



PRODUCTION OF WATER AND SOFT DRINKS



DESCRIPTION::	Increase the production of water and soft drinks for the domestic market, chains of stores and tourism.
INVESTMENT TYPE:	Joint Venture
CUBAN PARTY:	Corporación Alimentaria S.A (Coralsa)
ESTIMATED INVESTMENT:	31 million USD.
LOCATION:	Yaguajay municipality, Sancti Spiritus province
MARKET POTENTIAL:	The demands of the tourism sector and the domestic market, specifically in the central region. Current production in the country is concentrated in the western part of the Island and a project is being developed in the eastern area of the country. We foresee entering the export market.
ANTICIPATED RESULTS:	Increased offers of these products on the domestic market, replacing imports. We hope to annually obtain 100 million litres of wate and soft drinks during the 20 year validity period of the business, going to the national market and exports to the Caribbean. We foresee revenues of over 679 million dollaea in 17 years, which would allow for an investment recovery period of 9 years.
CONTACTS:	Corporación Alimentaria S.A. (Coralsa) Email: negocios@coralsa.com.cu Teléfonos: (53) 7 021194 / 72022055



PRODUCTION OF WHEAT FLOUR (4 PROJECTS)

DESCRIPTION:	Increase the efficiency of wheat flour production and its quality, in accordance with international standards, saving foreign currency as imports are replaced
INVESTMENT TYPE:	International economic partnership agreement.
CUBAN PARTY:	Empresa Cubana de Molinería.
ESTIMATED INVESTMENT:	8.4 million USD.
LOCATION:	UEB Cereales Turcios Limas, Regla municipality, La Habana province UEB Cereales José Antonio Echevarría (JAE), Regla municipality, La Habana province UEB Cereales Cienfuegos, Cienfuegos municipality, Cienfuegos province UEB Cereales Santiago de Cuba, Santiago de Cuba municipality, Santiago de Cuba province
MARKET POTENTIAL:	Meeting the national production needs for wheat flour and its byproducts.
ANTICIPATED RESULTS:	Increase the offers of this product on the domestic market. We hope to annually obtain 153 million tons of white flour and 4,000 tons of subproducts for animal feed during the 10 year validity period of the business going towards the national market.
CONTACTS:	Business Division, Grupo Empresarial de la Industria Alimentaria Email: presidencia@geia.cu / daiana.matech@geia.cu / eduardo.hernandez@geia.cu Tel.: (53) 78611676/ 78698257 / 72021194 / 72022055



PRODUCTION OF VINEGAR (2 PROJECTS)



DESCRIPTION::	Increase and diversify the production of top quality vinegar with more efficient technology without adversely affecting the environment, ensuring its bottling for the domestic market, thus permitting product diversification and increasingly meeting the demands of the domestic market, allowing for replacing imports and entering the export market.
INVESTMENT TYPE:	Contrato de asociación económica internacional para la administración productiva.
CUBAN PARTY:	EMBER Ciego de Ávila y EMBER Camagüey.
ESTIMATED INVESTMENT:	3-4 millones de USD.
LOCATION:	Fábrica de Vinagre La Esprituana, Sancti Spiritus municipality, Sancti Spiritus province Fábrica de Vinagre y Vino Seco Elite, Camagüey municipality, Camagüey province
MARKET POTENTIAL:	Replace bulk distribution by bottling all of the increased production in order to meet part of the unsatisfied demand on the domestic market and enter the external market.
ANTICIPATED RESULTS:	Increase the offers of these products on the domestic market, replacing imports. We hope to annually obtain 8 million litres of vinegar during the 10 years of the business validity, going to the domestic market and exporting to the Caribbean. We foresee revenues of over 69 million dollars which would see an investment recovery period of 2 years.
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**PRODUCTION OF PASTA
(SHORT, LONG AND
NOODLES) (3 PROJECTS)**





DESCRIPTION:	Restore and increase the capacities for producing pasta. Increasing varieties for the domestic market, replacing their imports and entering the export market.
INVESTMENT TYPE:	International economic partnership agreement
CUBAN PARTY:	Empresa de Confitería y Derivados de la Harina.
ESTIMATED INVESTMENT:	9-10 million USD.
LOCATION:	Unidad de Producción Martha Abreu, Cruces municipality, Cienfuegos province Unidad de Producción Pastas Largas Noel Fernández, Minas municipality, Camagüey province. Unidad de Producción Pastas y Caramelos, Santiago de Cuba municipality, Santiago de Cuba province.
MARKET POTENTIAL:	There is great demand for pasta from the various tourist resorts in Cuba and from the chains of stores, and this could be partially met with the results of this project, offering an assortment of products that would replace imports and enter the export market
ANTICIPATED RESULTS:	Increasing offers of these products on the anaional market, replacing imports. We hope to annually obtain 13,000 tons of pasta during the 10 year validity period of the peoject going to the national market and exportation. We foresee revenues of more than 157 million dollars in 10 years which would permit an investment recovery period of 2 years.
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**PRODUCTION OF PASTA
(SHORT, LONG AND
NOODLES)**



DESCRIPTION:	Restore and increase the capacities for producing pasta. Increasing varieties for the domestic market, replacing their imports and entering the export market.
INVESTMENT TYPE:	Joint venture
CUBAN PARTY:	Corporación Alimentaria S.A. (Coralsa).
ESTIMATED INVESTMENT:	20 million USD.
LOCATION:	UEB Pastas Alimenticias Vita Nuova, San José municipality, Mayabeque province
MARKET POTENTIAL:	There is great demand for pasta from the various tourist resorts in Cuba and from the chains of stores, and this could be partially met with the results of this project, offering an assortment of products that would replace imports and enter the export market
ANTICIPATED RESULTS:	Increase the offers of these rproducts on the antional market, replacing imports.
CONTACTS:	Corporación Alimentaria S.A. (Coralsa) Email: negocios@coralsa.com.cu Tel.: (53) 7021194 / 72022055



**Pharmaceutical and
biotechnological
sector**

Grupo de las Industrias Biotecnológica y Farmacéutica or BioCubaFarma, produces medicines, highly technological equipment and services based on the country's scientific-technical development, to improve the health of the Cuban people and to generate exportable goods and services, as well as the production of foods, with state-of-the-art technology. We also manufacture generic products and last generation drug compounds as well as systems for early diagnosis and the prevention of malignant tumors, malformations, inherited metabolic diseases, etc.

We also offer products based on natural and traditional medicine, agricultural research and technologically advanced medical equipment in nanotechnology, the neurosciences and neurotechnology. The high scientific level of human resources in the Cuban biopharmaceutical industry ensures the quality and competitiveness of their projects.

SECTORIAL POLICY

To promote foreign investment projects to build new facilities to manufacture generic drugs, develop and manufacture biotechnological, novel and biosimilar products, primarily for export.



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Likewise, it promotes direct foreign investment in Cuba, fundamentally in the Mariel Special Development Zone which is making significant contributions to the growth of this sector via its regulatory framework which favours companies wishing to invest in high added value research-production facilities.



► OPORTUNIDADES DE NEGOCIO



SETTING UP FACILITIES FOR CYTOSTATIC PRODUCT PRODUCTION



DESCRIPTION:

To create a facility that operates through Manufacturing Agreements to manufacture cytostatic products. This facility has to be able to provide Cuban and foreign entities with final filling and packaging services that comply with the international regulations of agencies such as the Food and Drug Administration and the European Medicines Agency, in order to facilitate the commercialization of the products of national and international clients worldwide. The facility has a manufacturing line of cytostatic products in liquid and lyophilized vials with a capacity of 10 million units per year and a line for cytostatic products in oral doses of a capacity of 70 million units per year. Dosis orales de capacidad de 70 Millones de unidades al año'

INVESTMENT TYPE:

International Economic Partnership

CUBAN PARTY:

Laboratorios AICA+

ESTIMATED INVESTMENT:

30 million USD

LOCATION:

La Lisa municipality, Havana province.

CONTACTS:

Name: Antonio Emilio Vallín García
 Position: Director General, Laboratorios Aica
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PLANT FOR THE PRODUCTION AND COMMERCIALIZATION OF PRODUCTS DERIVED FROM HUMAN PLACENTA



DESCRIPTION:

Building a plant to produce and sell products derived from human placenta, fulfilling manufacturing good practices standards, for the production of medicines to treat diseases such as vitiligo, psoriasis and alopecia areata, as well as the production of cosmetics with therapeutic action, for the face, body and hair, as well as nutritional supplements, fundamentally for export

INVESTMENT TYPE:

Joint Venture

CUBAN PARTY:

Centro de Histoterapia Placentaria (Hisplacen).

ESTIMATED INVESTMENT:

56 million USD.

LOCATION:

La Lisa municipality, Havana province

CONTACTS:

Name: Silvia Vera Sheltón
 Position: Director General
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PRODUCTION AND COMMERCIALIZATION OF SEMI-SOLID MEDICINES



DESCRIPTION:

Building a plant for the pharmaceutical production of semi-solid products, with the productive capacity for 65 million physical units to meet national demand and for export

INVESTMENT TYPE:

International economic partnership

CUBAN PARTY:

Empresa Laboratorio Farmacéutico Roberto Escudero

ESTIMATED INVESTMENT:

16 million USD.

LOCATION:

El Cano, La Lisa municipality, Havana province.

CONTACTS:

Director General's Office
 Email: miguel@re.biocubafarma.cu



PRODUCTION AND
COMMERCIALIZATION OF
A VACCINE FOR CLASSIC
PORCINE DISEASE
(PORVAC)



DESCRIPTION:

Building and setting up a plant for the fermentation and formulation of the finished product, permitting production of the vaccine in Good Manufacturing Practices conditions in order to increase productive capacities and to improve facility standards.

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Centro de Ingeniería Genética y Biotecnología (CIGB).

ESTIMATED INVESTMENT:

7 million USD.

LOCATION:

Camagüey municipality, **Camagüey** province.

CONTACTS:

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▶ **Agro-industry sector for sugar and its byproducts**



Since the introduction of sugarcane to Cuba, the sugar agro-industry has always been one of the most important elements in Cuban production, throughout the country's history.

Azcuba is the business group in charge of governing the entities making up the sugar agro-industry for developing sugar production, electrical power, sugar cane byproducts and foods for human and agricultural consumption.



SECTORIAL POLICY

To promote projects directed towards modernizing and increasing the use of installed capacities, promoting efficiency and high yield, sugar quality, growth and diversification of exports, byproduct availability and the growth of the production derivatives with a focus on energy.

Businesses to recapitalize existing sugar mills and build new agro-industrial sugar factories will be considered, including in both cases financing of sugarcane production.



▶ **CONTACTS**

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TOP PRODUCTS AND SERVICES

- Raw Sugar:** tradition and recognized quality of this Cuban product .
- Refined Sugar:** acknowledged quality, it is mainly used in the domestic market
- Ecological Products (Organic):** there is a growing export market for its byproducts with organically-grown fruit, honey and its byproducts, alcohol and rum
- Alcohol, ron, aguardientes y licores:** prestigious, quality products that are exported and could become leaders in some countries
- Sorbitol-FOS:** a quality product whose exportation could grow. Knowledge and know-how acquired in the management of its production using glucose from different origins could become an exportable service
- Phytomas:** both the product and the knowledge and skill used to make it may be exported or it could be manufactured abroad

THE CUBAN PARTY PARTNERED WITH FOREIGN INVESTMENT BUSINESS:

ZERUS S.A Shareholder Zerus S.A., shareholder, is a limited company of Azcuba in charge of promoting foreign investment in the different types associated with the agroindustrial sugar sector in Cuba and abroad. It was born on 23 September 1997 as Quiminaz, and in 2005 changed its name to the name it has today. It would like to ensure for the sector the search for new business and the growth of existing businesses in order to complement its management with financing, market and technology taking into account the established norms of social and environmental responsibility.



► BUSINESS OPPORTUNITIES



MANAGING SUGAR MILLS WITH BIOELECTRICAL POWER (2 PROJECTS)



DESCRIPTION:	This project consists of ensuring sugar cane production sustainability, maximizing the capacity of producing syrup and sugar, generating power and efficiency in the sugar mill, using managerial methods and systems for quality management that permit making the productions competitive. Generation of power is ensured with modernizing the energy area of the sugar mill.
INVESTMENT TYPE:	International economic partnership agreement for productive administration
PCUBAN PARTY:	Zerus S.A.
ESTIMATED INVESTMENT:	120-150 million USD.
LOCATION:	Central Mario Muñoz, Los Arabos municipality, Matanzas province Central Grito de Yara, Río Cauto municipality, Granma province
MARKET POTENTIAL:	Sugar is a product in demand all over the world, traditionally traded on the stock markets. Increasing its quality we can access new markets. Syrup from sugar generates revenues and other sugar cane byproducts permit us to raise the added value of productions. All energy produced will be bought by the Unión Eléctrica Nacional, to be used in the domestic market.
ANTICIPATED RESULTS:	Management will be paid and there are incentive payments, both associated with fulfilling the sugar plan. All produced energy is bought by the Unión Eléctrica Nacional to be used in the domestic market, thereby replacing imports. We estimate average annual profits of 5 million dollars.
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PRODUCTION OF FOS (FRUCTO OLIGO SACCHARIDES) & SORBITOL



DESCRIPTION:	Recover the capacity and efficiency of the existing sorbitol factory. We foresee the production of oxygen and via new technology to install, produce a derivate (FOS) of greater added value.
INVESTMENT TYPE:	Joint venture
PCUBAN PARTY:	Zerus S.A.
ESTIMATED INVESTMENT:	19 million USD.
LOCATION:	Sorbitol Factory adjoining the Ignacio Agramonte sugar mill, Florida municipality, Camagüey province.
MARKET POTENTIAL:	FOS are new products with high added value, one of whose catalyzer manufacturing technologies is originally Cuban. The FOS domestic market is not enough and we need to promote it abroad. Sorbitol is used in the manufacture of toothpaste, cosmetics, food and medicinal products advantageously replacing glycerin and in the production of Vitamin C. On the domestic market it is liked with Suchel, and the food and pharmaceutical industries. The syrup which is rich in fructose is used as a sweetener, replacing traditional sugar; its price is higher than that of sugar. FOS is used as a food additive exercising a probiotic function, aiding its digestibility, improving intestinal flora and strengthening reserves in prolonged periods of illness. The US, Japan and Brazil are the main producers. Annual prediction of 2,000 tons of FOS and 5 000 tons of sorbitol, with both products being exported. We estimate average annual profits of over 2 million dollars, thereby permitting an investment recovery period of 5-7 years.
ANTICIPATED RESULTS:	
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► ENLARGEMENT AND MODERNIZATION OF A RUM FACTORY (4 PROJECTS)

DESCRIPTION:	This project envisions the production, commercialization and distribution of rum on the international market, mainly in Europe and on the domestic market in foreign currency. Rums are recognized for their quality but they need to have access to new markets. They also need access to financing to enlarge and modernize the rum factories and improve them to handle the export market.
INVESTMENT TYPE:	Joint venture
CUBAN PARTY:	Zerus S.A.
ESTIMATED INVESTMENT:	6-10 million USD.
LOCATION:	Rum Factory adjoining the Central Heriberto Duquesne, Remedios municipality, Villa Clara province Rum Factory adjoining the Central Antonio Sánchez, Aguada de Pasajero municipality, Cienfuegos province. Rum Factory adjoining the Central Melanio Hernández, Taguasco municipality, Sancti Spiritus province. Rum Factory adjoining the Central Amancio Rodríguez, Amancio Rodríguez municipality, Las Tunas province.
MARKET POTENTIAL:	This project fundamentally addresses the exportation of Cuban rum, as well as its sales on the domestic market in chains of stores, hotels and in out-of-hotel food services. Export would be fundamentally directed to wherever the partner operates.
ANTICIPATED RESULTS:	We estimate annual rum production of 500 000 to 1 million boxes, representing average annual profits of 4 million dollars, providing an investment recovery period of 3 to 4 years.
CONTACTS:	International Relations, Business and Foreign Investment Division, Azcuba Email: lourdes.castellanos@azcuba.cu Tel.: (53) 78325087

► MODERNIZING BOILER FACTORY

DESCRIPTION:	This project is based on being able to recapitalize the existing factory to design and build steam boilers, in particular for sugar cane biomass, pressure recipients, their parts and components, and to provide technical assistance services, design, setting up and maintenance. Introduce technology and brands that permit producing internationally acknowledged high pressure, efficient boilers.
INVESTMENT TYPE:	Joint venture.
CUBAN PARTY:	Zerus S.A.
ESTIMATED INVESTMENT:	15 million USD.
LOCATION:	Sagua la Grande municipality, Villa Clara province.
MARKET POTENTIAL:	New boilers and their components may be used in the programme of bioelectrical plants and the modernization of boilers in sugar mills, besides spare parts and components for existing boilers. The investment would permit designing exportable products.
ANTICIPATED RESULTS:	Export of boilers, promoting linkups with national industry.
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► DIVERSIFIED PRODUCTION OF ORGANIC PRODUCTS

DESCRIPTION:	This project consists of promoting sugar and organic syrup production to the maximum at the Central Azucarero Carlos Baliño, involving increased production of organic sugar cane. We foresee setting up a mini-distillery for the objective of encouraging the production of alcohol, spirits and organic rum, covering expectations on the international market, closing the productive cycle and seeking to add added value to the production of sugar.
INVESTMENT TYPE:	Joint venture
CUBAN PARTY:	Zerus S.A.
ESTIMATED INVESTMENT:	20 million USD.
LOCATION:	Central Azucarero Carlos Baliño, Santo Domingo municipality, Villa Clara province
MARKET POTENTIAL:	Organic products are beneficial to health and more and more people are choosing them. Their demand is greater in Europe and the US but their use is worldwide. These products may be commercialized tax-free, going to national and international tourism
ANTICIPATED RESULTS:	Export of raw sugar in various formats, syrup, alcohol, rum and powdered panela, all organic
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► CONSTRUCTION AND SETTING UP OF A SUGAR MILL OF UP TO 20,000 TCD WITH ANNEXED REFINERY AND DISTILLERY

DESCRIPTION:	This project consists of building a diversified sugar mill, fitting in with state of the art conditions in the world sugar industry, with high standards for efficiency in productive and energy processes
INVESTMENT TYPE:	Joint venture
CUBAN PARTY:	Zerus S.A.
ESTIMATED INVESTMENT:	580 million USD.
LOCATION:	Selected from among 3 zones in Cuba
MARKET POTENTIAL:	Sugar is a product in demand all over the world, traditionally traded on the stock markets. Increasing its quality we can access new markets. Syrup from sugar generates revenues and other sugar cane byproducts permit us to raise the added value of productions. All energy produced will be bought by the Unión Eléctrica Nacional, to be used in the domestic market.
ANTICIPATED RESULTS:	Production of up to 240,000 tons of sugar, production of syrup, alcohol, other byproducts and generating of up to 212 GWh of electrical power. We foresee obtaining average annual profits of up to 20 million dollars permitting an investment recovery period of 8-10 years.
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MODERNIZING BOILER
 ► FACTORY AT EXISTING
 SUGAR MILLS

**DESCRIPTION:**

This project consists of ensuring sugar cane production sustainability, maximizing the capacity of producing syrup and sugar, generating power and efficiency in the sugar mill, using managerial methods and systems for quality management that permit making the productions competitive. Generation of power is ensured with modernizing the energy area of the sugar mill.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Zerus S.A.

ESTIMATED INVESTMENT:

100-120 millones de USD.

LOCATION:

Central Azucarero Héctor Molina, San Nicolás de Bari municipality, **Mayabeque** province

MARKET POTENTIAL:

Sugar is a product in demand all over the world, traditionally traded on the stock markets. Increasing its quality we can access new markets. Syrup from sugar generates revenues and other sugar cane byproducts permit us to raise the added value of productions. All energy produced will be bought by the Unión Eléctrica Nacional, to be used in the domestic market.

ANTICIPATED RESULTS:

Export of sugar, alcohol, generation of power

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Industry sector



The Ministry of Industries promotes projects permitting the modernization and enlarging of productive capacities in order to meet internal demands, replacing imports, from linkups with strategic sectors and principal programmes, and at the same time generating exportables.

Execution of these projects will allow us to materialize productive activity for economic growth at the same time as sustaining industrial development in the use of transfers of advanced technology and productive know-how and sources of renewable energy.

In this manner the sector projects increased production of packaging and packing, manufacturing electronic equipment and appliances, chemical products and their byproducts, medical equipment, textiles, footwear and manufacturing associated with the steel-mechanical and recycling industries.

Some production priorities: cans, paper, flexible, cardboard containers for tobacco, increasing capacities for the design and production of metal structures, tires and rubber articles, electrical wiring, consumer goods for the population and those including increased industrial recycling and the use of renewable energy sources, with the premise that projects are validated by market studies and economic viability calculations.

The sector has a total of 124 producer and service companies scattered throughout Cuba.



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CUBAINDUSTRIA

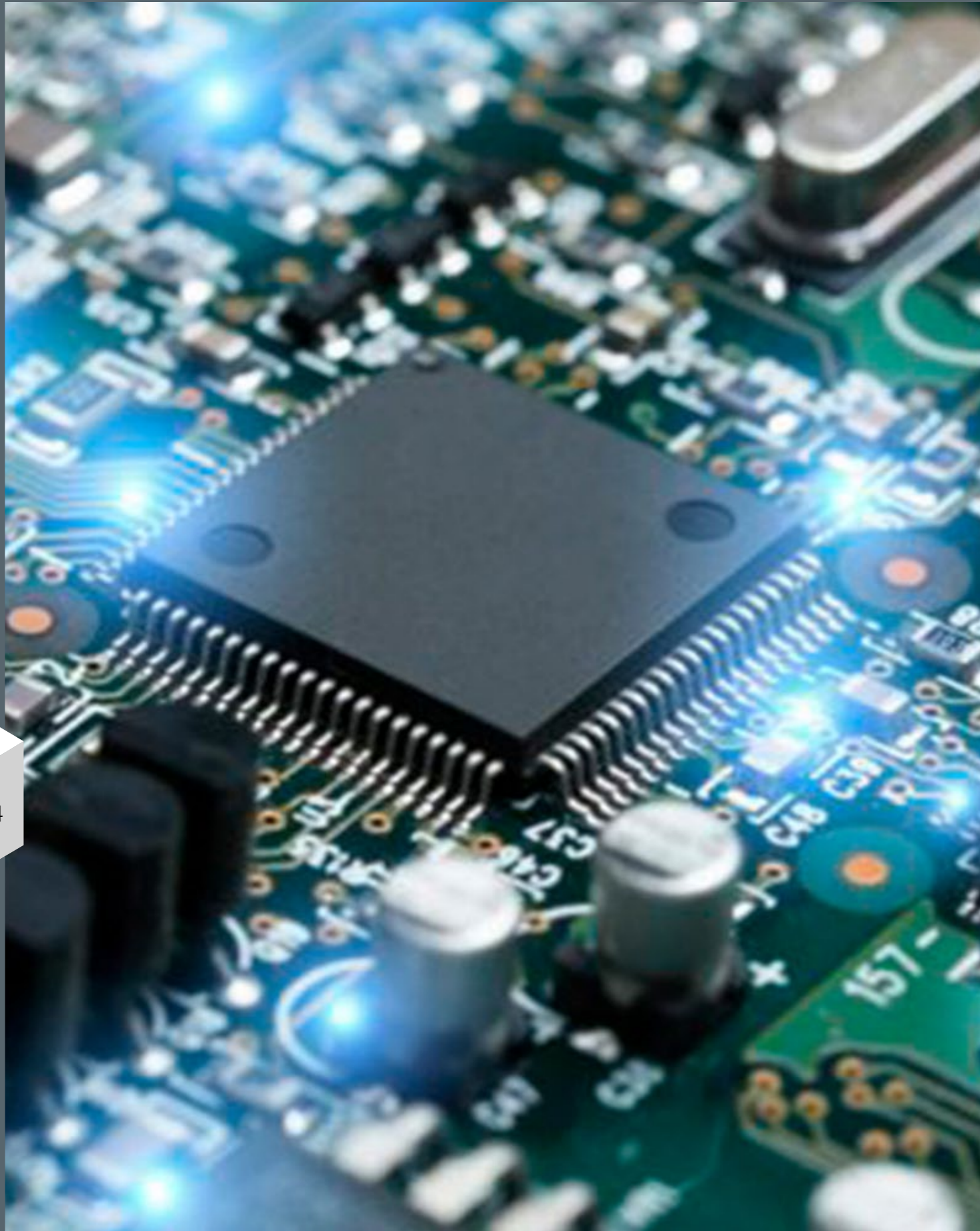
Every 2 years the convention and international exposition called Cubaindustria is held: it is an opportunity for scientific, academic and professional exchanges among Cuban and foreign specialists in this sector.

Cubaindustria is the ideal opportunity to view products, machinery, new technology, spare parts and components, and to formalize trade agreements, strategic alliances, development agreements, partnerships and agreements for new supply alternatives.

SECTORIAL POLICY

To promote projects in order to transform, modernize and create new industrial capacities prioritizing those products with significant impact in strategic sectors, combining innovative development, import substitution and export orientation, based on increased competitiveness and enhancing industrial automation and computerization of production processes.





Electronics industry

The Electronics Group promotes foreign investment projects to modernize and/or create new capacities, for the objective of meeting national demands, replace imports and generate exports as the result of updating technology, creating new product and services lines, and attaining productivity and competitiveness levels for productions that meet international standards, within the concept of setting up

productive linkups with other sectors in the country and alliances with foreign companies that allow us to insert our products into the world markets.

This sector is very dynamic, developing flexible industries and its highly qualified personnel are able to quickly convert processes and give added value to products.

THE FOLLOWING BUSINESS LINES HAVE BEEN IDENTIFIED AS STRATEGIC:

Energetic Efficiency	linked to the production and development of products with a low level of energy consumption (efficient products). This production will have a wide range including household appliances, induction cooking systems, LED interior lighting systems, LED street lighting, domestic water heaters, industrial steam generation systems, air conditioning, and refrigeration systems, among others.
Renewable Energy Sustainable Development	production of electricity generation systems through photovoltaic solar panels, energy storage systems and water treatment systems (desalination and waste processing)
Automation	application in the industrial, residential and public sectors: protected crop systems, access control and specialized electrical systems, among others.
Fire and security systems	access control, firefighting systems, security, active and passive surveillance.
Electronics in general	refers to the production of widely used electronic equipment, accessories, parts and equipment.
Electronic measurement systems and instruments	Development, design and production of computer solutions, equipments and components of communications with computer application of national provenance.
Sistemas e instrumentos de electrónicos de medición	design and production of electronic measurement systems and instruments for a wide range of application in the public, industrial and commercial sector.
Medical equipment	Associated with the design, production and enhancement of medical equipment, hospital facilities and their infrastructure, as well as food service furniture.



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► BUSINESS OPPORTUNITIES



PRODUCTION, MARKETING AND SUSTAINABILITY OF ELECTRONIC FUNDS TRANSFER SYSTEMS.

**DESCRIPTION:**

To create design, production, commercialization and service rendering capacities in the national territory with the potential to export a range of equipment, instruments and electronic fund transfer systems that constitute an integral solution that combines the intelligent financial solution, the communication solution and the information security solution.

In this sense, this project allows us to reach the objective of completing efforts and results that directly impact the elevation of the technological infrastructures, which includes, among other actions, the following ones:

- To continue updating the technological infrastructure, in order to enable the total electronic inter-connection of Banks and the introduction, on a larger scale, of electronic means of payment;
- To consolidate the use of electronic means of payment (ATM, electronic cards, POS and others);
- To achieve staggered growth in the connection of customers with their bank for payment transactions; and
- To contribute to the improvement of the system of collections and payments of Cuban companies.

INVESTMENT TYPE:

Joint Venture.

CUBAN PARTY:

INVERTRONIC, S.A.

ESTIMATED INVESTMENT:

5.7 million USD

LOCATION:

Playa municipality, Havana province

MARKET POTENTIAL:

National market demands, supported by flexible technology and organization allowing us to adapt to their characteristics. We foresee a wide assortment of products and services including the production and commercialization of ATMs, POS, cash registers, intelligent cards and all their support systems, as well as their maintenance and sustainability services. By 2020 we estimate a demand for 675 ATMs, 89,452 cash registers, 14,438 POS, 2,004 PC/POS and more than 10 million cards.

We also foresee exporting these products

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DESIGN, PRODUCTION AND MARKETING OF PLASTIC DISPOSABLE MEDICAL SUPPLIES

**DESCRIPTION:**

To create capacities for the design, production, marketing and sale of plastic disposable medical supplies The project foresees:

- The acquisition of technological equipment as well as the necessary tooling for the design and manufacture of plastic disposable medical supplies, as well as the purchase of equipment and means of transportation, handling and loads lifting.
- To increase the staff technical and professional training.
- To be able to operate with minimum inventory levels, and at the same time to achieve a high use of the installed capacities.

INVESTMENT TYPE:

Joint Venture.

CUBAN PARTY:

INVERTRONIC, S.A.

LOCATION:

Playa municipality, Havana province

MARKET POTENTIAL:

We have identified that about 20 assortments can be produced nationally in a first stage by eliminating their imports, which comprise a volume of more than 13 million units annually. The list of these assortments includes, among others: Culture vials with screw caps, Oxygen masks (3 sizes), Urine collection bags, Balloon tracheostomy cannula, Balloonless tracheostomy cannula, Nasal fork cannula, Guder cannula, Bronchial tubes, left and right, Endotracheal tubes, Yellow Tips for 0-200 UI Pipettes, Blue Tips for 200-1000 UI Pipettes, Nasal fork cannula for administering oxygen, CU-75 Multiload Intrauterine Devices, Cytology Kit No. 2 Small, Medium, and Large sizes, among others, all for an approximate annual amount of 30.0 million USD.

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DESIGN, PRODUCTION AND SUSTAINABILITY OF WEIGHING EQUIPMENT AND SYSTEMS.

**DESCRIPTION:**

Create capacities for design, manufacture, commercialization, distribution and sales of equipment, instruments and weighing systems on the domestic and foreign markets, as well as associated warranty and post-sale services.

INVESTMENT TYPE:

Empresa mixta

CUBAN PARTY:

INVERTRONIC, S.A

LOCATION

Municipio Playa, La Habana province

MARKET POTENTIAL:

It will cover a wide range of applications in equipment and weighing systems, in a wide sector of the national economy from industry, commerce, logistics and retail.

The introduction of new products with an electronic base in its portfolio expands the scope of these and their associated services towards the main chains of stores and logistic centers of the country, which are linked to all sectors of the population and thereby guaranteeing better protection to the consumer and assurance for the correct and wide implementation of legal metrological bases.

The demand for weighing system equipment and services is estimated at over 19 million USD for the first year and at 35 million MUSD in the 5th year when maximum capacity production will be achieved, with an annual 20% growth trend.

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MANUFACTURE ELECTRIC PANELS

**DESCRIPTION:**

To provide a modern and efficient management system to develop the management capabilities of the PANELEC Workshop for the Manufacture and Repair of Electrical Panels and for the provision of specialized services for the maintenance of pump panels, which requires the knowledge and technical experience of manufacturers, the timely supply of inputs, tools and specialized equipment.

INVESTMENT TYPE:

International Economic Partnership Agreement

CUBAN PARTY:

Empresa de Mantenimiento y Reparación de Obras Hidráulicas (EMROH)

ESTIMATED INVESTMENT:

5 million USD

LOCATION:

Sancti Spiritus municipality, Sancti Spiritus province

MARKET POTENTIAL:

The construction of Electrical Panels, Lighting Slate, Power Slate and General Distribution Panels will be fundamentally aimed at the Cuban domestic market and its export.

The pumping installations of INRH, Aqueducts, GEARH, the electrical installations of hotel chains of MINTUR, MINEM, MINFAR; MININT; AZCUBA; MINAGRI, MINSAP and electrical installations of the corporations CIMEX, TRD and ALMEST, among others, would be the final recipients of these productions.

