



ARPA
Amazon Region Protected Areas Program

AMAZON REGION PROTECTED AREAS PROGRAM

The world's largest
tropical forest conservation
initiative

Arpa, a superlative program

The Brazilian Amazon is the world's largest tropical forest, spanning 4.1 million square kilometers. Though the Amazon straddles nine countries (totaling 7.5 million square kilometers), 60% of its total accounts for roughly 40% of Brazil's national territory. Everything about the biome is superlative: it holds the world's largest drainage basin, the most substantial concentration of the planet's biodiversity—10% of all known species—landscapes that range from rainforest to pockets of Cerrado (the Brazilian savanna), and a whole gamut of ethnicities and peoples, including indigenous peoples, quilombolas, extractives settlers and riverine communities. The Brazilian Amazon is home to more than 25 million people.

All this plurality is supported by the **Amazon Region Protected Areas Program - ARPA**. Launched in 2002 by the Brazilian Government and coordinated by the Ministry of the Environment, it has the backing of

national and international partners. The initiative's starting goal was to create new Protected Areas (PAs) and consolidate existing ones in the Brazilian Amazon to extend protection to 50 million hectares. This target was then raised to 60 million hectares, 15% of the Brazilian Amazon, a surface area twice the size of Germany.



The program reached its goal in 2017, the year in which ARPA, the world's largest tropical-forest protection initiative, celebrated its 15th anniversary, further proof of the efficacy of its management model.

ARPA is made possible by donations from Brazil and abroad, with its main supporters being the Global Environment Facility (The GEF), through the World Bank, the German Federal Ministry for Economic Cooperation and Development (BMZ), through the German Development Bank (KfW), the Amazon Fund, through the Brazilian National Development Bank (BNDES), the WWF Network, the Inter-American Development Bank (IDB), the Gordon and Betty Moore Foundation (GBMF), Anglo-American, Natura and O Boticário.

Studies indicate that ARPA's support increases PA-management effectiveness¹. ARPA also makes an important contribution to mitigating climate change: between 2005 and 2015, ARPA-supported PAs avoided carbon emissions equivalent to the total amount generated annually through motorized transport worldwide². ARPA is also a benchmark and model for similar conservation programs in the Peruvian and Colombian Amazon.

Funbio - The Brazilian Biodiversity Fund - manages ARPA's financial resources, all PA-related procurement and contracts, and the Transition Fund (TF), a long-term sinking fund designed to provide resources and incentives to PAs over a 25-year timeframe, until Brazil's Federal and State governments can take responsibility for 100% of the Program's PA consolidation and maintenance costs.

ARPA Phases

ARPA was divided into three phases. During Phase One, 2003 to 2010, the Program created 23 million hectares and set up a Protected Areas Fund to ensure their financial viability and sustainability.

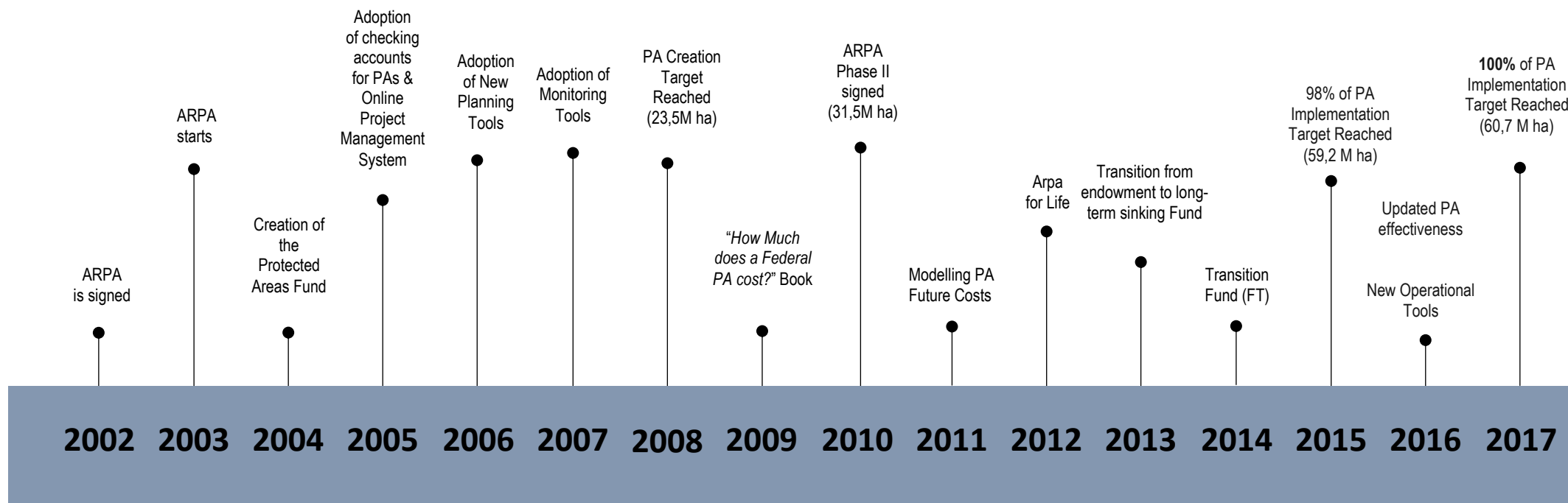
During Phase Two, 2010 to 2017, ARPA broadened its scope and channeled support into the consolidation of 95 PAs, covering a combined total of 52.2 million hectares. After strategic review of the Program, the Transition Fund (TF) came into effect in 2014, with an initial commitment of USD 123 million.

