



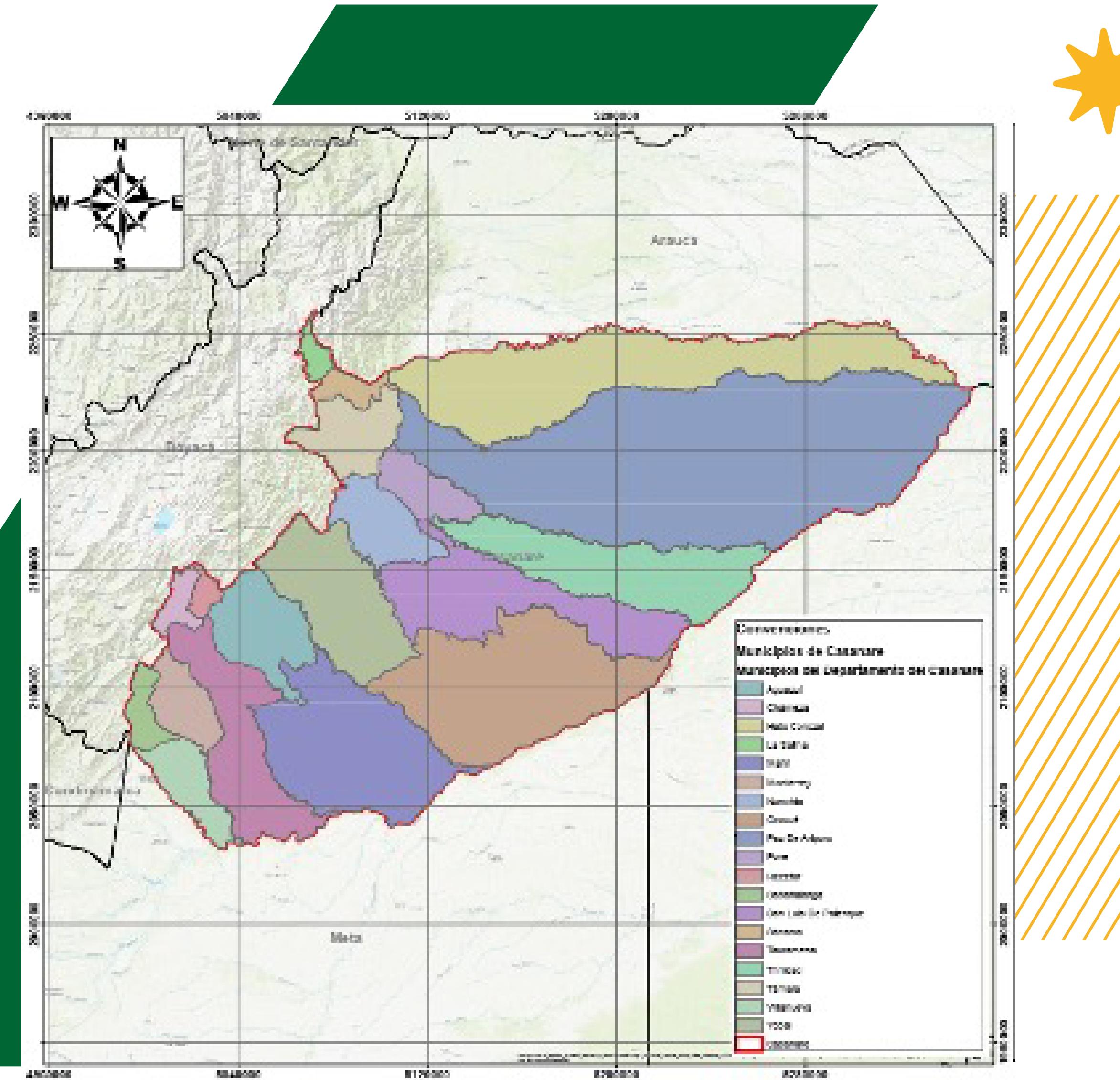
CASANARE: SUSTAINABLE AGRO-INDUSTRIAL POWER

CESAR AUGUSTO ORTIZ ZORRO
GOBERNADOR DE CASANARE



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CASANARE





★ GENERALITIES OF THE TERRITORY CASANARE

Area: 44,490 km²

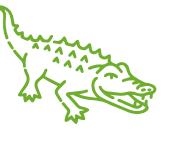
- 19 Municipalities
- 481,938 Inhabitants
- 346,995 Urban population (72%)
- 134,942 Rural population (28%)