CONTACTS:

Empresa de Mantenimiento y Reparación de Obras Hidráulicas (Emroh).
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Grupo Empresarial de Acueducto y Alcantarillado
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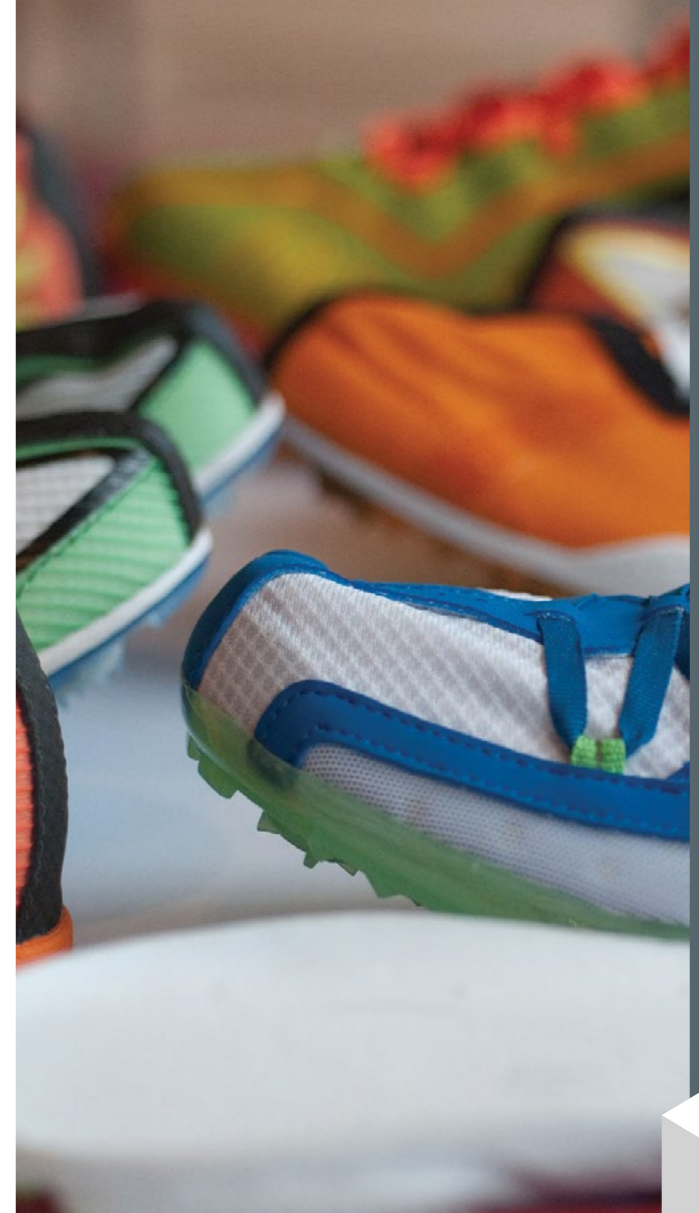
Light industry

The Grupo Empresarial de la Industria Ligera [Light Industry Business Group], GEMPIL, promotes its companies to partner up with foreign capital businesses. Products generated fundamentally go towards the domestic market and exportation.

Principal productions:

- ▶ Sacks
- ▶ Fósforos y velas.
- ▶ leather
- ▶ Footwear
- ▶ fabrics
- ▶ textile confections
- ▶ paint
- ▶ cleaning products
- ▶ feminine sanitary pads
- ▶ furniture
- ▶ sporting equipment
- ▶ mattresses for domestic consumption and exportation

GEMPIL's development strategy prioritized foreign investment projects encouraging productive linkups, replacing imports and increasing export markets. Likewise, we address recruiting advanced technology that allows us to increase energy efficiency, added value and productivity and obtaining external financing.



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► BUSINESS OPPORTUNITIES

► PENCIL MANUFACTURING



DESCRIPTION:

Develop currently installed productive capacities by acquiring raw materials for the manufacture of pencils, allowing us to reach production volumes required to export to Latin America and to meet domestic needs.

Annual productive capacity is 60 million and we need to export 30 million to make sure that the partner ensures their fees and raw material expenses.

INVESTMENT TYPE:

International economic partnership agreement for productive administration

CUBAN PARTY:

Empresa de Producción de Medios de Enseñanza (Emeg).

ESTIMATED INVESTMENT:

1.5 million USD.

LOCATION:

UEB Lápiz, Manzanillo municipality, **Granma** province.

MARKET POTENTIAL:

Approximately 570 million pencils have been exported from China to the South American market (2013-2017). That figure does not include sales coming from countries other than China; therefore, South America has a very high demand for pencil purchase. In addition, it is expected to meet the domestic demand.

ANTICIPATED RESULTS

We estimate export sales for approximately 2 million dollars per year

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► PRODUCTION OF EDUCATIONAL TOYS AND OTHER COMMONLY USED ITEMS



DESCRIPTION:

Broaden and develop the productive capacities installed at present through the acquisition of the latest technological equipment for plastic injection machinery, injection molds and funding for acquiring plastic resins that would enable us to attain volumes of production with the required quality to meet domestic demands and promote exports. Articles produced: educational toys, devices for working, student-teacher drawing instruments, etc.

INVESTMENT TYPE:

International Economic Partnership Agreement

CUBAN PARTY:

Empresa Productora de Materiales Varios para la Enseñanza (Empromave)

ESTIMATED INVESTMENT:

5 million USD

LOCATION:

Marianao municipality, **Havana** province

MARKET POTENTIAL:

Meet all educational demands on a domestic scale and export to Latin America and the Caribbean where there is interest in buying such products as revealed by participants at international events and by requests made by education representatives from some of these countries.

ANTICIPATED RESULTS

Access to specialized technological equipment, molds needed to make these types of educational productions, and the raw materials required. We foresee the development and modernization of the process and obtaining specialized industrial productions. The foreign party would recover their investment in freely convertible currency through the market for the export of such products. We estimate profits of more than 88 million dollars in the 15-year validity of the project.

CONTACTS:

Comercial Empromave
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▶ MANUFACTURING FLOOR-CLEANING CLOTHS



DESCRIPTION:	Rehabilitation and technical modernization of the floor-cleaning cloth factory called UEB Inejiro Asanuma de la Empresa Textil. We would like to manufacture quality cotton and similar material floor-cleaning cloths that would replace imports, with increased productivity of 6 million after introducing modern technology
INVESTMENT TYPE:	International Economic Partnership Agreement for productive administration
PARTE CUBANA:	Empresa Textil Ducal.
MONTO DE INVERSIÓN ESTIMADO:	6.5 million USD.
LOCATION:	UEB Inejiro Asanuma, Gibara municipality, Holguín province
MARKET POTENTIAL:	We estimate 16 million floor-cleaning cloths per year, for the domestic market and to replace current imports
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▶ MANUFACTURE AND SALES OF SPORTS CONFECTIONS AND IMPLEMENTS

DESCRIPTION:	Manufacture textile confections and sporting implements for top-ranking sports and other disciplines in national programmes, with the required quality and at competitive prices
INVESTMENT TYPE:	International Economic Partnership Agreement for productive administration.
PARTE CUBANA:	Empresa Deportiva Batos.
MONTO DE INVERSIÓN ESTIMADO:	2 million USD.
LOCATION:	UEB Batos, Cerro municipality, La Habana province.
MARKET POTENTIAL:	We estimate 867,000 units of textile manufactured goods and sporting implements. Going towards the domestic market and to replace current imports, and for export
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▶ MANUFACTURE AND SALES OF POLYETHYLENE FLEXIBLE AND EXTRUSION PACKAGING MATERIALS



DESCRIPTION:	Enlarging, modernizing and operating a plant to produce and sell printed flexible materials for packaging on any heat-application support, extrude polyethylene sheets, or other flexible sheets, to manufacture bags in different sizes.
INVESTMENT TYPE:	Joint venture
PARTE CUBANA:	Industrias Nexus S.A.
MONTO DE INVERSIÓN ESTIMADO:	4.5 million USD.
LOCATION:	UEB Empaques Flexibles, Boyeros municipality, La Habana province
MARKET POTENTIAL:	Current market of around 8,000 Tm of packaging material, also increased investments in the ZED Mariel and developing investments in the foods and agricultural industries throughout the country.
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▶ MANUFACTURING AND COMMERCIALIZING POLYPROPYLENE SACKS

DESCRIPTION:	Reestablish production capacity of 60 million conventional sacks per year. Subsequently this figure will be increased so that in a short, middle and long term we will be able to efficiently produce a variety of competitive assortments, until we meet the country's demand. Export manufactured sacks, fundamentally to Central America and the Caribbean. Introduce and assimilate new technologies.
INVESTMENT TYPE:	Joint venture
PARTE CUBANA:	Industrias Nexus S.A.
MONTO DE INVERSIÓN ESTIMADO:	24.3 million USD.
LOCATION:	Luis Augusto Turcios Lima factory, Santa Clara municipality, Villa Clara province
MARKET POTENTIAL:	Current market of around 88,000,000 polypropylene sacks and increased investments in the ZED Mariel and developing investments in the foods and agricultural industries throughout the country.
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▶ PRODUCTION AND
COMMERCIALIZATION OF
FOOTWEAR

**DESCRIPTION:**

Acquisition of technological equipment associated with productive processes for the production and sales of synthetic footwear, slippers, sandals, running shoes, cloth shoes, footwear with mesh uppers, work boots and soles, encouraging the replacement of imports and exportation

INVESTMENT TYPE:

International Economic Partnership Agreement for productive administration

PARTE CUBANA:

Industrias Nexus S.A.

**MONTO DE INVERSIÓN
ESTIMADO:**

15.7 million USD.

LOCATION:

Habana del Este municipality, **La Habana** province

MARKET POTENTIAL:

Annual production capacity is foreseen at the start to be 2,530,000 pairs of shoes until we reach the figure of 6,800,000 for the domestic market and for exportation.

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▶ ART FOR THE HOME

DESCRIPTION:

This is a line of utilitarian and decorative articles which apply visual art works on each product. We have been growing since 2003, constantly coming up with new ideas for new items. Over 100 contemporary Cuban visual artists are working with us and we use artworks from the collections in the Museo Nacional de Bellas Artes. The "Arte en Casa" line is especially attractive for this reason and the items have been popular as gifts for special occasions; they are the perfect combination of beauty and utility.

INVESTMENT TYPE:

International Economic Partnership Agreement

PARTE CUBANA:

Artex S.A.

**MONTO DE INVERSIÓN
ESTIMADO:**

10.0 million USD.

LOCATION:

La Habana province.

MARKET POTENTIAL:

Domestic market: annual estimated revenues of 10.0 MMCUC. International market: 2.0 MMUSD.

CONTACTS:

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Name Seides García Hevia
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Chemical industry

The Chemical Group promotes projects to modernize and create new production capacities for the objective of meeting domestic demands, replace imports and generate exports, including the following activities: Rubber, Industrial and Medical Gas, Chlorine and Caustic Soda, and their byproducts; Paper and Cardboard and their Conversion, Glass, Fertilizers, Sulfuric Acid and Pesticides.

Our strengths in the sector include qualified work force and industries possessing the infrastructure making it possible to update technologically in order to install new production lines, and their micro-locations according to market needs.

CHEMICAL INDUSTRY ACTIVITIES:

Industrial and medical gas

to produce, commercialize and distribute industrial and medical gas to all branches of national economy, and to public health and the country's defense system. With over 80 years of experience, represented in every province of Cuba.

Fertilizers and pesticides

to produce nitrogenous and mixed fertilizers and pesticides

Paper and cardboard

with over 50 years of experience, there are 9 plants throughout the country and an adequate distribution network

Chemical

production of liquid chlorine, sodium hypochloride, caustic soda, chlorhydric acid, hydrogen, aluminum sulfate and silicates of liquid sodium. Manufactures other light chemical products such as chlorine bleaches, descalers, dishwashing liquids, detergents, air fresheners, degreasers and other products to treat swimming pool water and institutional and domestic cleaning and hygienic products.

Rubber

fundamentally produces new tires with diagonal technology, retreading tires and producing rubber technical articles (ATG).

Glass

production of tableware (glasses, goblets, jars, candy jars); ornamental objects (vases, centre-pieces, ashtrays, artistic figures). Also manufacturing flat glass and mirrors, cutting, bevelling, engraving, stained glass and combinations thereof, as well as producing glassware for laboratories, consumables for health and for decorative items.



CONTACTS

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Grupo Empresarial de la Industria Química
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► BUSINESS OPPORTUNITIES

► PRODUCTION AND SALES OF RETREAD TIRES IN EASTERN CUBA


DESCRIPTION:

Creating a productive capacity of 150.0 MU per year of retreadtires, at a first stage, which would let us decrease imports of new tires, on the basis of increasing the circulation of renewed tires, ensuring quality indicators that fulfill international norms and standards for these technologies and at competitive prices. Also, broadening professional services to clients for all activities related with the exploitation of tires.

INVESTMENT TYPE:

Joint Venture

CUBAN PARTY:

Quimi S.A.

ESTIMATED INVESTMENT:

25 million USD

LOCATION:

Holguín province

MARKET POTENTIAL:

Studied retread potential is at 511.0 MU, of which 49 % is in the central-eastern area that is being looked after by 4 retreading facilities in Villa Clara, Camagüey, Holguín and Santiago de Cuba. On average, of all of Cuba's imports each year, 85 % is for light and transport tires; the remaining 15 % is for agricultural, construction and mining tires in physical units. In values, this represents 80 % and 20 %, respectively. Average imports range around 800.0 MU per year

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► PRODUCTION OF AMMONIAC, UREA AND OTHER PRODUCTS

DESCRIPTION:

Designing and building an industrial complex to meet national demand for ammoniac and urea planned by the Ministry of Agriculture up to 2030, and counting on ammoniac production reserves that allow us to meet the reasonable increased demand for it. We foresee production of 500.0 Mt per year of ammoniac principally going to the production of urea and 500.0 Mt per year of urea going to agriculture. Likewise, we took full advantage of subproducts in the manufacture of carbon dioxide, argon and ammonium sulfate.

INVESTMENT TYPE:

Joint Venture

CUBAN PARTY:

Quimi S.A.

ESTIMATED INVESTMENT:

820 million USD.

LOCATION:

Matanzas municipality, Matanzas province

MARKET POTENTIAL:

The ammoniac plant capacity is calculated to cover all the country's needs. Urea demands for 2030 are foreseen at 500,000 t/yr. plant capacity is estimated to grow 5.6 %.

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► PLANT FOR THE PRODUCTION AND COMMERCIALIZATION OF MULTI-LAYER SACKS, BAGS AND CASES

DESCRIPTION:

Modernizing and diversifying the production of multi-layer sacks, recovering production on an industrial scale of paper cases and introducing bags with paper handles for the domestic and export markets.

INVESTMENT TYPE:

Joint Venture

CUBAN PARTY:

Quimi S.A.

ESTIMATED INVESTMENT:

15 millones de USD

LOCATION:

Boyeros municipality, La Habana province

MARKET POTENTIAL:

Currently we meet less than 60 % of the domestic demand for multi-layer sacks, totaling 30 million units, a figure that in both standard physical units and new formats shows significant growth in upcoming years. We are not producing cases and bags that allow us to meet the demands of a population of 11 million.

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PRODUCTION AND COMMERCIALIZATION OF RETREAD TIRES AND MAKING FULL USE OF OLD TIRES

DESCRIPTION: Recapitalizing and increasing productive capacities with the objective of renewing and commercializing 135,480 tires per year, of which 19.2 % would be for transportation and agriculture, and 80.8 % for light automobiles. To achieve this we foresee that as of the first year of operations we reach the production of 99,375 units and in successive years we would see 4% growth
Introducing technologies for treatment of old tires (NFU) and commercializing new products and technical rubber articles derived from them.

INVESTMENT TYPE: Joint venture

CUBAN PARTY: Quimi S.A.

ESTIMATED INVESTMENT: 24.6 million USD.

LOCATION: San José municipality, **Mayabeque** province

MARKET POTENTIAL: Studied retread potential is at 511.0 MU, of which 49 % is in the central-eastern area that is being looked after by 4 retreading facilities in Villa Clara, Camagüey, Holguín and Santiago de Cuba.
On average, of all of Cuba's imports each year, 85 % is for light and transport tires; the remaining 15 % is for agricultural, construction and mining tires in physical units. In values, this represents 80 % and 20 %, respectively. Average imports range around 800.0 MU per year

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JOINT VENTURE FOR THE PRODUCTION AND COMMERCIALIZATION OF MIXED FERTILIZERS (BULK BLENDING)

DESCRIPTION: Modernizing and diversifying industry capacities with the objective of producing 450 tons per day of mixed fertilizers to meet the demands of the agricultural sector in Cuba, as well as volumes going towards exportation to countries in the area. We need to improve existing technology in the plant, working capital and export markets.

INVESTMENT TYPE: Joint venture

CUBAN PARTY: Quimi S.A.

LOCATION: Physical Mixes Plant of the Empresa Rayonitro, Matanzas municipality, **Matanzas** province

MARKET POTENTIAL: Currently we are meeting less than 60 % of domestic demands for mixed fertilizers totalling more than 150,000 tons per year. We also foresee exporting these products.

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Steel-mechanical sector

The Steel-mechanical Group organizes its companies and partnerships into 2 fundamental sectors: steel and mechanics. Strategic alliances are planned to develop these two sectors, prioritizing investments associated with the production

of metal structures, metallurgical productions, construction systems, metal containers, productions and services associated with transportation.

PRINCIPAL PRODUCTIONS FOR THE DOMESTIC MARKET AND EXPORT:

Carbon steel and wire byproducts, electrical conductors, inverse refractory elements, transportation systems for sugar cane, farm tools and implements, irrigation systems and components, various agricultural trailers, barrels, tin cans for food, automotive batteries, bus and elevator assembly and repairs, automotive parts and spare parts, repairs and rebuilding of railway equipment and their replacement parts, heavy and light metal structures, aluminum carpentry, bathroom fittings, high

pressure recipients, parts and spare parts for elevators.

The Business Group is open to foreign investment in order to develop and update its technology and to attain production and competitive levels for its productions in accordance with international standards and thus, to increase exports.



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► BUSINESS OPPORTUNITIES



PRODUCTION AND SALES OF THERMAL COPPER WIRE ELECTRICAL CONDUCTORS.

**DESCRIPTION:**

The project's fundamental objective is to have a copper and aluminum electrical conductor Factory for up to 1 Kv, telephone, enameled PVC compound and 8 mm thick copper thermal wire that meets the domestic demand in quantity, quality and diversification and that ensures effective replacements for imports, estimated to cover 100% of the enameled wire market and the rest of the production, as a minimum, will cover approximately 65 %.

We would like to introduce aluminum three-strand intermediate, triple extrusion, nylon inoculated, ecological PVC wires, the production of enameled fine caliber wire on the basis of the Tandem system, production of digital TV cables via a physical foam system, similar to nickel for the production of thick thermal copper wire, production of 5th category telephone cables.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Simen Aut S.A.

ESTIMATED INVESTMENT:

70.8 million USD

LOCATION:

San José de Las Lajas municipality, **Mayabeque** province

MARKET POTENTIAL:

The domestic market will be the main one since there is an unsatisfied demand for bare copper and aluminum cables, enameled wire, cables up to 1 Kv and telephone cables. Based on a preliminary assessment of the foreign market we foresee exports to Latin America and the Caribbean.

CONTACTS:

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PRODUCTION AND SALES OF RIGID TUBES FOR CIGARS (EE PRODUCTIVE TRANSFORMATION & INTERNATIONAL INSERTION)

**DESCRIPTION:**

To create a modern factory for aluminum containers (rigid tubes for cigars) with modern technology that responds to the demand of the Cuban market with quality and low production costs, allowing us to replace imports.

There is willingness to upgrade the industry with updated technology, which responds in competitiveness and quality to the demand of the Cuban market of 20 million units per year; expand the production of rigid tubes for cigars up to 30 million units per year; and among other objectives, to make future exports of around 10 million UF per year.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Simen Aut, S.A.

ESTIMATED INVESTMENT:

6.6 million USD.

LOCATION:

Fábrica Novalum, Regla municipality, **La Habana** province

MARKET POTENTIAL:

Proposed production is fundamentally for the national market, the Tabacuba customer requiring 20 million units per year of rigid tubes for cigars for export; this is the most secure market because of the tradition and prestige of the Cuban brands of cigars in the world. Current demands require 32 different assortments grouped under 9 brands.

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**PRODUCTION AND
COMMERCIALIZATION OF
BATTERIES****DESCRIPTION:**

Increase productive capacities for automobile batteries to at least 400,000 units per year by modernizing the existing facility with increased capacity of producing maintenance free batteries, and diversifying by introducing new products (UPS computer batteries, electric bicycle and motorbike batteries), promoting the replacement of imports and lessening current negative effects on the environment.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Simen Aut S.A.

ESTIMATED INVESTMENT:

14.9 million USD.

LOCATION:

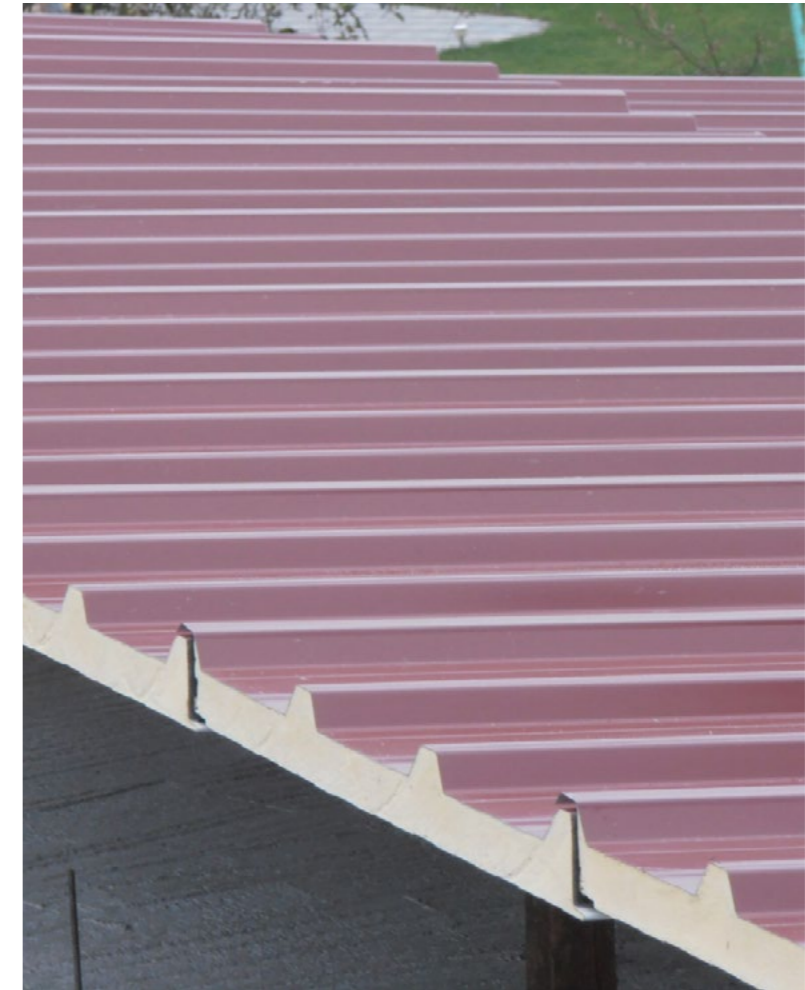
Manzanillo municipality, **Granma** province

MARKET POTENTIAL:

The domestic market, especially for motor vehicles, is estimated at over 315,000 batteries per year. The joint venture would be the sole producer in Cuba and this should ensure 100% of domestic demands and foresee exports throughout Latin America and the Caribbean.

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**DESIGN, PRODUCTION
AND MARKETING
OF POLYURETHANE
SANDWICH PANELS****DESCRIPTION:**

Guarantee 500,000 m2 of polyurethane sandwich panels for the development of the housing programme, investments in tourism and programmes associated with the construction sector, which are aimed at modernizing and reviving public and social works with state of the art technology worldwide.

INVESTMENT TYPE:

International Economic Partnership Agreement

CUBAN PARTY:

Empresa de Producciones Metálicas, COMETAL.

ESTIMATED INVESTMENT:

7.5 million USD.

LOCATION:

Boyeros municipality, **Havana** province

MARKET POTENTIAL:

Productions will go mainly to meet the national demand at 95.6 % for shift of work. Most needing this product are MINSAP, GAE (DIP Mariel, ALMEST, AUSA), MICONS, MINCIN, MINAL. We expect to export to Latin America and the Caribbean from the second year of operation, to reach total production levels of 25%

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MANUFACTURING PARTS, SPARE PARTS AND COMPONENTS FOR ELEVATORS, SETTING-UP AND POST-SALE SERVICE.



DESCRIPTION:

The project's fundamental objective is to have a company to manufacture parts, spare parts and the components of elevators, and to ensure their setting up and post-sale service.

In order to do this, we would have to attain the following specific objectives:

1. To acquire a production line of parts, spare parts and components of elevators, replacing imports in order to provide competitiveness, quality and low costs for the Cuban market demands
2. To acquire new transportation means, as well as modernize the fleet of vehicles to improve the setting up and post-sale services for elevators, thereby saving time
3. To acquire the specific tools needed, equipping all the work teams; this would involve improving work schedules in terms of time
4. To undertake training employees in the new technologies

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Empresa de Producciones Metálicas, Cometal.

ESTIMATED INVESTMENT:

10.4 million USD.

LOCATION:

Arroyo Naranjo municipality, La Habana province.

MARKET POTENTIAL:

Cometal is one of the 2 entities in Cuba dedicated to the setting up and post-sale service for elevators. Currently, the company can only meet 90% of domestic demands and some of its main clients are: the Ministries of Tourism, Public Health, the Interior, Education, Agriculture, Transportation, Higher Education, the GAE and the Office of the Historian.

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PRODUCTION AND COMMERCIALIZATION OF 10 KG LIQUID GAS FOR OIL CYLINDERS (GLP).



DESCRIPTION:

Increase productive capacities for liquid gas from oil cylinders (GLP) of up to 10 kg in the only factory in Cuba, allowing us to reach the production volumen and quality to meet the identified demand for 300 000 UF per year, with foreseen increases according to assimilation of customers up to 500 000 UF.

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Empresa de Envases y Recipientes Metálicos, Envametal.

ESTIMATED INVESTMENT:

11 million USD.

LOCATION:

Noel Fernández factory, Matanzas municipality, Matanzas province

MARKET POTENTIAL:

The principal market is the domestic market, with only one customer, Cupet; the rest of production will be exported to countries in Latin America and the Caribbean

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PRODUCTION AND COMMERCIALIZATION OF TIN CANS



DESCRIPTION:

The objective is to create a tin can industry with up-to-date technology meeting competitiveness, quality and low cost demands in the domestic market for 20.5 million containers per year and to promote exports in the area. Eliminate producing containers using lead-tin welding methods. Ensure technical consultancy for the productive process to facilitate efficacy and to replace the imports of cans for paint, preserves, meat and vegetables.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Simen Aut S.A.

ESTIMATED INVESTMENT:

5.4 million USD.

LOCATION:

Guanabacoa municipality, La Habana province

MARKET POTENTIAL:

The main customer is the domestic market, with an identified demand of 3,368 MM containers per year. We foresee meeting orders from agriculture, Cubalub and the chemical industry and to promote paint industries as well as those in the non-State small-producer sector.

CONTACTS:

Email: nelly.toirac@eem.com.cu / ogonzalez@sime.cu / negocios.gesime@sime.cu
Tel.: (53) 76938321 / 76450405



ASSEMBLY, MAINTENANCE, REPAIR AND COMMERCIALIZATION SERVICES FOR AGRICULTURAL AND FORESTRY EQUIPMENT AND IMPLEMENTS, AND MANUFACTURING AND RECOVERING THEIR PARTS AND SPARE PARTS TO ENSURE PRODUCTIVE INCREASES IN THE AGRO-FOODS SECTOR

**DESCRIPTION:**

The objective is to create an industry permitting us to assemble multiple use agricultural and forestry equipment and implements, for their sustainable commercialization on the domestic and international markets, with stable and opportune supplies of parts, spare parts and accessories, to meet the growing demand for this technology in Cuba's agro-foods sector

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Empresa de Talleres Agropecuarios.

ESTIMATED INVESTMENT:

12 million USD.

LOCATION:

Pinar del Río municipality, Pinar del Río province.

MARKET POTENTIAL:

The fleet of tractors and agricultural implements currently in use in Cuba is insufficient and inefficient and unsustainable. There is high demand for tractors, agricultural implements, agricultural and forestry services and motors at the productive base and development programmes (livestock, rice, citrus, miscellaneous crops, tobacco, forestry, etc.) in the country.

We have identified a segment of the market in Latin America and the Caribbean where equipment and implements that do not ensure sustainability and updated technology are being sold, and these do not have trained technical personnel to carry it out.

ANTICIPATED RESULTS:

Within around 5 years to attain sustainability for 20,000 units of agricultural equipment and implements. Ensure basic specialized technical services for agricultural and forestry activities and tie them into those of the producers.

CONTACTS:

Empresa de Talleres Agropecuarios
Email: informática@eta.minag.cu
Cell phone: (53) 52796867

Grupo Empresarial de Logística, Engineering Division
Email: diringeniería@gelma.minag.cu
Tel.: (53) 76441431 ext. 143 / Cell phone: (53) 52098384

Business Group
Email: asunt-inter@gelma.minag.cu
Tel.: (53) 76441431 ext. 129-130 / Cell phone: (53) 59966479.





Recycling industry

Grupo Empresarial de Reciclaje [Recycling Business Group] is responsible for recycling in Cuba. Its main development lines are:

- Promoting the introduction of technologies to recover recyclable products that permit their classification from the time they are generated
- Modernizing technologies, via investments, for the products that are being recycled today, increasing volumes of recovery achieved and increasing added value, fulfilling the specifica-

tions required by national industry and exportation.

- Studying the incorporation of new technologies for products not being recycled today, prioritizing those having the greatest economic and environmental impact, such as: processing electronic scrap and other types of batteries and liquid waste.



CONTACT INFORMATION:

Development Division, Grupo Empresarial de Reciclaje
Email: estela@reciclaje.cu
Tel.: (53) 78352332 / 78352333



► **BUSINESS OPPORTUNITIES**



INTEGRATED SOLID URBAN WASTE MANAGEMENT SYSTEM



DESCRIPTION:

The project's main objective is the gradual reduction to minimal levels of the total volume of waste generated and sent today to dumps or landfill sites. This would avoid making a negative impact on the environment and on human health through an SIGRSU covering all the stages of the process, including correct selection of waste, collection, treatment and recycling, and making energy-based evaluations for generating power and heat and producing organic fertilizers, sending only inert non-recyclable waste that cannot be evaluated to landfill sites, even though in subsequent stages we may be able to study some uses for this inert waste portion.

INVESTMENT TYPE

Joint venture

CUBAN PARTY:

Grupo Empresarial de Reciclaje.

ESTIMATED INVESTMENT:

300 million USD. (the first phase includes a comprehensive processing plant for solid urban waste that takes in several lines and the improvement of the collecting and dumping system at a cost of 115 million USD).

LOCATION:

La Habana province

MARKET POTENTIAL:

Proposed production is essentially for the domestic market. Secondary raw materials to domestic industries and surpluses will be exported; today we process 16 groups of products with the basic ones being steel, cast iron, stainless steel, copper, aluminum, bronze scrap, paper and cardboard, plastic, glass bottles, glass, electronic scrap, etc. The National Power System requires the gas generated to generate power. The Ministry of Agriculture can use all the fertilizers generated.

CONTACTS:

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Tel.: (53) 72051042



DISMANTLING OUT-OF-SERVICE BOATS TO MEET THE GROWING DEMAND OF CUBAN STEEL PLANTS

DESCRIPTION:

The project's principal objective is the production of iron scrap from the wrecking of boats, thereby permitting a stable supply for the 2 steel plants in Cuba, and for exporting non-ferrous products that are obtained in the process and the sales of parts, spare parts and equipment coming from the dismantling process, for the domestic and export markets.

