An Economic Incentive for Conservation

In developing countries around the world, a lack of economic opportunities often drives people to engage in activities that degrade natural resources. Unsustainable timber extraction, poaching, and land clearing for agriculture diminish the long-term value of these ecosystems for biodiversity—and for the local people who rely on them for resources and ecosystem services.

Ecotourism is an economic alternative that can raise incomes in communities living close to biodiversity-rich areas, while helping to conserve natural capital. Among the fastest-growing segments of ecotourism are bird watchers, who tend to have a light footprint on ecosystems and biodiversity, and are willing to step outside the tourism mainstream to see exotic birds.

In 2014 the National Audubon Society’s International Alliances Program partnered with the Inter-American Development Bank’s Multilateral Investment Fund to develop a pilot project designed to promote bird-based tourism in Latin America and the Caribbean. The project’s goal was to support entrepreneurs in the bird tourism sector in Belize, Paraguay, the Bahamas, and two regions of Guatemala. Focusing on areas where a large percentage of the populace lives below the poverty line, the project intends to build niche markets that will support economic development, empower communities, and improve local lives—while preserving and creating value for natural habitats.

Project designers chose sites by layering poverty maps over maps of Important Bird and Biodiversity Areas (IBAs) that have the potential to attract bird-based tourism. The target areas include some of the most threatened ecosystems in the region, many of which host migrating species that breed in the U.S. and Canada.

Working with local tourism authorities and other experts, Audubon developed a two-tier bird-guide training curriculum that was tailored to local cultures, languages, and other circumstances. The training didn’t just focus on bird identification. It also focused on important regional conservation issues, biology, and bird migration patterns and habitat needs. Additionally, the training covered basic instructions on setting up and running a business, marketing that business to potential clients, and ethical guiding practices once in the field. This comprehensive approach to guide training has been adopted by the governments of Belize, Guatemala, and The Bahamas as the official curricula and guidelines for bird guides operating in those countries.

In addition to providing basic equipment for bird guiding and trail development, project specialists provided basic business and hospitality training, and encouraged governmental tourism agencies to include such curricula in their own guide-training and certification schemes. The objective was to create a network of community-based birding destinations that offer skilled local birding guides, high-quality park interpretation and lodging, food services, and related goods and services tailored to the birding market.

Finally, Audubon reached out to its members, urging bird-watchers to consider visiting destinations where a birding vacation can help to improve communities in and around protected areas.

A total of 175 men and 101 women attended the basic guide training, while 63 men and 12 women completed advanced training. Many reported that the program was among the most significant experiences of their professional and personal lives. The project also boosted the capacity of citizen-science initiatives such as bird counts and censuses, and added some 120 participants to eBird, an online database of bird observations that provides researchers and amateur naturalists with real-time data about bird distribution and abundance. Finally, more than 5,000 children and nearly 1,800 adults participated in bird-related environmental education programs—many of which were led by newly trained guides.

The program produced countless friendships, business partnerships, alliances, and networks of conservationists that continue to grow in number and influence.

*All dollar amounts throughout this booklet are in U.S. dollars.*

“Every week at least one of us is out in the schools, getting children and their teachers interested in birds and the natural world. If we can get them out there and show them, they’ll have the motivation to save it.”

—Pablo Chumil

Piping Plovers, Sanderlings, and Western Sandpipers
Audubon worked with partners in four countries to build an ecotourism program that creates an economic incentive to protect birds and wildlife. Guide training and, where applicable, English-language instruction provided the foundation for this goal. But the guides themselves weren’t the only beneficiaries.

