



Activities Report 2019 - 2022



Message

New paths for the development of production chains in the Amazon are being created and there are milestones that prove this. One of them is undoubtedly the Bioeconomy Priority Program (PPBio, the acronym in Portuguese), which has been coordinated by Idesam since its creation by the Federal Government (CAPDA/SUFRAMA) in 2019.

PPBio directs public-private investment from companies in the Manaus Industrial Hub (MIH) to generate solutions and add value to the socio-biodiversity of the Amazon. It also helps promote the economy in connection with the conservation of nature in different territories, with traditional together communities and their knowledge, and solving the classic bottlenecks for production in the region. A necessary agenda in the face of the challenges of the biome

Over four years, we have invested BRL 24.6 million in 30 initiatives that provide useful solutions to the Amazonian production chains. Eight of these were concluded and are consolidated in the area of biocosmetics, technology for fish farming, and food. For MIH companies that seek to invest, 277 initiatives are included in the "Project Databank", with a high potential for impact.

To arrive at these numbers, we carried out a set of efforts to meet the expectations of all parties involved in the PPBio structure, along the different links of the production chains. This report presents the path to these results. We would like to thank the Manaus Free Trade Zone Superintendence (Suframa) for concurring with our work and the Ministry of Development, Industry, Commerce and Services. We also thank the 33 companies from the Manaus Industrial Hub (MIH) that invested in PPBio.

Special thanks to all the Program's partner institutions, supporters, development agents, and executors of the invested initiatives. All are agents who believe in the future of bioeconomy and share the results achieved so far.

We believe that knowledge is the key to enrich the ecosystem of businesses and services for sustainable production and promotion of socioenvironmental impact in the region that covers 48% of the national territory and where 38 million Brazilian men and women live.



Carlos Gabriel Koury Director of Innovation in Bioeconomy at Idesam

Our Impact

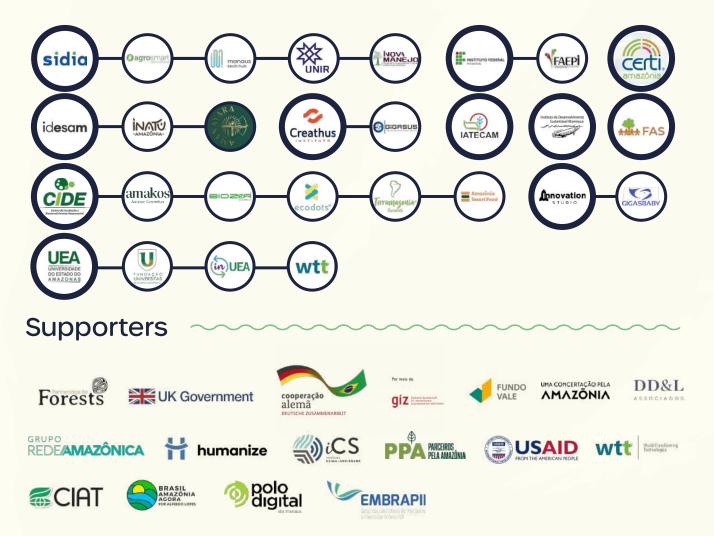


PPBio accumulates expressive numbers, which demonstrate the capacity of biobusinesses in the Amazon. Check them out:





Executors



How does PPBio work?

PPBio promotes economic and social change in the Amazon. It works by raising mandatory Research and Development (R&D) resources from companies in the Manaus Industrial Hub (MIH), in return for tax exemption benefits for companies. Created by the Manaus Free Trade Zone Superintendence (Suframa), PPBio is a public policy established by the Federal Government that connects the MIH to the region's biodiversity assets, applying the funds raised in different projects and initiatives. The policy is regulated by the Information Technology Law (Law No. 13,674/2018).



Team.





Carlos Koury Director of Innovation in Bioeconomy at Idesam



Bianka Silva





Andreza Caroline



Samia Mouallem

Taiane Freitas

Karol Barbosa



Kamille Lopes



Pedro Vitor





Minelly Belém

Eva Duarte Network Articulator



Omar Velasques Business Analyst

Our team is made up of professionals specialized in the environment, economy, and social issues guided by the Program's mission, managing PPBio's strategies and work approach.

Diego Gonçalves

Program Components

PPBio's lines of action were defined by the Federal Government at the time of its constitution and guide the selection of initiatives to be supported.