For that purpose, we are going to have to attain specific objectives such as:

- Modernizing all the technological equipment of the company in order to respond to Cuban market demands for competitiveness, quality and low production costs.
- Increasing productive capacities in Bahía Honda to attain, in the first phase, 40,000 tons and to attain some 100,000 tons in later phases, increasing the availability of ferrous scrap and reducing import levels of this product.
- Once the domestic market has been covered, encouraging exports which should be ensured for the foreign partner.

INVESTMENT TYPE

Joint venture

CUBAN PARTY:

Grupo Empresarial de Reciclaje.

ESTIMATED INVESTMENT:

30 million USD.

LOCATION:

Bahía Honda municipality, Artemisa province

MARKET POTENTIAL:

- The market for the resulting products is ensured as follows:
- iron scrap: supplying Cuban steel plants.
 - non-ferrous scrap: export.
 - parts, spare parts, equipment: export and/or domestic market.

CONTACTS:

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Tel.: (53) 72051042



SMELTING AND REFINING LEAD

DESCRIPTION:

Incorporating into the country the productive technology and capacities for transforming shredded lead and lead paste obtained at the Funalco recycling plant, in refined and alloy lead ingots, to replace their imports in national industry, specifically in the XX Aniversario accumulator factory, and exporting the surplus production to the international market

INVESTMENT TYPE

Joint venture

CUBAN PARTY:

Grupo Empresarial de Reciclaje.

ESTIMATED INVESTMENT:

11.3 million USD.

LOCATION:

San Miguel del Padrón municipality, La Habana province

MARKET POTENTIAL:

The market for resulting products is ensured and will be going to the national industry for transforming lead and for export

CONTACTS:

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Tel.: (53) 72051042



► **MEDICAL INDUSTRY
BUSINESS OPPORTUNITIES**



REPAIR AND
RE-ENGINEERING OF THE
MEDICAL DEVICE FACTORY
ORTOP OF THE FRANK PAÍS
HOSPITAL



DESCRIPTION:

Improvement of the infrastructure and technology of the ORTOP-RALC industry of the Frank País Orthopaedic Hospital, for the production of orthopaedic devices and osteosynthesis material used in the treatment of orthopaedic pathologies: fractures, open fractures, vascular and nervous lesions and loss of fragments.

INVESTMENT TYPE

International Economic Partnership Agreement of Production Management with Financing

CUBAN PARTY:

Comercializadora de Servicios Médicos Cubanos S.A.

ESTIMATED INVESTMENT:

15 million USD

LOCATION:

ORTOP devices and implements factory of the Frank País Hospital, La Lisa municipality, **Havana** province.

MARKET POTENTIAL:

80% of the surgical interventions of the Orthopaedic Specialty use osteosynthesis material in their procedures. Its use is frequent in the treatment of morbidity causes as significant as accidental injuries, oncological tumors and pseudoarthritis all over the world.

In addition, the global trend and in Latin American countries such as Canada, United States, Mexico, Costa Rica, Argentina, Uruguay, Chile, to increase their levels of population aging predict a greater demand for orthopedic treatments and correspondence, opportunity to export Cuban medical services in this specialty.

RESULTADOS ESPERADOS:

More than 125,000 Cuban and foreign patients have been operated on in the country's hospitals, which shows that about 140,000 patients annually need some method of orthopedic treatment with osteosynthesis.

CONTACTS:

Comercializadora de Servicios Médicos Cubanos S.A.
Email: smc@smcsalud.cu
Tel.: (53) 72031590 / 72065380 / 72090977



▶ OTHER SECTORS
AND ACTIVITIES



▶ Professional services sector

SECTORIAL POLICY

To promote foreign investment to boost projects to export professional consulting and auditing services. Wholly owned foreign capital enterprises may be established.



► BUSINESS OPPORTUNITIES



DEVELOPMENT CENTRE SPECIALIZED IN MEDICAL TECHNOLOGY



DESCRIPTION:

Create a development centre specialized in medical technology that highlights activities addressing the development of science and technology, applied to resolving flaws and breakdowns, and recovering medical equipment, minimum access and rigid optics instruments, thereby promoting benefits for the National Health System, and exporting services and products to countries in the region or to other parts of the world.

INVESTMENT TYPE

International economic partnership agreement with common fund

CUBAN PARTY:

Comercializadora de Servicios Médicos Cubanos S.A.

ESTIMATED INVESTMENT:

2.11 million USD.

LOCATION:

Havana province

MARKET POTENTIAL:

The main benefiting market will be the National Health System; also exporting services and products to countries in the region and to other parts of the world, besides participation as AEI in commercializing products and services

RESULTADOS ESPERADOS:

This development centre will allow us to replace and diversify imports being made by the National Health System for its sustainability, saving foreign currencies, accessing financing for investments and transfer of management methods and new technologies for the development of these services. We foresee exporting services and products to countries in the region or to other parts of the world.

CONTACTS:

Comercializadora de Servicios Médicos Cubanos S.A.
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Tel.: (53) 72031590 / 72065380 / 72090977

SCIENCE AND TECHNOLOGY CAMPUS



DESCRIPTION:

Building the required infrastructure and operating a science and technology campus in Cuba dedicated to R&D and innovation, high tech Cuban and international projects.

The scope of the investment includes infrastructure for offices and specialized locales to develop processes of project incubation, accommodations and other social facilities for personnel and the recruiting of risk financing to finance short, medium and long-term projects, up to the innovation and start up stage

We require institutions with the experience required for operating a science and technology park capable of attracting:

- Incubation and start-up of international projects and businesses, based on knowledge
- Recruiting risk financial resources for project incubation, with short, medium and long-term results coming from international governmental, public and private NGOs, etc.

INVESTMENT TYPE

Joint Venture

CUBAN PARTY:

GANMA S.A

ESTIMATED INVESTMENT:

18.3 million USD

LOCATION:

La Lisa municipality, Havana province

CONTACTS:

Email: hugo.ge@cea.cu
Cell phone: (53) 52883901

DEVELOPMENT OF
NANOMANUFACTURE
INFRASTRUCTURE.

**DESCRIPTION:**

Developing the construction and technological infrastructure needed and the acquisition and installation of equipment required for the development of nonmanufacturing processes in Cuba, fundamentally in materials to be used in the strategic areas of health, energy and the environment. The scope of the investment includes the pre-investment phase, the execution of civil construction stage, and set up, commissioning and operation of the facility stage. We require institutions with the required experience, fundamentally in engineering activities in order to develop nanomanufacturing processes, with the contribution of risk financial resources for innovation, with short, medium and long-term results.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Gamma S.A.

ESTIMATED INVESTMENT::

40.6 million USD

LOCATION:

La Lisa municipality, **Havana** province

MARKET POTENTIAL:

Domestic and international needs, associated with new technologies, fundamentally those related with health and the use of medicines, energy and the environment, in which the application of nanotechnologies is required.

The Joint Venture is fundamentally oriented to the international market, but because of the institutions where Cuba dedicates R&D and innovation in Citma, BioCubaFarma, other bodies and in the universities, and considering that Cuba does not have any institutions providing this, we plan on having 10% of capacities destined for the domestic market.

CONTACTS:

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PUBLISHING AND
COPUBLISHING
EDUCATIONAL LITERATURE

**DESCRIPTION:**

This project seeks to revitalize how publishing is done, for the commercializing of educational literature in Latin America and the Caribbean, Africa and Asia.

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Empresa Editorial Pueblo y Educación.

ESTIMATED INVESTMENT::

0.5 million USD.

LOCATION:

Playa municipality, **Havana** province

MARKET POTENTIAL:

In the latest edition of the Espacio iberoamericano del libro in 2019, it was announced that the tendency to raise recorded titles is being maintained. In 2018 there was a 2.3% growth in recorded works and Cuba manifests positive evolution in the period with 8.97 %, thereby placing it in tenth position. Industry performance in the period shows that in the publishers having highest sales 60% of recorded revenues come from professional and academic editions, while educational publications represent a little over one fifth.

The main international markets for Editorial Pueblo y Educación are present, principally in Latin America and the Caribbean since it has experience working in Venezuela, Nicaragua, Ecuador, Panama, Peru, Saint Lucia, Bolivia, Mexico, Paraguay, Haiti and Colombia.

In recent years, there have also been exchanges with African countries such as Angola, Guinea Bissau and Equatorial Guinea. Services have even been exported to Australia.

China may be considered to be a potential market for the publisher since there are intentions of undertaking joint projects with Chinese publishers.

ANTICIPATED RESULTS:

Increased publishing potential, achieving products having superior quality and in accordance with the needs of each market segment.

Introduction of advanced technology in publishing, in the processes of copublishing, production and commercialization of educational literature in the international markets of Latin America and Africa and China.

We foresee revenues of more than 6 million dollars during the 5 years of this business.

CONTACTS:

Editorial Pueblo y Educación
Email: olguita@epe.rimed.cu
Tel.: 72094061 / 72021090

**TURF SERVICES
FOR SPORTS AND
RECREATIONAL FACILITIES
IN CUBA AND THE
CARIBBEAN**



DESCRIPTION:

The aim is to develop appropriate technologies for sowing and establishing turf for sports and recreational fields. As well as to intensify the current production of 50 ha grass, taking it to 100 ha in a first phase and then to 150 ha, depending on the country's demand to improve its quality.

On the other hand, it is necessary to introduce new varieties of grass resistant to drought, shade and salinity, the most marketable in Cuba and the Caribbean. Furthermore, all the modern irrigation material and machinery is needed for greater efficiency and quality in the production process. The production of certified seed is also being sought for sports and recreational fields, especially for the golf courses and polo fields that are to be built.

INVESTMENT TYPE:

Joint Venture

CUBAN PARTY:

Estación Experimental de Pastos y Forrajes Indio Hatuey, Matanzas University.

ESTIMATED INVESTMENT::

12 million USD

LOCATION:

Perico municipality, **Matanzas** province.

MARKET POTENTIAL:

- The only research center in Cuba specialized in grass.
- It has a germplasm of 14 cespitosa varieties for different areas of sport and recreational fields.
- It has the capacity to produce seeds and grass technologies.
- Specialized farm for the production of grass with an area of 50 ha.
- Qualified personnel to do business and experienced in international and national projects management.
- National and International recognition in the knowledge area.

ESTIMATED ANTICIPATED RESULTS:

Replacing imports and increasing exports with technologies, products, quality services derived from research and related to the grass industry and horticulture.

Sales will be targeted to domestic market, joint ventures of MINTUR, MICONS, ALMEST, INDER, Flora y Fauna, as well as to Caribbean countries (Barbados, Jamaica, Dominican Republic and Panama).

CONTACTS:

Estación Experimental de Pastos y Forrajes Indio Hatuey

General Division

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Tel.: (53) 45571235 / 45571260





Mining sector



The Cuban archipelago has a broad range of diversity in metal raw materials as well as industrial rock and minerals. This is due to the fact that it is a mosaic of geological structures including sequences of the continental margin, volcanic island arcs and oceanic crust, put together into a unique ensemble as the result of the geological processes of subduction and collision

On top of this mosaic, there is a succession of young sedimentary rock formed during the last 40 million years in a tectonic regime of platforms. Among the principal mineral metal resources: iron (Fe), nickel (Ni), cobalt (Co), copper (Cu), lead (Pb), zinc (Zn), gold (Au), silver (Ag), manganese (Mn), wolfram (W) and chrome (Cr).

In the case of Industrial Rock and Minerals (RMI) of non-metal minerals, in Cuba we have identified resources of laterite clay, asbestos, sand, quartz sand, barite, basalt, bentonite, limestone, quartzite, quartz, kaolin, cyanite, calcarenite, feldspar, phosphorite, garnets, gabbros, graphite, marble,

magnesite, mica, olivine, semiprecious stones, mineral salt, serpentine, talcum, tobes, gypsum and zeolite.

At the present time, 45% of national territory is organized into geological maps to the scale of 1/50.000, and 100% of Cuban land area has been geophysically surveyed by air.

The principal value of Cuban minerals owes a lot to the fact that they lie close to the surface and can be exploited in open pit mines at a cost relatively lower than that of extraction in subterranean depths

Regulatory Framework

Ley 76 "Ley de Minas" de 1994

Decreto Ley 222 "Reglamento de la Ley de Minas"

Ley 81 "Ley del Medio Ambiente"

CUBAN PARTIES PARTNERED IN FOREIGN CAPITAL BUSINESSES



Geomnera S.A. has over 22 years of experience in the geology-mining sector. It operates under a Quality Management System satisfying the requirements established in the NC-ISO 9001: 2008 norms duly endorsed by certification issued by the Oficina Nacional de Normalización de Cuba on 10 July 2013.



The priority of Commercial Caribbean Nickel S.A. (CCN) is to recruit funding, markets and technologies in order to sustain and develop the nickel industry and to create new production capacities. For over 25 years, CCN has promoted businesses with companies in the sector and has undertaken projects with organizations from Venezuela, China, Russia, Canada, Australia, Belgium, the United Kingdom, South Africa and other countries.

The objective of Business Opportunities for the sector of geology and mining in Cuba is to attract the interest of foreign investors to undertake projects in the Recognizance and Geological Investigation Phase (Prospecting – Exploration), exploitation and commercialization of precious metals (gold and silver), base metals (copper, lead, zinc) and other minerals of interest.

SECTORIAL POLICY

To create, expand and modernize production capacities. To promote projects for exploration, extraction and processing minerals.



Business opportunities promoted by GeoMinera S.A. asically cover 5 regions and the Special Municipality of the Isle of Youth; these can be seen in Figure 1.

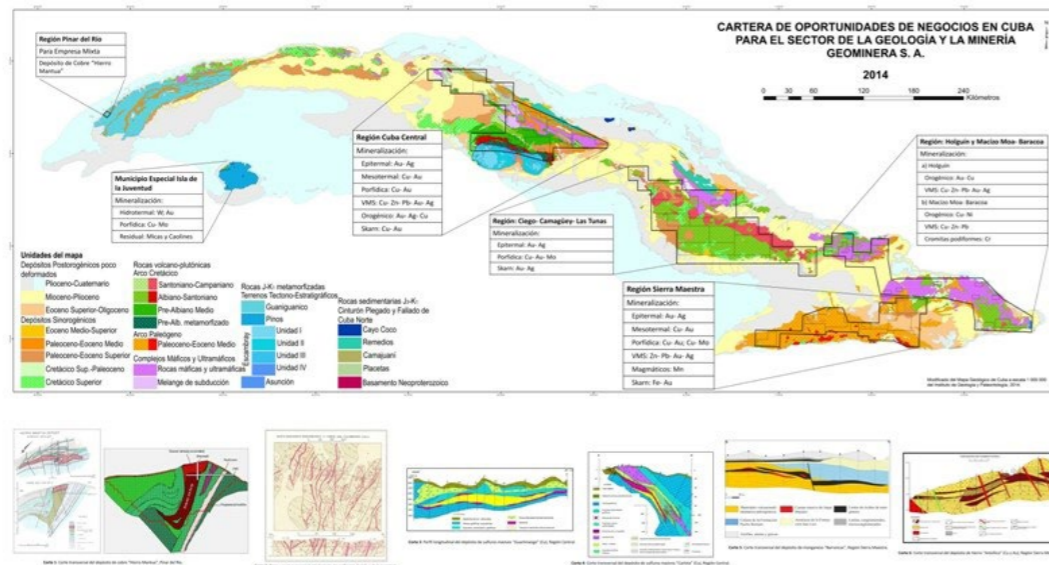


Fig. 1. Portfolio of opportunities of Geominera S.A. General diagram



GeoMinera S.A, with over 25 years of experience in the geology-mining sector, operates under a Quality Management System that meets the requirements established in NC-ISO 9001:2015, duly endorsed by certificate issued by the Oficina Nacional de Normalización de Cuba.

GeoMinera S.A. is a Cuban commercial company incorporated in August of 1993. Its aim is:

- a) To constitute and participate in international economic partnerships both in national territory and abroad, for recognition, geological investigation, exploitation and processing mineral deposits and salt.
- b) To provide specialized technical services in geology, mining and salt, both in national territory and abroad.
- c) To export services and their associated assets, as well as technical assistance service of professionals and technicians relating to geological and mining activities.

Today, GeoMinera S.A. possesses interests in:

- 3 Cuban mercantile companies: General Nickel S.A (20 %), Gold Caribbean Mining S.A. (50 %) y Mitsa (50 %).
- 2 joint ventures: Empresa Minera del Caribe S.A. (51 %), for the production and commercialization of lead and zinc, and Empresa Minera Mantua S.A., for the production and commercialization of copper cathodes (51 %).
- 1 international economic partnership agreement, Cubanex, for mineral drilling services

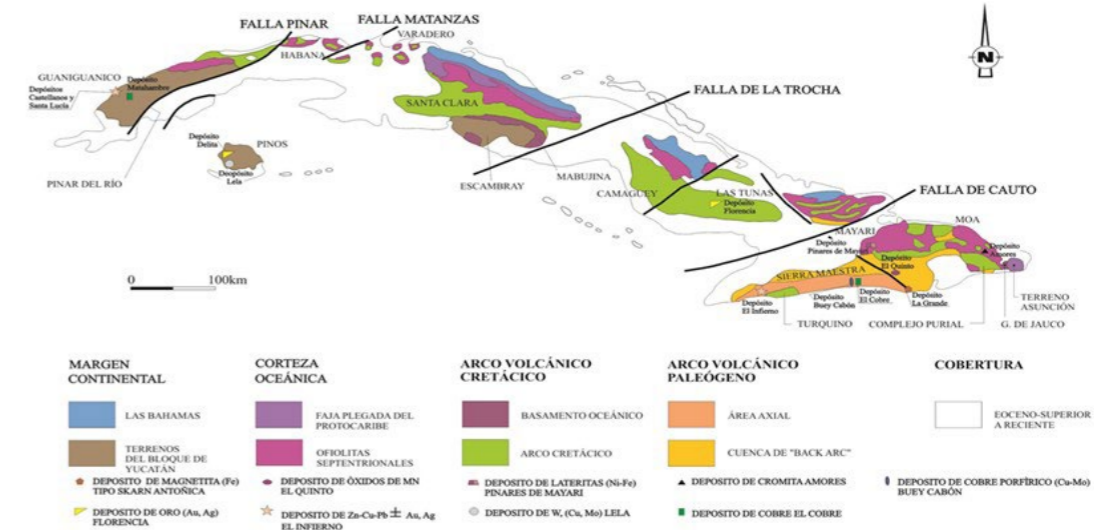


Fig. 2. Schematic geological map with the main geotectonic environments developed in Cuba, based on Iturralde-Vinent, 1996, 2009.

BRIEF OVER-VIEW OF THE GEOLOGY OF CUBA

The Cuban archipelago is made up of a mosaic of rock having different ages, composition and origins (Figure 2.)

Structurally recognized are two great levels; the folded substratum (over 37 millions of years old) which, during the Upper Paleocene-Eocene age was compressed and transported to its current site, and the neo-autochthonous which was subsequently deposited over the first.

In summary, on Cuban territory today we see the coexistence of rock formed in different geotectonic environments: continental margins, island arcs and oceanic crust (ophiolites).

The oldest structures are the Terrenos Pinos, Escambray and Guaniguanico, whose age goes back to the Jurassic. Following in order are the Cretaceous volcanic arc (with outcroppings throughout Cuba) and the Paleogenic volcanic arc (limited to the Sierra Maestra). Finally, we see the outstanding terrigenous-carbonate sequences of the Bahamas-Florida bloc platform. The latter are separated from the former by the belt of alloctonic ophiolitic rock (oceanic crust), which is heavily compressed and dissected, constituting a typical articulation zone.

Each of these geodynamic zones possesses its own metallogeny, and for this reason Cuba has an ample diversity of metallic and non-metallic minerals.



► **BUSINESS OPPORTUNITIES**

REGION OF CENTRAL CUBA

The Central Region of Cuba presents clear geotectonic zoning with the following sequences: Escambray, composed of metamorphosed continental border sequences; Lower and Upper Cretaceous volcanic island arc sequences; as well as a belt zone of oceanic mafic and ultra-mafic rock bodies used in allochthon position as the result of the collision of volcanic island arcs with the Bahamas-Florida block continental border sequences (Figure 4).

From the metallogenic point of view, the region exhibits a great variety of deposit models: in the Escambray, deposits of massive sulfurs predominate, in carbonated sediments (Irish-type sediment); in volcanic island arc sequences - and the associated intrusive sequences - VMS felsic (Kuroko-type) and the porphyritic type predominate. In the mafic and ultramafic rock massifs, Au orogenic and VMS mafic-ultramafic sequences predominate

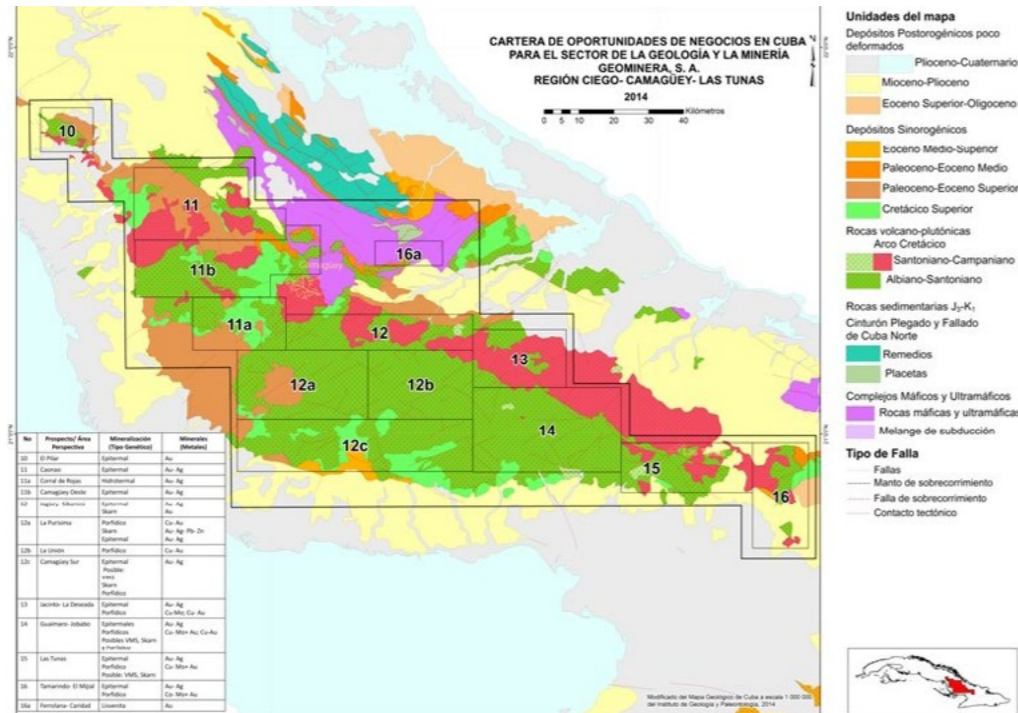


Figure 2. Investment opportunities in the Central Region of Cuba



GEOLOGICAL RECOGNIZANCE OR INVESTIGATION (PROSPECTING-EXPLORATION) AT RISK FOR PRECIOUS METALS (GOLD AND SILVER), BASE METALS (COPPER, LEAD, ZINC) AND OTHER MINERALS OF INTEREST IN THE REGION OF CENTRAL CUBA PROSPECTS. (EE NATURAL RESOURCES AND ENVIRONMENT)

DESCRIPTION: Undertake geological recognizance and investigation (prospecting-exploration) for precious metals (gold and silver), base metals (copper, lead, zinc) and other minerals of interest in the Region of Central Cuba, in order to locate economically attractive mineral deposits that allow us to constitute Joint Ventures for exploitation, processing and commercialization of minerals discovered.

INVESTMENT TYPE: International Economic Partnership Agreement at risk for geological recognizance and investigation (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture.

CUBAN PARTY: Geominera S.A.

ESTIMATED INVESTMENT: It should be defined by the size of each specific project and the methodology of the works selected for each one of them, depending on the mining activity phase it is in: geological recognizance or investigation.

MARKET POTENTIAL: Within the framework of these IEPs geological investigation will only be undertaken for up to 5 years, therefore, no final product will be obtained; the result may or may not be a step towards a Joint Venture. Productions obtained by the future Joint Venture (for any mineral detected) will be for the foreign market, but if the country should need some of these products, its acquisition will always be prioritized.

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PROSPECTS OF INTEREST

CARLOTA - VICTORIA - GUACHINANGO (NO. 1)

- Location: in the northern part of the Alturas de Trinidad, at altitudes between 500 and 750 meters above sea level. It is 40 km SSW of the city of Santa Clara and 40 km east of the port of Cienfuegos with which it communicates by the Cienfuegos-Cumanayagua-Manicaragua highway. The closest railway line is 15 km away, establishing communication with the aforementioned port. Access to the heart of the mineral district is along the Crucecitas highway that connects the aforementioned highway. The terrain is mountainous.
- Area: 117, 18 km²
- Metals: Cu, Zn, Au & Co.
- Tipo genético de mineralización: Sulfuros masivos de Cu - Pb - Zn ± Co, Au y Ag hospedados en carbonatos (tipo Irish).
- Current degree of study: Exploration – Prospecting at Carlota, Victoria & Guachinango. Recognizance at Siguanea & San Narciso. Other manifestations (Guachinango Este, Furnia I & II, Guamo, La Batea, etc.) remain without studies.



- ▶ Proposed investigation phases: Exploration in known deposits (Carlota, Victoria, Guachinango). Prospecting in Sigüanea & San Narciso manifestations, as well as in the rest of the mineral district.
- ▶ Mineralization Information: The Carlota-Guachinango mineral district is made up of several deposits of massive sulphurs carrying S, Cu, Zn ± Co, Au, Ag, accompanied by around 20 unstudied gossans and lodged in carbonated rock. The most important known deposits until now are Guachinango, Carlota and Victoria. The ore textures are massive and banded, made up of massive cobaltiferous pyrite and Cu and Zn sulfurs. The principal minerals are dolomite, ankerite, chlorite and quartz. The length of the mineral bodies along the direction varies from 100 y 800 m, and because of the dip between 100 to 300 m. Average thickness oscillates between 5 and 20 m, reaching up to 31 m. The oxidation zone has a variable thickness of between 5 and 55 m.
- ▶ Reported Components: Primary ores: 0.64 – 1.86 % of Cu; 0.45 – 3.2 % of Zn; 0.01 – 0.1 % of Co; 0.21 – 1.475 g/t of Au; 23 – 38.7 % of S. Oxidated ore: 0.1- 0.9 g/t of Au y 1 - 7 g/t of Ag.
- ▶ Mining activity: subterranean mining at Carlota, with 10 000 t extracted between 1919 and 1921. We know of 126.5 m of mine wells and 1,066 m of galleries in the upper body of Zone no. 1, attaining up to 70 m in depth; since then it has been unexploited. At Victoria there are 2 old tunnels cutting the mineral at a depth of 6.5 m. In general the relief is favourable for mining the deposits since the direction of the dip in the mineral bodies tends to be similar to that of the relief slope.

ARIMAO - LAS BREÑAS (NO. 2)

- ▶ Location: The area is in the northeastern part of Cienfuegos province, between 7 and 28 km away from the provincial capital and the port of Cienfuegos with which it communicates along the Cienfuegos-Cumanayagua-Manicaragua highway. There is also a railway line that establishes communication with the aforementioned port. The terrain is hilly.
- ▶ Area: 158.4 km².
- ▶ Metals: Cu, Mo, Au & Ag
- ▶ Current degree of study: Exploration at Arimao. Extension of the silicified zone and of the ones rich in magnetite with high grades associated with Cu and Au, even though this is not yet determined. Prospecting at Macagua. The mineral zone is not delimited and the PI anomalies have not been drilled. Recognizance at Las Breñas & La Vega. The remaining manifestations present in the area lack study.
- ▶ Proposed Investigation Phases: completing exploration at Arimao and prospecting at the remaining manifestations in the area
- ▶ Mineralization Info: meso-epithermal deposits: La Vega, Las Breñas and similar manifestations (18 in total): Malachite, azurite, pyrite, native gold in quartz and calcite veins imbedded in silicified, chloritized and carbonated rock. There are strong Cu, Au, Ag and Hg geochemical anomalies
- ▶ Porphyritic deposits: 2 prospects and 29 manifestations
- ▶ Arimao Prospect: this is a deposit of disseminated pyrite and chalcopyrite and in veins in a well-developed quartz stockwork in an area of 500 m x 500 m. Mineralization extends between the surface and a depth of 245 m. Basically pyrite, chalcopyrite, magnetite, bornite, azurite, calcosin, covelin, malachite, esfalerite, molibdenite, quartz, chlorite, feldspate K, sericite.
- ▶ Macagua Prospect: the mineralized zone forms a linear stockwork of quartz veins with chalcopyrite and molibdenite. The best studied mineral body is 750 m long and 100 m wide, with its thickness oscillating between 86 m and 122 m, with a length of 260-280 m at the dip. Intersected mineralization is at between depths of 18 m y 300 m. The main minerals are pyrite, chalcopyrite and molibdenite, quartz, chlorite, feldspate K and sericite.
- ▶ Paso Bonito is a zone with quartz veins 3 m to 10 m wide and 1 000 m long, located within altered banded amphibolites with marked foliation, close to contact with granodiorites. Much pyrite and some malachite and chalcopyrite disseminated with limonite.
- ▶ Other manifestations present in the area consist of outcroppings of small veins with malachite, azurite and quartz in intrusive felsic, where we report 0.21 to 1.44 % of Cu; 0.002 – 0.122 % of Mo (up to 1 % in some samples); 0.19 g/t of Au and 25.5 g/t of Ag. Presence of grains of Au in jagua samples.

- ▶ Reported components: possibly meso-epithermal deposits of low and/or medium sulfuration and skarn: 0.1 – 4.16 % of Cu; 0.5 -1.7 % of Zn; 0.1 – 6.27 g/t of Au; 1 - 33 g/t of Ag (up to 199 g/t). Presence of Au grains in samples of jaguas. Arimao: 0.36 % of Cu; 0.001 a 0.0096 % of Mo; 0.1 – 2.738 g/t of Au; 1 to 7 g/t of Ag. Macagua: 0.19 – 0.203 (up to 1.21) % of Cu; 0.025 (up to 0.4) % of Mo. Paso Bonito: 0.50 – 1.21 (0.73 %) of Cu; 0.3 – 1.2 g/t of Ag.
- ▶ Mining activity: no mining activity whatsoever

LA MOZA –YAGRUMAL (NO. 4)

- ▶ Location: in the southern part of Villa Clara province, some 45 - 60 km east of the city and the port of Cienfuegos and 35 km south of the city of Santa Clara; the principal access routes are the Cienfuegos-Cumanayagua-Manicaragua-Fomento and Santa Clara-Manicaragua highways. Manicaragua is the main urban center in the area.
- ▶ Area: 221.1 km²
- ▶ Metals: Cu, Au y Ag.
- ▶ Genetic type of mineralization: Porphyrific (Cu - Mo ± Au) & Mesothermal (Cu – Au)
- ▶ Current degree of study: geological surveying.
- ▶ Proposed research phases: Recognizance in the entire area
- ▶ Mineralization Info: the area brings together 31 mineral occurrences, of which only 3 have reported analysis results. In general, they consist of cupriferous mineralization of malachite and chalcopyrite; sometimes with pyrite, magnetite, hematites and limonite in quartz veins within the amphibolytes or in felsitic intrusive rock outcroppings. In the case of occurrences Lagunal 1 and 2 and La Guinea we see Fe caps and oxidated zones appearing.
- ▶ Reported Components: La Moza: 0.32 – 5.54 % of Cu & 1.2 – 7.5 g/t of Ag. La Arena: 1.38 – 7.67 % of Cu; 0.125 – 0.978 g/t of Au & 16.4 - 57 g/t of Ag. Yagrumal: 0.03 – 1.87 g/t of Au & 8.14 – 11.2 g/t of Ag. La Magura: 0.29 % of Cu; up to 1.14 g/t of Au & 0.4 – 35.6 g/t of Ag. La Guinea: 0.1 - 1 % of Cu. There are another 26 mineral occurrences without analytic results.
- ▶ Mining activity: only one old excavation at Lagunal 1.