The Program's results testify to the efficacy of ARPA's management and model. In 2012, ARPA became the only environmental project to win the American Treasury's "**Development Impact Honors**" award. The Program was recognized for being "*especiallly notable and impactful*".

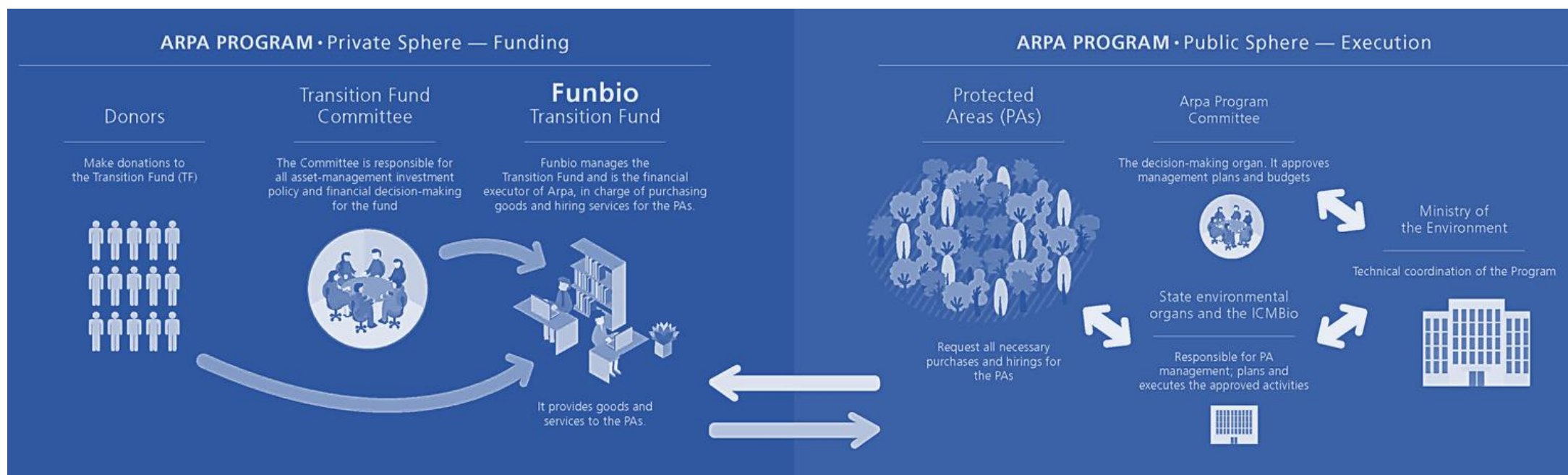
In 2017, the year the Program **turned 15**, the initiative **achieved 100% of its target**, with support extended to 117 PAs across an area of over 60 million hectares, exceeding its set goal.

