when needed.

Additionally, reduction of watershed degradation and pollution, and improvement of the health of freshwater ecosystems in Uganda is one of our main focus areas as part of the Africa Biodiversity Collaborative Group (ABCG) FW-WASH (water, sanitation, and hygiene) program. In support of the USAID Biodiversity Policy, our efforts proactively engage local communities in sustainable development activities that advance this health initiative. By building on years of expertise, the ABCG FW-WASH task group (of which JGI is a major part) developed and pilot-tested a Freshwater Conservation and WASH Advocacy Strategy Workshop Facilitator's Guide. The guide recognizes the integral role advocacy plays in creating and sustaining conservation and human health policies. Launched in August of 2020, the guide lays out steps for conservation, health, and development practitioners to develop advocacy strategies which emphasize messaging and activities encouraging policymakers, donors, and colleagues to join forces for a One Health approach.

8. ONE HEALTH AND PREVENTING THE NEXT PANDEMIC, CONTINUED

PROFILE: EMBRACING A HOLISTIC VIEW OF HEALTH

Community Health is Ecosystem Health

As we continue to grapple with the Covid-19 pandemic, every level of our societal systems and structures are being tested. It has never been more apparent that we need to embrace a more holistic view of health—one that includes the environment and other animals. JGI's USAID-funded Landscape Conservation in Western Tanzania (LCWT) project takes a proactive, holistic approach to this problem.

In western Tanzania, remote communities are often marginalized and have limited access to social services, particularly healthcare. They are also highly dependent on their natural resources for their sustenance and livelihoods. For nearly 30 years, JGI has used an innovative community-led conservation approach known as Tacare, which focuses on the needs of the communities to address the needs of the environment. It combines sexual and reproductive health, water, hygiene, and sanitation, maternal and child health, education, public awareness, natural resource management, land-use planning, and habitat conservation as well as restoration. In 2020, JGI saw significant changes as people are taking control of their health including reproductive healthcare. As a result, they are forging communities that are resilient and in control of their own resources, lives, and futures.



At left: Chimpanzee community ranges and human house density as detected from Maxar satellite images, roads, and footpaths overlaid with baboon and vervet monkey presence reported by the village Forest Monitors. Spatial overlap leads to more frequent contact between humans, wildlife, and livestock, which results in increased risk and hotspots of potential zoonotic disease transmission.



8. ONE HEALTH AND PREVENTING THE NEXT PANDEMIC, CONTINUED

ONE HEALTH, MANY DATA FOR THE BENEFIT OF ALL

JGI has long been a proponent of holistic strategies, taking a One Health approach from the start. This has never proved more critical than during the Covid-19 pandemic. Launched in July 2020, JGI's Gombe One Health Hub builds on decades of innovative work and is a community-led ecosystem health platform dedicated to monitoring and understanding zoonotic spillovers. Tracking disease that has the potential to jump from wildlife to human communities (and vice versa) is necessary for our growing capability to anticipate and prevent transmission as well as to combat its effects.

“We need to connect our brains with our hearts and appropriately use our science and innovative technologies, as well as indigenous knowledge, to make wiser decisions about people, other animals and our shared environment.”

Dr. Jane Goodall

Dr. Lilian Pintea, vice president of conservation science, has said, “To truly understand and manage the threat of diseases to chimpanzees, other wildlife, humans, and livestock, and to stop zoonotic spillovers, we need to properly engage and listen to communities about their needs and priorities...in order to facilitate strategies and actions that enable community development while also contributing to One Health.”

To better understand, anticipate, and address zoonotic disease, the Gombe One Health Hub utilizes Esri ArcGIS technologies to integrate scattered core datasets for a range of categories, from wildlife habitat maps to human land-use plans. These include: 60 years of continuous chimpanzee data; 26 years of conservation efforts with the local communities and governments using Tacare, JGI's community-led conservation approach; 15 years of standardized health data on chimpanzees, baboons, and other primates collected by the Gombe Eco-Health

Project; High resolution satellite imagery from Planet and Maxar; Innovative non-invasive methods to increase disease surveillance using flies as sentinels and metagenomic tools in Azure, and; Disease risk maps and dashboards via Esri ArcGIS Hub technologies.