TUINICÚ – FORTUNA (NO. 5)

- ▶ Location: in the central part of Sancti Spiritus province, NNE of the city with the same name, 1 to 14 km away. Accessibility is very good since it is crossed by the National Highway and the central rail line, and is covered by an ample network of secondary highways and roads. The towns of Cabaiguán, Guayos, etc. are in this area.
- ▶ Area: 559.6 km²
- ▶ Metals: Cu, Zn, Au y Ag.
- ▶ Genetic type of mineralization: VMS in felsic rock (Kuroko-type) and Porphyrific (Cu - Mo ± Au).
- ▶ Current degree of study: Recognizance.
- ▶ Proposed investigation phases: Recognizance in the entire area.
- ▶ Mining activity: Los Cerros: old mines in an area of 200 m x 200 m; 3 mine wells, 2 shafts and 4 open pit mines. Five mineral bodies were exploited (3 principales and 2 secondary bodies). The main mine pit went 60 m deep. One body was exploited to a depth of 90 m number 2 was exploited to 40 m. Some 55 tons of mineral per day was processed by collective floatation, with an average of 1.77 % of Cu and 4.92 % of Zn. Until 1953 we extracted 25,160 tons with average content of 3.5 % of Cu; 1.2 % of Zn; 19.9 % of S and 0.05 % of Pb; Au content went to 14.2 g/t and that of Ag to 28.3 g/t (contradictions exist between different sources of information)





- ▶ Fortuna-Casualidad: old small 30 m long, 12 m wide and 8 m deep source. 5 wells distributed throughout 1,200 m; one pit at the far north-north-east of the mineralized zone (Fortuna), with 155 m of galleries, 2 towards the middle (Casualidad), with 100 m of excavations (probable shafts) and another 2 at the far south-south-east (Chiripazo), with 125 m of galleries. This deposit has been known since 1927; between 1929 and 1931 6,600 t of Cu carbonate was extracted. Operations were stopped at the end of 1931 and reactivated in 1955, reaching a depth of 36.6 m. In 1956 900 tons with 3.0 % of Cu was extracted, processed at the Los Cerros plant.
- ▶ Aguadita: old shallow pit with one gallery. La Yaya 2: one old water well which has collapsed.

PLACETAS (NO. 6)

- ▶ Location: in the NNE part of Villa Clara province, between 5 and 25 km from the provincial capital Santa Clara, Placetás is the main town in the area. The territory has a good network of highways and is crossed by the central rail line. The terrain is dusty with altitudes below 350 m.
- ▶ Area: 950,6 km².
- ▶ Metals: Au, Ag, Cu, Zn.
- ▶ Genetic type of mineralization: Au - Ag orogenic type and small auriferous placers. Possible VMS mafic - ultramafic (Cyprus-type). Chipre).
- ▶ Current degree of study: Exploration in Descanso and Meloneras deposits and in placers of Loma Gobernadora & Sur de El Jíbaro. Recognizance in the rest of the area.
- ▶ Proposed investigation phases: Complete exploration of the flanks and depths of Descanso & Meloneras. Prospecting in San José de Malezas and Recognizance in the rest of the area
- ▶ Mineralización Info: Descanso deposit: fine arsenopyrite and free Au dissemination accompanied by pyrrhotine, chalcopirite, millerite, petlandite, bornite, covelin, Ag sulfo-salts and other metal minerals; known mineralization is always scarce until depths of 80 m. Meloneras deposit: Scheelite, arsenopirite, pyrrhotite, pyrite, chalcopirite, millerite, petlandite, bornite, covellite. Mineralization followed by drilling to 185 m in depth. San José de Maleza manifestation: Au in gabbros and quartz veins, and secondary enrichment cupriferous ores. Free Au and Ag, pyrite, chalcopirite, pyrrhotine, esfalerite, native copper, malachite and azurite. Ayuso manifestation: ore in streaks in serpentinite, secondary enrichment (malachite, azurite and Cu oxides) and primary enrichment (chalcopirite calcocite, bornite). Gobernadora-Cerro El Jíbaro: small auriferous placer with grains of free Au between 0.30 and 2.00 mm, in isolated cases reaching up to 4 - 5 mm. isolated grains of Platinum Group elements (PGE) are reported
- ▶ Reported Components: 2 small deposits and several manifestations are known. Descanso deposit: 50.7 g/t of Au on average (reaching maximum of 1862,2 g/t of Au); 16.5 g/t of Ag average (up to 416 g/t); 0.1 to 3.0 % of As. Meloneras deposit: up to 538,3 g/t of Au (average 22,5 g/t); up to 55.7 g/t of Ag (average 6.2 g/t); 0 - 0.9 % of As; 0.20 - 0.61 % of Cu. San José de Maleza manifestation: up to 20 g/t of Au (Promedio 3.68 g/t); 3,03 g/t of Ag (up to 7.6 g/t); 0.12 % de As; 0.295 - 3.57 % of Cu (secondary enrichment veins). Ayuso manifestation: 5.09 - 9.22 % of Cu; up to 1.5 % of W. Other manifestations with small old work, with reports of 0.3 - 1.2 g/t of Au.
- ▶ Mining activity: Descanso: small water wells and old shafts from the beginning of the twentieth century. A 67 m deep mine with 9 galleries (some 200 m long in total), distributed on 5 levels. Meloneras: known since 1868. Old mines consisting of a small quarry up to 15.2 m deep, 9 trenches and a small mine pit 32 m deep and 3 galleries, connected to a 40 m long shaft from 1955. One counter-well. According to a 1957 report, there are between 1.25 and 3.44 g/t of Au around it.. Ayuso: small old mine pit (prior to 1951) 12,2 m deep with one gallery. San José de Malezas: several water wells and horizontal excavations dating back to 1867. Loma Gobernadora: one old shaft 101 m long, excavated to look for endogenous mineralization.

SANCTI SPIRITUS NORTE (NO. 7)

- ▶ Location: in the northern part of Sancti Spiritus province, some 5 km NNE of Cabaiguán. Access is by the Sancti Spiritus-Yaguajay highway and by other smaller highways and by the rail line. Several towns such as Iguará, Meneses, Jarahuca and Zulueta are nearby. The terrain is dusty..

- ▶ Area: 541.1 km²
- ▶ Metals: Au, Ag y Cu.
- ▶ Genetic type of mineralization: Au - Ag in quartz veins (orogenic-type).
- ▶ Grado de estudio actual: Exploración en Lote Grande. El resto de las manifestaciones carecen de estudios.
- ▶ Current degree of study: Exploration in Lote Grande. The rest of the manifestaciones lack studies.
- ▶ Mineralization info: Lote Grande: Mineralization in quartz veins within bands with different degrees of tectonic fracturation, cut by clusters of diabasa dikes. The zone mineral has a minimum length of 650 m, extending from 15 to 50 m in depth, in some spots reaching up to 90 m. the most common minerals are: pyrite, pyrrhotine, arsenopyrite; and lesser amounts of chalcopirite, covellite, cubanite, bornite, esfalerite, native gold and limonite. El Cortijo: mineralized zone over 500 m in length, up to 90 m in depth.
- ▶ Reported Components: Lote Grande Prospect: 7.5 g/t of Au (up to 53.6 g/t) and 1 - 8 g/t of Ag. Pedro Barba Manifestation: 0.11 - 0.75 % of Cu; 0.3 - 2.9 g/t of Au and 1 - 3.4 g/t of Ag. El Cortijo Manifestation: up to 4.70 % of Cu and up to 1.4 g/t of Au. Other manifestations: 0.1 - 1 % of Cu and up to 0.6 g/t of Au.
- ▶ Mining activity: none known

VENEGAS (NO. 8)

- ▶ Location: in the northeastern part of Sancti Spiritus province and the most western portion of Ciego de Ávila province. Access is good by highway and railroad. There are several small towns nearby. The terrain is flat and dusty.
- ▶ Area: 410 km²
- ▶ Metals: Au, Ag y Cu.
- ▶ Genetic type of mineralization: Au - Ag in veins (orogenic-type). Possible VMS (Cu & Au) in mafic-ultramafic rock (Cyprus-type).
- ▶ Current degree of study: Recognizance in some manifestations.
- ▶ Proposed investigation phases: Prospecting in La Más Buena. Recognizance in the rest of the area.
- ▶ Mineralization Info: María Antonieta: Mineralization in intermittent pockets along some 150 m in a fault zone within crushed diabase. Most common minerals: pyrite, chalcopirite, malachite and azurite. La Más Buena: disseminated mineralization and filling in crevices, occasionally massive, in zones of tectonic breaches in oceanic basalt. Most common minerals: pyrite, chalcopirite, pyrrhotine, cubanite and magnetite. Mineralization has been followed to a depth of 90 m, without outlining along the direction because of the dips. Jobosí: vein mineralization - disseminated and in nests, in very crevassed rocks with quartz veins. Most common minerals: malachite, cuprite, chalcosine, limonite, covellite, magnetite and pyrite. Trillón: 3 zone minerals, where the mineralization is very irregular.
- ▶ Reported Componentes: María Antonieta Manifestations: 1.12 - 5.6 % of Cu and 3.4 - 5.2 g/t of Ag. La Más Buena: 0.2 - 4.28 g/t of Au (0,5 g/t average) and 0.38 - 7.15 % of Cu (1,20 % average). La Cadena: 0.12 - 0.63 % of Cu; 0.06 to 6 g/t of Au and 3 g/t of Ag. Jobosí: 1 - 8.3 g/t of Au; up to 1 % of Cu. Trillón: 0.1 - 23.7 g/t of Au and 1 - 1.8 g/t of Ag. Other manifestation: 0.1 - 2 g/t of Au.
- ▶ Mining activity: numerous old sites, all very small

CORRALILLO - CIFUENTES (NO. 9 a, b)

- ▶ Location: these sectors are in the northwestern part of Villa Clara province, some 20 - 80 km north northeast of the provincial capital Santa Clara, and some 60 - 100 km ENE of the city of Matanzas, capital of the province of the same name, which has a significant deep-water port. The territory is criss-crossed by secondary highways, a rail line and a dense network of roads. The region is characterized by its flat terrain with hills no higher than 200 m.
- ▶ Area: 1 698 km² (Corralillo: 1 142 km² / Cifuentes: 556 km²).



- ▶ Metals: Au, Ag. Posible Cu, Zn y Pb.
- ▶ Genetic type of mineralization: Au in quartz and carbonate veins (orogenic-type). Also possible is the presence of VMS in mafic-ultramafic rock (Cyprus-type).
- ▶ Degree of study: regional geochemical studies made in the framework of Geological Surveys to the scale of 1: 50 000 and a campaign of geochemical sampling done by a junior company in 1996 -1997.
- ▶ Proposed investigation phases: Recognizance in the entire prospect.
- ▶ Mineralization Info: the greatest possibilities seem to be located in the mafic-ultramafic belt where the presence of visible Au grains have been reported in water samples related to these rocks. In addition, the presence of geochemical anomalies of some interest is known (Cu, Pb, Zn, Ag, Au, Co, Ba & Cd) in continental margin sequences, frequently associated with Mn exhalatite in the contact between Fm Carmita (carbonated) and Fm Santa Teresa (silicitic-jasperitic), as well as of Cu and Mo in Fm. Cabaiguán (insular volcanic arc).
- ▶ Reported Components: Zona Cascajal Norte: Au grains visible in jagua samples agua; Au anomalies of up to 2.59 g/t and up to 0.35 % of Cu. Punto 1252: tectonic breach with malachite in the Tres Guanos granitoids. Israel Díaz zone: geochemical anomalies of up to 925 ppm of Cu; 303 ppm of Co; up to 1.5 g/t of Ag and of 015 to 1 % of Mn. Numerous occurrences of Mn in the silicites of the Fm Santa Teresa.
- ▶ Mining activity: none reported



REGIÓN CIEGO – CAMAGÜEY – TUNAS

This large region takes in most of the three provinces bearing the same name. Geologically significant for sequences of Cretaceous volcanic arc and the ophiolitic belt (Figure 5). Geologically speaking, the region is characterized by well-developed island arc magmatism, of calco-alkaline and alkaline composition, whose nucleus is identified by a well-expressed principal magma axis, east-west orientation and constituted by intrusive rock. Effusive sequences are found on its flanks.

In the intrusive nucleus, granodiorite, gabbro-sienite and gabbro-plagiogranite associations are notable, represented mainly by the polyphasic intrusive massifs of Gaspar, Las Parras and Sibanicú - Las Tunas. According to its petrochemical characteristics, these plutonic rocks may be divided into 3 series: 1) normal calco - alkaline, 2) sodium calco - alkaline and 3) alkaline.

Due to the depth of vulcanism occurrence present, it varies from deep submarine in the volcanic island arc of K1 (Albiano - Santoniano), to explosive subaerial in the volcanic island arc of K2 (Campaniano). Vulcanogenic-sedimentary sequences reside in both flanks of the magma axis. The most prospective zones relate to the southern flank sequences even though on the northern flank we also see very interesting zones such as the Loma Jacinto.

In this last case, mineralization seems to be associated with intrusive bodies of acid and alkaline composition. Nevertheless, at other points to the south of the magma axis, such as Golden Hill, mineralization is associated with vulcanic-tectonic structures, seemingly associated to another non-emergent secondary magma axis. The most important deposits present in this region are the high and low sulfuration epithermals, as well as porphyritic-type Cu - Mo ± Au. There are also Skarn-type Cu deposits (Tamarindo mineral district) and other models of deposits may appear such as Fe Skarn, porphyritic Fe and veins of Torio - Rare Earth. North of the island volcanic arcs, we find a belt zone of mafic and ultramafic rock, among which the most noteworthy is the San Felipe ophiolite massif. These sequences, just like in the central region, are found in allochthone position. Here there are deposits of laterite Fe - Ni - Co, as well as Cyprus-type VMS. Small deposits of gold and iron were exploited there at the start of the twentieth century.

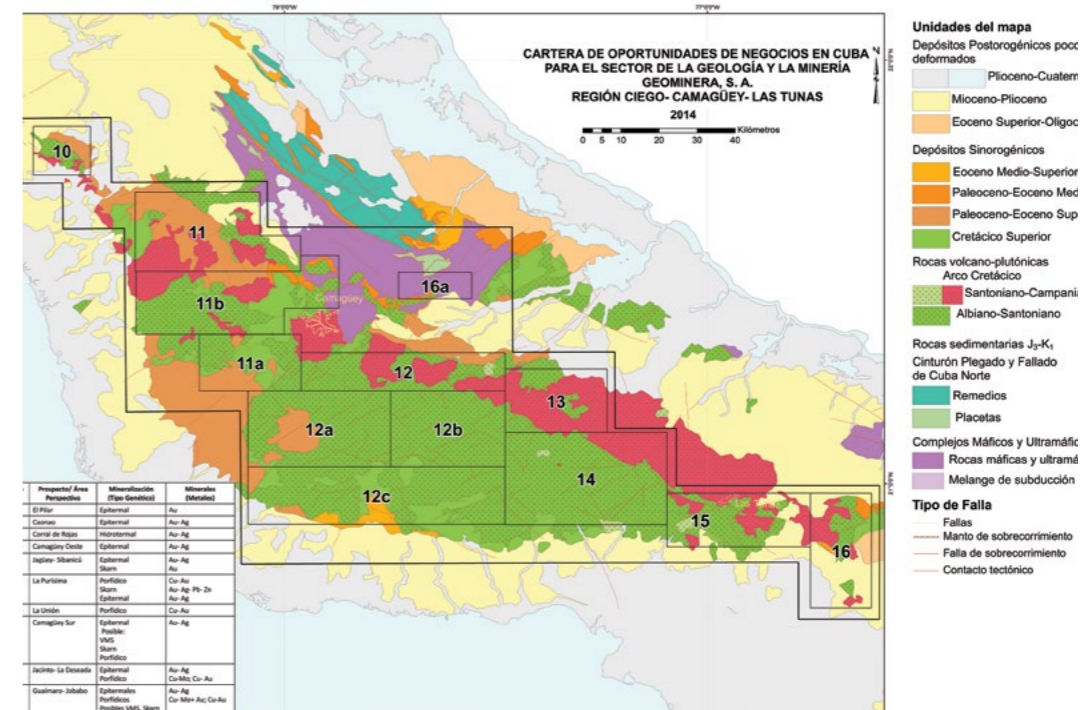


Figure 3. Investment opportunities in the Ciego-Camagüey-Las Tunas region



RECOGNIZANCES AND GEOLOGICAL INVESTIGATION (PROSPECTING-EXPLORATION) AT RISK FOR PRECIOUS METALS (GOLD AND SILVER), BASE METALS (COPPER, LEAD, ZINC) AND OTHER MINERALS OF INTEREST IN PROSPECTS IN THE CIEGO – CAMAGÜEY – TUNAS REGION (EE NATURAL RESOURCES AND ENVIRONMENT)

DESCRIPTION:	Develop Recognizance and Geological investigation (Prospecting – Exploration) for precious metals (gold and silver), base metals (copper, lead, zinc) and other minerals of interest in the Ciego – Camagüey – Tunas Region for the purpose of locating mineral deposits which are economically attractive and allow us to constitute Joint Venture to exploit, process and commercialize the minerals discovered.
INVESTMENT TYPE:	International Economic Partnership Agreement at risk for geological investigation and recognizance (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture.
CUBAN PARTY:	Geominera S.A.
ESTIMATED INVESTMENT:	It should be defined by the size of each project and the methodology of the jobs selected for each of them, depending on the phase of mining activity they are in: Geological Investigation or Recognizance.
MARKET POTENTIAL:	Within the framework of these IEPs, geological investigation will only be done for a period of up to 5 years; therefore, no final product will be obtained. The result will consist of moving on or not to the Joint Venture stage. Productions to be obtained by the future Joint Venture (for any of the minerals detected) would be for the foreign market, but if the country should need some of these products, it would always have priority of acquisition.
CONTACTS:	General Division Email: gustavo@gmsa.cu Business Division Email: vazquez@gmsa.cu Tel.: (53) 76902741 ext. 105 Website: www.gmsa.cu

PROSPECTS OF INTEREST

EL PILAR(NO. 10).

- ▶ Location: 25 km east of the city of Ciego de Ávila and 3.5 km ENE of the town of Gaspar. Access is good; 1 km to the south is the Central Highway and 2.5 km to the south is the central rail line with a station in the aforementioned town of Gaspar. Other nearby towns: Céspedes & Piedrecitas.
- ▶ Area: 180 km²
- ▶ Metals: Au.
- ▶ Genetic type of mineralization: High Sulfuration Epithermal
- ▶ Current degree of study: Prospecting
- ▶ Proposed investigation phases: Exploration. Prospecting in its vicinity.
- ▶ Mineralization Info: El Pilar: 10 mineral bodies with irregular morphologies, also with irregular distribution of Au; also pyrite, calcopyrite, chalcocite, covellite, enargite, native gold, aurocuprite, some malachite, azurite and rare bornite, limonite, goethite & hematite.

- ▶ Reported Components: El Pilar Prospect: 1.77 – 1.95 g/t of Au on average (maximum 284.7 g/t); 0.8 % of Cu on average (maximum 16.8 %); San Nicolás: 0.02 – 8.94 g/t of Au; 0.03 – 4.85 % of Cu.
- ▶ Mining activity: none

CAONAO (NO. 11)

- ▶ Location: 20 km northeast of the town of Florida and has a dusty terrain. The most direct access to the town of Florida is via a network of main roads in satisfactory condition.
- ▶ Area: 723 km²
- ▶ Metals: Au y Ag.
- ▶ Genetic type of mineralization: Epithermal.
- ▶ Current degree of study: geological surveying 1:50 000.
- ▶ Proposed investigation phases: Recognizance in the entire area.
- ▶ Mineralization Info: various manifestations of Fe skarn are known in the area, most of which have been exploited prior to 1959. Zones of hydrothermal alterations and geochemical anomalies of Cu, Zn and Au have also been reported. In general, this is an area that has not been studied very much. Reported minerals are: magnetite, hematite, quartz, garnet and pyroxene. The most common alternations are: propylitization, argillitization, sericitization and silicification.
- ▶ Reported Components: Caobilla: 60 % of Fe; La Unión: 42.25 % of Fe; La Candelaria: 46.9 % of Fe.
- ▶ Mining activity: Caobilla and Magarabomba were exploited before 1959 using quarries, extracting some 10,000 t of magnetite ore. At Pontezuela kaolin clay has been exploited for ceramics using quarries (active until the last decade of the past century).

CORRAL DE ROJAS (NO. 11A)

- ▶ Location: 18 km southwest of the city of Camagüey and with a dusty terrain. The most direct access from Camagüey is by highway to Vertientes and along causeways in good shape.
- ▶ Area: 375, 59 km²
- ▶ Metals: Au y Ag.
- ▶ Genetic type of mineralization: Epithermal
- ▶ Current degree of study: Recognizance
- ▶ Proposed investigation phases: Recognizance in the entire area
- ▶ Mineralization Info: in Corral de Rojas bodies in the form of subvertical veins appear, 1-12 m thick, within propylitized and silicified breaches. In La Clarita dacito-andesitic rock presents with quartz-sericitic and propylitic alteration.
- ▶ Reported Components: Corral de Rojas: 0.235 - 11.83 g/t of Au. La Clarita: 0.1 – 5.19 g/t of Au.
- ▶ Mining activity: none

CAMAGÜEY OESTE (NO. 11B)

- ▶ Location: directly to the west of the city of Camagüey and it presents a flat and dusty terrain. Access from Camagüey via the Central Highway and causeways in good shape.
- ▶ Area: 740.73 km²
- ▶ Metals: Au y Ag.
- ▶ Genetic type of mineralization: Epithermal (Au – Ag).





- ▶ Genetic type of mineralization: Epithermal (Au – Ag).
- ▶ Proposed investigation phases: Recognizance in the entire area
- ▶ Mineralization Info: the existence of mineralization types similar to those in neighboring prospects is presupposed, mainly epithermal Au.
- ▶ Reported Components: zone with low level of study. Only zones with hydrothermal alterations in some spots are reported (Algarrobo, La Vallita & La Larga), but the geological and structural climate deserves the development of recognizance in order to determine the possible potential.
- ▶ Mining activity: none

JAGÜEY-SIBANICÚ (NO. 12)

- ▶ Location: the zone is reached by the Central Highway which crosses the far north-east of the sector, as well as via the Camagüey-Santa Cruz del Sur highway which crosses through the center. The nearest town is the city of Camagüey, between 15 and 40 km away. The sector is also crossed by the central rail line. The territory consists of undulating flatlands with some local isolated elevations. Access is good.
- ▶ Area: 500.47 km²
- ▶ Metals: Au y Ag. Possibly Cu, Zn, Th y tierras raras.
- ▶ Genetic type of mineralization: Epithermal (Au – Ag), auriferous Skarn. Possible Th veins
- ▶ Current degree of study: Recognizance in Jagüey, La Caridad, La Mina, Catuca & Vista del Príncipe.
- ▶ Proposed investigation phases: Prospecting in the El Jagüey and Loma Caridad; Recognizance for the rest of the area
- ▶ Mineralization info: 5 manifestations of interest
- ▶ Jagüey: polymetallic mineralization associated with a barite body, 6 m thick, auriferous mineralization in quartz gashes in tectonic deformation zones in felsic volcanic rock. Known extent of mineralization is some 200 m. Identified: sfalerite, galena, calcopyrite, pyrite, barite, quartz, sericite and granate.
- ▶ La Catuca (Tres Antenas): auriferous skarn, possible mineralization of Th veins – rare earths ± Au in rhyolitic lava, sienite and tobos. Two intense gamma-spectrometric anomalies of Th associated with sienitic intrusive in contact with volcanic rock within an extensive hydrothermal alteration zone. The anomalies are 1,200 m and 900 m long, respectively, and coincide with tectonic zones. Interception with 29.3 m pits of auriferous skarn, a 23 m thick auriferous quartz vein and other intervals mineralized with gold, pyrite, sfalerite, galena, magnetite and quartz.
- ▶ La Caridad: mineral zone with 3-10 m thick and 100 m long veins in alternating sienites in contact with rhyolitic-dacitic tobos. Some auriferous interceptions 0.8-3.0 m de thick by perforation and up to 9 m in trenches. Native gold, pyrite and quartz.
- ▶ La Mina: more than 1 km long zone with anomalous Au values in rock, soil and jagua, within probable remaining central volcanic structure. Native gold and pyrite.
- ▶ Vista del Príncipe: auriferous manifestation in trenches, oxidated quartz veins 10-15 cm thick; visible gold in dacitic and popylitized andesitic volcanic rock
- ▶ Reported components: at Jagüey manifestation: 0.015 – 18.425 g/t Au; 0.37 – 130.0 g/t Ag; 0.02 – 13.50 % of Zn; 0.01 - 1.72 % of Cu; 0.01 – 5.91 % of Pb. At La Caridad: 0.8 – 15.29 g/t of Au. La Catuca: 0.4 - 6 g/t of Au, to 23.3 g/t of Ag. La Mina: 0.1 - 0.7 g/t of Au. Vista del Príncipe: 0.1 - 108.6 g/t Au; 3 - 950 ppm of Cu; 1.6 ppm of Ag, 4 830 ppm of Zn, y 2 480 ppm of pb.
- ▶ Mining activity: a small-sized exploitation of material loaned for roads existed in El Jagüey; it uncovered a mineralized zone

LA PURÍSIMA (NO. 12A)

- ▶ Location: between 18 and 30 km south of the city of Camagüey, it presents flat terrain interrupted by isolated hills. Access from Camagüey is via the Santa Cruz del Sur highway and causeways in good shape.
- ▶ Area: 697.86 km²
- ▶ Metals: Au, Ag, Cu, Pb, Zn.
- ▶ Genetic type of mineralization: Porphyritic (Cu-Au); Skarn (Au-Ag-Pb-Zn) & Epithermal (Au-Ag)
- ▶ Current degree of study: Recognizance in the La Purísima manifestation; sparse in the vicinity
- ▶ Proposed investigation phases: Prospecting in La Purísima & Recognizance in the rest of the area
- ▶ Mineralization Info: La Purísima mineral manifestation is made up of a zone of porphyritic Cu over granodioritic stock with potassium alteration and a zone of polymetallic skarn with Au in the north contact of intrusive stock with felsic volcanic rock and limestone lenses. Geochemical anomalies of Au, Ag, Pb & Zn in soil over a contact zone cover over los 2 km. Cu anomalies over mineralized stockwork cover over 1.5 km², and this gives great potential to this prospect
- ▶ Reported Components: 0.5 g/t of Au and 0.1 – 0.2 % de Cu in stockwork; 22 g/t of Ag, 0.153 – 1.34 g/t Au and up to 4 % of Zn in skarn.
- ▶ Mining activity: none

LA UNIÓN (NO. 12B)

- ▶ Location: between 25 and 50 km southeast of the city of Camagüey, it presents flat terrain interrupted by isolated residual hills. The best access is from Camagüey along the Central highway to Guáimaro, then southward to the Colombia sugar mill and then westward via causeways in good shape.
- ▶ Area: 557.16 km²
- ▶ Metals: Au, Cu.
- ▶ Genetic type of mineralization: Porfídico (Cu-Au)
- ▶ Current degree of study: Recognizance in the La Unión manifestation; very sparse in the rest of the area
- ▶ Proposed investigation phases: Prospecting in La Unión and Recognizance in the rest of the area
- ▶ Mineralization Info: porphyritic Cu with Au in granodioritic stock in contact with andesitic tufa
- ▶ Reported Components: La Unión: 0.1 – 28.7 g/t of Au and 0.025 – 0.39 % of Cu (in trenches, outcroppings and wells of up to 40 m).40 m).
- ▶ Mining activity: none



**CAMAGÜEY SUR (NO. 12C)**

- ▶ Location: in southern Camagüey province, 35 - 50 km from the capital. Its terrain is flat and can be accessed by the highway to Santa Cruz del Sur up to km 41 and then over causeways and roads in good shape, both to the east and the west. It can also be accessed from the town of Sibanicú, going westward to Cuatro Caminos in Najasa municipality.
- ▶ Area: 950.28 km²
- ▶ Metals: Possibly Au, Ag and base metals
- ▶ Genetic type of mineralization: High and Low Sulfuration Epithermals and/or Meso - Epithermals of intermediate sulfuration, without ruling out other types of mineralizations typical of island arcs
- ▶ Degree of study: geological map-making to a scale of 1:250 000
- ▶ Proposed investigation phases: Regional recognizance in the whole area
- ▶ Mineralization Info: Unknown. Elements to consider that vouch for the area's possibilities are:
 - The position of the area on the south flank of the insular volcanic arc sequences where besides medium and felsic rock there are also volcanic rocks and intrusive alkalines; this indicates great favorability from the point of view of the presence of host lithologies.
 - The buried or semi-buried nature of the structures identified by satellite images make it possible for potential mineral deposits to have been better preserved.
 - Spatial placement of the Golden Hill & Jacinto deposits, relatively far away from the principal magmatic axis, suggests that the farther away one is from the principal axis of the volcanic arc, the better and greater the existing epithermal mineralization.
- ▶ Reported Components: Unknown because of lack of studies
- ▶ Mining activity: none

GUÁIMARO-JOBABO (NO. 14)

- ▶ Location: occupies the southeastern portion of Camagüey province and the southwest of Las Tunas. The terrain is flat with some small elevations and easily accessible. The main access routes to this zone are the Central highway and the central railroad; other secondary routes branch out from them and penetrate the area. Guáimaro and Jobabo are the most important towns.
- ▶ Area: 942.68 km²
- ▶ Metals: Cu, Mo, Au y Ag. Possibly Fe.
- ▶ Genetic type of mineralization: High sulfuration, low sulfuration and low alkaline sulfuration Epithermals; Cu - Mo ± Au and Cu - Au alkaline porphyritics. Possible presence of other types of deposits
- ▶ Current degree of study: Exploration in Florencia & Maclama. Prospecting in the Jobabo district; Recognizance in Guáimaro, Palo Seco & Tres Casas I.
- ▶ Proposed investigation phases: Exploration on the flanks of "Golden Hill"; completing exploration in Maclama, Florencia and its flanks; Prospecting in Guáimaro, Palo Seco & Tres Casas I; Recognizance in the rest of the area
- ▶ Mining activity: at Iron Hill a trench was excavated to a depth of 15 m with average content of 10 g/t of Au. At Maclama extraction was done using water wells, shafts and galleries; the main pit of the mine is a ramp with 2 levels of galleries. An extraction was done using water wells, shafts and galleries. The main mine pit is a ramp with 2 levels of galleries. At Georgina at least 2 water wells were done. All the excavations were done between 1932 and 1945, with the mineral processed in a mill with a small cyanuration plant. At Florencia there are 2 mine pits, one is 80 m deep with 1,200 m of galleries and the other one is 30 m deep with 60 m of galleries, and there are a number of shallow excavations.