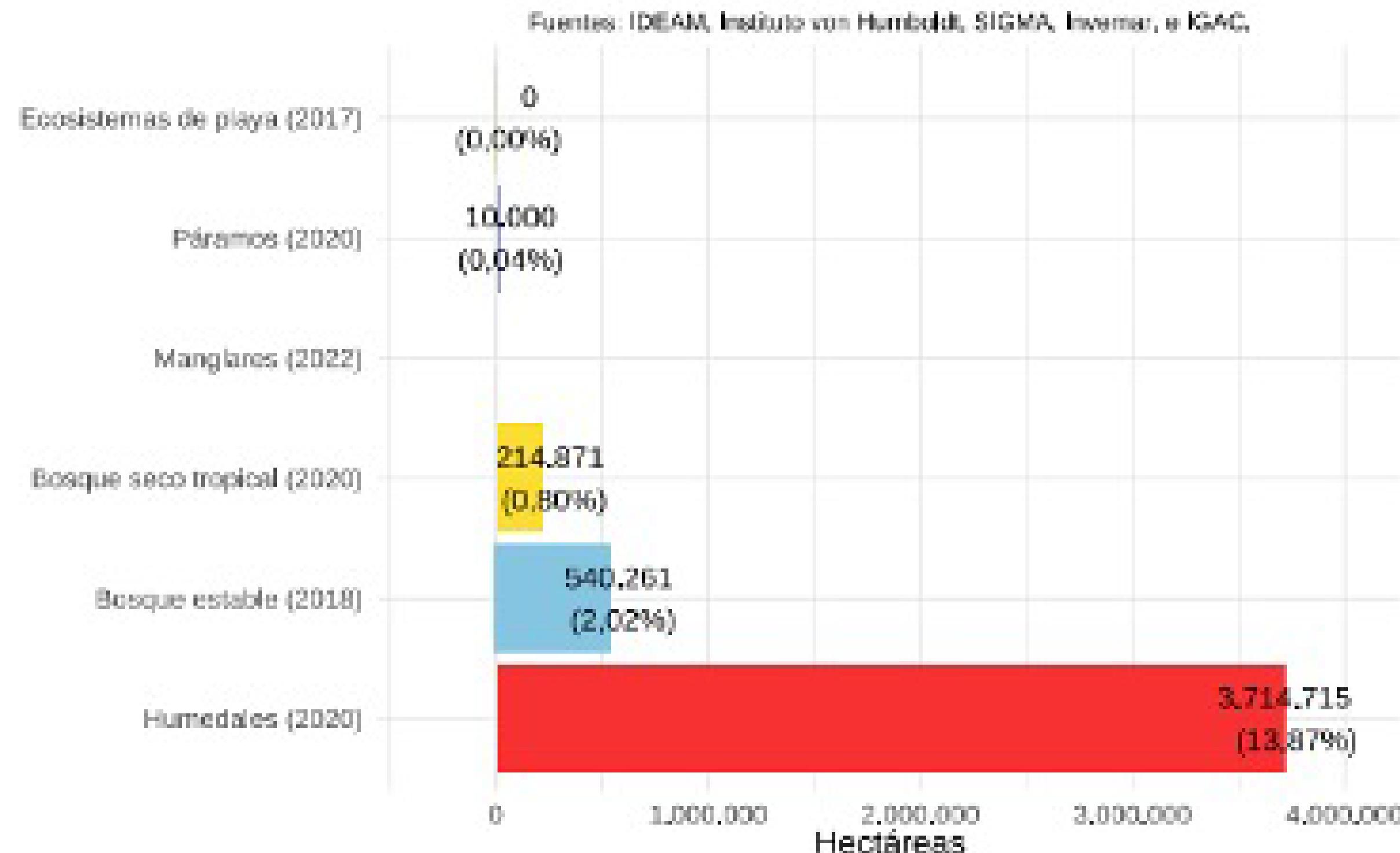
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BIODIVERSITY-RICH TERRITORY

6,372 species

-  **3.244** plants
-  **841** birds
-  **168** mammals
-  **576** fish
-  **200** reptiles and amphibians