That same year, ARPA was selected from among 150 projects worldwide as one of **8 key transformational change projects supported by the GEF**. The list included "*engagements that help achieve deep, systemic, and sustainable change with large-scale impact in an area of global environmental concern*".

ARPA timeline



How the ARPA Transition Fund Works



In numbers

117

supported
Protected
Areas (PAs)

72

federal PAs

45

state PAs

60,7

million
hectares under
protection

30

community
projects
supported

7

environmental
protection to

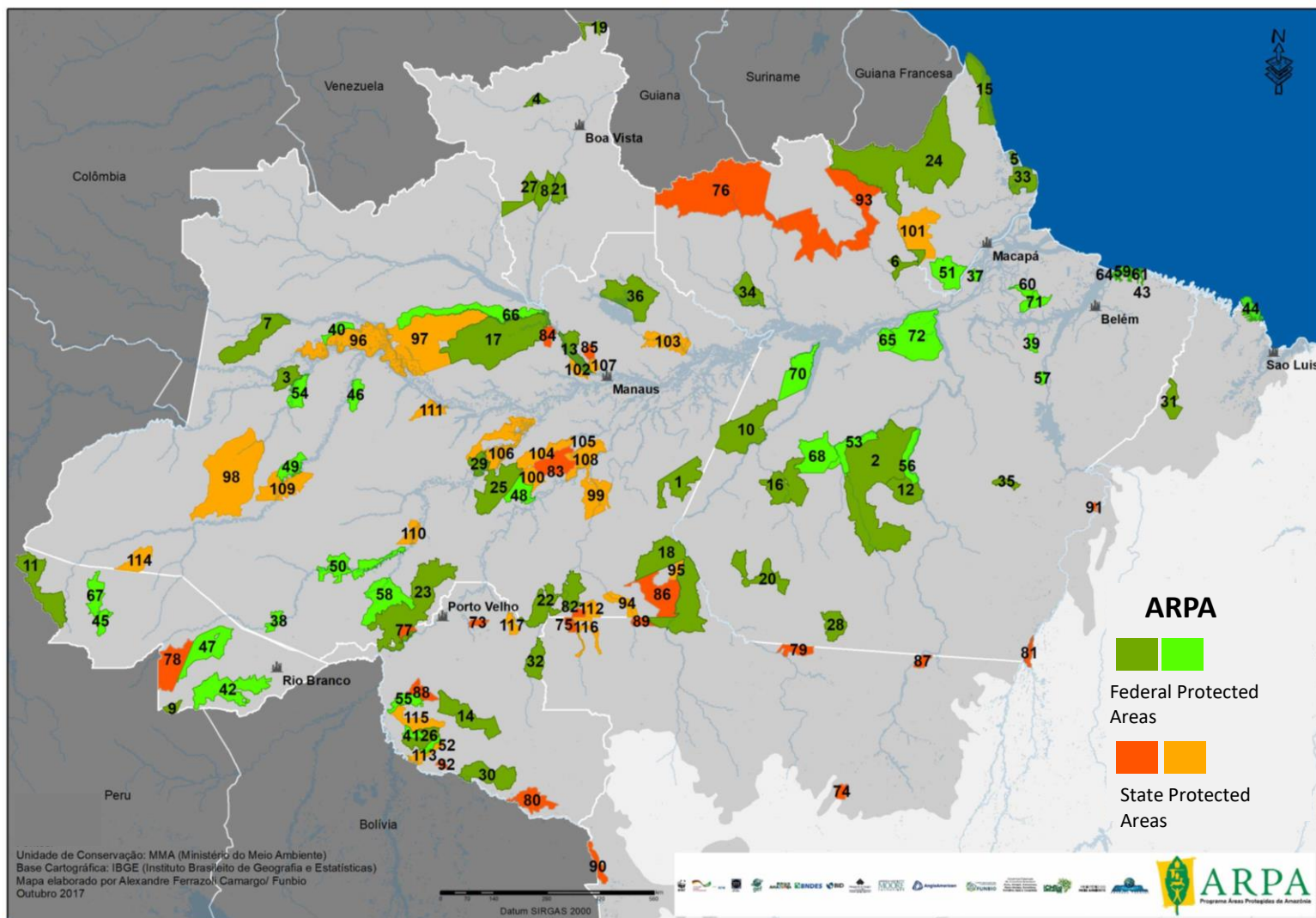
15%

of the Brazilian
Amazon -
an area twice the size of
Germany

15

years

Map of ARPA areas



- | | |
|-------------------------------------|---|
| 1 Alto Maués Ecological Station | 20 Rio Novo National Park |
| 2 Terra do Meio Ecological Station | 21 Viruá National Park |
| 3 Jutai-Solimões Ecological Station | 22 Campos Amazônicos National Park |
| 4 Maracá Ecological Station | 23 Mapinguari National Park |
| 5 Maracá-Jipioca Ecological Station | 24 Montanhas do Tumucumaque National Park |
| 6 Jari Ecological Station | 25 Nascentes do Lago Jari National Park |
| 7 Juami-Japurá Ecological Station | 26 Serra da Cutia National Park |
| 8 Niquiá Ecological Station | 27 Serra da Mocidade National Park |
| 9 Rio Acre Ecological Station | 28 Nascentes da Serra Cachimbo Biological Reserve |
| 10 Amazônia National Park | 29 Abufari Biological Reserve |
| 11 Serra do Divisor National Park | 30 Guaporé Biological Reserve |
| 12 Serra do Pardo National Park | 31 Gurupi Biological Reserve |
| 13 Anavilhanas National Park | 32 Jaru Biological Reserve |
| 14 Pacaás novos National Park | 33 Lago Piratuba Biological Reserve |
| 15 Cabo Orange National Park | 34 Rio Trombetas Biological Reserve |
| 16 Jamanxim National Park | 35 Tapirapé Biological Reserve |
