



PROPOSED LARGE SCALE FARMING *of* CASSAVAS, MAIZE & LADIES FINGERS (OKRA)



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The Agricultural industrial park will focus on large scale planting through hydroponics- vertical farming system and large scale mechanized farming system. The main vegetables produce shall be Cassava, Okra and maize and the proposed IGI Agricultural Industrial Park initiatives shall be as a means to drive rural industrialization and job creation in Guyana and the Caribbean. The park is expected to create over 60,000 new jobs in the rural region.

The park will provide modern infrastructure, and support services to companies, as well as provide opportunities for skills development, and help attract domestic and foreign investment.

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The proposed Agro-industrial Park will be designed and planned to be a well-equipped and engineering prepared site designed for agricultural enterprises in conjunction with scientific, technical and educational institutions, equipped with modern laboratories and exhibition space.



It will act as a communication platform for business, science and education. It will serve as a coordinating and administrative Centre for advanced agricultural enterprises and associated industries. Moreover, it will be a technology center of personnel support for professional training and advanced training of specialists in modern agriculture. The Park will get a complex of unique exhibition spaces for the presentation of innovative soil less planting techniques, technologies and agricultural products.



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The proposed IGI Agro-Industrial Parks (AIPs) in Guyana as defined are units that will add value to agricultural products, both food and non-food, by producing agro products which are marketable, usable, edible, or by improving storability and food security, or by providing the link from farm to market or part thereof.

It will be integrated clustering model that combines different agro-production chains, thus maximizing operational synergies, economies of scale, and income generation activities for the community it is located in.

By targeting the hydroponics vertical farming system, large scales mechanized farming and integration of value-chains, AIPs aim at achieving sustainable development goals in the area in which they are established

The general objective of the proposed agro-park is to support several distinct areas dedicated to processing, logistics platforms, R&D, training, and technology transfer, business incubators, service areas, and other common facilities. Basically, the Agro-park has to fit in a network containing three strategic functions.

- **Rural Transformation Centre:** combining farming, harvesting collection and storage of farmers' products with rural development services;
- **Agro Production and Packaging:** combining production, processing, collection, R&D, trade, and social functions
- **Consolidation Centre:** serves a metropolitan market in a consumer responsive way throughout the year.

Out of a total global production estimated at 8.9 million tonnes (10.68bn), Africa's output make up 22.5 percent valued at \$2.38 billion. Globally, Africa is the second largest producer after India's production volume of 5.51 million tonnes. Other contenders are Sudan, Mali, Pakistan and Ivory Coast.

PROPOSED LARGE SCALE CASSAVA FARMING



cassava farming industry primarily grow different species of cassava for different purposes. As a matter of fact, worldwide, 800 million people depend on cassava as their primary food staple especially in Sub – Saharan Africa, South America and some parts of Asia.

Cassava is known to be the third-largest source of food carbohydrates in the tropics, after rice and maize. Cassava is indeed a major staple food in Africa, providing basic food for over five million people. It is one of the most drought-tolerant crops, capable of growing on marginal soils. Africa is the world's largest producer of cassava, while Thailand is the largest exporter of dried cassava.

Cassava is extensively cultivated as an annual crop in tropical and subtropical regions for its edible starchy tuberous root, a major source of carbohydrates. Although it is often called yucca in Spanish and in the United States, it is important to state that it differs from the yucca, an unrelated fruit-bearing shrub in the Asparagaceae family.



The IGI Cassava Farming Industry will indeed be a very large industry and Agro industrial park much like those thriving in countries in Africa. Thailand, Brazil, Indonesia and Republic of the Congo, global production of cassava root was 368 million tones, with Africa nations as the world's largest producer of nearly 165 million tones or 21 percent of the world total.

As a matter of fact, with the recent advancement in technology, IGI will comfortably grow crops such as cassava, Okra and Maize in Guyana and the Caribbean where such crops can hardly survive.

One thing is certain when it comes to commercial IGI cassava farming, based on our marketing research and feasibility studies before choosing a location for cultivating cassava in the proposed farm, IGI will not struggle to grow the cassava and also to sell the cassava because there are always food processing companies, laundry starch production companies, biofuel production companies, pharmaceutical companies and consumers out there who are ready to buy from IGI.

Lastly, with commercial cassava farming in the Guyana, it will pay us not to only cultivate cassava and sell them to manufacturing companies that depend on cassava as a major raw material. IGI will as well start a complimentary business by selling cassava to local processing plant in Guyana; producing and packaging laundry starch, animal feed or any other product that can be gotten from cassava.



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We have done our detailed market research and feasibility studies and IGI shall secure a well – situated and suitable farm land to start the proposed IGI Agro Industrial Park.

The proposed commercial cassava farm in the IGI Agro Industrial Park is going to be a standard farm hence will be involved in both commercial cassava cultivation and feed production. We will be involved in both organic commercial cassava farming and non – organic commercial cassava farming, sales and exporting.