LAS TUNAS (NO. 15)

- ▶ Location: in the vicinity of Las Tunas province, to the west, south and southeast of the city of the same name, the provincial capital. The principal access route is the Central highway; secondary highways and main roads branch out from it towards the north and south of the province. The terrain is flat, with a few small elevations: access is good.
- ▶ Area: 494.96 km²
- ▶ Metals: Cu, Au y Ag. Possibly Mo y Zn.
- ▶ Genetic type of mineralization: Skarn (Cu - Au). Possible Epithermals (Au-Ag) & Porphyritic (Cu - Mo ± Au)
- ▶ Degree of study: geological surveying 1:100 000 in the entire area and isolated recognizance in Manicaragua, La Botija, Tunas Sureste and other sectors
- ▶ Proposed investigation phases: Recognizance in the entire area
- ▶ Mineralization Info: contact zone between granodiorite and quartz diorite and effusive rock intrusions. Vetic sulfur mineralization disseminated in spatial and genetic relationship with favorable structure sectors. Hydrothermal alterations, skarnization and cornification; quartz veins with sulfurs and Au.
- ▶ Reported Components: Manicaragua: 1 - 4 g/t of Au (maximum 25 g/t) and up to 4 % of Cu. La Botija: 0.1 - 0.99 g/t Au.
- ▶ Mining activity: none:

TAMARINDO-EL MIJIAL (NO. 16)

- ▶ Location: In the western and southern portions of Las Tunas province, bordering with Holguín province, no farther than 40 km from the provincial capital. The terrain is mainly flat with some small elevations and access is easy. The principal access route is the Central Highway; other secondary highways and main roads connect to it towards the north and south of the province.
- ▶ Area: 448.88 km²
- ▶ Metals: Cu, Au y Ag. Possibly Mo y Zn.
- ▶ Genetic type of mineralization: Skarn (Cu - Au). Possible Epithermals (Au-Ag) & Porphyritic (Cu - Mo ± Au)
- ▶ Degree of study: Recognizance in Cañada, Asientos de Tamarindo, & Tamarindo 5. Surveying in the rest of the area
- ▶ Proposed investigation phases: Prospecting in Cañada, Asientos de Tamarindo, & Tamarindo 5; Recognizance in the rest of the area.
- ▶ Mineralización Info: Cañada Honda: skarnified zone and with cupriferous and precious mineralization in the sequence contact of acidic lapillitic tufa with grey limestone; abundant malachite, garnet, quartz and calcite. Asientos de Tamarindo: cupriferous and precious mineralization in skarn in contacto with basic and middle volcanic rock (tufa), with minor interspersed limestone; abundant malachite, azurite, epidote, quartz, garnet, calcite.
- ▶ Reported Components: Cañada Honda: 0.96 - 735 % of Cu; 0.75 - 3.67 g/t of Au & 2.2 - 68 g/t of Ag. Asientos de Tamarindo: up to 14.2 % of Cu; 2.2 of Au g/t and up to 100 g/t of Ag. Tamarindo A: up to 16.2 % of Cu; 0.52 % of Zn; up to 6.1 g/t of Au; 21 - 466 g/t of Ag. Tamarindo B & C: 0.67 - 20.70 % of Cu; 0.5 - 5.49 % of Zn; 0.6 g/t of Au, 1.2 - 411 g/t of Ag. Tamarindo 5: 2.74 - 4.45 % of Cu. Tamarindo 2: 1.20 - 1.35 % of Cu. Tamarindo 2: 1.06 - 1.35 % de Cu. Otras manifestaciones: 0.5 - 4 % of Cu (maximum 16.2 %), 0.2 - 1 g/t of Au (maximum 10 g/t); 0.8 - 25 g/t of Ag and 0.61 - 1.82 % of Zn.
- ▶ Mining activity: some of the Cu manifestations (Asientos de Tamarindo, Tamarindo 5 and others) were partially exploited non-professionally in the first half of the twentieth century.



FERROLANA-CARIDAD (NO. 16A)

- ▶ Location: between 18 and 30 km northeast of the city of Camagüey. The terrain is flat and the most direct access from Camagüey is along the highway to Nuevitas and by good causeways.
- ▶ Area: 126.16 km²
- ▶ Metals: Au y Ag.
- ▶ Genetic type of mineralization: Au in Listvenitas
- ▶ Current Degree of study: Recognizance in Ferrolana & Caridad
- ▶ Proposed investigation phases: finish recognizance in the entire area to clear up the potential
- ▶ Mineralization Info: the area is characterized by the presence of refractory chromite bodies in the ultrabasic rock of the ophiolitic association. During recognizance, the presence of listvenitic alteration with sulfurs was detected, potentially favorable for Au mineralization, very similar to that known in the central part of Cuba (Descanso y Melonera).
- ▶ Reported Components: the only reports are of the presence of listvenitic rock with sulfur in the ultrabasic rock.
- ▶ Mining activity: exploitation of refractory chromites during the 1940s and 1950s.



PUNTA ALEGRE MINERAL SALT PROJECT (CIEGO DE AVILA PROVINCE)

- ▶ Location: Punta Alegre Mineral Salt is a salt deposit found in the northern part of Ciego de Ávila province in the municipality of Chambas, Ciego de Ávila province. The town of Punta Alegre, in the area's western part, is about 70 km from the city of Ciego de Ávila and 560 km from La Habana, connected by second and first rate highways and the railroad. The deposit is found beneath the heights known as the Lomas de Yeso and continues not only underneath the southern and eastern flatlands and west of the hills, but also under Buena Vista Bay, in the direction of Cayo Ladrónes.
- ▶ Area: extends for an approximate area of 15 x 6.5 km.
- ▶ Metals or useful minerals: mineral salt, mainly, also potassium and magnesium salts. Possible lithium (to be verified)
- ▶ Genetic type of mineralization: saline domo
- ▶ Current degree of study: draw up a technical-economic feasibility study and should it show feasibility, exploit the Punta Alegre Mineral Salt deposit, applying the mining technologies of dissolution and solar crystallization and/or thermal evaporation. We foresee that the latter constitutes the fundamental production for this project in order to ensure high quality salt.
- ▶ Proposed investigation phases: draw up a technical-economic feasibility study and should it show feasibility, exploit the Punta Alegre Mineral Salt deposit, with a view to its exploitation and commercialization. We propose beginning with an at risk international economic partnership agreement to draw up this study, with a view to start up exploitation and commercialization, for the subsequent creation of a joint venture for the exploitation of the resources that are economically feasible.
- ▶ Mineralization info: according to existing information, since 1930 the existence of salt under the Punta Alegre hills has been a supposition because of the presence of gypsum and limestone on the surface and because of the negative gravimetric anomaly detected in the area. These results generated the drilling of the Collazo I petroliferous well (July of 1957 to April of 1958), for the objective of prospecting for oil; but it crossed through the mineral salt deposit, for the first time, in all its strength, south of the Lomas de Yeso, thereby proving the presence of a great deposit of mineral salt. In the lithological cut of this perforation, according to Baadegaard and Bronnimann (1958, in Lukac, 1966), the crossed horizon of evaporites may be divided into an upper part, made up of gypsum with dolomite and anhydrite, that goes to 518.16 m, and a lower part of mineral salt that extends for 1207.00 m. Together with all the results of different geological investigations made, these antecedents were taken as the basis for defining the deposit's characteristics.

According to information supplied and specifically referring to the subject of in situ lixiviation, the technological investigations carried out in the various stages of work have made it possible to clarify the following aspects:

- Determining the amount of salt in rock
- Determining the quality of the salt in rock
- Possibilities of using seawater as the lixiviation fluid
- Determining the volumen of water to be injected into the wells during exploitation
- Determining the physical-mechanical properties of the rock
- Mineral resources and reserves
- Overall state of the resources in the National Balance of Resources and Reserves (BNRR)

Reported components: estimated mineral salt resources in the following tonnages and categories:

These resources coincide with the current status of the National balance of Resources and Mineral Reserves, approved by the Oficina Nacional de Recursos Minerales (ONRM) and they appear as follows: :

MEASURED RESOURCES, INDICATED AND INFERRED:

Resources	Tons	% NaCl
Measured	732,34 x 10 ⁶	73,49
Indicated	2.411,69 x 10 ⁶	74,79
Inferred	19.097,93 x 10 ⁶	71,38
Total	22.241,96 x 10 ⁶	73,22

- ▶ Mining activity: no extractions have been made on this deposit. The feasibility study proposes investment that should begin with exploring the deposit and elevating reserve resources, thereby moving on to the bankable feasibility study.





PUNTA ALEGRE MINERAL SALT.

DESCRIPTION:	The project objective is to draw up the technical-financial feasibility study and should it be shown as feasible, commission the Punta Alegre Mineral Salt deposit, applying dissolution and solar crystallization and/or heat evaporation; the last of these is foreseen as constituting the fundamental production of this project to ensure very high quality salt.
INVESTMENT TYPE:	At risk International Economic Partnership Agreement to draw up the technical-financial feasibility study for Punta Alegre mineral salt deposit, with a view to its commissioning and sales; everything with a view to the subsequent creation of a Joint Venture to exploit the resources that are economically feasible.
CUBAN PARTY:	Geominera S.A.
ESTIMATED INVESTMENT:	As a preliminary, we have prepared a minimum program up to the drawing up of the technical-financial feasibility study, for an estimated 1.38 million USD.
LOCATION:	Chambas municipality, Ciego de Ávila province
MARKET POTENTIAL:	Given the specific conditions of this field, made up of breaches of mineral salt, with an average grade of salt (in the zone of the project) of 73.49% (Martínez Salcedo, et al. 1985), with 10 - 40 % of impurities, and with potential coverage of over 150 m, the most appropriate exploitation method is the one where salt is dissolved in situ to obtain brine for the high technology industrial process. With this method, besides being the least expensive, the need to manage sterile matter remaining in the extraction chambers is avoided, including most of the insoluble residue present in the mineral salt breach.
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HOLGUÍN & MACIZO SAGUA-BARACOA REGION

A) HOLGUÍN REGION

This region is made up of a steep allochthonous sequence of volcanogenic-sedimentary and ophiolitic rock (known as Zona Auras) in close and overlapping tectonic contact by transcurrent and over the top faults. This sequence, heavily layered and folded, rests on the North American continental border. (Figure 4).

The principal models of deposits present in the zone are Mother Lode-type auriferous, orogenic copper-gold-silver and Cyprus-type VMS.

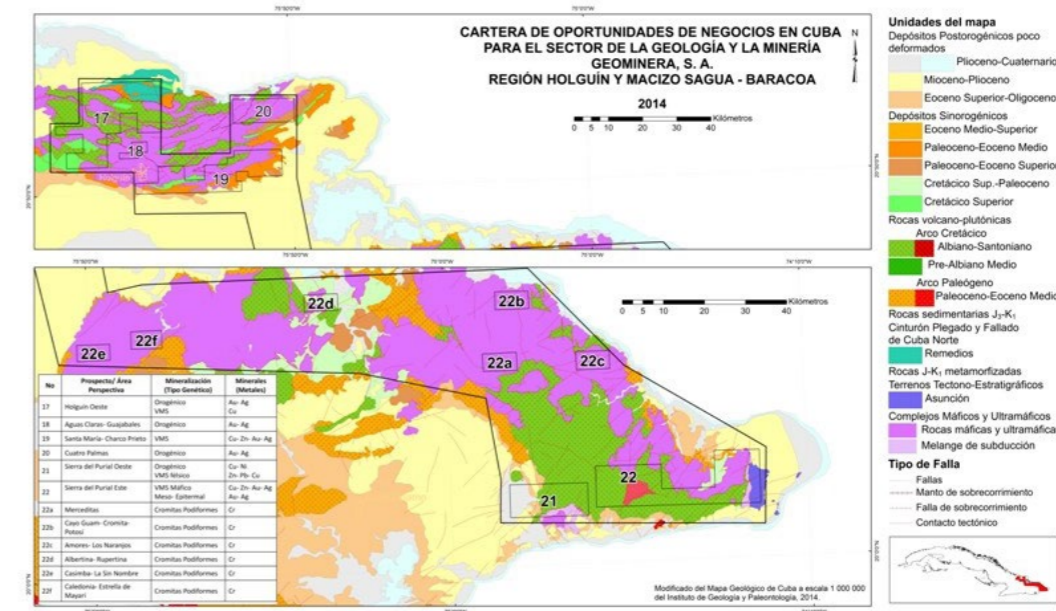
The greatest possibilities to locate mineral deposits are found at sites where the over-the-top and transcurrent faults are cut by transversal north and northeast faults. Also at those sites the over-the-top sequence is cut by subvolcanic bodies, medium basic composition and sometimes acid can be found.

- In the region, metal mineralization presents spatial and genetic association with subvolcanic bodies and tectonic zones, and we see clear tectonic-magma control. In the territory, we can clearly distinguish two groups of hydrothermal alterations related to the useful and associated mineralization; one of them with subvolcanic bodies, and the other with ophiolites and tectonic zones.
- Agua Claras gold deposit is well known in this region, partially exploited but still without abundant resources

B) MACIZO SAGUA – BARACOA REGION

The Pinares de Mayarí & Moa – Baracoa ophiolitic massifs are identified as well as the sequence of metamorphic rock in the Sierra del Purial. Each of these possesses its own metallogeny. Besides the well-known nickel deposits, the first ones abound with chrome deposits and manifestations, while in the Sierra del Purial the most common ones are copper mineralization. (Fig. 5)

Among the most well-known chrome deposits are Merceditas, Amores, Los Naranjos, Cayo Guam etc. (Moa – Baracoa); Caledonia and Albertina (Mayarí – Sagua). In the Sierra del Purial the most well-known is copper at Elección.



Figures 4 & 5: Investment opportunities in the Holguín and Macizo Sagua-Baracoa region



RECOGNIZANCE AND GEOLOGICAL INVESTIGATION (PROSPECTING-EXPLORATION) AT RISK FOR PRECIOUS METALS (GOLD AND SILVER), BASE METALS (COPPER, LEAD, ZINC) AND OTHER METALS OF INTEREST IN THE HOLGUÍN REGION

DESCRIPTION:	Developing Recognizance and Geological Investigation (Prospecting – Exploration) for precious metals (gold and silver), base metals (copper, lead, zinc) and other minerals of interest (chrome, platinoids, etc.) in the Holguín Region, for the purpose of locating deposits of these economically attractive metals and which in future would argue for the constitution of Joint Ventures for exploitation, processing and selling the minerals discovered.
INVESTMENT TYPE:	International Economic Partnership Agreement at risk for geological recognizance and investigation (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture
CUBAN PARTY:	Geominera S.A.
ESTIMATED INVESTMENT:	To be defined by the size of each Project and the methodology selected for each one, depending on the phase of mining activity: Recognizance or Geological Investigation.

MARKET POTENTIAL: Within the framework of these EPAs, Geological Investigation has only been done for a period of up to 5 years and so no final product has been obtained; the result will consist of going on to a Joint Venture or not. Products obtained by the future Joint Venture (any mineral detected) would go to the foreign market but should the country need any of these products it would always have priority for their acquisition.

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RECOGNIZANCE OR GEOLOGICAL INVESTIGATION (PROSPECTING-EXPLORATION) AT RISK FOR CHROME AND OTHER METALS IN THE SAGUA – BARACOA MASSIF, AND FOR BASE AND PRECIOUS METALS IN THE SIERRA DEL PURIAL.

DESCRIPTION: Developing Recognizance and Geological Investigation (Prospecting – Exploration):
For chrome and other metals (platinoids, etc.) in ophiolitic rock in the Sagua – Baracoa massif, for the purpose of locating new deposits of this metal and increase the degree of study for the dozens of known manifestations.

For base and precious metals in Sierra del Purial.

Accumulations of these minerals that are economically attractive could be the argument to take for the creation of Joint Ventures for their exploitation, processing and commercialization.

INVESTMENT TYPE: International Economic Partnership Agreement at risk for geological recognizance and investigation (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture

CUBAN PARTY: Geominera S.A.

ESTIMATED INVESTMENT: To be defined by the size of each Project and the methodology selected for each one, depending on the phase of mining activity: Recognizance or Geological Investigation.

MARKET POTENTIAL: Within the framework of these EPAs, Geological Investigation has only been done for a period of up to 5 years and so no final product has been obtained; the result will consist of going on to a Joint Venture or not. Products obtained by the future Joint Venture (any mineral detected) would go to the foreign market but should the country need any of these products it would always have priority for their acquisition.

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PROSPECTS OF INTEREST FOR THE HOLGUÍN REGION

SIERRA DEL PURIAL OESTE (NO. 21)

- Location: includes the western part of the Sierra del Purial metamorphic massif, in Guantánamo province; it is 25-45 km from the city of the same name. The territory is mountainous and access to it is difficult.

- Area: 152,20 km².
- Metals: Cu, Au & Ag. Possibly Zn, Ni & Co.
- Genetic type of mineralization: Sulfurs of Cu - Ni (Orogenous) and possibly felsic VMS (Kuroko type) more or less modified by regional metamorphism.
- Current degree of study: Prospecting at Elección and Jobito prospects. Recognizance in the rest of the manifestations.
- Proposed investigation phases: Complete prospecting and start exploration at Elección and Jobito. Recognizance in the rest of the area.
- Mineralization info: on surface, both at Elección and Jobito, cupriferous mineralization, represented basically by malachite and azurite, associated with diorite bodies lying concordantly with metamorphic foliation. Mineralized zones present generally abrupt deposits towards the west and are identified by high silicification and oxidation.
- Reported components: Elección: 0.7 - 15 % of Cu (average 2.15 %); 0.1 – 0.8 % of Ni; 0.05 -0.1 % of Co; to 8 g/t of Au and 10 - 85 g/t of Ag. Jobito: in oxidated ore 0.5 – 9.58 % of Cu; 0.1 – 15.2 g/t of Au and 1 - 114 g/t of Ag. In primary ore 0.87 – 12.69 % of Cu; 0.5 - 1 % of Zn; 0.1 – 3.5 g/t of Au y 1 – 31.2 g/t of Ag. La Cruzada: 0.4 -1 % of Cu and 0.1 -0.2 % of Ni. Los Asientos: 0.3 - 3 % of Cu and up to 1.2 g/t of Au. Anibal: 0.1 - 10 % of Cu and up to 1 % of Zn. Miguel: to 3.32 % of Cu. Quibiján: 0.16 % of Cu and 0.71 % of Zn. Yacabo Arriba: 0.2 – 0.3 % of Cu, to 0.7 % of Pb and up to 0.3 % of Zn. Maya: to 0.1 % of Cu. La Criolla: 0.1 % of Cu. Lajas: to 0.3 % of Cu.
- Mining activity: a number of shafts dug between 1920 and 1950.

SIERRA DEL PURIAL ESTE (NO. 22)

- Location: takes in the eastern part of the Sierra del Purial metamorphic massif in Guantánamo province, some 50 - 80 km east of the city of the same name. The main access route to the area is the highway from La Farola, connecting the aforementioned city with the town of Baracoa. Accessibility on the property is poor, with mountainous terrain and a changeable climate.
- Area: 355,44 km².
- Metals: Cu, Zn, Au y Ag.
- Genetic type of mineralization: mafic-ultramafic VMS (Cyprus-type); meso-epithermal Au - Ag modified by regional metamorphism
- Current degree of study: geological surveying
- Proposed investigation phases: Recognizance in the entire area
- Reported Components: El Ñame: 0.1 - 10 % de Cu & 0.2 g/t of Au. La Ventura I: 0.4 % of Cu y 0.1 - 1 g/t of Au. Jagüey: 1.0 – 8.16 % of Cu. El Hoyo: 0,5 -7.12 % of Cu & 0.1 – 11.75 % of Zn. La Jaldá: 1.0 % of Cu y 200 g/t of Ag. La Olla: 0.1 – 12.59 % of Cu & 0.1 – 1.14 % of Zn.
- Mining activity: a number of small shafts at El Hoyo.

MERCEDITAS (NO. 22A)

- Location: some 35 km south of the city of Moa, far eastern end of Holguín province. The terrain is mountainous and wild, but access is good, using a passable mountain road that goes right to the old mining facilities. Access to any other zone is extremely difficult.
- Area: 60 km².
- Metals: Cr.
- Genetic type of mineralization: podiform chromites



- ▶ Current degree of study: Exploration at Merceditas where there are considerable volumes of mineral prepared for extraction and resources estimated in Measured, Indicated and Inferred Categories. Prospecting at La Melba and Pilotos I, II, III & IV, Loro, Yarey, etc.
- ▶ Proposed investigation phases: complementary exploration at Merceditas. Complete prospecting and undertaking exploration at La Melba, Pilotos I, II, III & IV and Yarey. Recognizance in the rest of the area
- ▶ Mineralization Info: Merceditas: Various massive podiform chromite bodies, refractory type and high chromo grade, generally associated with more or less serpentinized dunites. In the rest of the manifestations and prospects, the mineralization can be both massive and disseminated.
- ▶ Reported Components: Merceditas: Cr2O3 = 31.3 %; SiO2 = 5.5 %.
- ▶ Mining activity: the Merceditas deptsot was exploited until 2008 by the Empresa Cromo Moa. Access is through a main shaft and all the interior infrastructure of the mine is still preserved. La Melba was also partially exploited.

CAYO GUAM-CROMITA-POTOSÍ (NO. 22B)

- ▶ Location: east of the city of Moa, between 10 - 35 km away from it, in the far eastern end of Holguín province. The terrain is mountainous and wild, but access is good, using a passable mountain path that goes right up to the old mining facilities or their immediate vicinity.
- ▶ Area: 45 km2.
- ▶ Metals: Cr.
- ▶ Genetic type of mineralization: podiform chromites
- ▶ Current degree of study: Cromita: Exploration; there are evaluated resources in Measured and Indicated Categories. Cayo Guam: Exploration; there are evaluated resources in Measured and Indicated Categories. Potosí: Exploration; there are evaluated resources in Measured and Indicated Categories. Prospecting in other neighboring manifestations
- ▶ Proposed investigation phases: complementary exploration at the three principal deposits (Cromita, Cayo Guam & Potosí). Prospecting towards the depths and at other small manifestations nearby
- ▶ Mineralization Info: podiform chromite bodies, generally associated with dunites. Disseminated mineralization predominates but massive bodies may also appear. Prospects improve at greater depths.
- ▶ Reported Components: Cromite: Cr2O3 = 35.23 %; SiO2 = 4.16 %. Cayo Guam: Cr2O3 = 36.15 %; SiO2 = 2.95 %. Potosí: Cr2O3 = 33.88 %; SiO2 = 5.96%; Al2O3 = 20.77%.
- ▶ Mining activity: the 3 main deposits were first exploited by Americans in the 1940s and later by the Empresa Cromo Moa in the 1990s. All were open pit mines at first and later had shafts which are still perfectly preserved. Other smaller manifestations were also partially exploited.

AMORES-LOS NARANJOS (NO. 22C)

- ▶ Location: in Guantánamo province, some 20 km southwest of the city of Baracoa and 70 km southeast of the city of Moa. The terrain is wild and mountainous but access is good, taking a principal road in good shape that goes right up to both mining facilities.
- ▶ Area: 60 km2
- ▶ Metals: Cr.
- ▶ Genetic type of mineralization: podiform chromites
- ▶ Current degree of study: Exploration at Amores and Los Naranjos. Both deposits have resources evaluated in Measured, Indicated and Inferred Categories. Prospecting at other manifestations (Nibujón I & II, Juraguá, etc.)
- ▶ Proposed investigation phases: complementary exploration at Amores and Los Naranjos. Prospecting towards the flanks and depths of both, as well as at Nibujón I & II, Juraguá and others

- ▶ Mineralization Info: refractory podiform chromite bodies. Both deposits are highly perspective on their flanks and towards the depths.
- ▶ Reported components: Amores: 27.32 %; SiO2 = 9.64 %, Al2O3 = 21.3 %. Los Naranjos: Cr2O3 = 33.16 %; SiO2 = 6.81 %.
- ▶ Mining activity: the 2 deposits were exploited up to 2008 by the Empresa Cromo Moa. Amores: partially exploited using shafts. Los Naranjos: partially exploited as open pit mines

ALBERTINA-RUPERTINA (NO. 22D)

- ▶ Location: the selected area is in the northern Sierra Cristal foothills, some 10 km from the town of Sagua de Tánamo. The terrain is dusty and rather rugged. Access is by the Holguín-Sagua de Tánamo highway and then turns south taking winding roads that are in pretty bad shape.
- ▶ Area: 6 km2
- ▶ Metals: Cr. Possibly platinoids
- ▶ Genetic Type of mineralization: podiform chromites
- ▶ Current degree of study: Exploration in Albertina; there are evaluated resources in the categories of Measured and Indicated. Prospecting in Rupertina, Tibera, Isabel and other manifestations.
- ▶ Proposed investigation phases: Complete exploration in Albertina and prospecting-exploration in Rupertina, Tibera and other manifestations.
- ▶ Mineralization Info: In general terms, podiform chromite bodies predominate (metallurgical and sometimes refractory type), variable fields. And in the forms of lenses or pockets basically associated with dunites and harzburgites. The most representative mineral is chromospinel (magnochromite and chromopicotite), that tends to appear mainly in disseminated form.
- ▶ Reported Components: Albertina: Cr2O3 = 27.34 %; SiO2 = 17.49 %, Al2O3 = 11.58%.
- ▶ Mining activity: Rupertina was explored via a shaft: Isabel was operated using a mine well and 2 shafts. Both deposits were partially exploited up to the 1990s using open pit mines. The zone has other small manifestations, most of which were partially exploited up to the 1950s.

CASIMBA-LA SIN NOMBRE (NO. 22E)

- ▶ Location: in the southwest portion of the Pinares de Mayarí meseta, some 20 km from the town of Mayarí, Holguín province. The terrain is flat (on top of the meseta) and access from Mayarí is good, taking a network of roads in good shape; it can also be accessed from Santiago de Cuba.
- ▶ Area: 12 km2
- ▶ Metals: Cr.
- ▶ Genetic type of mineralization: podiform chromites
- ▶ Current degree of study: partial exploration at Casimba, with resources defined in Measured and Indicated categories. Prospecting at La Sin Nombre and Carlos I, Carlos IV, Casimba Oeste.
- ▶ Proposed investigation phases: Complete exploration at Casimba and Prospecting – Exploration at La Sin Nombre and other nearby manifestations if required
- ▶ Mineralización Info: Casimba: abrupt metallurgical chromite bodies (greater than 45°), in the form of pockets, associated with dunite bands bolsón, asociado a bandas de dunitas.
- ▶ Reported Components: Casimba: Cr2O3 = 27.25 %; SiO2 = 16.84%; under content of Al2O3.
- ▶ Mining activity: Casimba was exploited superficially up to 10-15 m. Carlos I and La Sin Nombre were exploited as open pit mines. The zone has other small manifestations, most of which were partially exploited up to the 1950s.



CALEDONIA-ESTRELLA DE MAYARÍ.

- ▶ Location: on the northeastern flank of the Pinares de Mayarí meseta, 15 - 20 km from the town of Mayarí. The terrain is steep and broken up and this makes access to most of the manifestations and prospects of interest difficult. Both from Mayarí and Santiago de Cuba one can get to the top of the meseta using good passable roads; from the meseta one descends to the area of interest using very poor mountain paths.
- ▶ Area: 14 km²
- ▶ Metals: Cr.
- ▶ Genetic type of mineralization: podiform chromites
- ▶ Current degree of study: Prospecting at various deposits (Caledonia, Nueva Caledonia, Nueva Caledonia I, Nueva Caledonia II, Estrella de Mayarí, etc.).
- ▶ Proposed investigation phases: Complete prospecting at all prospects and manifestations and undertake exploration where justified
- ▶ Mineralization Info: Caledonia, Nueva Caledonia I, Nueva Caledonia II and Estrella de Mayarí manifestations have been partially studied. In all of them, lenticular chromite bodies predominate, generally closely associated with dunite packets. The sized of the bodies vary from one to the other, just as their morphologies and fields; generally, they are lenticular in form with wedge-shapes, both gentle and steep. The potencies go up to 20 m and they can be longer than 100 m. the main mineral present is chromospinel, which tends to appear both massively and in a disseminated manner. In general terms, the greatest perspective is under 50 m.
- ▶ Reported Components: In general, the composition of the mineral is on average the following: Cr₂O₃ = 45 - 48 %; SiO₂ = 4 - 7 %; Al₂O₃, 10 - 12 %.
- ▶ Mining activity: in each of the aforementioned manifestations one mine was operated prior to 1959. Of these, 250,000 tons of high grade metallurgical chrome were extracted. Caledonia fue explotada por varios socavones. Estrella de Mayarí también se explotó por dos socavones.

SIERRA MAESTRA REGION

The Sierra Maestra lies parallel to the southern coastline, mainly to the west of the city of Santiago de Cuba. Its eastward extension is known as the Sierra de la Gran Piedra. (Fig. 6)

Geologically speaking, this region is constituted mainly of the Paleocene Volcanic Island Arc that has numerous outstanding volcanic-tectonic structures, intrusive and subvolcanic bodies. This arc is fundamentally underwater and is currently represented by a monoclinical anticlinal tilt to the north, affected by three main systems of fractures: one that is sublatitudinal (for example, the El Cobre fault with which the deposit of the same name is associated) and the other two going NW and NE.

The region is distinguished by a south-to-north metallogenic zoning. Towards the south intermediate sulfuration mesoepithermal deposits are developed (copper – silver and gold), copper-molybdenum porphyritic with gold and the Skarn (iron with/without copper and gold); next the felsic VMS appear (Kuroko-type) and to the north there are the manganese vulcanogenic deposits. Prospects are high for locating precious metals (gold and silver), base metals (copper, lead, zinc), iron and manganese. We know of a large number of mineral deposits in this great geological structure. Some of the important ones are: the Cu deposits of El Cobre (one of the oldest mines in the Americas); the Mn deposits of Charco Redondo (now exhausted), El Cristo, Los Chivos, Barrancas and others; La Yuca iron deposits, Chicharrones, etc.

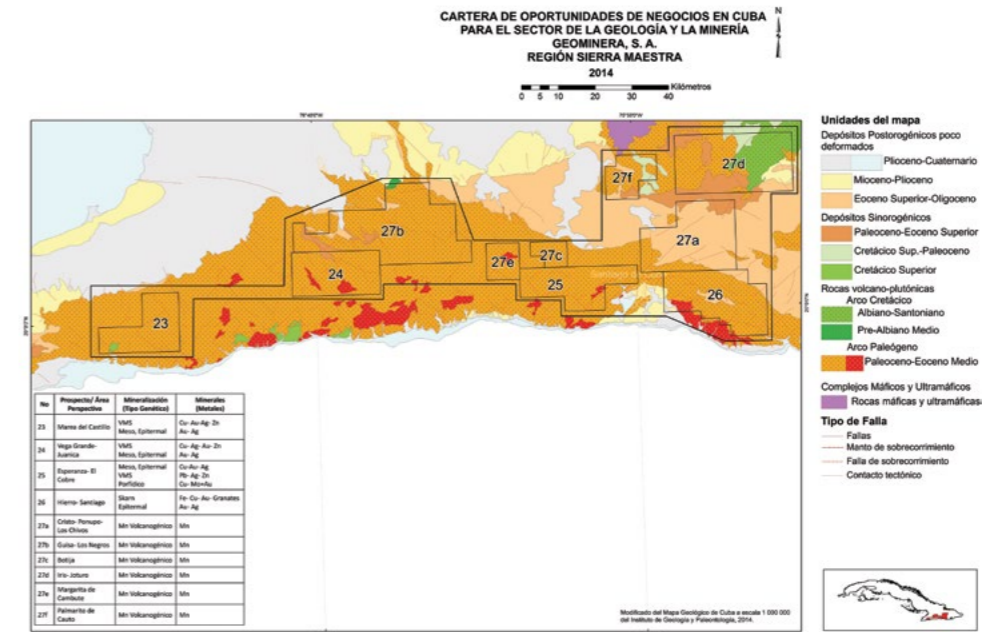


Figure 6: Investment Opportunities in the Sierra Maestra Region



RECOGNIZANCE AND GEOLOGICAL INVESTIGATION (PROSPECTING–EXPLORATION) AT RISK FOR PRECIOUS METALS (GOLD AND SILVER), BASE METALS (COPPER, LEAD, ZINC) AND OTHER METALS OF INTEREST IN THE SIERRA MAESTRA REGION

DESCRIPTION:

Developing Recognizance and Geological Investigation (Prospecting–Exploration) for precious metals (gold and silver), base metals (copper, lead, zinc) and other metals of interest in the Sierra Maestra region for the purpose of locating deposits of these economically attractive minerals and which in future would warrant constituting Joint Venture for exploiting, processing and commercializing minerals discovered.

INVESTMENT TYPE:

International Economic Partnership Agreement at risk for geological investigation and recognizance (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture.

CUBAN PARTY:

Geominera S.A.

ESTIMATED INVESTMENT:

This will be defined by the size of each Project and the methodology of the Jobs selected for each one, depending on the mining activity phase it is in: Recognizance or Geological Investigation

MARKET POTENTIAL:

Within the framework of these EPAs, Geological Investigation has only been done for a period of up to 5 years and so no final product has been obtained; the result will consist of going on to a Joint Venture or not. Products obtained by the future Joint Venture (any mineral detected) would go to the foreign market but should the country need any of these products it would always have priority for their acquisition.