AREA IN STRATEGIC ECOSYSTEMS

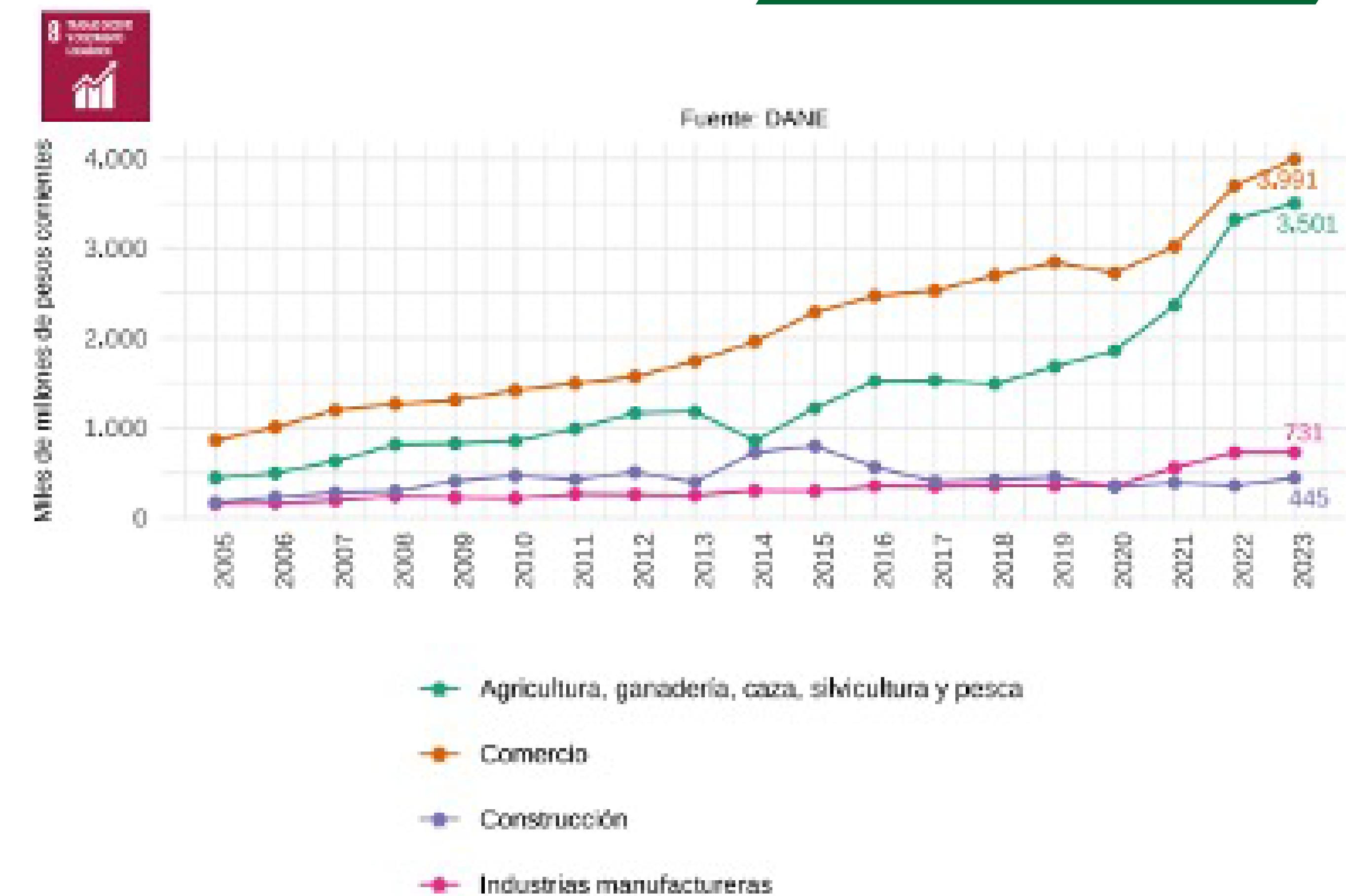


Diversity of landscapes, where the mountains, foothills, and the savanna converge, where the floodable savannas stand out with their gallery forests, moriche palm groves, estuaries, creeks, and wetlands, which sustain water, biodiversity, and the Llanero culture