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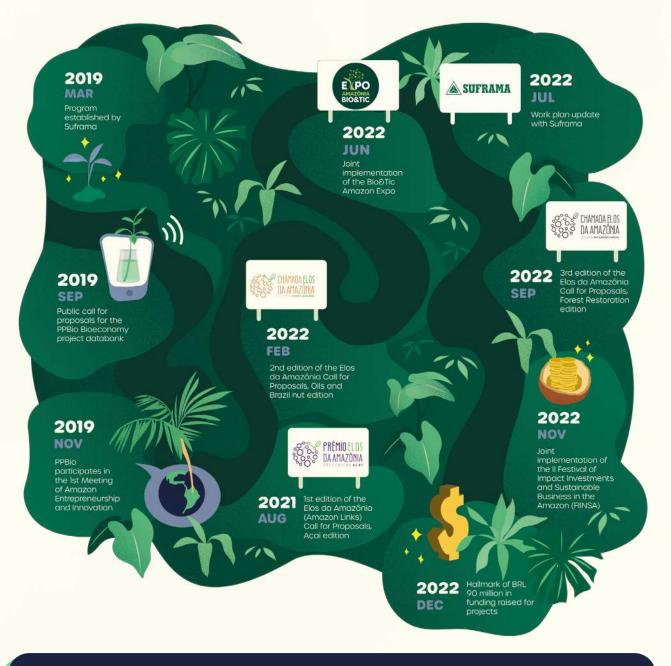
The Bioeconomy Priority Program (PPBio, the acronym in Portuguese), like other existing priority programs within the scope of the Committee of Research and Development Activities in the Amazon (CAPDA), can act as an important mechanism for boosting the business environment and the innovation ecosystem of the region. In this specific case of PPBio, bioeconomy is an aspect that has been prioritized in Suframa's strategic actions and the Autarchy wants the results achieved within the scope of the priority program to be very positive and contribute, alongside other actions in progress, to the strengthening of a segment that is directly linked to the vocations and natural potential of the Amazon.

Leopoldo Montenegro

Deputy Superintendent of Development and Technological Innovation at Suframa, substitute

Timeline

As in the flow of a river, over the course of 4 years, PPBio has traveled paths in different territories, in search of one target: to unblock bottlenecks, promote socioproductive inclusion, and generate solutions in the production chains of the Amazonian bioeconomy. It was a continuous movement, of growing achievements and partnerships.



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We are honored to support the economic development of the riverside population, through PPBio in Manaus, especially those who live from fishing. This initiative is in line with our social actions, mainly aimed at fostering the economy of the community around us.

Hersio Massanori Iwamoto

Manager of R&D and Incentivized Projects at Positivo Tecnologia

Impact thesis _

Production chains

Among the sources

Amount of resources

Industry

Technology Low

Source of Income

PPBio's impact thesis involves connecting knowledge, science, and technology in the Amazon to generate products and solutions for production chains in the region, offering development and innovation for the local bioeconomy. consolidation of It promotes biobusinesses for a sustainable more opportunities future with for socio-productive inclusion and added value for Amazon biodiversity assets.

> Production chains









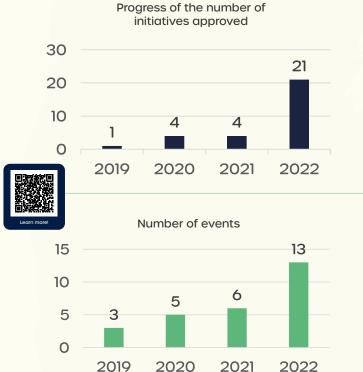




The Elos da Amazônia (Amazon Links) Call for Proposals is an initiative carried out by the Institute for Conservation and Sustainable Development of the Amazon (Idesam), via the Bioeconomy Priority Program (PPBio), and Impact Hub Manaus. This is a public call for proposals that seeks innovative solutions for the challenges faced by the productive chains in the Amazon. It is a way of promoting initiatives and consolidating the solutions that already exist for the sustainable development of the Amazon region. The editions of the call are dedicated to different production chains and the objective is to promote the sustainable development of biodiversity.