Such cross-cutting insight is made available to the JGI team through expanded community monitoring efforts, using mobile technologies to include One Health protocols. JGI is also planning to conduct qualitative interviews to identify people and their livestock health, create contact risk maps to model potential pathways for disease transmission, and communicate findings to decision-makers and stakeholders through easy-to-understand maps and dashboards.



This work complements and is integrated with our Microsoft Project Premonition partnership, which uses robotic traps to capture mosquitoes and extract DNA from blood samples. As mosquitoes serve as vectors for pathogens as they feed on species, the Gombe lab staff will be able to determine whether these mosquitoes feed on different species and investigate the potential viral load.

Empowered with detailed insight and informed analysis, the JGI team will be able to manage an outbreak by administering single-dose antibiotics to wildlife via blowpipe. This proven treatment will allow the team to be safe and effective, diminishing risk of spread, illness, and death. Although many respiratory infections are caused by viruses for which we do not have treatments, they are often made worse by secondary bacterial infections. The blowpipe antibiotic treatment gives

affected primates a much stronger likelihood of recovery, well before the possibility of disease being passed onto humans.

The goal of the Gombe One Health Hub is to combine innovative mapping technologies with JGI's long-term data, community-driven conservation efforts, research partners, along with Gombe Eco-Health disease data and expertise. Through this integration, JGI will be able to improve the prediction, detection, preparedness, and response to disease outbreaks—stopping future pandemics in their tracks.

This work is made possible through an interdisciplinary team of researchers including Dr. Elizabeth Lonsdorf (Franklin & Marshall University), Dismas Mwacha (Gombe veterinarian), Dr. Karen Terio (University of Illinois), Dr. Jessica Deere (Emory University) and Dr. Thomas Gillespie (CDC Atlanta and Emory University).