GDP OF SOME SECTORS

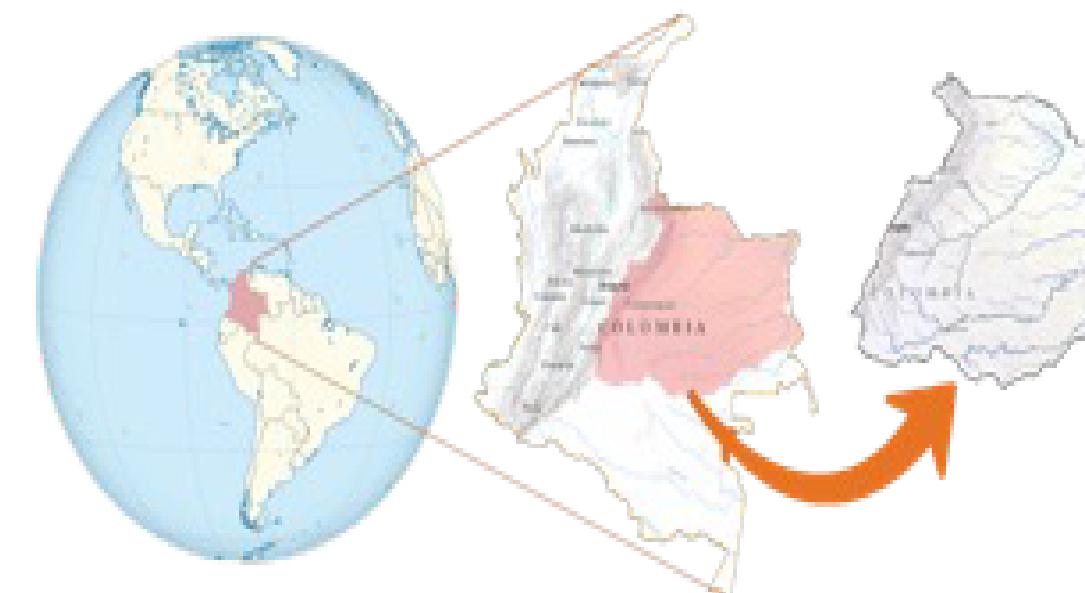
Recognized for being the third largest cattle ranching area in Colombia: 64.7% of the department's land is used for livestock activities.

Agricultural and agro-silvopastoral activities occupy 13.5% of Casanare's land, with a total of 602,799 hectares under cultivation; on the other hand, 9.3% of the land is used for forestry activities





WATER RESOURCE



Casanare is located within the jurisdiction of the Orinoco Hydrographic Area, which is the third largest river basin in the world and occupies a quarter of South America, with an average discharge of almost 36,000 m³ towards the Atlantic (CORPORINOQUIA C.A., 2024). The Orinoco is made up of nine officially recognized hydrographic zones (HZ): Inírida, Guaviare, Vichada, Tomo, Meta, Casanare, Arauca, Orinoco Directs, and Apure

In this context, the department of Casanare, as detailed in Illustration 2. Casanare Hydrographic Zones, is integrated into the Meta and Casanare hydrographic zones