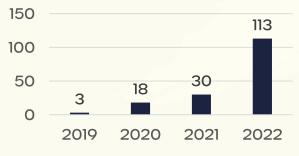


PPBio-Suframa Work Plan





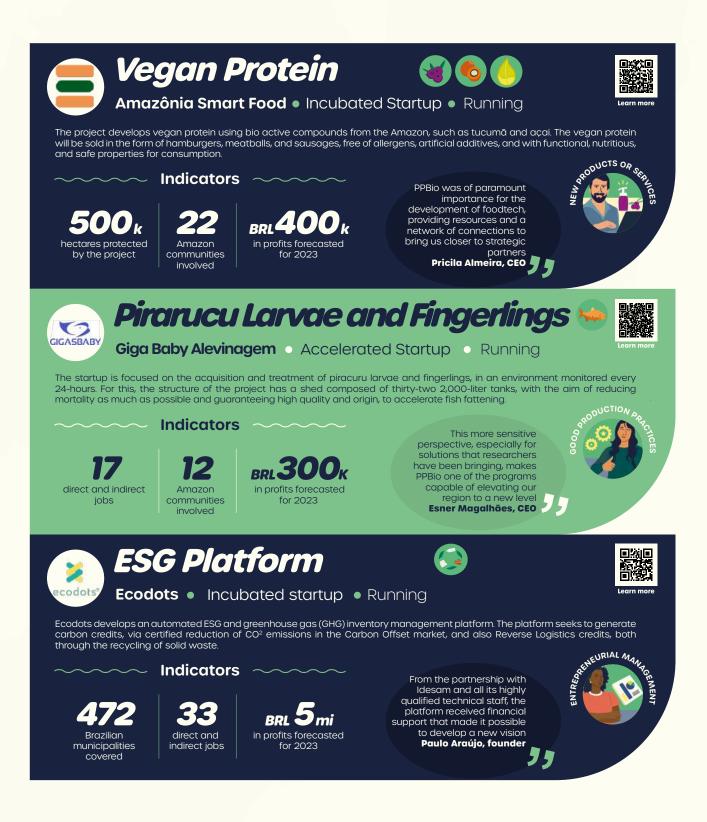
Contribution to SDGs*

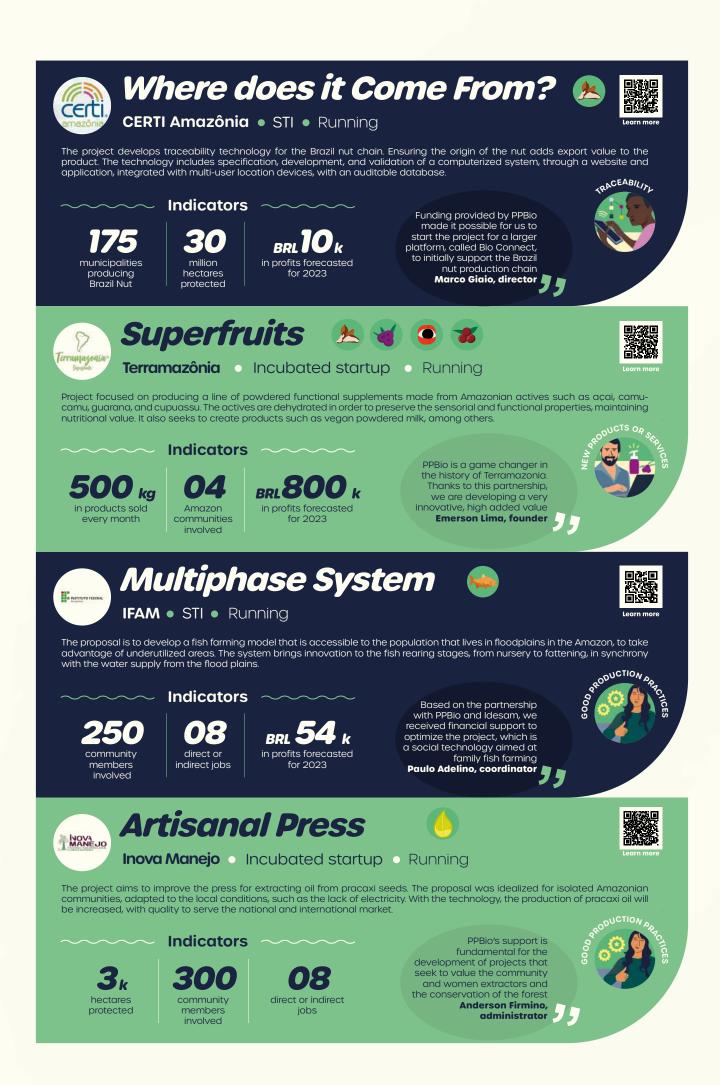


*one initiative may contribute to more than one SDG