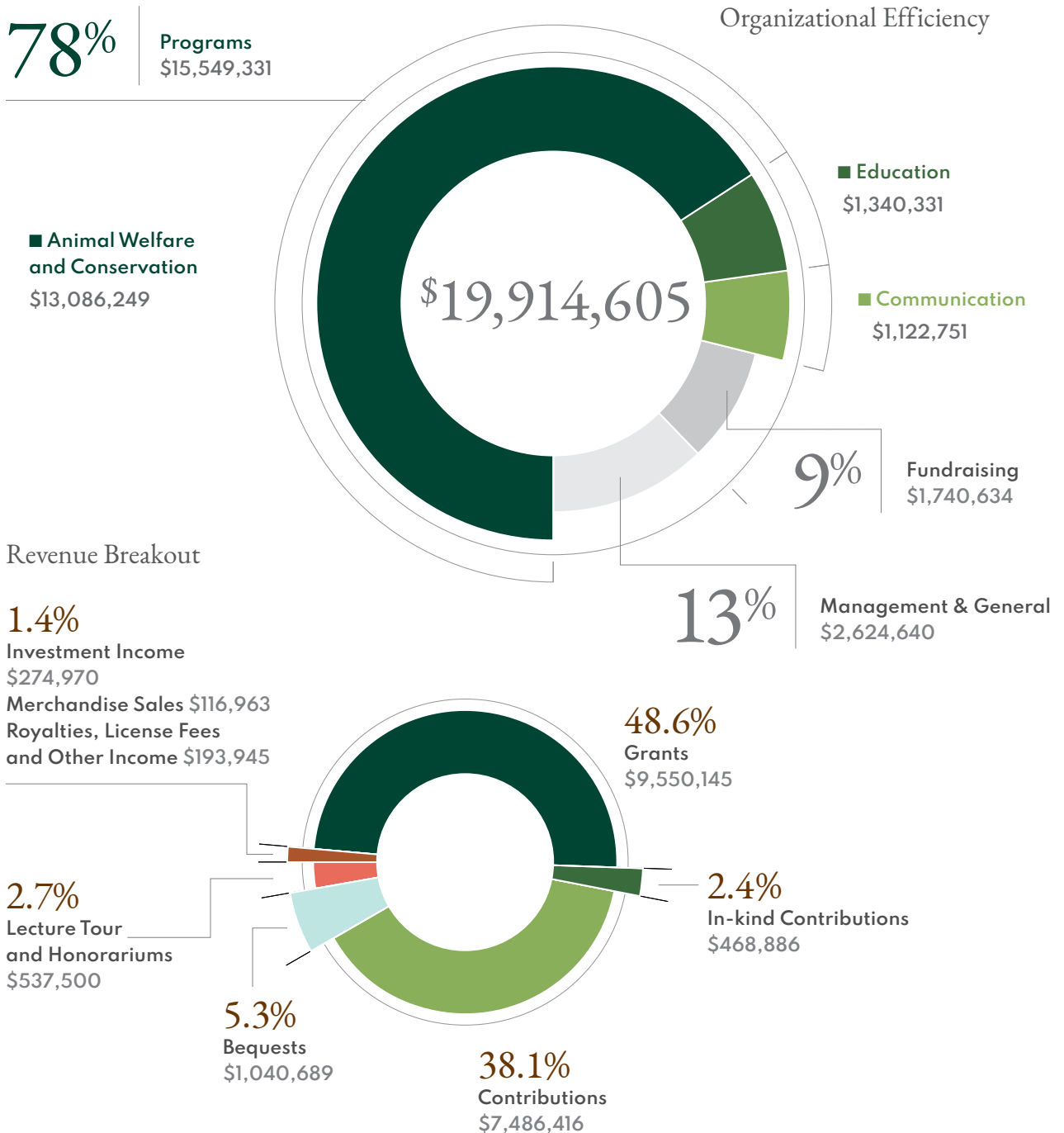


Above: Veterinary and Eco-Health lab at Gombe Stream Research Center, Tanzania

JGI would like to share a special thank you to George Maricostas for support of this work.

FINANCIALS

Accountability and transparency are important at JGI. Annual reports and our financial filings give us the opportunity to share highlights from our programs, the impact they are making, and how we use the resources provided by our donors to make this work possible. We watch every expense to ensure that as much money as possible goes to on-the-ground, mission-oriented programs. We value the trust and commitment of our donors, and we endeavor every day to deliver real transformative results while maximizing the impact of our donors' support. The work we do is much greater than what we can include in any single report.



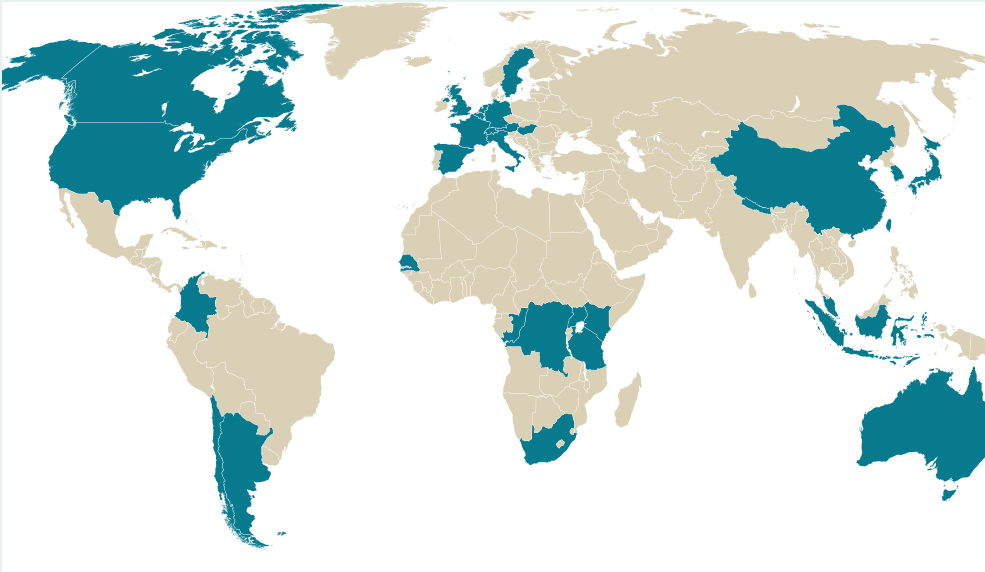
Summary of Activities for the Year Ended December 31, 2020