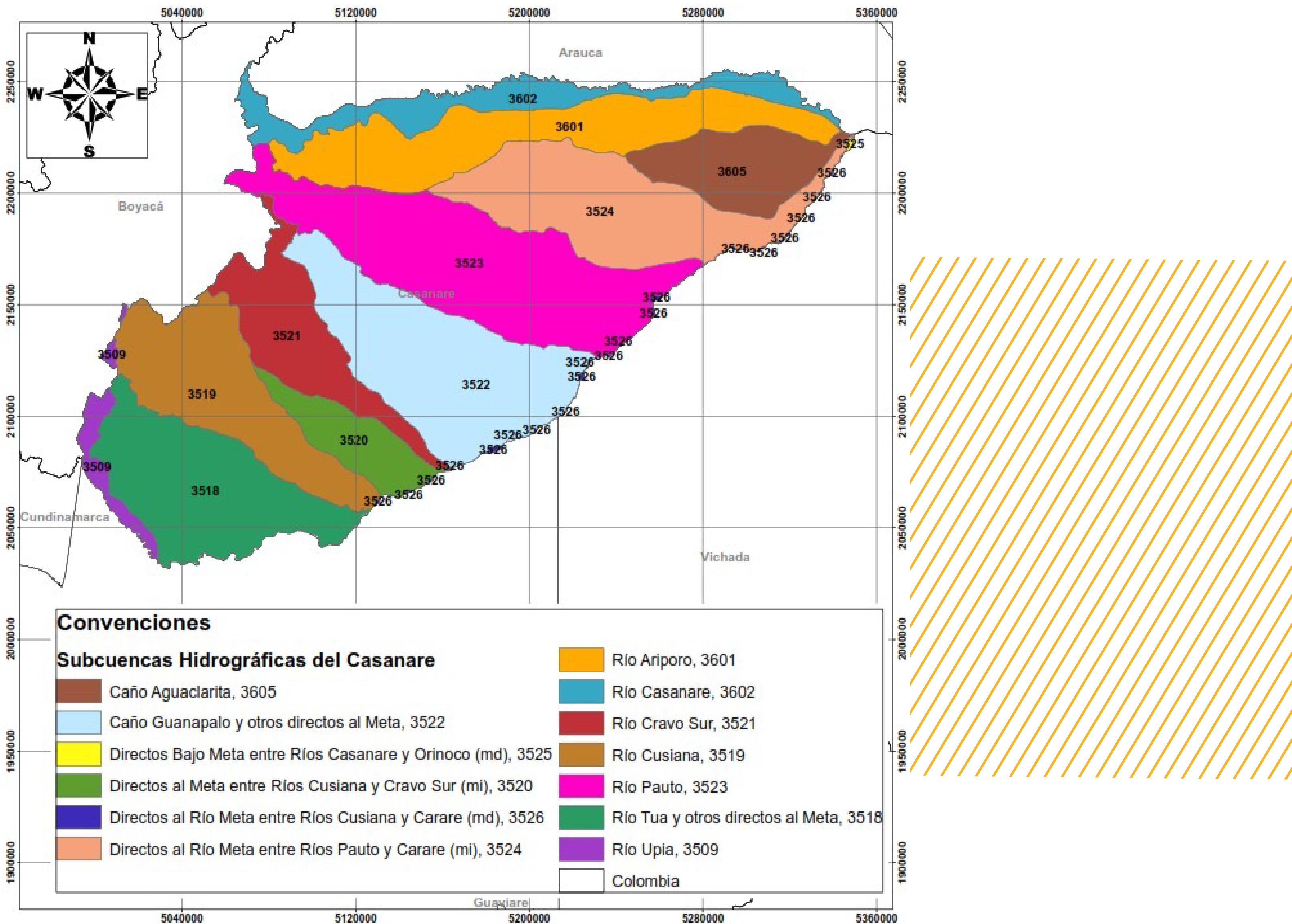
Ilustración 2. Zonas Hidrográficas de Casanare