We have put plans in place that will help us launch a standard and world-class cassava processing plant within the first three years of officially running IGI agro Industrial Park. We will produce laundry starch and animal feeds and ensure that they flood the market both in the Guyana and in other countries of the world.

We want to compete with the best in the industry, which is why aside from the fact that we are working on securing the required farm land through collaborations with Governments and most of the farming equipment and machines, we have also put in place the key employees who are currently undergoing training so as to fit into the ideal picture of the 21st century commercial cassava farm workforce IGI want to establish.

IGI are in the commercial cassava farming business because we want to leverage on the vast opportunities available in the commercial farming industry to contribute our quota in growing the Guyana economy, in national food production, raw materials production for industries, to export agriculture produce from the Guyana to other countries and over and above.

IGI is well positioned to become one of the leading Agro Industrial Park and commercial cassava farms in Guyana and the Caribbean which is why we have been able to source for the best hands and farm machineries to run the farm with.

IGI have put process and strategies in place that will help us employ best practices when it comes to commercial cassava farming and future produce processing, laundry starch and animal feeds production as required by the regulating bodies in the Guyana.

The opportunities that are available cannot be quantified; we know that there are loads of individuals who consume organic and non – organic cassava in different forms both in the Guyana and other parts of the world.

We will ensure that we maximize the opportunities available to IGI. We will ensure that we create business structure and frameworks that will enable IGI to go into biofuel production and the production of other alcoholic beverages from our cassava in future.

LARGE SCALE OKRA FARMING



Introduction

- Lady Finger or Okra is also known as 'Bhindi' and is an important vegetable crop in India.
- It is grown in both tropical and sub-tropical regions and also in the warmer parts of the moderate regions.
- 100g of edible okra's nutritional value gives 1.9g protein, 0.2g fat, 6.4g carbohydrate, 0.7g minerals and 1.2g fibres.
- As a foreign exchanger crop, Okra or Lady Finger has a good potential and it accounts for 65% of the export of fresh vegetables.
- It is cultivated in the area of about 0.35mt/ha and its production is 3.5mt/ha and productivity of 9.6mt/ha.
- Commercial Okra farming is one of the most profitable farming ventures because it is widely accepted vegetables because it the medical and health benefits.

Proposed Large Scale Farming of Cassavas, Maize & Ladies Fingers (Okra)

It is not too difficult to be successful in okra farming. You just need to cultivate your okra crop scientifically. Farming is science and IGI takes it as a very serious business.

Indian and African nations utilize okra, contributing to a \$14.62 billion market and IGI establishing the Agro Industrial Park and going into large scale okra farming and production in the proposed park might not be a mishit and the success rate could even be higher than envisaged should we target specific markets for supply and production in accordance with the recommended and world accepted specifications.

The commodity which is practically a staple food across the world and not only has a nationwide and the Caribbean market for its production, there are also international markets for exportation of the widely accepted commodity.

Out of a total global production estimated at 15.9 million tonnes (14.62bn), India's production volume of 5.51 million tonnes and Africa output make up 22.5 percent valued at \$2.38 billion. Globally, India is the world largest producer followed by Nigeria. Other contenders are Sudan, Mali, Pakistan and Ivory Coast.



With a potential output estimated at approximately five million tonnes, Guyana can shore up production by upgrading the system of production from subsistence farming, as widely being practiced to large commercial scale farming and this presents an opportunity for IGI okra farming initiatives to bridge that gap.

Apart from the primary market for okra, there is also the secondary market which is the processed okra. The commodity can be dried, milled into

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powder and applied to form a cooking constituent.

Besides that, okra seeds can serve as a source of non-caffeinated coffee when it is dried and milled. It is nutritional and good as medicine.

This fiber-rich seed pod, popular across the American South, India, and parts of Africa, is thriving here under Schreiber's care, and Alan's team is harvesting okra daily! Okra is drought tolerant, thrives in hot weather, and is adapted to a range of soil types. Large and leafy okra plants can grow up to eight feet tall, with an impressive taproot that can break up compacted soil layers.

LARGE SCALE MAIZE FARMING



IGI Businesses in the proposed maize (corn) farming in Guyana is to primarily grow corn and produce corn seeds. Corn commonly refers to the grains or kernels of the tall annual cereal grass *Zea mays*, and it is a staple cereal in many parts of the world. In the United States, it is most commonly used as livestock feed and in the production of ethanol, sweeteners, oil and other related products.

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Based on our research, IGI realized that the maize farming industry in Guyana is experiencing decline and falling from historic heights and global demand for maize has renewed. The industry is expected to bounce back from the lows of the previous five-year period. Planted acreage will decrease, leading to a slight decrease in production volumes, which will in turn reduce oversupply and create healthy demand for the crop.

The Maize (Corn) Farming Industry is indeed a very large industry and pretty much thriving in all parts of the world especially in developed countries such as United States of America, Canada, United Kingdom, Germany, Brazil, Australia and Italy

Statistics has it that in the United States of America alone, there are about 141,669 licensed and registered maize farms responsible for employing about 155,526 employees and the industry rakes in a whopping sum of \$51 billion annually with an annual growth rate projected at -0.8 percent.