Revenue	Total	Percentage
Grants	\$9,550,145	48.6%
Contributions	\$7,486,416	38.1%
In-kind Contributions	\$468,886	2.4%
Bequests	\$1,040,689	5.3%
Auction Event		
Royalties, License Fees & Other Income	\$193,945	1.0%
Lecture Tour and Honorariums	\$537,500	2.7%
Investment Income	\$274,970	1.4%
Merchandise Sales	\$116,963	0.6%
Total Revenue	\$19,669,514	100%
Expenses		
Animal Welfare and Conservation	\$13,086,249	66%
Education	\$1,340,331	7%
Communication	\$1,122,751	6%
Total Program Expenses	\$15,549,331	78%
Fundraising	\$1,740,634	9%
Management & General	\$2,624,640	13%
Total Supporting Expenses	\$4,365,274	22%
Total Expenses	\$19,914,605	
Other Items		
Exchange Rate Gain/Loss	\$151,188	33.9%
Unrealized Gain/(Loss)	\$294,973	66.1%
Total Other Items	\$446,161	100%
Change In Net Assets	\$201,070	
Net Assets at the Beginning of the Year	\$9,935,913	
Net Assets at the End of the Year	\$10,136,983	

Financial Position as of December 31, 2020

Assets	2020	2019
Cash and Cash Equivalents	\$5,911,390	\$6,271,787
Investments	\$6,000,011	\$4,121,803
Other Receivable	\$788,142	\$844,336
Grants Receivable	\$857,170	\$575,308
Prepaid Expenses and Other Assets	\$261,927	\$272,554
Property, Equipment and Leasehold Improvements, Net of Accumulated Depreciation and Amortization	\$2,760,917	\$2,728,661
Total Assets	\$16,579,557	\$14,814,449
Liabilities		
Accounts Payable and Accrued Expenses	\$2,125,834	\$2,109,009
Other Liability	\$808,715	\$56,315
Deferred Revenue	\$3,508,025	\$2,713,212
Total Liabilities	\$6,442,574	\$4,878,536
Net Assets		
Without Donor Restrictions	\$6,239,423	\$4,642,377
With Donor Restrictions	\$3,897,560	\$5,293,536
Total Net Assets	\$10,136,983	\$9,935,913
Total Liabilities & Net Assets	\$16,579,557	\$14,814,449

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We are thankful to our generous donors who are presented here for special recognition in honor of their integral contributions in 2020.

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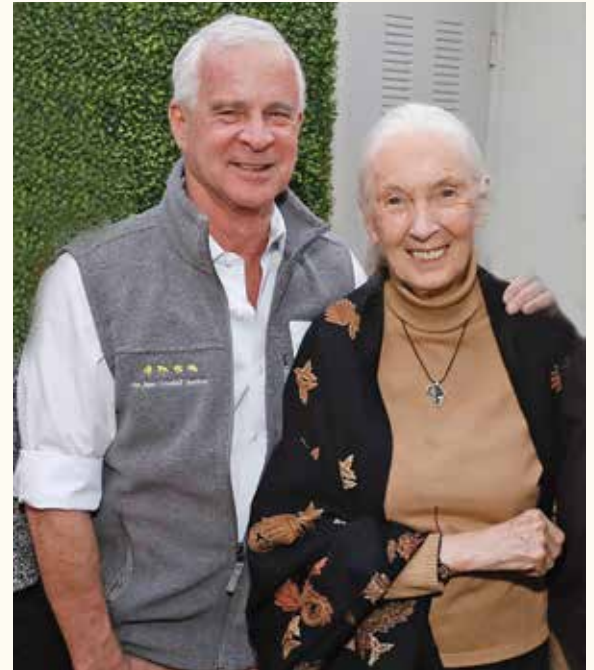
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DONOR PROFILE: REED JULES OPPENHEIMER FOUNDATION