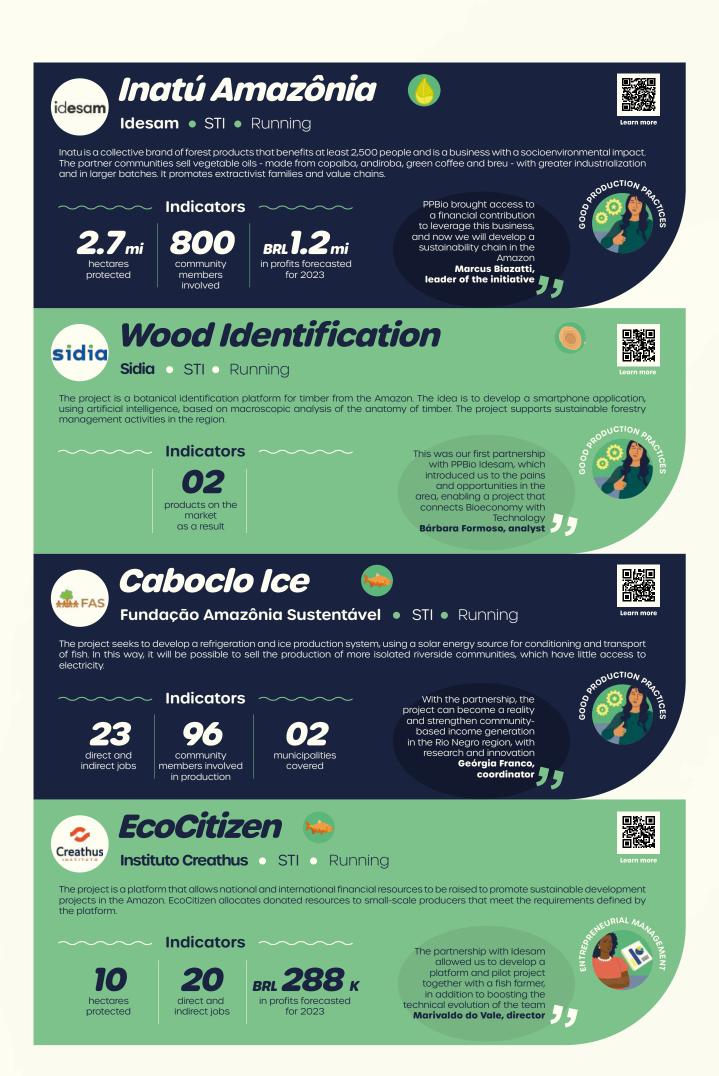
2019-2022 Projects

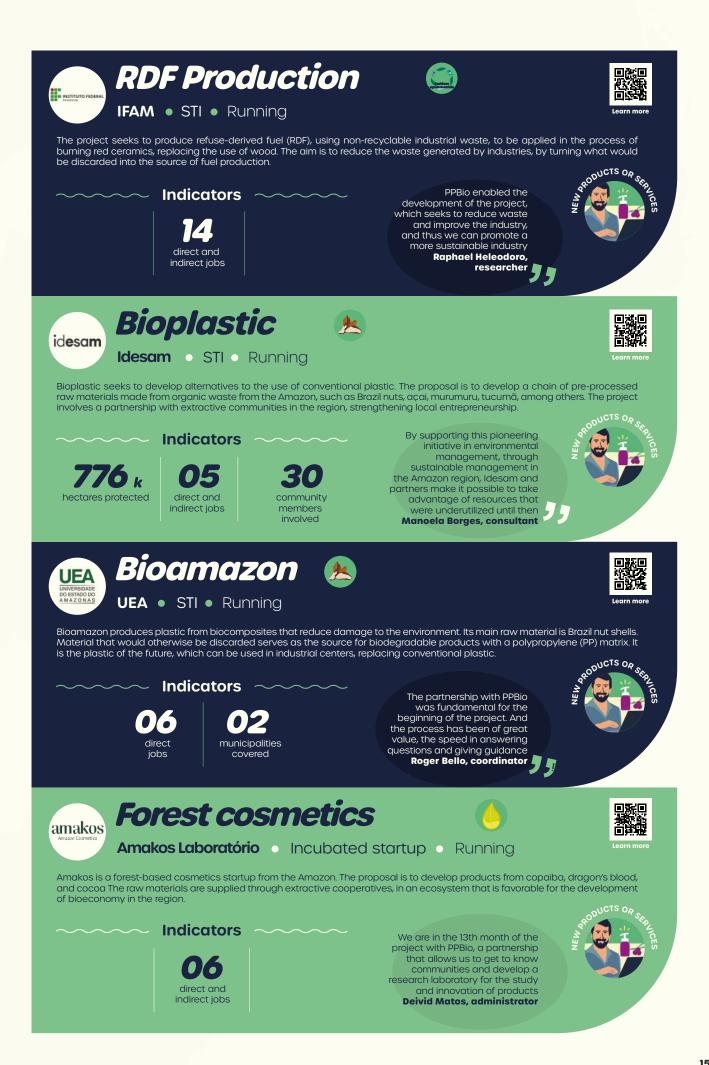
The following is a complete list of projects implemented and/or completed by PPBio between 2019 and 2022