| 17 Jaú National Park | 36 Uatumã Biological Reserve |
| 18 Juruena National Park | 37 Itatupã-Baquiá Sustainable Development Reserve |
| 19 Monte Roraima National Park | 38 Arapixi Extractive Reserve |

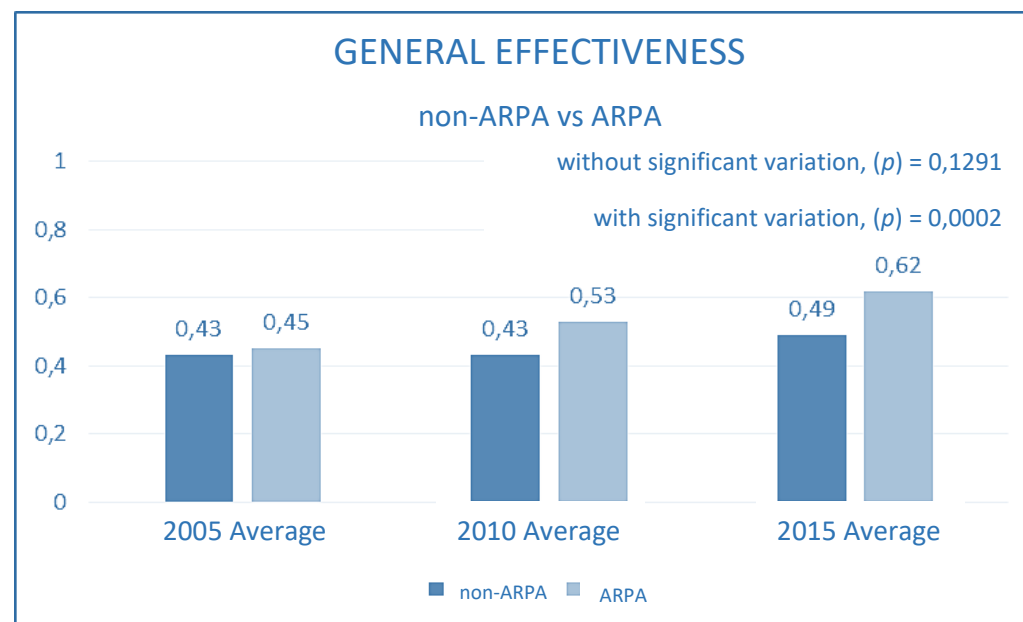
- | | |
|--|--|
| 39 Arioca-Pruanã Extractive Reserve | 60 Mapuá Extractive Reserve |
| 40 Auati-Paraná Extractive Reserve | 61 Maracanã Extractive Reserve |
| 41 Barreiro das Antas Extractive Reserve | 62 Marinha Cuinarana Extractive Reserve |
| 42 Chico Mendes Extractive Reserve | 63 Marinha Mestre Lucindo Extractive Reserve |
| 43 Chocoaré-Mato Grosso Extractive Reserve | 64 Marinha Mocapajuba Extractive Reserve |
| 44 Cururupu Extractive Reserve | 65 Renascer Extractive Reserve |
| 45 Alto Tarauacá Extractive Reserve | 66 Rio Unini Extractive Reserve |
| 46 Baixo Juruá Extractive Reserve | 67 Riozinho da Liberdade Extractive Reserve |
| 47 Cazumbá-Iracema Extractive Reserve | 68 Riozinho do Anfrásio Extractive Reserve |
| 48 Lago Capanã Grande Extractive Reserve | 69 São João da Ponta Extractive Reserve |
| 49 Médio Juruá Extractive Reserve | 70 Tapajós-Arapiuns Extractive Reserve |
| 50 Médio Purus Extractive Reserve | 71 Terra Grande Pracuúba Extractive Reserve |
| 51 Rio Cajari Extractive Reserve | 72 Verde para Sempre Extractive Reserve |
| 52 Rio Cautário Extractive Reserve | 73 Samuel Ecological Station |
| 53 Rio Iriri Extractive Reserve | 74 Rio Ronuro Ecological Station |
| 54 Rio Jutai Extractive Reserve | 75 Rio Roosevelt Ecological Station |
| 55 Rio Ouro Preto Extractive Reserve | 76 Grão-Pará Ecological Station |
| 56 Rio Xingu Extractive Reserve | 77 Serra dos Três Irmãos Ecological Station |
| 57 Ipaú-Anilzinho Extractive Reserve | 78 Chandless State Park |
| 58 Ituxi Extractive Reserve | 79 Cristalino I e II State Park |
| 59 Mãe Grande de Curuçá Extractive Reserve | 80 Corumbiara State Park |