Investments Reach Across the Globe

As a supporter, champion, and board member of JGI, Reed has provided innumerable opportunities and essential funds for our robust, world-bettering programs. In 2020, along with the rest of the world, our sanctuary and partner sanctuaries faced the crippling crisis of the Covid-19 pandemic. As a key leader in the Save the Sanctuaries fundraising campaign of 2020, Reed provided a one-million-dollar match to all funds raised. As a result, more than \$2.6 million of vital and life-saving funds went to sanctuaries across countries in Africa to ensure the health, safety, and continued viability of these important facilities. Reed Oppenheimer is the true embodiment of what it means to be a proactive and compassionate leader and JGI is grateful for his ongoing generosity and support.

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DONOR PROFILE: ARCUS FOUNDATION



Smart Strategies for Great Apes

Since 2000, the Arcus Foundation has been working to ensure the conservation of, and respect for, the world's great apes and gibbons. Like JGI, Arcus recognizes that a range of interconnected issues affect wildlife, and that to protect and conserve great apes requires diverse strategies. One of those strategies has been to support JGI with the implementation of components of the Conservation Action Plan (CAP) for Great Apes in the Eastern Democratic Republic of the Congo (DRC). Through the CAP, JGI has coordinated more than a dozen organizations to conserve wildlife while improving the livelihoods of human communities—the core of our Tacare philosophy.



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IN MEMORIAM: JOHN SILVER 1952–2021



John's impact on JGI
through service,
with generous gifts,
and by sharing
Dr. Goodall's message
of hope will never be
forgotten.

A Lifetime of Service to Community and Conservation

JGI remembers the life and service of John Silver, who passed away at his home in Santa Fe, NM, at the age of 69 in September 2021. John supported the Institute with his leadership, considerable experience, and wise counsel from 2009 to 2013 when he served as both Co-Chairman and Vice-Chairman. He also acted as chair of the Philanthropy Committee and was a long-term member of the Roots & Shoots Committee, which was one of his passions. JGI was also the recipient of his legal expertise and he provided us with pro bono legal assistance for many years after he rolled off the board. John's warm personality and sense of humor made him such a pleasure to work with and he will be deeply missed by all of us at JGI who were the recipients of his kindness and generosity.

A native of Santa Fe, John graduated from Santa Fe High School where he was a star tennis player. Although injury prevented him from pursuing his dream of becoming a professional athlete, John continued to teach and play tennis for many years. John turned his sights to the law. After graduating from the University of New Mexico Law School in 1977, he established a practice focusing on trusts, estates, and real estate. In 1984 he married his wife Gloria Silver, a ballet dancer, and they had two children, twins Tom and Johanna, in 1992.

A deep commitment to serving his community was instilled by John's parents. In addition to supporting local organizations like the Santa Fe Children's Museum, the Museum of New Mexico Foundation, and the St. Vincent Hospital Foundation, he also gave back to national and international organizations like JGI and the Allene and Jerome Lapidés Foundation. John was instrumental in connecting the Lapidés Foundation to JGI, which resulted in more than \$1 million of support to help young people affect positive change in their communities through JGI's Roots & Shoots program.

The Jane Goodall Institute is a global community conservation organization that advances the vision and work of Dr. Jane Goodall. By protecting chimpanzees and inspiring action to conserve the natural world we all share, we improve the lives of people, animals and the environment.

Founded in 1977 by Dr. Goodall, JGI inspires hope through the collective action of community-led conservation, the innovative use of science and technology, and our Roots & Shoots youth program, now active in more than 50 countries around the world.

Explore more at janegoodall.org/impact20

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