

Macauba

Macauba will become a game changer of global business for plant oil and food

The Project

The annual plant oil production is increasing by 6 mio tons per year, for that, 10 mio ha of rainforests are destroyed. Macauba, an native oil palm from Brazil, produces 20 ton of fruits per ha, it grows in semi arid regions, thus the rainforest is protected. Additionally, Macauba binds huge amounts of CO₂, increases the quality and humidity of soils and can be produced in integrated cultures together with cattle, soy, coffee. The second crop and pasture grass grows much better in the shadow of Macauba so that farmers make profit by cultivation. Even in integrated systems, up to 2.5 tons of oil, 0.5 tons of proteins and 1.3 tons of fibers, usable for the production of high quality vegan foods and biodegradable polymers are produced. Food and packaging industry is highly interested in all the fractions of Macauba.

The Team

Location: Fraunhofer IVV

Members: Peter Eisner (Business and Sales), Sergio Toledo (Technology)

AHEAD Infos Batch: 12 / 2023 Phase: 1 Track: Spin off

The Business Model

Unique Selling Proposition: Food ingredients with unique taste, flavor and color for the production of high quality vegan foods with great consumer acceptance

Unfair Advantage: 4 strong patents that protect the ingredients and a harvesting unit. Our patents are the only Macauba-patents globally.

Revenue Model: Production of Ingredients and sales to industry

Venture Readiness Level



Technology Readiness Level



The Side Facts

Customer Focus: B2B

Searching For: Industry / business partners for investment

Industry Tags: Food & beverage, energy, materials

Technology Tags: Agriculture innovation, food alternatives, new materials, zero waste