- | | |
|---|---|
| 81 Cantão State Park | 102 Rio Negro Sustainable Development Reserve |
| 82 Guariba State Park | 103 Uatumã Sustainable Development Reserve |
| 83 Matupiri State Park | 104 Igapé-Açu Sustainable Development Reserve |
| 84 Rio Negro Setor Norte State Park | 105 Matupiri Sustainable Development Reserve |
| 85 Rio Negro Setor Sul State Park | 106 Piagaçu-Purus Sustainable Development Reserve |
| 86 Sucunduri State Park | 107 Puranga Conquista Sustainable Development Reserve |
| 87 Xingu State Park | 108 Rio Madeira Sustainable Development Reserve |
| 88 Guajara-Mirim State Park | 109 Uacari Sustainable Development Reserve |
| 89 Igarapés do Juruena State Park | 110 Canutama Extractive Reserve |
| 90 Serra de Ricardo Franco State Park | 111 Catuá Ipixuna Extractive Reserve |
| 91 Serra dos Martírios-Andorinhas State Park | 112 Guariba Extractive Reserve |
| 92 Serra dos Reis State Park | 113 Rio Cautário (Est) Extractive Reserve |
| 93 Maicuru Biological Reserve | 114 Rio Gregório Extractive Reserve |
| 94 Aripuanã Sustainable Development Reserve | 115 Rio Paccás Novos Extractive Reserve |
| 95 Bararati Sustainable Development Reserve | 116 Guariba-Roosevelt Extractive Reserve |
| 96 Mamirauá Sustainable Development Reserve | 117 Rio Preto Jacundá Extractive Reserve |
| 97 Amanã Sustainable Development Reserve | |
| 98 Cujubim Sustainable Development Reserve | |
| 99 Juma Sustainable Development Reserve | |
| 100 Rio Amapá Sustainable Development Reserve | |
| 101 Rio Iratapuru Sustainable Development Reserve | |

Protected Areas supported by ARPA enjoyed a 17% increase in management effectiveness during the period 2005 to 2015.¹

The RAPPAM (Rapid Assessment and Prioritization of Protected Area Management) methodology enables policymakers to evaluate the management effectiveness of individual or clustered Protected Areas by taking a snapshot of such components as planning, process management, supplies and results.