**Supply-side development**
We have improved infrastructure and capacity of bird-based tourism for communities.

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>124</td>
<td>guides improved English skills through training</td>
</tr>
<tr>
<td>276</td>
<td>guides trained at the basic level; 72 at the advanced level</td>
</tr>
<tr>
<td>408</td>
<td>local business owners participated in trainings</td>
</tr>
</tbody>
</table>

**Demand-side development**
We have helped create marketing and stakeholder partnerships to drive ecotourism.

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>27</td>
<td>local businesses now promote bird tourism</td>
</tr>
<tr>
<td>17</td>
<td>events to promote bird-based tourism</td>
</tr>
<tr>
<td>5</td>
<td>in-country birding festivals</td>
</tr>
</tbody>
</table>

**Conservation & community engagement**
We have improved outreach and education, site planning, and citizen-science participation.

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>119</td>
<td>new eBird users; Belize now in top 3 in Central America for eBird use</td>
</tr>
<tr>
<td>95%</td>
<td>reduction in poaching in Cockscomb Basin Wildlife Sanctuary</td>
</tr>
<tr>
<td>5,526</td>
<td>children received environmental/bird education classes</td>
</tr>
</tbody>
</table>

**Research and knowledge sharing**
We have driven understanding of marketplace opportunities for partner countries.

<table>
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<tr>
<th>Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>$17.3B</td>
<td>spent annually on wildlife-watching trip-related expenses (U.S.)</td>
</tr>
<tr>
<td>$500M</td>
<td>spent annually on birding in the UK</td>
</tr>
<tr>
<td>20M</td>
<td>United States citizens took birding trips from 2005 to 2009</td>
</tr>
</tbody>
</table>
BIRDS MEAN BUSINESS | Creating economic opportunity to support conservation

BELIZE

A land of Scarlet Macaws and jaguars

Snapshot: $47M spent by tourists on birding (2012)
Mornig in Cockscomb Basin Wildlife Refuge comes early, and the earliest birds begin calling across the jungle canopy well before dawn. This habitat, part of the Maya Forest that extends from central-eastern Belize through parts of Guatemala, is home to a variety of birds and wildlife, including the infamous elusive jaguar.

But resting atop the bucket-list must-see mountain alongside the jaguar are Scarlet Macaws. These bright red parrots spend their winters flying around Cockscomb Basin and regularly visiting the nearby town of Red Bank, Belize. Audubon has trained a number of Red Bank residents to be bird guides for tourists who come to see the macaws. The goal: promote Scarlet macaws, plus Boat-billed Herons, including two species of manatees that are endangered.

Seven villages dot the landscape around Cockscomb Basin. For a long time, the local major employer was a shrimp farm located just off the coast south of the town of Dangriga. But the shrimp farm closed a few years ago, around the same time that the Belizean government seized a banana plantation because its owner had tried to nonconform, leaving the residents without economic opportunity. During that time, poaching and logging spiked in Cockscomb Basin, as locals tried to feed themselves and stay afloat. A mix of economic development projects, spearheaded by Belize Audubon Society, has brought the poaching in the sanctuary down 95 percent.

Dogs and chickens come out to greet us as we arrive in Red Bank. We're greeted by a couple of the local guide-trainees. Diego Ical is 19, and has just finished the beginner's training, and is now licensed to be a local-area guide. Belize is different from many countries, in that all guides except those near the national parks must be professional guides at Caves Branch, an area just north and west of Cockscomb Basin. She's been a certified guide for years, but decided to take the birding-guide course because so many of her clients would ask about bird life when they were on their way to zip-lining adventures or cave tubing. For Garcia, the training was about making her a better guide and a better spokesperson for all that Belize has to offer.

Isael Mai, another certified guide who has finished both beginning and advanced birding courses, is a legited birding friend. When he's not leading tours, he's working with Belize Conservation in the Chiquibul Forest and in Belize's pine savannas to protect Scarlet macaws and Yellow-headed Parrots from disappearing into the illegal pet trade.