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PROSPECTS OF INTEREST

MAREA DEL PORTILLO (NO. 23)

- ▶ Location: in the westernmost part of the Sierra Maestra, in Granma province, some 50 km from the city of Manzanillo and some 70 km from Bayamo. Access to the area is difficult because it is mountainous terrain. The principal access route is the highway to Granma; in the interior, one has to take mountain paths.
- ▶ Area: 244.36 km²
- ▶ Metals: Cu, Au, Ag and possibly Zn
- ▶ Genetic type of mineralization: Meso-epithermal intermediate sulfuration, possible felsic VMS (Kuroko-type)
- ▶ Current degree of study: geological surveying.
- ▶ Proposed investigation phases: Recognizance in the entire area
- ▶ Mineralization Info: in the zone, 4 main manifestations are known: Marea del Portillo, Marea del Portillo II, Río Mota and Limones de Mota.
- ▶ Reported Components: In Marea del Portillo: 0.32 – 8.63 % of Cu; up to 2 g/t of Au & 30 g/t Ag. Marea del Portillo II: 79.75 % of barite, 4 - 60 g/t of Ag & up to 1 % of Sr. Río Mota: 0.4 – 1.6 g/t of Au and 5 - 20 g/t of Ag. Limones de Mota: 0.1 – 1.98 g/t of Au.
- ▶ Mining activity: nonexistent

VEGA GRANDE-JUANICA (NO. 24)

- ▶ Location: central part of the Sierra Maestra, on its northern slope. The zone is characterized by its steep and difficult access that can only be achieved on mountain paths.
- ▶ Area: 288 km²
- ▶ Metals: Cu, Ag, Au and possibly Zn
- ▶ Genetic type of mineralization: Meso-epithermal intermediate sulfuration, possible felsic VMS (Kuroko-type)
- ▶ Current degree of study: Recognizance at La Cristina, La Nicolasa (Vega Grande sector) and Juanica. Surveying in the rest of the area
- ▶ Proposed investigation phases: Prospecting at La Cristina, La Nicolasa and Juanica. Recognizance in the rest of the area
- ▶ Mineralization Info: there are 2 prospects in the area (Cristina and Juanica) and over 10 manifestations (La Mañana, La Nicolasa, Veta Rey, Seguridad, El Agga y Nérida, San Rafael, La Risueña, Lirios, Lirios I, Guamá Sur, and others). All associated with El Cobre group effusive rock as well as numerous acid and medium intrusives, and characterized by typical mineralizations of massive sulfurs, meso-epithermals and even porphyritic.
- ▶ Reported Components: La Cristina: 0.7 – 3.63 % of Cu; 1 – 6.54 g/t of Au. Juanica: 1.98 - 4 % of Cu (up to 11.7 %); 0.5 g/t of Au (up to 20 - 35 g/t) and 56 g/t of Ag (up to 147 g/t). Veta Rey: 191.6 - 2897 g/t of Ag; 1.24 g/t of Au; 7.09 – 14.51 % of Cu and 0.16 % of Zn. La Mañana: 0.21 – 1.07 % of Cu; 1.18 – 2.2 g/t of Au y 16.8 g/t of Ag. La Nicolasa: 0.3 – 1.75 % of Cu. El Agga: 5.91 % of Cu with native Ag. San Rafael: 5.89 – 66.94 g/t of Ag. Nérida: 58.8 g/t of Ag. Colón: 200 g/t of Ag. La Gloria: 0.04 – 29.70 g/t of Au. Seguridad: 0.15 – 0.99 % of Cu y 1 - 500 g/t of Ag.

- ▶ Mining activity: La Cristina: the mine called Eureka produced some 2 000 tons of mineral with 7 % of Cu in 1947. At the Juanica prospect there are seven old mines, all having individual names. El Agga: 3 old shafts 50 m apart, excavated between 1950 and 1956. La Gloria: 2 old shafts, on the north flank of Loma La Gloria, and a third one on the west flank of Loma La Ursulita. Colón: old mining activity extracted Ag and Cu mineral. At Seguridad there is one old shaft.

HIERRO SANTIAGO (NO. 26)

- ▶ Location: in the southeastern part of Santiago de Cuba province, some 20 - 30 km southeast of the city of the same name, extending from the southern slope of the Sierra de La Gran Piedra up to the southern coast. The principal access route is the La Baco-nao-Santiago de Cuba highway and from there into the interior by causeways and roads. The terrain of the area is mountainous, with altitudes between 100 and 900 m.
- ▶ Area: 380,56 km².
- ▶ Metals and other technical metals: Fe, Cu, Au, garnets and possibly Zn & Ag
- ▶ Genetic type of mineralization: Fe y Fe - Cu - Au Skarn. Possibly epithermal Au - Ag
- ▶ Proposed investigation phases: Verification of iron resources and exploration for Au and base metals at Fe - Cu - Au - Fe deposits of Distrito Mineral Hierro Santiago. Prospecting at Sigua. Recognizance in the rest of the area
- ▶ Mineralization Info: Emphasis on Distrito Mineral Hierro Santiago and the volcanic-plutonic Sigua structure. In the former, all evaluations have been directed to the mineralization of Skarn-type iron. Most of the Distrito Mineral Hierro Santiago deposits have open quarries, with a significant volume of magnetic iron resources still to be extracted; added to this is fitted rock garnet, an industrial mineral potentially useable as an abrasive. In Sigua silicified and mineralized with auriferous sulfur magmatic rock seams predominate.
- ▶ Reported Componentes: Yuca: 39.78 – 58.60 % of Fe; up to 1 % of Mn y 0.3% of Ti. Concordia: 33.43 – 47.40 % of Fe; 0.05 – 0.7 % of Cu; presence of Au. Antoñica: 32.86 % of Fe; 0.19 – 2.79 % of Cu (up to 8.9 %); 0.1 – 3.2 g/t of Au; 50 200 ppm of Ge. Chiquita: 20 – 68.2 % of Fe; 0.12 % of Cu; presence of Au; 30 200 ppm of Ge. Arroyo La Poza: 44 – 52.7 % of Fe; 0.1 - 2 % of Cu and 0.1 - 1 % of Zn. El Descanso: 22.2 – 67.3 % of Fe; 0.1 - 2 % of Cu and 0.1 - 1 % of Zn. La Grande: 22.7 – 51.5 % of Fe; 50 - 200 g/t of Ge. El Norte: 20 – 57.95 % of Fe. Lil Vinent: 61.49 % of Fe. Manifestations: Sigua I: up to 18.75 % of Cu; 0.1 % of Pb; 0.57 % of Zn. Cupey I: 0.6 g/t of Au; 18.6 g/t of Ag. La Linet I: 6.27 % of Cu and 1 g/t of Au. Cupey: 0.4 - 11 % of Cu; 0.1 % of Ba; presence of Au.
- ▶ Mining activity: deposits at Distrito Mineral Hierro Santiago began exploitation between 1880 and 1890. By the beginning of the twentieth century Vinent, Alfredo and El Este had already started being exploited, with Folia and others joining them in a brief time. Extraction was done using open pit mines in quarries that had up to 5 exploitation steps. From 1906 to 1932 a total of 10,400,000 tons of ferrous ore was extracted. The quality of the ore extracted was as follows: 58.40 – 62.76 % of Fe; 6.90 – 12.80 % of SiO₂; 0.07 – 0.37 % of S and 0.29 – 0.38 % of P. Mineral exploitation ceased in 1947. It seems this was related to the end of WW II and the discovery of an enormous Fe deposit at Cerro Bolívar in Venezuela. At the Cupey manifestation exploration was carried out (trenches and water wells) for Au and Ag prior to 1959. At Sigua I there are old excavations; at La Linet I there are 3 holes and an old 5 m long trench.



MANGANESO CUBA ORIENTAL (NO. 27A, B, C, D, E, F).

- ▶ Location: 6 sectors in the provinces of Granma and Santiago de Cuba.
 - 1) Cristo-Ponupo-Los Chivos Sector: 15-40 km NNE of the city of Santiago de Cuba. Its southern portion is crossed by the Central Highway at the Santiago de Cuba to Guantánamo stretch
 - 2) Guisa-Los Negros Sector: in the provinces of Granma and Santiago de Cuba, south of the Central Highway, ESE of the city of Bayamo, south of Jiguaní and east of Guisa.
 - 3) Botija Sector: some 30 km WNW of the city of Santiago de Cuba, east of the Margarita de Cambute sector
 - 4) Iris-Joturo Sector: northern part of Santiago de Cuba province, between the towns of Julio Antonio Mella and Mayarí Arriba, some 50 km NNE of the city of Santiago de Cuba.
 - 5) Margarita de Cambute Sector: on the northern slope of the Sierra Maestra, some 40 km west of the city of Santiago de Cuba.
 - 6) Palmarito de Cauto Sector: between the towns of Palma Soriano and Julio Antonio Mella, NNE of the city of Santiago de Cuba. It is crossed by the Palma Soriano-Cueto highway.
- ▶ Area: 2000 km².
 - ▶ Metals: Mn. Possibly Cu, Zn, Au y Ag.
 - ▶ Mineralization type: volcanogenic Mn or "Cuban-type volcanogenic Mn deposits". Possible presence of felsic VMS (Kuroko-type)
 - ▶ Current degree of study: Prospecting and Exploration at the principal deposits known in the six sectors
 - ▶ Proposed investigation phases: Complementary exploration at those partially exploited deposits that require it. Prospecting at the little-evaluated or unstudied manifestations. Recognizance in the entire area, oriented to locate new unloosened deposits and verify the possible presence of massive known and/or to be discovered sulfurs under Mn deposits.
 - ▶ Mineralization Info: Generally, mineral bodies are massive, in the form of layers or lenticular; occasionally, they appear as irregular seams and bodies. Bodies tend to be associated, principally on the recumbent flank, with celadonic alteration zones ("green rock") and with jasperoids (known by the local name of "bayates") composed of silicon in over 90%. These bayate horizons can be up to 500 - 1 000 m long x 1 - 20 m of potency. The presence of a zone of hematitized tobos on the deposit's hanging flank is also frequent (known as "rosita"). Minerals carrying principal Mn principals in these deposits are todorokite, cryptomelane, manganite and pyrolusite; others appear in lesser quantities. Some redeposited deposits exist to a lesser degree, tucked into carbonated rock.
 - ▶ Reported Components: between 15 and 50% of Mn
 - ▶ Mining activity: extraction of the mineral was predominantly using open pit mining. Only a few mines applied underground mining in the final stages of operations. The extracted mineral was processed using hydrogravimetry in the case of rich ores, and using flotation for the poor ores.

The total magnitude of extractions carried out is unknown, but merely between 1940 and 1946 the processing plant at El Cristo (10 km from Santiago de Cuba) some 10 million tons of poor ore coming from the Cristo-Ponupo-Los Chivos mineral district was processed. Following WW II, when Mn demands subsided, most of the extraction work was stopped, continuing only at Los Chivos, El Quinto, Ponupo and Charco Redondo. Finally exploitation of these deposits totally stopped in 1968 when it became too expensive to do subterranean mining, at the same time as prices fell on the international market. El Quinto began exploitation in 1890, reaching greatest intensity during the world wars. Exploitation was done in open pit mining, and the quarry reached the size of 1,000 m long and 300-400 m deep.

SPECIAL MUNICIPALITY OF ISLA DE LA JUVENTUD REGION

Isla de la Juventud is located some 100 km south of the main Island of Cuba. It is made up of the metamorphic massif with terrigenous-carbonated composition dating possibly to the Pre-Jurassic Era (Terreno Pinos). It has a high-degree of regional metamorphism with an elevated T/P relation (Figure 7).

Its metallogeny is notoriously different from that in the rest of national territory, even that in Guaniguanico and the Escambray; first, there are the mesothermal-type gold veins (Eg. Delita) and to a lesser extent the wolfram mineralization in quartz-tourmaline veins (also hydrothermal) associated with porphyritic dikes. This last one possibly has some relation to the copper-molybdenum mineralization detected in the vicinity, seemingly porphyritic-type.

The territory's greatest wealth lies in technical minerals (marbles, micas, kaolins, silicon sand, cyanite, etc.) The Isle of Youth is the mecca of Cuban kaolin; here we find dozens of deposits and manifestations of this mineral, most of it with some degree of study, even some with resources assessed at high categories. Because of their properties, these kaolins can be plastic or de-greasing, refractory or less refractory.

The most noteworthy metal mineralization is the auriferous one and it is represented by the Delita deposit, known and partially exploited since the beginning of the twentieth century. Besides that one, the Lela wolfram deposit is important; it has also been known and partially exploited since the 1940s. Copper and molybdenum anomalies are associated with it.

We propose two different projects for this territory: one destined for wolfram (and potentially copper and molybdenum) and the other destined for technical minerals (micas and kaolins). We explain both in detail as follows:

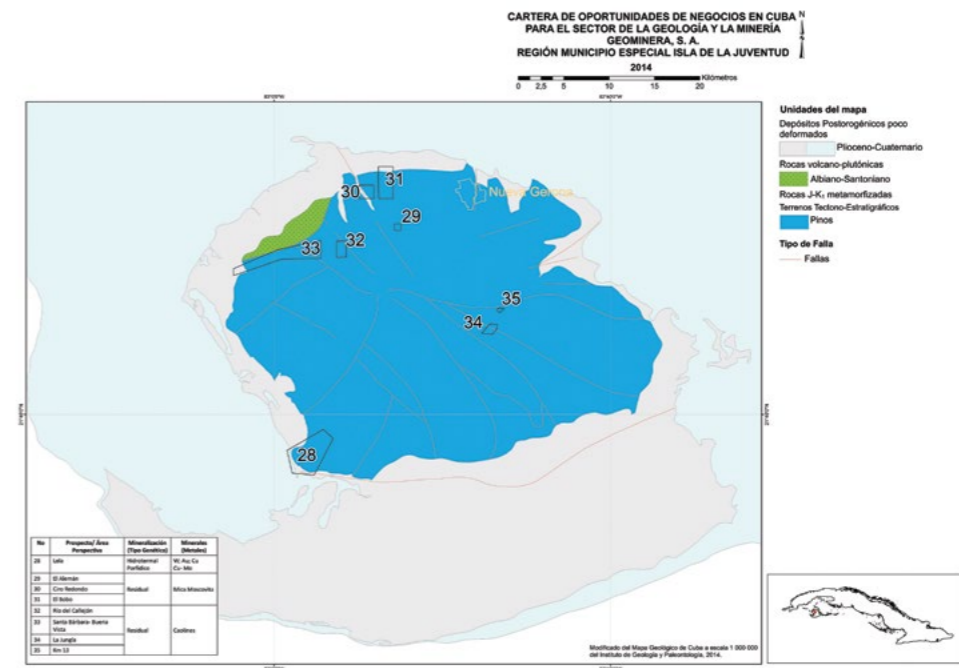


Figure 7. Investment opportunities in the Special Municipality of Isla de la Juventud



GEOLOGICAL INVESTIGATION AND RECOGNIZANCE (PROSPECTING – EXPLORATION) AT RISK FOR TECHNICAL MINERALS (MICA & KAOLIN) AT VARIOUS PROSPECTS IN THE ISLA DE LA JUVENTUD. (EE NATURAL RESOURCES AND ENVIRONMENT)

DESCRIPTION: We propose to carry out geological investigation (Prospecting-Exploration) at several mica (moscovite) and kaolin deposits on the Isle of Youth for the purpose of locating and/or developing deposits of these economically attractive minerals which in future would warrant the creation of a Joint Venture to exploit, process and commercialize them.

INVESTMENT TYPE: International Economic Partnership Agreement at risk for geological recognizance and investigation (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture

CUBAN PARTY: Geominera S.A.

ESTIMATED INVESTMENT: Total investment is estimated at around 5.3 million USD, an amount to be specified after the corresponding projects have been drawn up and the scope and methodology of the research required has been defined.

MARKET POTENTIAL: Within the framework of these EPAs, Geological Investigation has only been done for a period of up to 5 years and so no final product has been obtained; the result will consist of going on to a Joint Venture or not. Products obtained by the future Joint Venture (any mineral detected) would go to the foreign market but should the country need any of these products it would always have priority for their acquisition.

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GEOLOGICAL INVESTIGATION (PROSPECTING – EXPLORATION) AT RISK FOR WOLFRAM AT THE LELA PROSPECT

DESCRIPTION: We propose to develop geological investigations (Prospecting – Exploration) at the Lela Prospect, for the purpose of locating and evaluating new wolfram mineralization bodies that would permit us to increase known resources. Also, in the measure that this is in the interest of investors, we would like to evaluate known copper and molybdc mineralization around the wolfram deposit. Should evaluation prove to be economically viable we propose to subsequently set up a Joint Venture to exploit, process and commercialize the minerals there.

INVESTMENT TYPE: International Economic Partnership Agreement at risk for geological recognizance and investigation (Prospecting – Exploration). The prospects identified with enough advancement in their degree of study, or if this is achieved within the IEP framework, may be assessed for establishing a Joint Venture whose objective would be the exploration and commercialization of resulting minerals of interest.

CUBAN PARTY: Geominera S.A.

ESTIMATED INVESTMENT: Total investment is in the area of 6.8 million USD, a sum to be specified after the corresponding projects have been put together and the methodology and scope of investigation required have been defined.

MARKET POTENTIAL: Within the framework of these EPAs, Geological Investigation has only been done for a period of up to 5 years and so no final product has been obtained; the result will consist of going on to a Joint Venture or not. Products obtained by the future Joint Venture (any mineral detected) would go to the foreign market but should the country need any of these products it would always have priority for their acquisition.

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PROSPECTS OF INTEREST

PROJECT 1

LELA (NO. 28)

- ▶ Location: some 50 km southeast of the city of Nueva Gerona and 2 km east of the Colony Hotel. The terrain is dusty with good communication routes permitting access over asphalted highway up to less than 2 km from the mineral deposit site.
- ▶ Area: 9,5 km2.
- ▶ Metals: Wolfram. Possibly Cu and Mo.
- ▶ Genetic type of mineralization: Hydrothermal. Possibly Skarn.
- ▶ Current Degree of Study: Prospecting. There are estimated wolfram resources in the categories of Indicated and Inferred. The degree of study for Cu and Mo is very low.



- ▶ Proposed Investigation Phases: Exploration for the systems of wolfram veins. Prospecting-exploration in prospective zones for Cu and Mo.
- ▶ Mineralization Info: the mineral deposit is made up of various systems or clusters of veins of quartz with tourmaline (dravidite) with greater or lesser amounts of wolfram. Generally, these veins are associated with porphyritic dikes of somewhat older quartz feldspar composition. The structure of veins tends to be as long narrow seams, up to 200 m long with wedges and local disappearances; potency varies from a few centimeters to 10 m (mineralized and hydro-thermally altered zones); generally, their dips are sudden. They have been cut up to depths greater than 200 m.

The main minerals containing wolfram are: wolframite, ferberite and hubnerite.

Cupriferrous mineralization was found on the NE flank of the deposit, cut into 11 pits, with a strength varying from less than 1 m to more than 20 m, with Cu content of up to more than 1.0 %. Among sulfurous minerals described we have arsenopyrite, pyrrotina, chalcopyrite, pyrite and sphalerite.

Molibdenic mineralization was found on the SE flank, associated with a zone where great dikes of porfidium and apparent granitic apophysis predominates, as well as extensive explosive breaches rich in tourmaline.

- ▶ Reported Components: WO₃ = 0.61 % (average); Cu = 0.5 % (average); Mo = up to 400 g/t.
- ▶ Mining activity: during WW II the deposit was exploited by an American company which, according to reports, extracted around 1 000 t of WO₃. Witnesses to those operations are 3 mine wells, several galleries and counter-wells, 5 shafts and a number of calcates.

PROJECT 2

EL ALEMÁN (NO. 29)

- ▶ Location: some 10 km southwest of the city of Nueva Gerona. The terrain is flat and has magnificent communication routes permitting access over asphalted roads right up to the mineral deposit site.
- ▶ Area: 0.46 km²
- ▶ Mineral: Moscovite
- ▶ Genetic type of mineralization: Residual
- ▶ Current degree of Study: Exploration. There are estimated resources in the categories of Measured, Indicated and Inferred. A preliminary technological assessment and a not updated pre-feasibility study are available.
- ▶ Proposed investigation phases: complementary exploration in the part studied. Prospecting-exploration on the southern flank
- ▶ Mineralization Info: the mineral surges out of the ground and is made up of a packet of migmatitized and granitized rock (Gneisses, migmatites and anataxis granite) heavily greisenized; the effects of the elements go down to depths of 40 m (average 28), making the rock considerably crumbly. In structural terms, all this rock presents interstratified (rather, banded) in an N-S direction and with variable dips towards the east (more than 60°). They extend in this direction for somewhat more than 200m and the packet is roughly 100-120 m wide. Moscovite content, by the type of host rock, is as follows: in granite = 25 %; in migmatite = 24 %; in Gneisses = 22.5. In all cases, predominant moscovite crystals are less than 2 mm on the sides although they can attain over 30 cm in isolated nests.
- ▶ Reported Components: Moscovite: 24.5 % (average)
- ▶ Mining activity: small excavation from which less than 10,000 t of mineral is extracted.

CIRO REDONDO (NO. 30)

- ▶ Location: some 15 km west of the city of Nueva Gerona. The terrain is flat and has magnificent communication routes permitting access by asphalted highway up to some 200 m from the mineral deposit site.
- ▶ Area: 2.25 km²
- ▶ Mineral: Moscovite
- ▶ Genetic Type: Residual
- ▶ Current Degree of Study: Recognizance. Mineral cut by one single well
- ▶ Proposed Investigation Phases: Prospecting
- ▶ Mineralization Info: the mineral practically surges out of the ground (it is covered by just 15 - 20 cm of soil). It is made up of a sequence of migmatitized and granitized rock (Gneisses, crystalline shale, migmatites and anataxis granite) heavily greisenized; the effects of the elements go down to depths of 20 m, making the rock considerably crumbly. Predominant moscovite crystals are lesser than 2 mm on the sides although they can attain over 10 cm in isolated nests.
- ▶ Reported Components: Moscovite: 15 % (average)
- ▶ Mining activity: none.

EL BOBO (NO. 31)

- ▶ Location: some 10 km west of the city of Nueva Gerona. The terrain is flat and has magnificent communication routes permitting access by asphalted highway up to some 500 m from the mineral manifestation.
- ▶ Area: 5.25 km²
- ▶ Mineral: Moscovite
- ▶ Genetic Type: Residual
- ▶ Current degree of study: Recognizance. Mineral identified in several outcroppings.
- ▶ Proposed investigation phases: Prospecting
- ▶ Mineralization Info: the mineral has been located in some outcroppings of not too defined migmatitized rock. Abundant moscovite disperse don the surface everywhere in an area of over 2 km².
- ▶ Reported Components: Moscovite: 20 % (non-representative data)
- ▶ Mining activity: none

RÍO CALLEJÓN (NO. 32)

- ▶ Location: 18 km southwest of the city of Nueva Gerona and 2 km northeast of the town of La Demajagua. The terrain is flat and has magnificent communication routes permitting access by asphalted highway right up to the mineral deposit site.
- ▶ Area: 2,0 km²
- ▶ Mineral: kaolin
- ▶ Genetic Type: Residual
- ▶ Current degree of study: Exploration. There are estimated resources in the categories of Measured, Indicated and inferred. The mineral is being exploited since the 1970s.



- ▶ Proposed investigation phases: complementary exploration
- ▶ Mineralization Info: the mineral deposit has formed due to exposure to the elements of a potent sequence of shaly rock rich in feldspar (shaly mica, quartz-mica, graphite, mica-graphite, etc.). Structurally the meteorized rock sequence is inter-stratified and folded, with variable dips northwards. Mineralization is found at depths of up to over 50 m. The kaolin tends to be black, grey, white and variegated. Because of its aluminum content, it is not very plastic.
- ▶ Reported Components: Al₂O₃: 21.17 - 33.67 %, Fe₂O₃: 1.5 2.7 %. Yield: 31.7 - 33.4 %.
- ▶ Mining activity: the deposit has been exploited non-stop by a local company from the 1970s. There are 2 quarries, one of which flooded and has been abandoned.

SANTA BÁRBARA-BUENA VISTA (NO. 33)

- ▶ Location: some 25 km southwest of the city of Nueva Gerona and 3 - 4 km northwest of the town of La Demajagua. The terrain is flat and has magnificent communication routes. The area of interest can be accessed from La Demajagua by several causeways that are in good shape.
- ▶ Area: 10.12 km²
- ▶ Mineral: kaolin
- ▶ Genetic Type: Residual
- ▶ Current degree of study: Recognizance. Mineral identified in several isolated drilled wells
- ▶ Proposed investigation phases: Prospecting
- ▶ Mineralization Info: Kaolinic mineralization has been identified in several wells drilled for cartographic purposes. The strength of the apparently useful mineral varies from a few meters to over 50 m. in color, the kaolin mass varies from dark grey to white and variegated. According to the local geological map, everything appears to indicate that kaolinization is associated with a shaly graphite mica package of over 10 km long by 1 - 2 km wide. This zone could be a continuation of the Rio del Callejón southwestward.
- ▶ Reported Components: grey, white and variegated kaolin, generally not very plastic. We have no representative data on the composition of these kaolins.
- ▶ Mining activity: none

LA JUNGLA (NO. 34)

- ▶ Location: some 30 km south of the city of Nueva Gerona and 10 km west of the town of Santa Fe. The terrain is flat and has magnificent communication routes. The asphalted highway connecting Santa Fe with La Demajagua goes right through the center of the area of interest.
- ▶ Area: 1.14 km²
- ▶ Mineral: Kaolin
- ▶ Genetic Type: Residual
- ▶ Current degree of study: Recognizance. Mineral identified in various outcroppings and manual exploration
- ▶ Proposed investigation phases: Prospecting
- ▶ Mineralization Info: kaolinic mineralization has been identified in several outcroppings and manual investigations. We have no representative data on the composition of these kaolins. According to the local geological map, everything seems to indicate the kaolinization is associated with a package of shaly graphite mica around 1 km long.

- ▶ Reported Components: grey kaolin, not very plastic
- ▶ Mining activity: none

KM 13 (NO. 35)

- ▶ Location: 13 km S of the city of Nueva Gerona along the Santa Fe highway, 1 km east of it. The relief is flat and has magnificent communication routes. The Santa Fe Highway passes 1 km from the deposit.
- ▶ Area: 0,23 km².
- ▶ Mineral: Kaolin
- ▶ Genetic type: Residual.
- ▶ Current degree of study: Prospecting. Indicated and inferred resources still remain.
- ▶ Proposed investigation phases: Exploration
- ▶ Mineralization info: kaolinization is developed over a packet of metamorphic rock (schists and gneisses) somewhat more than 10 m strong and a slight dip of less than 30°.
- ▶ Mining activity: partially exploited since the 1940s. Today there are 2 abandoned and flooded quarries.





**SAN FELIPE PROJECT,
CAMAGÜEY.**



DESCRIPTION:	Some 300 million tons of lateritic mineral of nickel and cobalt are deposited in this area, that could be processed to obtain saleable nickel and cobalt products. Project objectives are to carry out studies for the development and future exploitation of the field, including geological investigation, technological development, drawing up basic engineering and the technical-financial feasibility study (EFTE).
INVESTMENT TYPE:	International economic partnership, via the risk contract type, for the stage of drawing up the feasibility study. Once concluded, a Joint Venture would be incorporated to be in charge of the execution of the Project including drawing up the detailed engineering, procuring, building, starting up and operation of the factory.
CUBAN PARTY:	Commercial Caribbean Nickel S.A. (CCN)
ESTIMATED INVESTMENT:	Up to the present time, a conceptual study has been carried out; its figures need to be confirmed by geological, metallurgical studies and future economic calculations. We estimate 25 million USD for the first phase and a total Project cost of between 2 500 - 3 000 million USD (with a 15 % contingency factor). This figure will be made more precise in the EFTE.
LOCATION:	Camagüey municipality, Camagüey province
MARKET:	The market for nickel and cobalt should grow in the coming decades due to the development of emerging countries and what stainless steel, the manufacture of hybrid autos and the great demand for their batteries will require, as well as the continuous development of nanotechnology that needs both nickel and cobalt.
ANTICIPATED RESULTS:	Annual production of 50 – 60,000 t of nickel + cobalt, metallurgical recovery: Ni: ~88 %; Co: ~86 %. Mineral Resources: 300.0 million tons (0.9 % Cut Off for Ni).
CONTACTS:	Commercial Caribbean Nickel S.A. Corporative Division E-mail: ccn@ccn.co.cu General Division E-mail: agongora@ccn.co.cu Tel.: (53) 78624601 / 78624602 / 78624608 / 78644164 Business Division E-mail: isidro@ccn.co.cu



**COLAS NEGRAS NUEVAS
PROJECT, MOA**



DESCRIPTION:	Black Tails" are being deposited in the new reservoir from march of 2017, separated and clearly identified from the previous reservoir. Today the Ernesto Che Guevara Industry generates residues (tails) in the form of pulp with the following content: Iron 43 to 47 % in the solid form, Nickel between 0.30 – 0.36 % & Cobalt between 0.05 – 0.06 %, as well as other elements such as silicon oxide, magnesium oxide, aluminum oxide, etc.; it makes up 2.5 million tons and increases at the same rate as the factory produces. The proposal objective is to locate or identify investors or international contractors with the financial capacity, technology and markets that could use or make available these tails and thereby to eliminate or decrease costs and the amount of investments needed to store them and to mitigate their long-term environmental impact
INVESTMENT TYPE:	International Economic Partnership Agreement to carry out the EFTE and, if positive, to negotiate the incorporation of a Joint Venture to carry out the detailed engineering, procuring, building, starting up and operation of the plant. Another option to be considered is a commercial contract to export said material in its current state.
CUBAN PARTY:	Commercial Caribbean Nickel S.A. (CCN)
ESTIMATED INVESTMENT:	We estimate 7 - 10 million dollars for the cost of drawing up the Feasibility Study (EFTE) including the building of a pilot plant, for any type of foreign investment except for the variant of exportation in its current state, which would be the lesser since it would not require a test plant.
LOCATION:	Moa municipality, Holguín province
MARKET:	The possible market is export for steel plants abroad and for domestic consumption to replace domestic scrap at the 2 Cuban steel plants, thereby promoting productive linkups.
CONTACTS:	Commercial Caribbean Nickel S.A. Corporative Division E-mail: ccn@ccn.co.cu General Division E-mail: agongora@ccn.co.cu Tel.: (53) 78624601 / 78624602 / 78624608 / 78644164 Business Division E-mail: isidro@ccn.co.cu





LATERITAS NICARO PROJECT, HOLGUÍN



DESCRIPTION:

To constitute an International Economic Partnership Agreement at risk with the objective of carrying out the necessary studies for the development and future exploitation of the Lateritas Nicaro deposit, known as the Nicaro-Micara Research Concession area. It will be understood as such studies the works of geological investigation, the development of the technology, the elaboration of the basic engineering and the studies of pre and economic technical feasibility. In the zone is deposited 50 million tons of lateritic ore of nickel and cobalt.

INVESTMENT TYPE:

Any type of foreign investment that allows reaching a convenient agreement between the parties, preferably an international economic partnership agreement, by means of the risk agreement modality, for the EFTE elaboration stage. Once concluded, a mixed company will be constituted in charge of the execution of the project, including the elaboration of the detailed engineering, the procurement, construction, start-up and operation of the factory, either to benefit/concentrate the ore or to obtain the metals that are economically marketable.

CUBAN PARTY:

Commercial Caribbean nickel S.A. (CCN)

ESTIMATED INVESTMENT:

For the first stage, there is an estimate of 7 million USD.

LOCATION:

Mayarí municipality, **Holguín** province.