After a series of three RAPPAM applications over the period of ten years (2005 to 2015), it was possible to detect an increase in management effectiveness across ARPA-supported PAs.



During this period, ARPA's PAs jumped from an effectiveness rate of 45% to one of 62%, a 1.4 times increase (17%). ARPA supported PAs have reached a high management effectiveness standard (> 60%). In comparative terms, during the same period, non-ARPA PAs in the Amazon obtained a lower rate of improvement, from 43% to only 49%, a 1.1 times increase (6%).

ARPA and CO2 emission reduction

ARPA support has proved very effective in curtailing deforestation in the Amazon in comparison with protected areas not receiving the program's support, and this has contributed to significant reductions in CO2 emissions.

According to the study "Role of Amazon protected areas, especially the conservation units supported by ARPA, in reducing deforestation"², of the 1.5 Gigatons of carbon emissions avoided due to Amazon-region PAs during the period 2005 to 2015, 25% was in ARPA-supported territory.

This is equivalent to the total amount generated annually through motorized transport worldwide.

Tapajós-Arapiuns Extractive Reserve

Created in 1998 and spanning over 600 thousand hectares, the Tapajós-Arapiuns Extractive Reserve straddles the municipalities of Santarém and Aveiro, in the west of the Amazonian state of Pará. The PA is managed by the Chico Mendes Biodiversity Conservation Institute - ICMBio and has been receiving ARPA support since 2016.



Açaí, chestnut and rubber are among the products extracted at the Reserve, which is home to nearly five thousand families. The **Amazonian manatee** (*Trichechus inunguis*) is an endangered species protected there.

The main rivers crossing the PA are the Tapajós, which runs through the eastern flank of the area, and the Arapiuns, which cuts across the north.

Up until 2016, before ARPA support was introduced, accumulated deforestation in the Tapajós-Arapiuns Reserve reached 51,958 hectares, or 7.7% of its total area. ³



Photo: ICMBio

The Tapajós-Arapiuns Extractive Reserve received support from ARPA's Transition Fund through the Protected Area Consolidation Benchmark.

ARPA sub-components, specifically the Protected Area Management Model and Community Integration, are among those lending support to the Reserve.