That passion for conservation—and finding ways for conservation to peacefully coexist with economic development—was readily apparent among all of the guides and students and guidehouse owners and tour operators we met as we traveled through Belize. With dedication and hope and work, Belize could be a model for sustainable tourism in Central America.
GUATEMALA

Go birding with the Maya

Snapshot:

9%
Total Contribution of Travel & Tourism to GDP (2014)
In a few months, I went from knowing very little to becoming a specialized birding guide. Now tour companies are calling me, and I’m part of a community that’s helping to save forests and birds.”

—Rony Anibal Xep

Our Partners:

WCS

Audubon

INClO

Lake Atitlán Watershed

Guide Spotlight: Everilda Ruchan

Everilda Buchan was born near Guatemala’s Pacific Coast and raised on the farm where her parents worked. She was forced to drop out of school after second grade to help support the family. “I was born in nature, and that’s where I want to bring people, especially children,” she says. “Those who know nature are the ones who care about it. Those who don’t know it don’t care.” Buchan, who had the highest score in the advanced bird-guiding course, says the course’s multi-day field trip to different regions of Guatemala was the highlight of her life. “It was like a university for me,” she says. “Discovering the other places in my country—the jungle, the high mountains, the seacoast—how else could a person like me ever hope to experience these things?”

curiosity,” he says. “But on the second day they gave us binoculars and I focused in on a Bhr-gray Tanage. At that moment I fell in love with birds. I wanted to know everything I could about them.”

Maritza Puac, who lives in San Juan, was enrolled in a business education program while she was taking the

While the goal of the project is to help create a new niche in ecotourism as a way to drive conservation efforts, the benefits of the project extend beyond traditional conservation and development efforts.

108 guides trained

25 guides trained

24 local business owners participated in trainings

GUATEMALA Program Stats

Where we work in Guatemala

Estación Biológica
Las Guacamayas/
Paso Caballos

Lake Atitlán Watershed

Everilda Buchan, who had until recently been a fisherman, meets us at the wharf in San Juan. With him are guides Juan Soliz and Benjamin Hernandez. Chocoy, who left school after the second grade to help support his family, says he was lucky to make $50 per week fishing. Now, he can make up to $100 for a half-day of bird guiding.

Marlon Calderon of Asociación Vivamos Mejor, Audubon’s local conservation partner, is justifiably proud of his crew of guides. Indeed, their skill and professionalism is impressive. In one mid-morning quest to spot a Resplendent Quetzal—we eventually located a family of four—the guides identified 25 species in a 10-minute period.

Of the 108 graduates of the beginner’s course, 15 went on to successfully complete the advanced course. “What surprised me was that the least educated participants tended to be the highest performers,” says Calderon. “Their eyes and ears and instincts seem to be sharper.”

Every guide interviewed said that the single most important improvement that could be made to the training would be to extend language instruction beyond bird names and rudimentary phrases. But the overwhelming majority of participants say that the overall experience has been transformative; many have decided to invest in guiding as their life’s work.

Among them is Alfredo Tol, who is transitioning to full-time guiding from driving a three-wheeled “vul-truk” taxi. Pablo Chumil, who had been guiding nature and archaeology tours for several years, is now guiding birding tours almost exclusively as a tour leader for Rockjumper Birding Tours. German Cho- loto was working as a coffee roaster and considering a career in nursing when he heard about the birding course. “I came mainly out of necessity,” he says. “But on the second day they gave us binoculars and I focused in on a Bhr-gray Tanage. At that moment I fell in love with birds. I wanted to know everything I could about them.”

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Audubon’s Bird-Basis Project

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Audubon’s Bird-Basis Project
PETÉN

The Maya Forest is the largest tropical rainforest north of the Amazon Basin, stretching across Belize and southern Mexico and northern Guatemala’s Petén region. Though Petén contains about half of Guatemala’s forests, habitat loss is accelerating as trespassers clear land for large-scale agriculture (including palm oil and cattle) and human settlement.