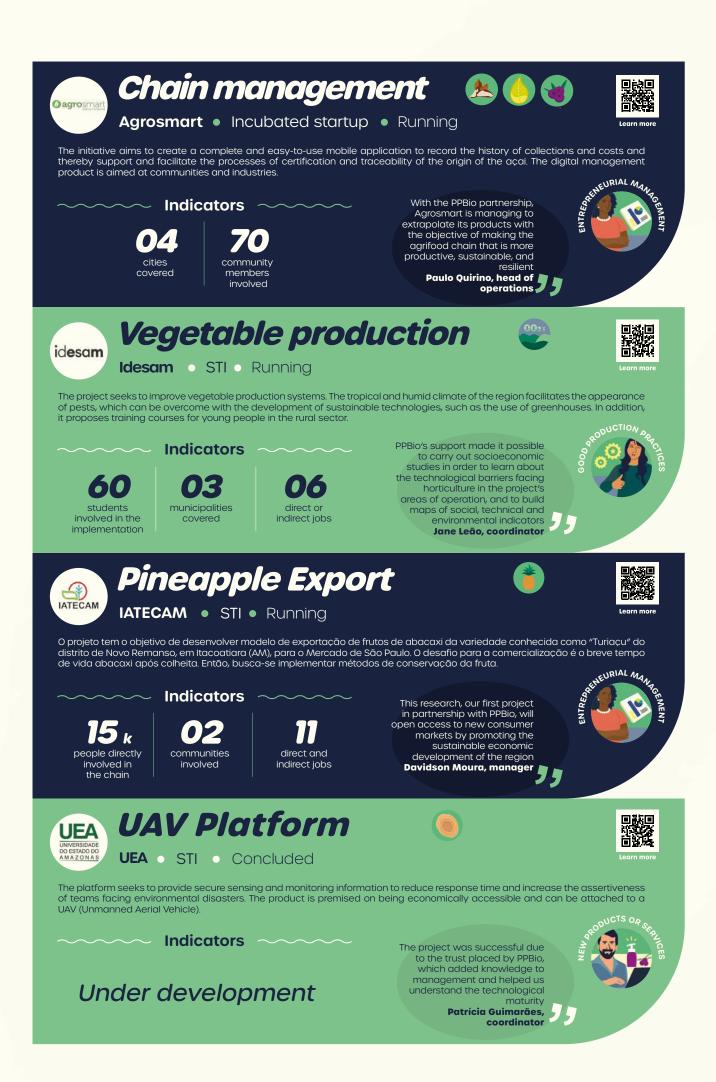


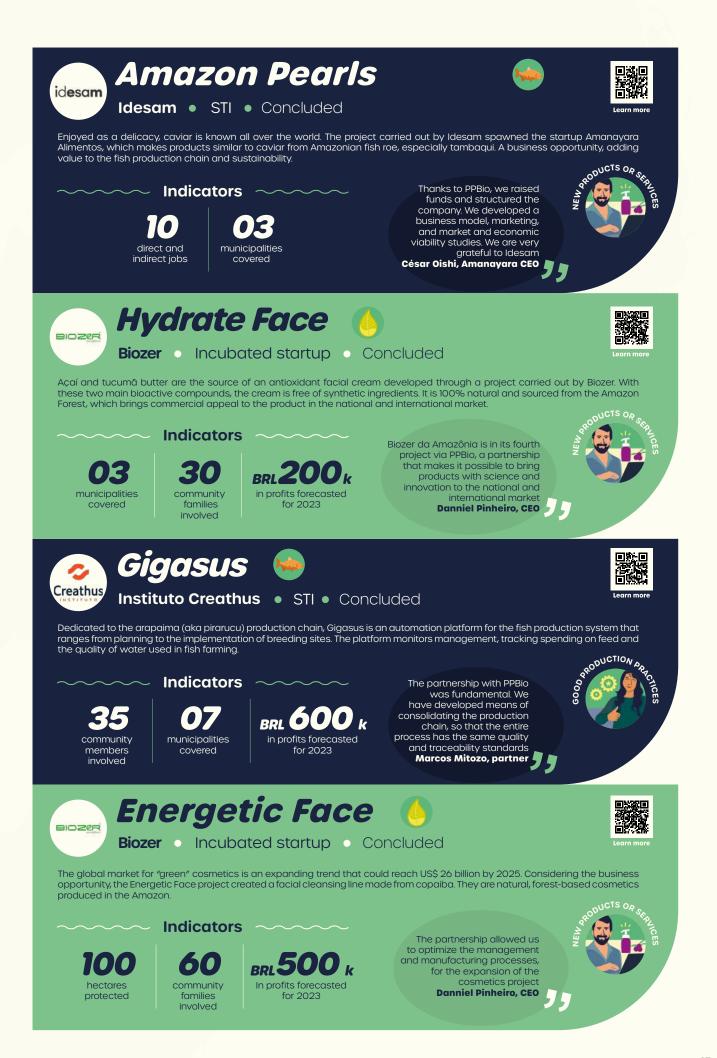


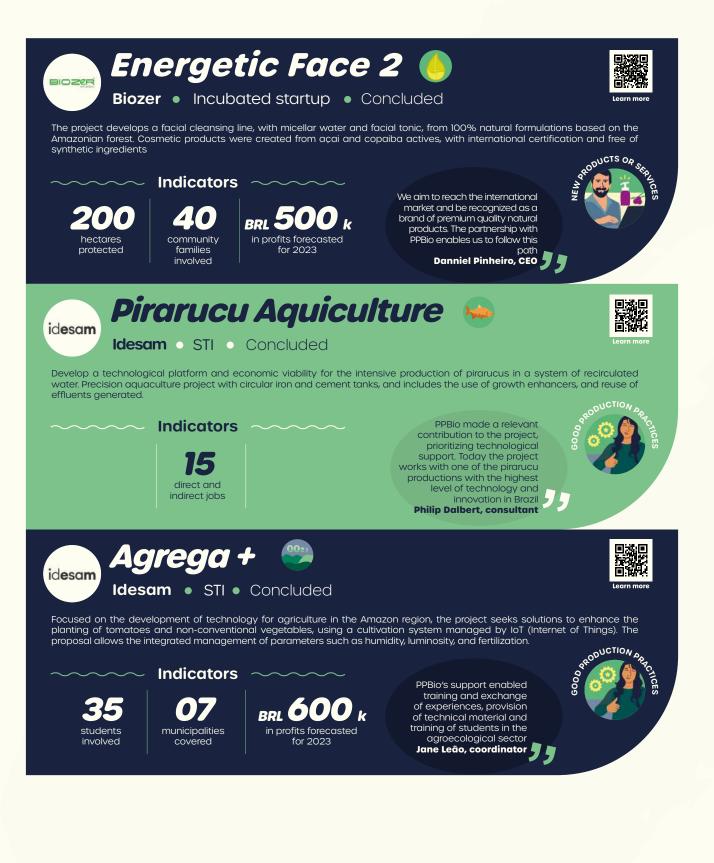














Biozer

Biozer is a beauty, health, and well-being company that develops essentially natural, safe, and sustainable products, with active compounds from the Amazonian biodiversity. Recognized in the national market as the first natural cosmetics brand with certification for the European and Arab market, the startup has lines of hygiene products, perfumes, and cosmetics that include soaps, oils, creams, and moisturizers, in addition to lines of herbal medicines and functional foods, among others. The company was born from the search for bioactive molecules, of natural origin, from organic, selected, and certified raw materials sourced from the forest.