MARKET:

The market for nickel and cobalt should grow in the coming decades due to the development of emerging countries and what stainless steel, the manufacture of hybrid autos and the great demand for their batteries will require, as well as the continuous development of nanotechnology which needs both nickel and cobalt.

CONTACTS:

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Business Division
E-mail: isidro@ccn.co.cu



COLAS ROJAS PROJECT, HOLGUÍN



DESCRIPTION:

“Red Tails” are being produced and stored since 1961 as the result of the use of acid lixiviation technology, with estimated accumulated volume today at 80 million tons, and they will continue being generated at an annual rate of over 3 to 4 million tons in the next 20 years. The objective of the proposal is to use or make available these tails and thereby eliminate or lower costs and the amount of investments necessary in order to store them and mitigate their long-term environmental impact, and assess as an alternative the exportation of tails in their current state

INVESTMENT TYPE:

Any foreign investment type that would permit reaching a convenient agreement between the parties, preferably an international economic partnership, via the risk contract type, for the stage of drawing up the EFTE. Once concluded, a Joint Venture would be set up in charge of executing the project, including the drawing up of the detailed engineering, procuring, building, starting up and operating the factory, whether just for processing/concentrating the mineral or whether for obtaining metals that would be economically viable for sales.

CUBAN PARTY:

Commercial Caribbean Nickel S.A. (CCN)

ESTIMATED INVESTMENT:

Estimated at 2.5 million USD for the first stage

LOCATION:

Moa municipality, **Holguín** province.

MARKET:

The possible market is export for steel plants abroad and for domestic consumption to replace domestic scrap at the 2 Cuban steel plants, thereby promoting productive linkups.

CONTACTS:

Commercial Caribbean Nickel S.A. Corporative Division
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Business Division
E-mail: isidro@ccn.co.cu



**MANAGEMENT AND
TRANSPORTATION
OF MINERALS FROM
PINARES DE MAYARÍ TO
MOA, HOLGUÍN.**



DESCRIPTION:

Undertake a technical-economic feasibility study to determine the feasibility of managing and transporting minerals from the existing deposits in Pinares de Mayarí to the warehouses of the nickel producer factories in Moa, the Ernesto Che Guevara Ficroey and the Moa Nickel S.A Joint Venture for them to be processed there. The Pinares de Mayarí deposits have 200 million tons of lateralic nickel and cobalt mineral that can be processed by existing technology. Part of the project could include an assessment of building and operating a new factory in the Mayarí area.

INVESTMENT TYPE:

Joint venture

CUBAN PARTY:

Pinares S.A.

ESTIMATED INVESTMENT:

15 million USD.

LOCATION:

Mayarí municipality, **Holguín** province.

MARKET:

The market for nickel and cobalt should grow in the coming decades due to the development of emerging countries and what stainless steel, the manufacture of hybrid autos and the great demand for their batteries will require, as well as the continuous development of nanotechnology which needs both nickel and cobalt

CONTACTS:

Commercial Caribbean Nickel S.A. Corporative Division
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Business Division
E-mail: isidro@ccn.co.cu



► **OBUSINESS OPPORTUNITIES**

► **ESTUDIOS HABANA
(AREÍTO)**



DESCRIPTION:

This project aims to save the architecture of the building, to revive a recording studio (101) and to create an interactive gallery (102) that would include exhibits showing the history of recording in Cuba (specifically in Areito), facilities to listen to archived recordings, to view audiovisual material on the same subject, and to attend events, lectures, exhibitions, etc. All of this would fulfill the main objective of making Estudios Areito the "Cathedral of Music Recording in Cuba", a place where one can relive the past through the treasures in the archives, and join it to the present through the recordings being made in Studio 101; both archives and recording studios could be visited.

We also see the project including the leasing of Recording Studio 101 and using El Jelengue, the theater located in the building, to put on music covering everything from trova, to son y rumba. We also envision reviving the production of vinyl records in the studios so that they may be sold internationally, a market niche which is currently growing and which Areito will be able to represent as a vintage label.

INVESTMENT TYPE:

International Economic Partnership Agreement

CUBAN PARTY:

Empresa de Ediciones y Grabaciones Musicales Egrem

ESTIMATED INVESTMENT:

4.8 million USD

LOCATION:

Centro Habana municipality, **La Habana** province

MARKET POTENTIAL:

Cuban and international musicians and groups, international tourism and the local population of Havana

ANTICIPATED RESULTS:

Restoring the building and providing for its technological component so that it may initiate activity, in order to attract musicians and music producers as potential customers for recording services in the emblematic Areito Studios and at the same time promoting musical tourism, visiting studios and listening to recordings in the anthology archives, acquiring cultural products such as vinyl records and also to enjoy live performances. We anticipate annual sales of more than 800,000 dollars: the investment recovery period is estimated at 5 years.

CONTACTS:

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 Name: Yolaida Duharte López
 Position: Director for Exports
 Email: dir.export@egrem.co.cu / Tel.: (53) 72046198

**MANUFACTURING AUDIO
AND TECHNOLOGICAL
► LIGHT SYSTEM SETS,
SCREENS AND FLASH
CASES**



DESCRIPTION:

This project seeks to manufacture audio and technological light system sets, screens and flash cases, for export to the Caribbean and Latin America during the first phase, and to meet the domestic market demand and replace imports.

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Empresa de Producciones para el Arte y el Espectáculo (Tecnoescena).

ESTIMATED INVESTMENT:

2.5 million USD.

LOCATION:

Playa municipality, **La Habana** province

MARKET POTENTIAL:

Duty-free sales to all the country's cultural institutions (theatres, casa de cultura and casas de la música, cultural centres) and to tourism facilities. Insert into the international market, in countries in the area, after acquiring experience in the activity.

ANTICIPATED RESULTS:

Obtaining technological products that bring estimated annual revenues of around 2 million dollars, for the purpose of becoming a leading producer of these products in Cuba and to also penetrate the export market for Central America and the Caribbean.

CONTACTS:

Name: José Martínez Fleitas
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 Name: Christian Nahim Rosales Abeth
 Position: Subdirector for Accounting, Tecnoescena
 Email: tecnoescena@cubarte.cult.cu / Tel.: (53) 72031603



▶ MANUFACTURING AND
SETTING UP SMALL,
MEDIUM AND LARGE
TENTS (TENSE FORMS)

**DESCRIPTION:**

This project seeks to salvage the building and to restart the workshop producing different sized tents, promoting new designs.

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Empresa de Producciones para el Arte y el Espectáculo (Tecnoescena).

ESTIMATED INVESTMENT:

1.8 million USD per year

LOCATION:

Playa municipality, **La Habana** province

MARKET POTENTIAL:

Ensuring 100 % of the demand for tents in Ministry of Culture facilities, inserting into the market for leasing medium and small tents for popular festivals, carnivals, etc., as well as for international events and fairs held in Cuba. Becoming the exclusive supplier for the National Circus of Cuba and providing maintenance and repair services for existing tents. Inserting into the international market for countries in the area after having acquired experience in the activity. We also foresee meeting the existing demands in the tourism sector.

ANTICIPATED RESULTS:

Diversification of the company's productions, increasing overall production to 1.5 million dollars per year, thereby recovering the investment in 2 years. Establishing the company as a leader in supplying this product in Cuba and penetrating the export market to Central America and the Caribbean.

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▶ BÚSQUEDA DE
FINANCIAMIENTO PARA
LA PRODUCCIÓN DE
PINTURAS Y OTROS
MATERIALES PARA LA
CREACIÓN ARTÍSTICA.

**DESCRIPTION:**

Promote industrial facilities to produce paint and other artists' materials such as different kinds of easels, drawing tables, various sizes of stretchers, palettes, spatula sets, different types and qualities of brushes, white primer, gesso, primed canvas, recycled paper, pigments, basic colors of oil paints, basic colors of acrylic paints, and other paint used in the visual arts. Packaging and packing for these products

INVESTMENT TYPE:

International economic partnership agreement

CUBAN PARTY:

Fondo Cubano de Bienes Culturales

ESTIMATED INVESTMENT:

2.8 million USD.

LOCATION:

Centro Habana municipality, **La Habana** province

MARKET POTENTIAL:

Cuba's 3,500 artists working in the visual arts lack an internal stable market that sells these materials and supplies. This project would also support the activities of the teaching of the arts in Cuba. We foresee selling these products in Central America and the Caribbean.

ANTICIPATED RESULTS:

Obtaining stable sustained production of these materials and supplies that would allow us to have annual revenues of more than one million dollars; this would see investment recovery in 3 years. Setting up a company that would be the leader in supplying these products in Cuba in order to meet internal market demands and penetrate the export market.

CONTACTS:

Name: Arturo Valdés Curbeira
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Email: arturo@fcbc.cu
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Name: Fernando Morgan Scott
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Audiovisual activity

Today Cuba has 7 open national public television channels and 1 international channel (Cubavisión Internacional) that has coverage all continents.

The television industry particularly requires constant technological updating and so we are dealing with a sector where the use of advanced technologies and equipment more and more determines the visual and sound levels of their products; they

determine the features for production and for subsequent commercialization.

Cuba has high professional specialists in the sector. Together with the creation of the necessary infrastructure, insertion into the distribution chains and the provision of updated technological means and equipment it can contribute to the movement of exports, fundamentally of services, in our geographical region.



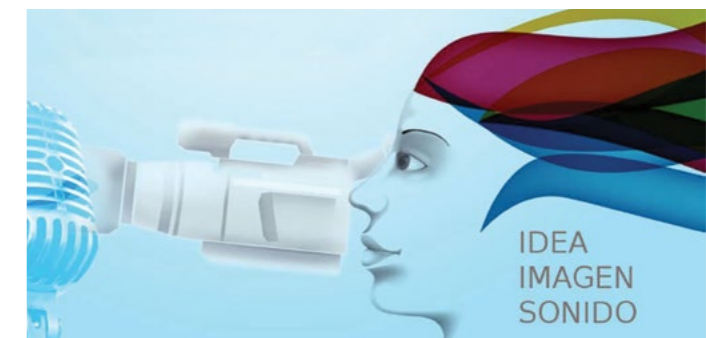
The Entertainment Industry, as it is called internationally, principally brings together television and radio. It is increasingly becoming more affected by and forced to undergo greater development in the face of constant technological changes being introduced and the different channels and digital platforms that are making possible the limitless spreading of these media throughout the world due to globalization.

SECTORIAL POLICY:

To promote comprehensive projects that enhance the migration process to digital television, allow the permanent updating of audiovisual technology and the generation of entertainment and educational contents, and facilitate the internationalization of audiovisual products and services by raising export levels. Cuban partners will always define and control the audiovisual content to be produced by an international economic partnership or association. Wholly-owned foreign capital enterprises will not be allowed.

International Radio and Television Convention

Every October this audiovisual media sector business platform sees the participation of suppliers and distributors of technologies and products associated with radio and television productions. Expositions, lectures and the launching of new products and technological solutions fill the program along with meetings with intellectuals, audiovisual creators, top-notch television producers in the region and each of the Telecentros de Cuba where strengths and necessities can be shared.





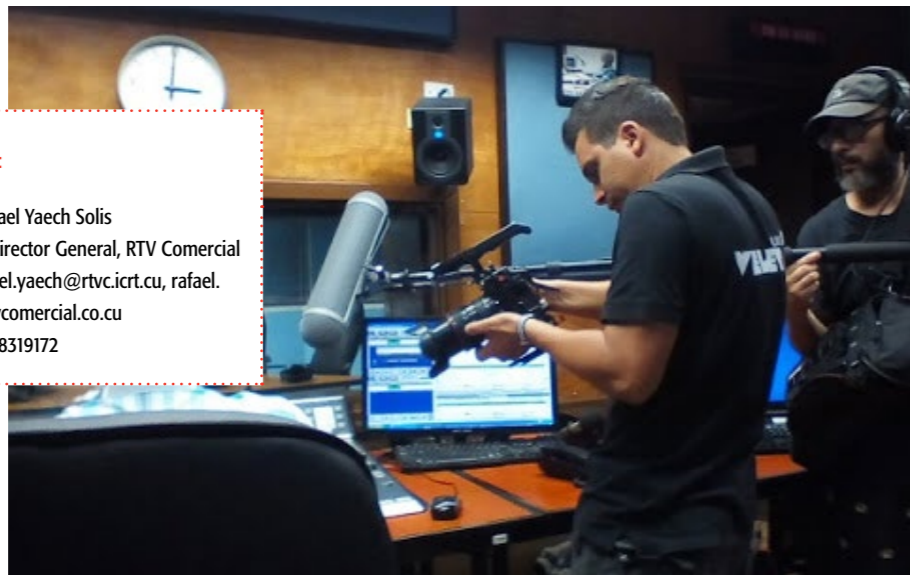
CUBAN PARTY PARTNERED WITH FOREIGN INVESTMENT BUSINESS

“RTV Comercial...an enterprise that produces and sells quality”

PAQUITA ARMAS FONSECA

(Journalist specializing in culture, regular collaborator with “La Jiribilla” digital journal, she a keen and well-known Cuban critic and intellectual)

RTV Comercial is the company marketing all Cuban radio and TV products and services. Its prime mission is to make successful international negotiations and attract investment projects in this sector. Therefore it has the authority to partner with foreign companies and a group of professionals from a variety of areas, namely artistic, technical, commercial, economic and legal areas, thereby ensuring the excellent quality of the enterprise’s products and services.



CONTACT:

Name: Rafael Yaech Solis
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 Tel.: (53) 78319172



The Empresa de Informática y Medios Audiovisuales of the Ministry of Education of the Republic of Cuba has been working for over 20 years to introduce technologies into the Cuban education system.

A group of experienced pedagogues collaborates with the artistic-technical team to deal with education via ICTs, mainly on issues related to multi-media and audiovisual educational productions, class digitalization projects and learning environments and networks.



► **BUSINESS OPPORTUNITIES**

ESTABLISHING A SYSTEM OF PAY-PER-VIEW CHANNELS FOR CUBAN TV (PAY TV)



DESCRIPTION:	Insertion of a service of high definition themed channel packages within the reach of the population, at a reasonable price.
INVESTMENT TYPE:	International Economic Partnership Agreement
CUBAN PARTY:	RTV Comercial
ESTIMATED INVESTMENT:	6 million USD
LOCATION:	Plaza de la Revolucion municipality, La Habana province
MARKET POTENTIAL:	El proyecto garantiza la inserción de un grupo de canales de televisión de interés para la población, que diversifica los espacios y contenidos audiovisuales.
ANTICIPATED RESULTS:	To offer the Cuban populace greater variety in audiovisual contents at affordable prices, to meet the great demand of television audiences eager for cultural and entertainment products
CONTACTS:	Name: Rafael Yaech Solis Position: Director General, RTV Comercial Email: rafael.yaech@rtvc.icrt.cu, rafael.yaech@rtvcomercial.co.cu / Tel.: (53) 78319172

INFORMATION
TECHNOLOGY AND
▶ EDUCATIONAL
AUDIOVISUAL
PRODUCTIONS

**DESCRIPTION:**

Produce and commercialize clean and innovative technological solutions geared to improve the quality of education, management of knowledge and the information technology and audiovisual infrastructure for the domestic education system and for export.

INVESTMENT TYPE:

International Economic Partnership Agreement

CUBAN PARTY:

Empresa de Informática y Medios Audiovisuales (Cinesoft).

ESTIMATED INVESTMENT:

6.6 million USD.

LOCATION:

Playa municipality, **La Habana** province

MARKET POTENTIAL:

The market for technology for the education sector will grow at an annual rate of 2.3% up to 2018 until it reaches 67,800,000 billion USD. Moreover, there is no doubt that the management of learning, especially in Latin America, is a growing market as well as in specific industries, especially due to the existing large digital breach and the shortage of specialists and professors associated with technologies and the production of a wide variety of types of educational resources. The foreseen estimated demand by the domestic market is valued at 1.3 million pesos and at 7.5 million USD for export in upcoming years.

ANTICIPATED RESULTS:

Access to highly specialized technological equipment and resources needed for these kinds of audiovisual products and resources for educational content. We also foresee attaining development and modernization of the process and being able to go from a homemade industry to a specialized industrial production. Reaching figures including a considerable number of contents per year to maintain, develop and broaden production services and to commercialize informatics and audiovisual applications. We anticipate annual revenues of over nine million dollars.

CONTACTS:

Dirección Comercial de Cinesoft
Email: dircomercial@cubaeduca.cu
Tel.: (53) 72037742



**Banking and
Financial Sector**

Banking and Financial Sector

Foreign investors interested in investing in the Banking and Financial Sector of Cuba may find information and the documents required to apply for establishing a bank or non-banking financial institution in the country, in Decree-Law No. 362 "About Institutions of the Banking and Financial System" of 14 September 2018.

Foreign financial institutions or foreign investors may participate not only by buying shares from Cuban financial institutions created under the Foreign Investment Act, but by the constitution of financial institutions with joint capital or totally foreign capital, or other type of international economic partnership agreement, according to the Foreign Investment Act.

In the case of foreign investment, the types of financial institutions that may be authorized via permit from the Banco Central de Cuba are: corporate banks, second floor corporate Banks, investment Banks and non-banking financial institutions, Banks that must essentially contribute capital, technology, new banking products and services, access to international financial markets, generate jobs and invest in human resources know-how.

Once these financial institutions have been established, they must be governed by Cuban law, fulfill the requirements of capital and liquidity, as well as the information requirements that the Banco Central de Cuba requires, participate in the inter-bank market and in the liquidation of payments systems. Likewise, they shall submit to the banking supervision established by the BCC Superintendent, as are all 100% Cuban financial institutions and banks.

In the aforementioned Decree-Law No. 362 of 2018, Chapter II also covers the operations and services that these types of financial institutions may carry out, and in Chapter IV the documents to be presented to the Banco Central de Cuba for evaluation of the application for permits.

The Official Gazette of the Republic of Cuba No. 56 of 6 August 2020 published Resolution No. 25 of 20 February 2020 that specifies the information that must be contained in the technical-economic pre or feasibility opportunity studies for foreign investment business projects.

By Agreement No.115 of the Banco Central de Cuba, of 29 May 1998, for the start of their operations Banks must have a minimum signed and paid capital equivalent to 5 million CUC, while the minimum capital payable for non-banking financial institutions is equivalent to 2 million CUC, at the official exchange rate at the time of effectuating payment.

SECTORIAL POLICY:

Foreign investment in the banking and financial sector must be directed towards access to foreign capital, external financing, banking and information analysis techniques which fulfill international efficiency and security standards; development of banking/financial relations, access to new products, services and international financial markets.

This sector seeks to bolster access to financing through a national financial market; as well as to promote the participation of foreign investment funds through their establishment as non-bank financial institutions.

Foreign investment in the banking and financial sector may be established via the purchase of shares from banking institutions created under the Cuban Foreign Investment Law, joint venture capital or wholly owned foreign capital institutions as Affiliates. Foreign investment is not authorized neither in capital of wholly owned Cuban banks or financial institutions, nor in establishing branches of foreign banks.





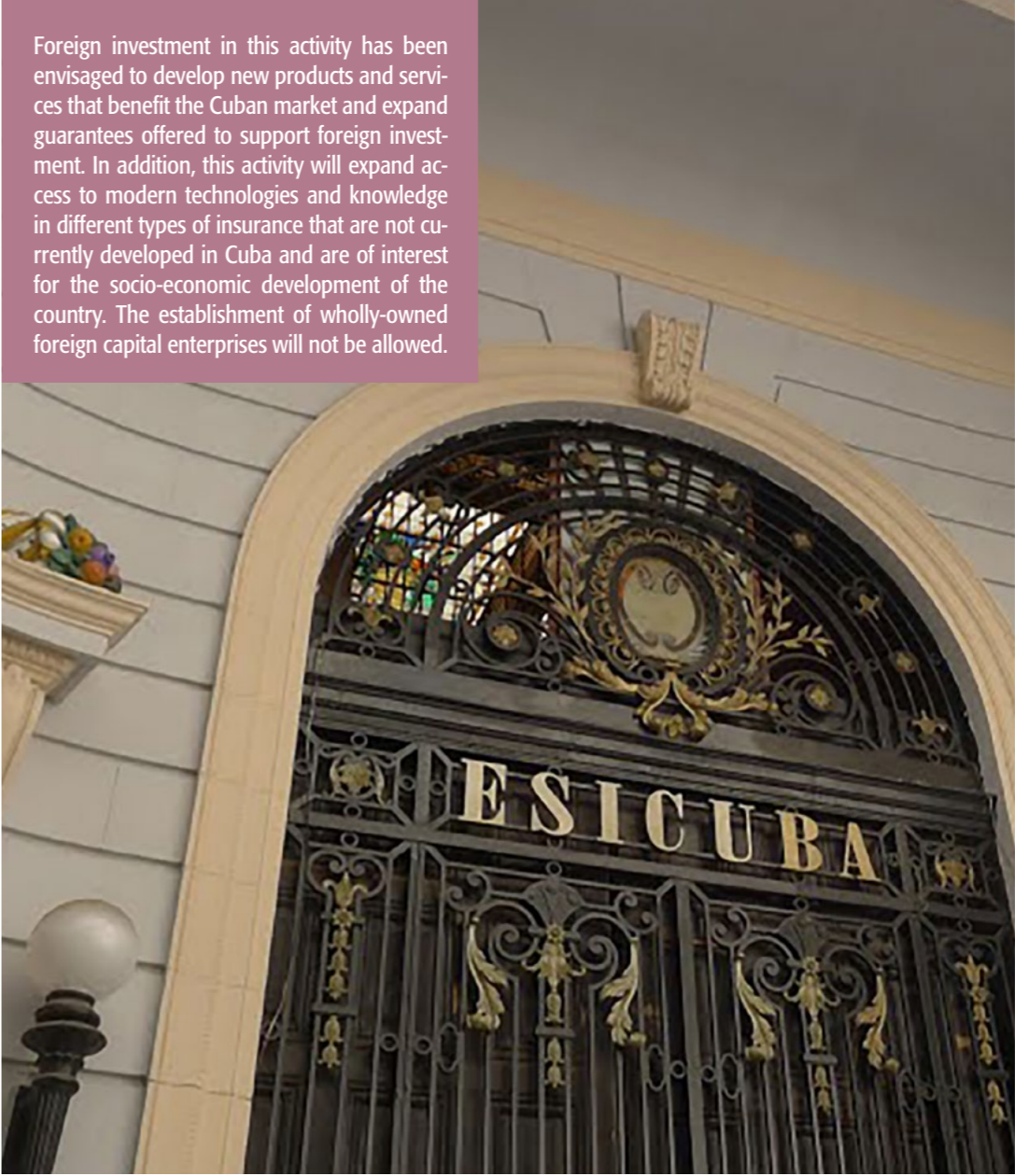
Insurance Activities

The Cuban insurance market commercializes over 100 types of insurance under damages or assets, civil, personal liability and others. At present, we have no insurance products covering life and security insurance. The market has two insu-

rance entities: Seguros Internacionales de Cuba S.A. (Esicuba), and Empresa de Seguros Nacionales (Esen). They are intermediaries of Asistur S.A. as insurance broker and 3,684 insurance agents. Adesa, Intermar, Sepsa, Cubacontrol and Registro Cubano de Buques are registered as providers of auxiliary insurance services.

SECTORIAL POLICY:

Foreign investment in this activity has been envisaged to develop new products and services that benefit the Cuban market and expand guarantees offered to support foreign investment. In addition, this activity will expand access to modern technologies and knowledge in different types of insurance that are not currently developed in Cuba and are of interest for the socio-economic development of the country. The establishment of wholly-owned foreign capital enterprises will not be allowed.





▶ TERRITORIAL
DISTRIBUTION
OF PROJECTS

We exclude:

- Oil blocks (114 projects)
- Mine deposits (5)
- Construction of a new 20 000 tcd sugar mill with refinery
- 100 MW bioelectrical plant and 500 Hld alcohol distillery – may be located in one of the western, central or eastern regions of Cuba. (1).

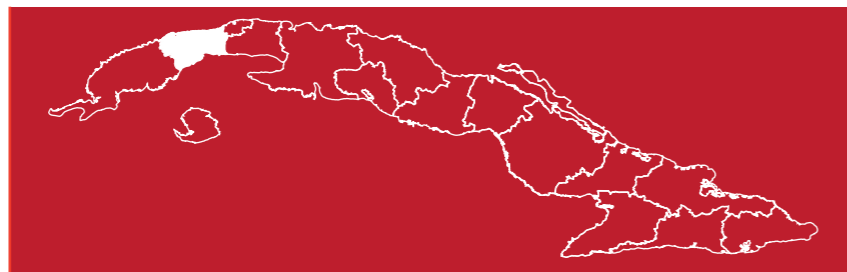


PINAR DEL RÍO
PROVINCE



1. Manufacture of light clay elements. Pinar de Río municipality
2. Photovoltaic solar frms
3. Creation of a network of tourist parks in natural areas
4. Administration and commercialization agreements for services with financing in accommodations facilities: Villa Brisas del Mar, Minas de Matahambre municipality
5. Administration and commercialization agreements for hotel facilities in accommodations facilities: Valle Ancón, Viñales municipality
6. Administration and commercialization agreements for hotel facilities in accommodations facilities: Los Jazmines, Viñales municipality
7. Administration and commercialization agreements for hotel facilities in accommodations facilities: La Ermita, Viñales municipality
8. Administration and commercialization agreements for hotel facilities in accommodations facilities: Rancho San Vicente-Villa Horizontes, Viñales municipality
9. Administration and commercialization agreements for hotel facilities in accommodations facilities: Complejo Pinar del Río Ciudad Hotel Vueltabajo-Hotel Pinar del Río, Pinar de Río municipality
10. Pork production for commercializing finished pork products Pinar de Río y Consolación municipality
11. Development and industrial production of beef, its industrial processing and commercializing special cuts. Empresa Pecuaria Genética Camilo Cienfuegos, Consolación del Sur municipality
12. Development and production of fresh vegetables in protected crops, for export and the domestic market in foreign currency. Municipio Los Palacios municipality
13. Production and commercialization of concentrated and simple juice, pulp and essential oil, on the basis of attaining agricultural development in the western area. Pinar de Río municipality
14. Production of wooden boards. Pinar de Río municipality
15. Development and diversification of the production of industrialized fruit, vegetable and garden vegetable products. Pinar de Río municipality
16. Assembly, maintenance, repairs and commercialization of agricultural and forestry equipment and implements for their parts, spare parts, to ensure increased production in the agro-food sector. Pinar de Río municipality

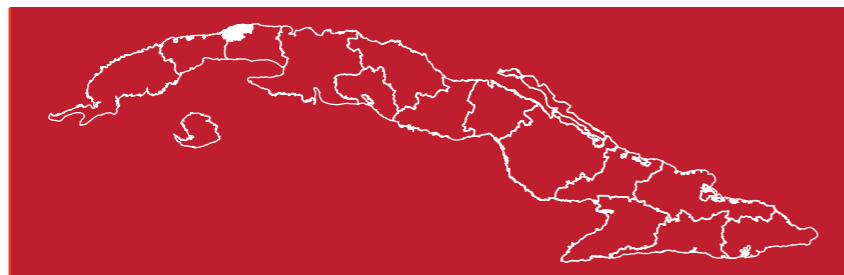


ARTEMISA
PROVINCE

17. Plant for the production of blood byproducts. ZED Mariel.
18. Production of generic medicines in solid oral forms. ZED Mariel.
19. Plant for the production of momoclonal antibodies and recombinant protein from mammal cells.. ZED Mariel.
20. Non-flexible plastic container campus. ZED Mariel.
21. Production of flexible and extruded polyethylene packaging. ZED Mariel.
22. Production of mini-dose personal toiletry ítems. ZED Mariel.
23. Production and commercialization of disposable materials for medical uses. ZED Mariel.
24. Production of mattresses and pillows. ZED Mariel.
25. Production of plastic garden furniture. ZED Mariel.
26. Production of commercial footwear ZED Mariel.
27. Comprehensive handling of solid waste ZED Mariel.
28. Production and commercialization of low cost and deluxe bathroom fixtures. ZED Mariel.
29. Centre for services, tansformation and distribution of metals. ZED Mariel.
30. Production of aluminum cans. ZED Mariel.
31. Production of electrical wiring. ZED Mariel.
32. Production of screws and other fasteners. ZED Mariel.
33. Production of elevators. ZED Mariel.
34. Production of glassware. ZED Mariel.
35. Production of flat glass and its manufactured products. ZED Mariel.
36. Production of different lines of glassware. ZED Mariel.
37. Production of LED lighting. ZED Mariel.
38. Production of ACs. ZED Mariel.
39. Production and commercialization of multi-use plastic disposable articles. ZED Mariel.