In the southern region of the Maya Forest lie the ruins of Tikal, an ancient Mayan ceremonial center with magnificent temples, pyramids, palaces, and public squares. Inhabited from the 6th century BCE to the 10th century CE, Tikal now receives hundreds of thousands of visitors from around the world each year. Tikal, surrounded by lush jungle, is also a refuge for wildlife. For many visitors a close-up encounter with a howler monkey, an agouti, or a gray fox will be at least as memorable as the architecture. From temple tops or forest edges, a birder might spot a Keel-billed Toucan, any of several neotropical raptors, or a rare Orange-breasted Falcon.

Guide Spotlight: Marlo García

“It’s understandable if someone is hunting a bird to feed his family,” says guide Marlo García. “But it’s such a shame to see a kid shooting a bird just to knock it out of a tree.”

Like other members of the Petén Birders Club, García visits local schools to teach children about birds. If he sees a boy shooting at birds with a slingshot (a common pastime in Central America), he’ll invite the child to look through his binoculars.

“Once they see how beautiful birds are, their mentality starts to change,” says García. “I am a pajarero too, using the Spanish word that can mean ‘bird hunter,’” says García.

Petén

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A different kind of island paradise

The Bahamas

Snapshot: $39M spent by tourists on birding (2014)

Creating economic opportunity to support conservation
in the 30 minutes that Samuel Nelson has spent walking through Nicholls Town at the north end of Andros Island, he’s seen 17 species of birds. But his most-desired quarry has, thus far, eluded him.

Following his ear, Nelson enters the unpaved parking lot behind the Poinville Hotel. He cooks an ear toward an adjacent thicket, then turns and comes to a halt under a coconut palm tree, a grin spreading across his face.

“There you are,” Nelson says, squinting up at the broad leaves. “I’ve got you now!”

The most endangered bird in the Caribbean, the Bahama Oriole, has set up housekeeping under a palm leaf, protected from rain and all but the most tenacious predators.

Nelson is one of nine graduates of the Bahamas advanced course, which was conducted on Andros Island as well as Inagua Island, some 600 km to the southeast. (The basic class had 49 graduates.)

Andros and Inagua are what Bahamians call “family islands.” This is not the Bahamas that most tourists imagine. On these less-developed islands, unemployment is high, poverty is increasing, and ambitious young adults are leaving for better opportunities elsewhere.

With its stark, scrubby landscapes and long, straight roads, Andros often seems more like western Texas than the Caribbean. For birders, though, Andros is a paradise. Depending on the time of year, a visitor can see world-traveling shorebirds such as the Piping Plover or inland residents like the Great Lizard-Cuckoo. Other uncommon birds that like the Great Lizard-Cuckoo.

Other uncommon birds that spend at least a part of the year on Andros include the Bahama Yellowthroat, Bahama Swallow, Key West Quail-Dove, and West Indian Whistling-Duck. Inagua Island’s relative isolation and unusual habitats make it an attractive environment for the more than 200 species that winter on the island, including the world’s largest breeding colony of American Flamingos. The comeback of the flamingo, which was hunted almost to extinction, is one of the Caribbean’s greatest conservation success stories.

“In the 1950s, my grandfather and his cousin Jimmy went from being the best flamingo hunters on Inagua to being some of the first wardens that helped bring flamingos back from the brink,” says Randolph “Casper” Burrows, one of three Inagua islanders to complete both the basic and advanced courses.

Burrows specializes in showing visiting sailors and other visitors the reclusive flamingos in their natural habitat.

“We had 15,000 to 20,000 hatching this year, which means the total population is getting up close to 100,000 birds,” he says.

In January, the Bahamas Ministry of Tourism made it a national priority to promote Andros and Inagua islands to birders. On both islands, bird lovers are beginning to show up more often, booking hotel rooms and hiring guides. Birding seems to be on the verge of becoming a significant alternative for local economic development.