IGI business research there are very few maize farmers in the Caribbean and all of the are small scale and not commercial.



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The propose IGI large scale maize farm will be a standard farm hence will be involved in commercial maize cultivation, maize processing and packaging. We will be involved in both organic commercial maize farming and non – organic commercial maize farming.

We have put plans in place that will help us launch a standard and world – class maize processing plant within the first three years of officially running IGI Agricultural Industrial Park. We will process and package maize and ensure that they flood the market both in the Guyana, Caribbean and all over south and North America and in other countries of the world.



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We want to compete with the best in the industry, which is why besides from the fact that we have secured the required farm land and most of the farming equipment and machines, we have also hired some key employees who are currently undergoing training so as to fit into the ideal picture of the 21st century commercial maize farm workforce that we want



Presently, IGI are in the commercial commodities and maize farming business and we want to leverage on the vast opportunities available in the commercial farming industry to contribute our quota in growing Guyana economy, in national food production, raw materials production for industries, to export agriculture produce from the Guyana to other countries and over and above to make profit.

IGI will be well positioned to become one of the leading commercial maize farms in Guyana, Caribbean and South and North America, which is why we have been able to source for the best hands and farm machinery to run the farm with. We have put processes and strategies in place that will help us employ best practices when it comes to commercial maize farming as required by the regulating bodies in Guyana.

Our Products and Services

The proposed IGI Agricultural Industrial Park will be a world class commercial farm that is committed to cultivating both organic and non – organic maize (corn) for both the Guyana market and the global market. The proposed Agricultural Park will go into business to produce both food and raw materials for people and industries in commercial quantities. We will also ensure that we operate a standard maize processing and packaging plant as part of our complimentary business.

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We are in this line of business to make profits, and we will ensure that we do all that is allowed by the law of Guyana to achieve our business goals and objectives. These are the areas we will concentrate on in our commercial maize farms. If need arises we will definitely cultivate related crops;

- Cultivation of variety of maize (organic and non – organic)
- Standard Food Processing Plant

Our vision is to become one of the leading commercial maize farms and maize processing and packing brand not just in Guyana but also on the global stage.



We want our well – packaged maize to flood every nooks and crannies of Guyana, Caribbean and other countries of the world and hope to grow big in order to compete favorably with leading commercial maize farms in the commercial farming industry both in Guyana on the global stage.

We are aware of the importance of building a solid business structure that can support the picture of the kind of world class business we want to own. For this reason, we are committed to only hire the best hands in and around Guyana.

The IGI agro Industrial park agroecology initiatives in large scale farming will be organized in five domains: (i) Breeding for diversity, (ii) Scalable complexity, (iii) Managing cycles beyond fields and farms, (iv) Sharing the cultivated landscape, and (v) Co-innovation with farmers, value chains and policy makers.

More and more Agro Industrial Parks around the world are turning away

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from chemical-intensive single-crop farming in favour of production methods based on diversity, local inputs of for example compost, and ecosystem services. This kind of “agroecological” farming has seen a revival in recent years as a response to the many challenges facing agriculture globally. There is growing evidence that agroecological farming systems keep carbon in the ground, support biodiversity, rebuild soils, and sustain yields, providing a basis for secure livelihoods. [1]

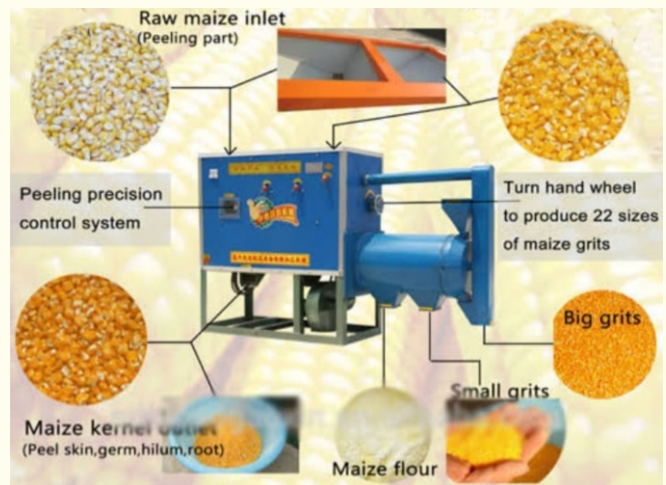
IGI agroecology initiatives has the explicit goal of strengthening the sustainability of all parts of our food production system, from the seed and the soil, to the table, including ecological knowledge, economic viability, and social justice.

To reach this goal, IGI agroecological methods will strive to minimize or exclude the use of fossil fuels, chemical inputs such as fertilisers and pesticides, and large-scale monocropping – cultivation of a single crop on vast tracts of land in our farm.

IGI Agroecology initiatives towards farming may result in a renewed impetus to attract the youth, foster clean technological innovation, and to promote a new generation of large-scale farmers in Guyana that take pride in contributing to feeding the world while serving the planet and its people.



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