40. Production of high tech medical equipment. ZED Mariel.
41. Comprehensive logistics operator. ZED Mariel.
42. Biopharmaceutical logistics operator centre. ZED Mariel.
43. Regional logistics centre. ZED Mariel.
44. Refurbishing the Cabañas Bay shipyard. ZED Mariel.
45. Ship repairs and maintenance at the Astilleros Astimar, Mariel Bay. ZED Mariel.
46. Railroad development associated with passenger transportation to the Mariel Special Development Zone. ZED Mariel.
47. Building and managing standard ships. ZED Mariel.
48. Building and managing business centres. ZED Mariel.
49. Dairy and their byproducts production. ZED Mariel.
50. Production of pasta. ZED Mariel.
51. Production of sausages and cold-cuts. ZED Mariel.
52. Production of sauces and dressings. ZED Mariel.
53. Production of spices, condiments and additives for food processing. ZED Mariel.
54. Wheat flour production. ZED Mariel.
55. Production and commercialization of channeled pork. ZED Mariel.
56. Production and commercialization of channeled chicken. ZED Mariel.
57. Production of washroom fittings. ZED Mariel.
58. Production of ceramic floor and wall tiles ZED Mariel.
59. Manufacturing, commercializing and services associated with metallic and PVC framework. ZED Mariel.
60. Administration and commercialization of services with financing at campground facilities. Cocomar Tourist Accommodations. ZED Mariel.
61. Manufacturing cement fiber boards. Artemisa municipality
62. Building a limr plant in Artemisa. Artemisa municipality
63. Production of poultry and its channeled commercialization. San Cristóbal, Candelaria, Guanajay & Caimito municipalities
64. Development of the industrial production of beef, its industrial processing and the commercialization of special cuts. Empresa Pecuaria Genética Los Naranjos, Caimito municipality
65. Rice production.
66. Development and production of fresh vegetables in protected crops for export and the domestic market in foreign currency. Caimito municipality

HAVANA
PROVINCE

67. Development of the production of fruit, such as fresh fruit and industrial products at the Empresa Cítricos Ceiba. Caimito municipality
68. Wood charcoal processing, classification, packaging and export plants
69. Technological completion and operation for a beekeeping complex in the western part of Cuba to produce and commercialize honey and other honey-based products, in order to meet national market demand and promote exportation. Caimito municipality
70. Proposal to ensure plantation, agro-technology and harvesting energy forests and marabú. "30 de Noviembre" Bioelectrical Plant
71. Agroindustrial development for the production of avocados (persa americana) in Artemisa province, for the domestic and international markets
72. Agroindustrial handling of potatoes for the production of potato chips in different formats in Artemisa province. Alquizar municipality
73. Production and commercialization of tropical flowers (heliconia and anturia) for export. San Antonio de los Baños municipality
74. Development of the agroindustrial production of fruits and vegetables in Artemisa province. Güira de Melena municipality
75. Industrial processing of fish. San Cristóbal municipality
76. Raising mollusks and fish at sea. Bahía Honda municipality
77. Proposal to ensure plantation, agrotechnology and harvesting energy forests and marabú.
78. Dismantling out-of-service boats to meet the growing demand of Cuban steel plants for ferrous scrap. Bahía Honda municipality
79. Building a plant for the production of light and design cement. San Miguel del Padrón municipality
80. Maintenance, post-sale, leasing, repair services for tools and electric tools for construction. Plaza de la Revolución municipality
81. Building, maintenance, repair, setting up and leasing of scaffolding and formwork. Playa municipality
82. Call Center. Playa municipality
83. Information technologies services centre. Plaza de la Revolución municipality
84. Modernization of postal graphic art. Plaza de la Revolución municipality
85. Building the infrastructure for telecommunications networks. Plaza de la Revolución municipality



86. Operation and administration of Astilleros Casablanca. Regla municipality
87. Services for cruise and merchant ships. La Habana Vieja municipality
88. Development of the network of workshops for the repair and maintenance of commercial and tourism motor vehicles. Repairing and checking fuel injection systems in internal combustion engines. Cerro municipality
89. Workshop for the repair and maintenance of Hyundai commercial and tourism motor vehicles. Cerro municipality
90. UEB Astigal repairs for small boats. Regla municipality
91. UEB Chullima repairs for small boats. Plaza de la Revolución municipality
92. Enlarging and refurbishing the Marlin Boat Workshop. Playa municipality
93. 3PL logistics operator to manage the supply chains for refrigerated foods. Frigorífico Berroa, Habana del Este municipality
94. 3PL logistics operator to manage the supply chains for refrigerated foods. Frigorífico Habana del Este, Habana del Este municipality
95. 3PL logistics operator to manage the supply chains for refrigerated foods. Frigorífico de Playa, Playa municipality
96. Administration for the production of smooth or corrugated pipes. Boyeros municipality
97. Deep well drilling services. La Lisa municipality
98. Building and commercializing top quality hotel capacities in the La Habana resort area. Hotel Veneciana, Lot 1, Habana del Este municipality
99. Building and commercializing top quality hotel capacities in the La Habana resort area. Bungalow Lot 2, Habana del Este municipality
100. Building and commercializing top quality hotel capacities in the La Habana resort area. Tourist Villa Veneciana Lot 3, Habana del Este municipality
101. Building and commercializing top quality hotel capacities in the La Habana resort area. Project: Hotel Aeropuerto, Boyeros municipality
102. Building and commercializing top quality hotel capacities in the La Habana resort area. Hotel Lot 3.ra 80 & 84, Playa municipality
103. Building and commercializing top quality hotel capacities in the La Habana resort area. Hotel Neptuno Tritón. Playa municipality
104. Building and commercializing top quality hotel capacities in the La Habana resort area. Hotel Lot Línea esq. a Paseo, Plaza de la Revolución municipality
105. Building and commercializing top quality hotel capacities in the La Habana resort area. Hotel Lot 23 & B, Plaza de la Revolución municipality
106. Building and commercializing top quality hotel capacities in the La Habana resort area. Hotel Ave. Malecón & calle 7.ma, Plaza de la Revolución municipality
107. Administration and commercialization of hotel facilities. Villa Tropicoco, Habana del Este municipality
108. Administration and commercialization of hotel facilities. Hotel Deauville, Centro Habana municipality



109. Administration and commercialization of hotel facilities. Hotel New York, Centro Habana municipality
110. Administration and commercialization of hotel facilities. Hotel to be built Isla de Cuba, La Habana Vieja municipality
111. Administration and commercialization of hotel facilities. Hotel to be built. Nueva Isla, La Habana Vieja municipality
112. Administration and commercialization of hotel facilities. Hotel Comodoro, Playa municipality
113. Administration and commercialization of hotel facilities. Hotel Bella Habana, Plaza de la Revolución municipality
114. Administration and commercialization of hotel facilities. Hotel Colina, Plaza de la Revolución municipality
115. Administration and commercialization of hotel facilities. Lincoln-Lido-Caribbean hotel complex, Centro Habana municipality
116. Administration and commercialization of hotel facilities. Boca Ciega-Alturas de Boca Ciega hotel complex, Habana del Este municipality
117. Administration and commercialization of hotel facilities. Brisas-Veneciana hotel complex, Habana del Este municipality
118. Administration and commercialization of hotel facilities. Terrazas-Atlántico hotel complex, Habana del Este municipality
119. Administration and commercialization of hotel facilities. Portales de Paseo-Vedado Azul-Paseo Habana hotel complex, Plaza de la Revolución municipality
120. Administration and commercialization of hotel facilities. Panamericano Aparthotel Brisas-Aparthotel Costazul-Panamericano complex, Habana del Este municipality
121. Administration and commercialization of new hotel facilities being built. Lot 2, (L) e/ 70 y 76 y e/ 3.ra y 5.ta. Hotel 2, Playa municipality
122. Administration and commercialization of new hotel facilities being built. Lot 4, (L) Calzada e/ 2 y Paseo, Plaza de la Revolución municipality
123. Administration and commercialization of new hotel facilities being built. Lot 5, (L) 1.ra y B, Plaza de la Revolución municipality
124. Administration and commercialization of new hotel facilities being built. Lot 7, (L) Malecón e/ Calzada y J, Plaza de la Revolución municipality
125. Administration and commercialization of new hotel facilities being built. Lot 11, (L) Calle K y 23, Plaza de la Revolución municipality
126. Administration and commercialization of new hotel facilities being built. Lot 10, (L) Calle K esq. a Rampa, Plaza de la Revolución municipality
127. Administration and commercialization of new hotel facilities being built. Lot 8, Malecón e/ 25 y Humbolt (HOLA Ola), Plaza de la Revolución municipality
128. Administration and commercialization of new hotel facilities being built. Lot 9, Calle 23 e/ N y O, La Rampa, Plaza de la Revolución municipality
129. Administration and commercialization of hotel facilities. Corona Tabacalera.
130. Administration and commercialization of hotel facilities. Hotel Aguiar 307, La Habana Vieja municipality

131. Administration and commercialization of hotel facilities. Hotel Aguiar 360, La Habana Vieja municipality
132. Administration and commercialization of hotel facilities. Hotel Monte Barreto, Playa municipality
133. Administration and commercialization of hotel facilities. Hotel Metrópolis, Playa municipality
134. Administration and commercialization of hotel facilities. Hotel Real Hacienda (Obispo y Cuba), La Habana Vieja municipality
135. Administration and commercialization of hotel facilities. Hotel Aduana, La Habana Vieja municipality
136. La Habana Water Park. Playa municipality
137. Interaction with dolphins complex. Playa municipality
138. Centre for Aesthetic and Well-being Medicine. Playa municipality
139. Production of fatty liver, paté, duck breast (magret) and legs. La Lisa municipality
140. Production and commercialization of channeled rabbit. La Lisa municipality
141. Production of tropical flowers and plants for the domestic market in foreign currency and for export. Boyeros municipality
142. Development of beef production, its industrial processing and the commercialization of special cuts, sausages and other beef byproducts. Guanabacoa municipality
143. Development of the production of confectionary products: candies, sherbets, biscuits (fine, sweet, soda and cream) and cereals. Cerro municipality
144. Creation of a business for international and national commercialization of Cuban rum. Playa municipality
145. Wheat flour production. UEB Cereales Turcios Limas, Regla municipality
146. Wheat flour production.. UEB Cereales José Antonio Echevarría (JAE), Regla municipality
147. Creation of a facility for the production of cytostatic products. La Lisa municipality
148. Plant for the production and commercialization of products from human placenta. La Lisa municipality
149. Production and commercialization of semi-solid medicines. La Lisa municipality
150. Production, commercialization and sustainability of electronic fund transfer systems. Playa municipality
151. Design, production and commercialization of disposable plastic materials used by medicine and in hospitals. Playa municipality
152. Design, production and sustainability of weighing equipment and systems. Playa municipality
153. Production of educational toys and other commonly used materials. Marianao municipality
154. Production and commercialization of sports confections and implements. Cerro municipality
155. Production and commercialization of polyethylene flexible and extruded packaging. Boyeros municipality
156. Production and commercialization of footwear. Habana del Este municipality





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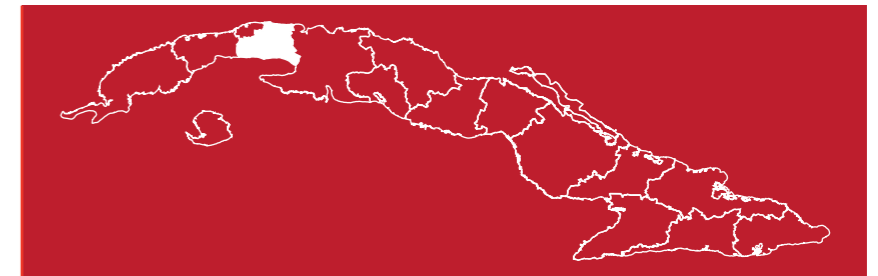


157. "Arte en Casa" [Art in the Home] project
158. Plant for the production and commercialization of multi-layer sacks, bags and cases. Boyeros municipality
159. Production and commercialization of rigid tubes for cigars. Regla municipality
160. Design, production and commercialization of polyurethane sandwich panels. Boyeros municipality
161. Manufacturing parts, spare parts and components for elevators, assembly and post-sale services. Arroyo Naranjo municipality
162. Production and commercialization of tin cans. Guanabacoa municipality
163. Integrated solid urban waste management system. (SIGRSU).
164. Smelting and refining lead. San Miguel del Padrón municipality
165. Repairs and re-engineering the medical devices factory Ortop, of the Frank País Hospital. La Lisa municipality
166. Medical technology centre for specialized development.
167. Science and technology park. La Lisa municipality
168. Development of the infrastructure for nanomanufacturing. La Lisa municipality
169. Publishing and co-publishing educational literature. (Empresa Editorial Pueblo y Educación). Playa municipality
170. Estudios Habana (Areito). Centro Habana municipality
171. Manufacturing and assembling audio and technological light systems, screens and flash cases. Playa municipality
172. Manufacturing and setting up small. Medium and large tents (tense forms). Playa municipality
173. Seeking financing for the production of paint and other materials for artists. Centro Habana municipality
174. System of pay per view channels for national TV. (pay per view). Plaza de la Revolución municipality
175. Information technology and audiovisual materials for education. Playa municipality

176. Administration and commercialization of hotel facilities. Cayo Largo del Sur. Pelicano.
177. Administration and commercialization of hotel facilities. Colony.



MAYABEQUE
PROVINCE



178. At risk geological investigation (prospecting-exploration) for wolfram Lela prospects in the Isla de la Juventud.
179. At risk geological investigation (prospecting-exploartion) on a number of mica and kaolin deposits in the Isla de la Juventud.

180. Photovoltaic solar farms (1 project).
181. Modernization of the national workshop to repair pumping equipment for the water resources system. San José municipality
182. Service administration and commercialization agreements with financing at accommodations facilities: Camping internacional parque de aventuras El Narigón, Santa Cruz del Norte municipality
183. Service administration and commercialization agreements with financing at accommodations facilities: Camping Escaleras de Jaruco, Jaruco municipality
184. Development of industrial beef production, its industrial processing and commercializing special cuts. Empresa Pecuaria Valle del Perú, San José municipality
185. Production of buffalo for the industrialization and commercialization of buffalo milk and its byproducts. Empresa Pecuaria Genética Bufalina El Cangre, El Cangre municipality
186. Production of spirulina. Jaruco municipality
187. Production of aloe vera gel in Mayabeque province. Güines municipality
188. Replacing the multiprocessing line of the UEB Industria de la Empresa Agropecuaria 19 de Abril. Quivicán municipality
189. Production of pasta (short, long and noodles) UEB Pastas Alimenticias Vita Nuova, San José municipality
190. Modernization of existing sugar mills. San Nicolás de Bari municipality
191. Production and commercialization of retread tires and making use of old tires. San José municipality
192. Production and commercialization of thermal copper electrical wires. San José de Las Lajas municipality





▶ MATANZAS PROVINCE



193. Construction, repair and starting up services for tourism and infrastructure in Varadero. Matanzas, Varadero & Cárdenas municipalities
194. Photovoltaic solar farms.
195. Providing services of assembly, maintenance, repairs and commercialization of heavy and semi-heavy multi-use trucks for transporting cargo in the agricultural, tobacco and forestry sectors. Jovellanos municipality
196. Canímar nature and adventure park. Cárdenas municipality
197. Varadero water park. Cárdenas municipality
198. Creation of a network of tourism parks in natural areas.
199. Administration and commercialization of hotel facilities Dos Mares-Pullman-Ledo hotel complex, Cárdenas municipality
200. Administration and commercialization of hotel facilities Acuazul- Varazul complex, Cárdenas municipality
201. Administration and commercialization of hotel facilities. Delfines-Club Tropical hotel complex, Cárdenas municipality
202. Administration and commercialization of new hotel facilities being built Hotel Chapelin Los Tainos (Las Olas), Cárdenas municipality
203. Administration and commercialization of new hotel facilities being built. Hotel Golf, Cárdenas municipality
204. Administration and commercialization of hotel facilities. Hotel to be built at Lot 66, Cárdenas municipality
205. Administration and commercialization of hotel facilities. Hotel to be built 3.ra Avenida, Cárdenas municipality
206. Administration and commercialization of hotel facilities. Hotel to be built, Hotel Donaire, Cárdenas municipality
207. Administration and commercialization of hotel facilities. Kawama, Cárdenas municipality
208. Service administration with financing agreements for enlarging the Varadero Marina Docks. Varadero resort, Cárdenas municipality
209. Administration and commercializing services with financing agreements at accommodations facilities. Faro de Maya, ecological tourism facility, Cárdenas municipality
210. Quality of life service. San Miguel de los Baños resort/spa, Martí municipality
211. Quality of life service. Menéndez resort/spa, Jovellanos municipality



▶ CIENFUEGOS PROVINCE



212. Pork production for finished pork products. Jovellanos & Cárdenas municipalities
213. Development of industrial beef production and commercializing special cuts. Empresa Pecuaria Genética Matanzas, Limonar municipality
214. Production of grain. Jovellanos municipality
215. Reanimation, development and increasing the production and commercialization of fresh and industrialized citrus of the Empresa Agroindustrial Victoria de Girón & Cítricos Arimao. Jagüey Grande municipality
216. Development and production of fresh vegetables in protected crops for export and the domestic market in foreign currency. Jagüey Grande municipality
217. Proposal to ensure plantation, agrotechnology and harvesting energy forests and marabú.
218. Production of Paraíso-brand yoghurt. Matanzas municipality
219. Development and diversification of dairy products and their byproducts. Matanzas municipality
220. Administration of bioelectrical sugar mill. Central Mario Muñoz, Los Arabos municipality
221. Production of ammoniac, urea and other products, Matanzas municipality
222. Joint venture for the production and commercialization of mixed fertilizers (Bulk Blending). Matanzas municipality
223. Production and commercialization of petroleum liquid gas 10 kg cylinders. Matanzas municipality
224. Turf services for sports and recreational facilities in Cuba and the Caribbean. Perico municipality

225. Bioelectrical plant adjoining sugar mill, with 30 MW to 50 MW capacity in Ciudad Caracas. Las Lajas municipality
226. Photovoltaic solar farms (1 project).
227. Repairs to small boats. UEB Astisur, Cienfuegos municipality
228. Repair and maintenance services for ships. Cienfuegos municipality
229. Building and commercializing top quality hotels and villas in the Cienfuegos resort area. Hotel Puesta de Sol, Cienfuegos municipality
230. Building and commercializing top quality hotels and villas in the Cienfuegos resort area. Hotel Marilope, Cienfuegos municipality

VILLA CLARA
PROVINCE

- 243. Reopening the Serrano green marble quarry in Villa Clara. Placetas municipality
- 244. Photovoltaic solar farms (1project).
- 245. Pork production for commercializing finished pork products. Santa Clara & Corralillo municipality
- 246. Production of poultry and its channeled commercialization. Santo Domingo, Placetas & Jovellanos municipalities
- 247. Development of industrial beef production, its industrial processing and commercializing special cuts. Empresa Pecuaria Macún, Sagua la Grande municipality
- 248. Proposal to ensure plantation, agrotechnology and harvesting energy forests and marabú.
- 249. Production of Paraíso-brand yoghurt. Santa Clara municipality
- 250. Enlarging and modernizing a rum factory. Rum factory adjoining the Heriberto Duquesne sugar mill, Remedios municipality

- 231. Administration and commercialization with financing services agreements at accommodations facilities. Guajimico international diving centre, Cienfuegos & Trinidad municipalities
- 232. Production of poultry and its channeled commercialization. Cienfuegos, Cumanayagua & Abréus municipalities
- 233. Development of industrial beef production, its industrial processing and commercializing special cuts. Empresa Integral Cienfuegos, Aguada de Pasajeros municipality
- 234. Production and commercialization of balanced feed from national corn production. Cienfuegos municipality
- 235. Development and production of fresh vegetables in protected crops for export and the domestic market in foreign currency. Cumanayagua municipality
- 236. Processing, classification, packaging and exporting wood charcoal.
- 237. Production of glucose. Cienfuegos municipality
- 238. Raising fish at sea. Cienfuegos municipality
- 239. Production of wheat flour. UEB Cereales Cienfuegos, Cienfuegos municipality
- 240. Production of pasta (short, long and noodles) Unidad de Producción Martha Abreu Cruces.
- 241. Enlarging and modernizing a rum factory. Rum factory adjoining the Antonio Sánchez sugar mill, Aguada de Pasajeros municipality
- 242. Administration and commercialization of hotel facilities. Rancho Luna-Faro Luna hotel complex, Cienfuegos municipality

SANCTI SPÍRITUS
PROVINCE

- 260. Creation of a joint venture for the production and commercialization of Siguaney cement. Taguasco municipality
- 261. Repairing and modernizing the cellular cement plant of Sancti Spiritus. Sancti Spiritus municipality
- 262. Creation of a network of tourist parks in natural areas.
- 263. Pork production for commercializing finished pork products. La Sierpe municipality
- 264. Production of poultry and its channeled commercialization. Jatibonico, La Sierpe, Trinidad & Yaguajay municipalities
- 265. Development of industrial beef production, its industrial processing and commercializing special cuts. Empresas Pecuaria Managuaco y Agropecuaria Obdulio Morales, Sancti Spiritus municipality
- 266. Production of buffalo for the industrialization and commercialization of buffalo milk and its byproducts. Empresa Agropecuaria Obdulio Morales, Sancti Spiritus municipality
- 267. Increasing the productive potential of shrimp farming. Sancti Spiritus municipality
- 268. Increasing the productive potential of aquaculture and its industrialization. Sancti Spiritus municipality
- 269. Development and diversification of dairy products and their byproducts. Sancti Spiritus municipality
- 270. Production of water and soft drinks. Yaguajay municipality

- 251. Modernizing a boiler factory. Sagua la Grande municipality
- 252. Diversified production of organic products. Santo Domingo municipality
- 253. Diversified production of organic products. Santa Clara municipality
- 254. Administration and commercialization of hotel facilities. Hotel Hanabanilla, Manicaragua municipality
- 255. Building and commercializing hotel capacities. Hotel Elguea, Corralillo municipality
- 256. Administration and commercialization of hotel facilities. Santa Clara Libre-Floreale hotel complex, Santa Clara municipality
- 257. Administration and commercialization of new hotel facilities being built. La Salina Suroeste, Caibarién municipality
- 258. Bioelectrical plant with 30 MW to 50 MW capacity in Quintín Banderas. Corralillo municipality
- 259. Bioelectrical plant with 30 MW to 50 MW capacity in George Washington. Santo Domingo municipality





▶ CIEGO DE ÁVILA
PROVINCE



- 271. Production of vinegar. Fábrica de Vinagre La Espirituana, Sancti Spiritus municipality
- 272. Enlarging and modernizing a rum factory. Rum factory adjoining the Antonio Sánchez sugar mill, Taguasco municipality
- 273. Manufacturing electrical panels. Sancti Spiritus municipality
- 274. Administration and commercialization of hotel facilities. Villa Horizontes María Dolores, Trinidad municipality
- 275. Administration and commercialization of hotel facilities. San José del Lago hotel complex, Mayajigua municipality
- 276. Administration and commercialization of hotel facilities. Rijo-Don Florencio-Plaza hotel complex, Sancti Spiritus municipality

- 277. Photovoltaic solar farms (1 project)
- 278. Modernizing the production of parts, spare parts, manipulated accessories and other plastic elements and for the production of polypropylene pipes. Ciego de Ávila municipality
- 279. Creating a network of tourist parks in natural areas.
- 280. Pork production for the commercialization of finished pork products. Ciego de Ávila municipality
- 281. Production of poultry and its channeled commercialization. Ciego de Ávila & Baraguá municipalities
- 282. Development of industrial beef production, its industrial processing and commercializing special cuts. Empresa Agropecuaria Ruta Invasora, Majagua municipality
- 283. Development and production of fresh vegetables in protected crops for export and the domestic market in foreign currency. Ceballos municipality
- 284. Production, processing and commercializing 2,000 ha of MD2 pineapple. Venezuela municipality
- 285. Proposal for ensuring plantation, agrotechnology and harvesting energy forests and marabú. Ciro Redondo Bioelectrical Plant.
- 286. Punta Alegre Mineral Salt. Chambas municipality
- 287. Administration and commercialization of hotel facilities. Hotel Cayo Coco, Morón municipality
- 288. Administration and commercialization of new hotel facilities being built.. Uva Caleta 1, Morón municipality
- 289. Administration and commercialization of new hotel facilities being built. Roca Norte 1, Morón municipality



▶ CAMAGÜEY
PROVINCE



- 290. Administration and commercialization of new hotel facilities being built. Hotel Roca Norte 2, Morón municipality
- 291. Administration and commercialization of new hotel facilities being built. Roca Centro, Morón municipality
- 292. Administration and commercialization of new hotel facilities being built. Roca Este 1, Morón municipality

- 293. Bioelectrical plant adjoining a sugar mill. Esmeralda municipality
- 294. Bioelectrical plant adjoining a sugar mill. Vertientes municipality
- 295. Photovoltaic solar farms (1 project).
- 296. Pork production for commercializing finished pork products. Minas y Vertientes municipality
- 297. Production of poultry and its channeled commercialization. Camagüey, Florida, Guáimaro & Minas municipalities
- 298. Development of industrial beef production, its industrial processing and commercializing special cuts. Empresa Ganadera Camagüey, Camagüey municipality
- 299. Production of buffalo for the industrialization and commercialization of buffalo milk and its byproducts. Empresa Ganadera Camagüey, Camagüey municipality
- 300. Development and production of fresh vegetables in protected crops for export and the domestic market in foreign currency. Sierra de Cubitas municipality
- 301. Processing, classification, packaging plants for exporting wood charcoal.
- 302. Increasing productive potential of shrimp farming. Santa Cruz del Sur municipality
- 303. Production of vinegar. Fábrica de Vinagre y Vino Seco Elite, Camagüey municipality
- 304. Production of pasta (long, short and noodles). Unidad de Producción Pastas Largas Noel Fernández, Minas municipality Production and commercialization of vaccine for classic pork disease (PORVAC). Camagüey municipality
- 305. Production and commercializing of the classical swine fever vaccine (PORVAC)
- 306. Production of FOS. Florida municipality
- 307. San Felipe project. Camagüey municipality
- 308. Building, repairs and start-up services for tourism and infrastructure in Camagüey.





LAS TUNAS PROVINCE



- 309. Administration and commercialization of services with financing at campground facilities. Parque de naturaleza y aventuras Cangilones del Río Máximo nature and adventure park, Sierra de Cubitas municipality
- 310. Building and commercializing top quality hotel and villa capacities in the Santa Lucía, Camagüey resort area. Hotel Lot 19, Nuevitas municipality
- 311. Building and commercializing top quality hotel and villa capacities in the Santa Lucía, Camagüey resort area. Hotel Lot 106, municipio Nuevitas municipality
- 312. Building and commercializing top quality hotel and villa capacities in the Santa Lucía, Camagüey resort area. Hotel Lot 83, municipio Nuevitas municipality
- 313. Administration and commercialization of new hotel facilities being built. Quebrada 21 B, Nuevitas municipality
- 314. Administration and commercialization of new hotel facilities being built. Lot 24, Nuevitas municipality
- 315. Administration and commercialization of new hotel facilities being built. Lot 25, Nuevitas municipality
- 316. Administration and commercialization of new hotel facilities being built. Lot 25-A, Nuevitas municipality
- 317. Administration and commercialization of new hotel facilities being built. Lot 25 -28, Nuevitas municipality
- 318. Administration and commercialization of hotel facilities. Plaza-Isla de Cuba-Puerto Príncipe hotel complex, Camagüey municipality

- 319. Bioelectrical plant adjoining sugar mill. Puerto Padre municipality
- 320. Bioelectrical plant adjoining sugar mill. Colombia municipality
- 321. Photovoltaic solar farms (1 project).
- 322. Building and commercializing top quality villas in the Covarrubias resort area, Las Tunas (environmental feature). Lot 2-A, Puerto Padre municipality
- 323. Building and commercializing top quality villas in the Covarrubias resort area, Las Tunas (environmental feature). Lot 3-A, Puerto Padre municipality
- 324. Building and commercializing top quality villas in the Covarrubias resort area, Las Tunas (environmental feature). Lot 2-B, municipio Puerto Padre.
- 325. Building and commercializing top quality villas in the Covarrubias resort area, Las Tunas (environmental feature). Lot 3-B, municipio Puerto Padre.
- 326. Building and commercializing top quality villas in the Covarrubias resort area, Las Tunas (environmental feature). Lot 4-B, municipio Puerto Padre.



SANTIAGO DE CUBA PROVINCE



- 327. Pork production for commercializing finished pork products. Puerto Padre municipality
- 328. Production of poultry and its channeled commercialization. Las Tunas & Majibacoa municipalities
- 329. Increased productive potential for shrimp farming. Colombia municipality
- 330. Enlarging and modernizing a rum factory. Rum factory adjoining the Amancio Rodríguez sugar mill, Amancio Rodríguez municipality
- 331. Development of beef production, its industrial processing and commercialization of special cuts, sausages and other beef byproducts. Las Tunas municipality
- 332. Administration and commercialization of hotel facilities.. Brisas Cobarrubias, Puerto Padre municipality

- 333. Bioelectrical plant adjoining a sugar mill.
- 334. Photovoltaic solar farms (1 project).
- 335. Pork production for commercializing finished pork products. Santiago de Cuba & Mella municipalities
- 336. Production of poultry and its channeled commercialization. Santiago de Cuba, Contramaestre, Segundo Frente, San Luis & Songo la Maya municipalities
- 337. Production and commercialization of Cuba feed from the national production of protein plants. Santiago de Cuba municipality
- 338. Processing, classification, packaging plants and exporting wood charcoal.
- 339. Development of the production of confectionaries: candies, sherbets, biscuits (fine, sweet, soda and cream) and cereals. Santiago de Cuba municipality
- 340. Production of wheat flour UEB Cereales Santiago de Cuba, Santiago de Cuba municipality
- 341. Production of pasta (short, long and noodles). Unidad de Producción Pastas y Caramelos, Santiago de Cuba municipality
- 342. Development of beef production, its industrial processing and commercializing special cuts, sausages and other beef byproducts. Palma Soriano municipality
- 343. Administration and commercialization of services with financing for campground facilities. Camping internacional Playa Larga, Santiago de Cuba municipality
- 344. Administration and commercialization of hotel facilities.. Horizonte Segundo Frente, Segundo Frente municipality
- 345. Administration and commercialization of hotel facilities. Brisas Sierra Mar-Los Galeones, Guamá municipality
- 346. Administration and commercialization of hotel facilities. Club Amigo Carisol Los Corales, El Caney municipality



GRANMA
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- 347. Administration and commercialization of hotel facilities. Versalles-Punta Gorda, Santiago de Cuba municipality
- 348. Administration and commercialization of hotel facilities. Las Américas-Villa San Juan-Hotel Deportivo hotel complex, Santiago de Cuba municipality

- 349. Small boat repairs. UEB Astigolf, Manzanillo municipality
- 350. Creation of a network of tourism parks in natural areas.
- 351. Pork production for commercializing finished pork products. Manzanillo & Bayamo municipalities
- 352. Production of poultry and its channeled commercialization. Bayamo, Jiguani & Manzanillo municipalities
- 353. Development of industrial beef production, its industrial processing and commercialization of special cuts. Empresa de Genética y Cría Manuel Fajardo, Jiguani municipality
- 354. Administration of a bioelectrical plant. Central Grito de Yara, Río Cauto municipality
- 355. Productive administration agreement for the manufacture of pencils. Manzanillo municipality
- 356. Production and commercialization of batteries. Manzanillo municipality
- 357. Administration and commercialization of new hotel facilities. Club Amigo Marea del Portillo, Pilón municipality
- 358. Administration and commercialization of new hotel facilities Balcón de la Sierra-Villa Santo Domingo hotel complex, Bartolomé Masó municipality



- 359. Photovoltaic solar farms (1 project).
- 360. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Hotel Lot 8, Banes municipality

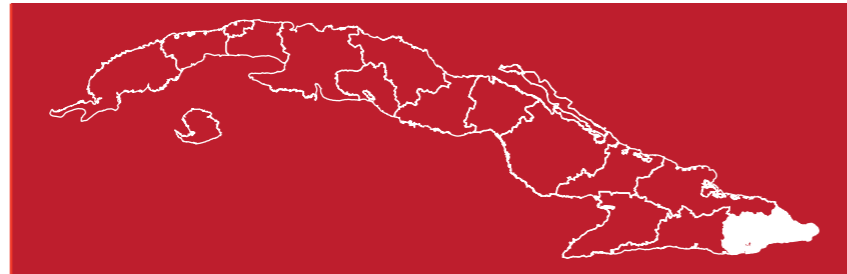
HOLGUÍN
PROVINCE

- 361. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Villa/Bungalows. Hotel Lot 8-A, Banes municipality
- 362. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Villa/Bungalows. Hotel Lot 5, Sector Puerto Rico, Banes municipality
- 363. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Hotel Lot 6, Sector Puerto Rico, Banes municipality
- 364. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Hotel Semicompacto 1, Sector Puerto Rico, Banes municipality
- 365. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Hotel Semicompacto 2, Sector Puerto Rico, Banes municipality
- 366. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Hotel Lot 16, Sector Puerto Rico, Banes municipality
- 367. Building and commercializing top quality hotel and villa capacities in the Guardalavaca resort area. Hotel Lot 17, Sector Puerto Rico, Banes municipality
- 368. Bahía de Naranjo adventure and nature park (environmental feature). Mayarí municipality
- 369. Pork production for commercializing finished pork products. Cueto municipality
- 370. Production of poultry and its channeled commercialization. Holguín, Cacocum & Calixto García municipalitoes
- 371. Development and production of fresh vegetables in protected crops for export and the domestic market in foreign currency. Holguín municipality
- 372. Production of floor-cleaning cloths. Gibara municipality
- 373. Production and commercialization of retread tires in the eastern region of Cuba. Holguín municipality
- 374. Colas Negras Nuevas project, Moa. Moa municipality
- 375. Lateritas Nicaro project. Mayarí municipality
- 376. Colas Rojas project, Moa municipality
- 377. Handling and transporting Pinares de Mayarí minerals to Moa, Holguín. Mayarí municipality
- 378. Administration and commercialization of new hotel facilities. Glub Amigo Atlántico Guardalavaca. Banes municipality
- 379. Administration and commercialization of new hotel facilities being built. Baracutey (61-A), Antilla municipality
- 380. Administration and commercialization of new hotel facilities being built. Hotel Baracutey 4, Antilla municipality
- 381. Administration and commercialization of new hotel facilities being built. Hotel Baracutey 5, Antilla municipality
- 382. Administration and commercialization of new hotel facilities being built. Hotel Caimán 1, Antilla municipality
- 383. Administration and commercialization of new hotel facilities being built. Hotel Caimán 2, Antilla municipality
- 384. Administration and commercialization of new hotel facilities being built. Punta Margarito 3, Antilla municipality





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- 385. Administration and commercialization of new hotel facilities being built. Ampliación Yuraguana. Rafael Freyre municipality.
- 386. Administration and commercialization of new hotel facilities being built. Baracutey (61). Antilla municipality.

- 387. Photovoltaic solar farms (1 project)
- 388. Producción de cerdos para la comercialización en canal y productos terminados del cerdo. Municipios Guantánamo y Baracoa.
- 389. Poultry production and channeled sales. Guantánamo & Imías municipalities.
- 390. Production and sales of Fine Aroma Cacao. Baracoa municipality.





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