“I’ll admit I was skeptical about whether this project could make a real difference,” says Scott Johnson, a science officer with the Bahamas National Trust who taught the advanced course. “But I think the sustained effort has started to pay off. Instead of conservationists using people to get what they want and then leaving, they are building relationships in the community. People don’t feel used; they feel that they’re benefiting from the work that’s being done.”

“We know it’s not an overnight thing that’s going to radically change the island economy right away. But we know that it’s viable.”

—Carlene Woods
A next-level tourism destination

PARAGUAY

Snapshot:
4.1%
Total Contribution of Travel & Tourism to GDP (2014)

BIRDS MEAN BUSINESS | Creating economic opportunity to support conservation

Swallow-tailed Hummingbird
**BIRDS MEAN BUSINESS** | Creating economic opportunity to support conservation

Paraguay currently attracts so few birders that participants in the country’s guide-training program say it’s difficult to imagine guiding as a full-time career. That may be about to change, as word gets out about Paraguay’s avian riches. The compact and easily traveled country hosts some 700 bird species, including many sought-after birds that are easier to see here than anywhere else. Even within the city limits of the capital, Asunción, birds spotted more than 260 species, including the near-thrashed Buff-breasted Sandpiper.

Beyond the city, the country’s species, including many sought-after birds that are easier to see here than anywhere else. Even within the city limits of the capital, Asunción, birds spotted more than 260 species, including the near-threatened Buff-breasted Sandpiper. Among the increasingly disconnected remnants of Atlantic forest is San Rafael National Park, which was declared Paraguay’s first IBA in 2005. The park’s headquar-

The park is surrounded by small-scale farms and indigenous villages. In an effort to limit deforestation on these private lands, Audubon’s partner organization Guyra Paraguay has been working with farmers to experiment with organic yerba mate, which requires shade trees overhead. “We can already see the difference,” says farmer Eguer Arnalod Beis, who planted his first yerba mate last year. “We’re seeing more birds, especially the toucans and tinamous. Most people don’t know that you can make money off a crop and conserve the birds and trees also.”

Though Paraguay doesn’t have a history of robust environmental activism, “environmental consciousness is growing,” says Alberto Esquivel, who instructed the basic guiding course. “The other day my father-in-law was talking about saving the jaguars. That was a first!”

Esquivel’s students were a diverse group—students, educators, attorneys, economists, even a nuclear physicist—whose motivations for participating were as varied as their careers. “Suddenly everyone’s interested in birds,” says Tatiana Gallapí, of Guayra Paraguay, whose schedule has, of late, become packed with radio and television appearances. So far this year, bird guide Oscar Rodríguez has fielded calls from specialized operators like BirdQuest and Sunbird Tours. The seven tours that are scheduled for 2017 are more than he’s had in the previous three years combined.

But bird-specific tourism in Paraguay, and tourism in general, are still perched on the starting block. The country’s tourist infrastructure is limited, accommodations are rustic, and culinary traditions are indistinct. Few of the trained guides speak English well, and even fewer have vehicles that are suitable for ferrying passengers around. The word is getting out that we’ve got great binding here,” Rodríguez adds. “It’s going to take some time to build momentum, but eventually they will come. The trick now is to make sure that when they arrive we’ll be ready.”

“The guide training came at the perfect time, just as we were starting to get calls from international tour operators. Now we can confidently say that Paraguay has the people who can take your people birding.”

—Oscar Rodríguez

**Guide Spotlight: Evelyn Britiz**

The interest in birding and nature may seem new to Paraguayans, says Evelyn Britiz, “but it also reflects a longing to reconnect with older, deeper rhythms that remind people of how they fit into the community of life on Earth.”

With landscapes and society changing so rapidly, Paraguayans sometimes forget that many of the country’s traditional songs and stories feature birds, says Britiz, who leads informal weekend bird-watching tours. “If we can use birdwatching as a way to make nature more accessible, we’ll be able to connect more people to an environment that they’ll have an interest in saving.”