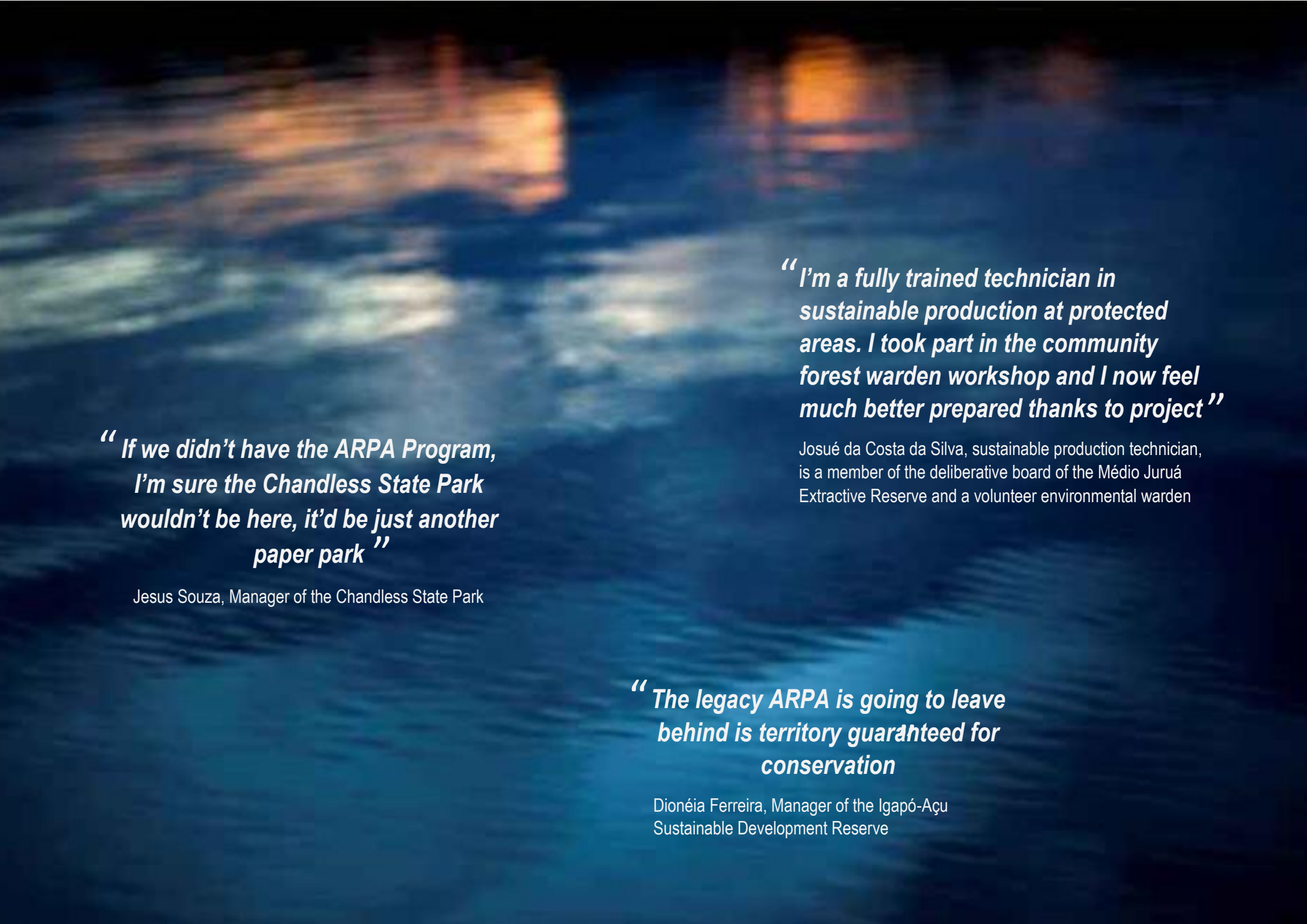
The first of these involves the implantation of innovative management models at Protected Areas, including integrated, shared and participative management, with a view to boosting efficiency in the protection of biodiversity, territorial management and resource use.

The second was designed to strengthen communities using or benefitting from ARPA's PAs by providing different lines of support to indigenous and non-indigenous communities that are tailored to the distinct forms of occupation found throughout the Amazon's PAs.

In the coming years, the Operational Plan devised by PA managers (2018-19) will provide support on the following themes:

- Community advice and support;
- Development and roll-out of the Protection Plan;
- Acquisition and maintenance of equipment (computers and other electronics, furniture, etc.)
- Maintenance of installations and facilities;
- Monitoring of biodiversity;
- Help in operationalizing PA routines.

The PA received over USD 200 thousand* in ARPA support.



***“ If we didn’t have the ARPA Program,
I’m sure the Chandless State Park
wouldn’t be here, it’d be just another
paper park ”***

Jesus Souza, Manager of the Chandless State Park

***“ I’m a fully trained technician in
sustainable production at protected
areas. I took part in the community
forest warden workshop and I now feel
much better prepared thanks to project ”***

Josué da Costa da Silva, sustainable production technician,
is a member of the deliberative board of the Médio Juruá
Extractive Reserve and a volunteer environmental warden

***“ The legacy ARPA is going to leave
behind is territory guaranteed for
conservation***

Dionéia Ferreira, Manager of the Igapó-Açu
Sustainable Development Reserve



Governos Estaduais
da Amazônia Brasileira:
**Acre, Amapá, Amazonas,
Mato Grosso, Rondônia,
Roraima, Pará e Tocantins**



MINISTÉRIO DO
MEIO AMBIENTE



©Funbio 2018

References

¹ WWF and Funbio - The impact of the Arpa Program on the management effectiveness of Amazon Protected Areas

² Soares-Filho, Britaldo Silveira. Role of Amazon protected areas, especially the conservation units supported by ARPA, in reducing deforestation. Rio de Janeiro: Funbio, 2016.

³ PRODES/INPE – Deforestation per PA <http://www.dpi.inpe.br/prodesdigital/prodesuc.php>