With a socioenvironmental impact, the company partners with families of extractivists in the Amazon, who supply Brazil nuts, andiroba, pracaxi, patauá, muru-muru, açai, cupuassu and tucumā for production. With no physical stores, Biozer da Amazônia works through e-commerce, serving all of Brazil. The brand already exports to Chile, the United States, Canada, and Israel.



MADE IN AMAZÔNIA

BRL

in profits forecasted

for 2023*

Products in the market

RGETIC FAC

Acai

community

families

involved in the implementation*

2

Processina

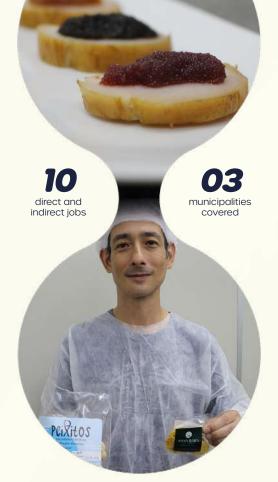
*for product lines supported by PPBic

Communities involved in the harvest

Amanayara

Enjoyed as a delicacy, caviar is one of the most prized foods in the world. With one of the greatest fish biodiversity on the planet, the Amazon has great potential to become a producer of this item. It is with this proposal that the project "Amazon Treasures" was created, executed by Amanayara. Aware of thispotentialmarket, the company specializes in the production of caviar analogues made from Amazonian fish roe. The objective is to work with a co-product of the tambaqui, the ovary and the roe – transforming them into a noble commodity, adding value and launching an unprecedented product – all from Amazonian fish.

This raw material, derived from fish farming, is usually discarded due to lack of proper handling and disposal. The use of this material as a delicacy values species from the region. The processing of roe offers a business opportunity, adding value to the fish production chain and environmental, economic, and social sustainability.





community

members involved

Gigasus

Economic losses in fish farming are one of the main obstacles for the success of the practice in the Amazon region. Based on this problem, the Gigasus and Gigas Baby projects were born, dedicated to increasing the density of the pirarucu production chain, through management follow-up, monitoring expenses with feed, and guarantee the quality of the water used in fish farming.

Gigasus is an automation platform for the fish production system that encompasses everything from planning to running aquaculture farms. The project also develops a production system based on the use of circular tanks that allow the use of small areas, until then considered unfeasible for the practice in the conventional model of fish farming.

A "brother" project, Gigasbaby is responsible for acquiring and treating pirarucu larvae and fingerlings, in an environment monitored 24 hours a day. For this, the structure of the project counts with 150-m² shed, consisting of thirty-two 2-thousand-liter tanks.

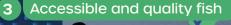


BRL 600 K

in profits

forecasted for

2023



Analysis of fish farming conditions

Farming in tanks with sensors

Terramazônia

Terramazonia Superplants is a technologybased industry that develops products based on Amazonian biodiversity. Seeking to offer a healthy and practical alternative to eating, the brand specializes in powdered fruits, such as açai, camu-camu, guarana and cupuassu, which are dehydrated in order to preserve the sensory and functional properties, maintaining the nutritional value of the fruits. The company also develops blends of natural active compounds from fruits and plants.

The powder format makes it possible to export Amazonian flavors, which can be consumed in the form of juices, ice cream or other food preparations and serve as raw material for the food, pharmaceutical or cosmetics industries. The company uses raw material harvested in a sustainable manner and directly encourages Amazonian riverside communities in planting, guaranteeing the purchase of production at a fair price and offering an income option for these populations.



Healthy and exportable products

🚶 Harvest of sustainable raw material

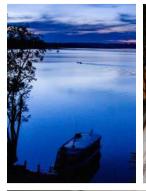
Dehydration

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Technical information

Coordination Carlos Gabriel Koury Editorial and graphic design project **Diego Gonçalves** Illustrations Jambo Estúdio Data **Taiane Freitas** Infographics **Diego Gonçalves** Photography Thiago Looney Fred Rahal **Diego Gonçalves Felipe Martins** Acervo Idesam Drafting Dominik Giusti e Gil Sóter (Tuya Comunicação) Diego Gonçalves Revision Carlos Gabriel Koury Paulo Simonetti Larissa Mahall Marinho





















Public Policy





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coordination



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