**PARAGUAY Program Stats**

While the goal of the project is to help create a new niche in ecotourism as a way to drive conservation efforts, the benefits of the project extend beyond traditional conservation and development efforts.

| 74 | guides trained, basic level |
| 18 | guides trained, advanced level |
| 162 | local business owners participated in trainings |

Where we work in Paraguay

- **Los Tres Gigantes/Pantanal Paraguayo**
- **Asunción Bay**
- **San Rafael National Park**

- **348 children educated**
- **3 businesses promoting bird tourism**
- **31 new eBird users**
- **83 adults engaged**
The Bahamas receives millions of visitors each year. These visitors are travelling to The Bahamas to experience our natural beauty. Traditionally, natural beauty was referred to as the island’s sun, sand, and sea assets. However, the current trend and the demand from the more environmentally conscious visitor is for a more modern type of vacation that goes beyond the sun, sand, and sea model. This type of traveler desires to experience the true natural beauty of our Islands through Nature Tourism.

By participating in the Strengthening of Bird-based Tourism as a Conservation and Sustainable Development Tool Program, with our partners the National Audubon Society and The Bahamas National Trust, we are now able to brand islands such as Inagua and Andros as the birding paradise with professionally trained birding guides. These guides are now capable of capitalizing on this lucrative field of nature tourism becoming entrepreneurs in their own right.

We are very proud of the product which was produced from this program and are now investing in this niche market to further assist this venture into a sustainable product offering for The Bahamas.

We wish to thank the National Audubon Society for choosing The Bahamas as one of the destinations to participate in this pilot program and for molding The Bahamas’ Birding Tourism product. We look forward to future collaborations as we build upon this solid foundation.

Ellison ‘Tommy’ Thompson
Deputy Director General
Bahamas Ministry Of Tourism

ENDORSEMENTS

Giving real economic value to birds and habitats is an essential component for creating local and regional conditions to save birds, other wildlife, and their habitats in partnership with local people.

This pilot initiative represents the beginning of a more robust niche bird ecotourism sector that can help build and sustain bird and wildlife conservation efforts, and also align those efforts with socioeconomic development to support and build more resilient local economies. The local leadership by the five nonprofit organizations engaged across the Americas has been essential to the success of this program. Their support for this initiative and their work with local communities has helped secure long-term sustainability of the project.

For the success of bird-based tourism initiatives, both in the short term and in the long term, the tactics deployed during this initial pilot phase must be integrated thoroughly with a systematic approach to addressing sustainable development issues for communities near priority bird and animal habitats. We hope that this document helps to provide examples and can serve as a baseline model for this type of approach to conservation.

A key purpose of this booklet is to provide guidance for those who want to invest energy, funds, and other resources in bird-based tourism efforts.
Acknowledgments

The National Audubon Society and the initiative "Strengthening Bird Based Tourism as a Conservation and Sustainable Development Tool" benefited from the expertise, enthusiasm, and commitment of its many collaborators.

**Executing Nongovernmental Organization Partners**
- Asociación Vivamos Mejor
- The Bahamas National Trust
- Belize Audubon Society
- Guyra Paraguay
- Wildlife Conservation Society—Guatemala

**Government Partners**
- Ministry of Tourism, The Bahamas
- Belize Tourism Board, Belize
- Instituto Guatemalteco de Turismo, Guatemala
- Secretaría Nacional de Turismo, Paraguay

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- Instituto Guatemalteco de Turismo
- Japan International Cooperation Agency
- Ministry of Tourism for The Bahamas

**National Audubon Society**
- U.S. Fish and Wildlife Service
- Neotropical Migratory Bird Conservation Act
- Vortex Optics

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- Mesa de Aviturismo, Guatemala
- Paul Smith
- Predensa Moore
- Rockjumper Birding Tours
- Roni Martinez
- Steve Gast (Houston Audubon)
- Tom Clynes

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