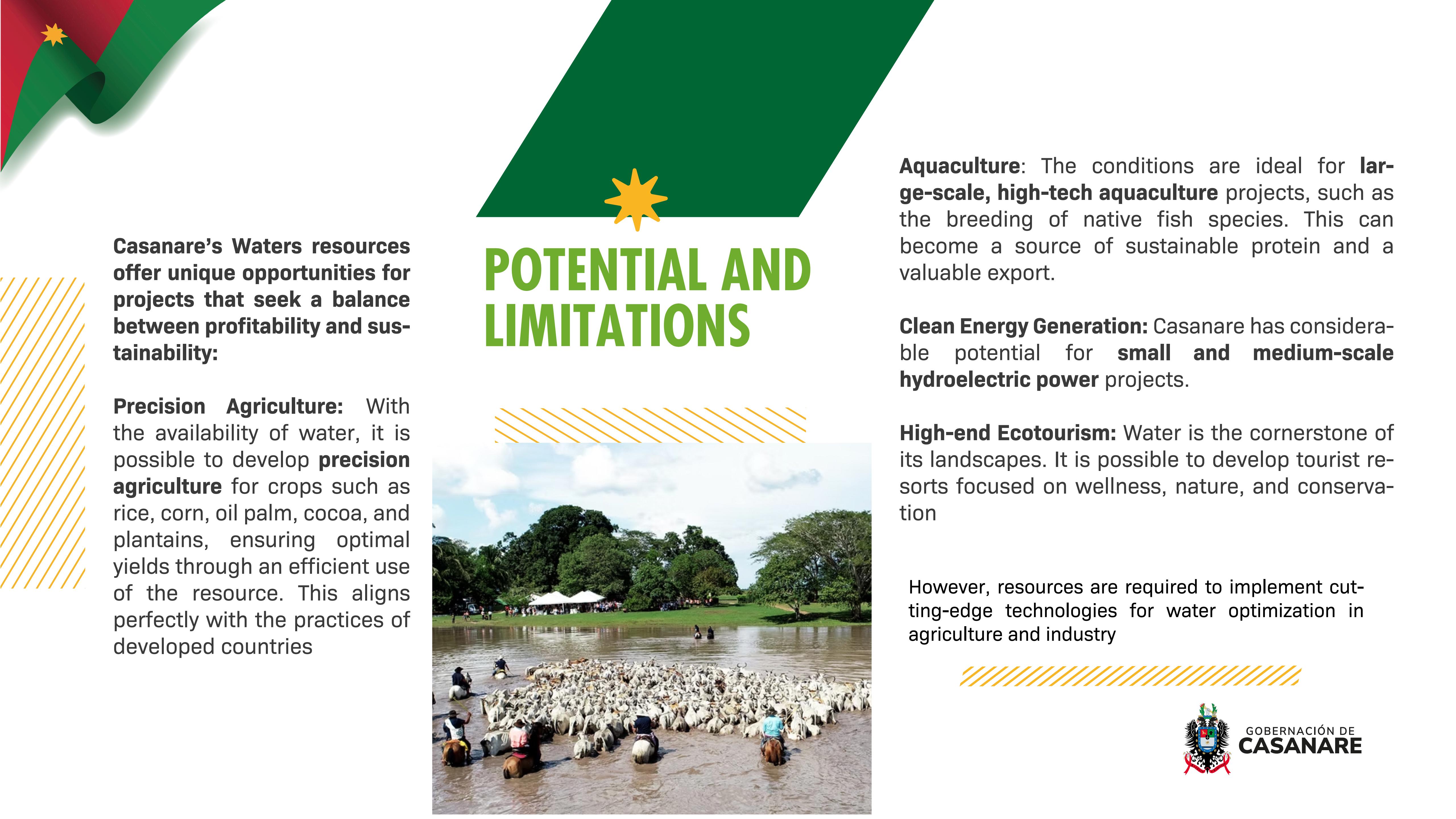


Fuente: Elaboración Propia Basado en Información Obtenida del IDEAM
(Instituto de Hidrología, 2013)



From an administrative perspective, based on coherent hydrographic units, the department of Casanare is subdivided into 14 Hydrographic Units (HU). The largest of these is the Meta River unit (representing 33% of the departmental territory) and the smallest is the Pauto River unit (with 2%). These units encompass the river basins of the Meta, Casanare, Cusiana, Pauto, Cravo Sur, Túa, Upía, Guacavía, Charte, Tocorá, Batá, Ariporo, Guachiría, and Payero (IGAC, 2021)





Casanare's Waters resources offer unique opportunities for projects that seek a balance between profitability and sustainability:

Precision Agriculture: With the availability of water, it is possible to develop **precision agriculture** for crops such as rice, corn, oil palm, cocoa, and plantains, ensuring optimal yields through an efficient use of the resource. This aligns perfectly with the practices of developed countries



Aquaculture: The conditions are ideal for **large-scale, high-tech aquaculture** projects, such as the breeding of native fish species. This can become a source of sustainable protein and a valuable export.

Clean Energy Generation: Casanare has considerable potential for **small and medium-scale hydroelectric power** projects.

High-end Ecotourism: Water is the cornerstone of its landscapes. It is possible to develop tourist resorts focused on wellness, nature, and conservation

However, resources are required to implement cutting-edge technologies for water optimization in agriculture and industry



AGROINDUSTRY AND PRODUCTIVE SECTOR



PLAN DE AGROINDUSTRIALIZACIÓN DE CASANARE

PACA



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HALAL-CERTIFIED BEEF PROCESSING PLANT

The project is located in the Free Trade Zone of Nunchía, Casanare (Colombia), benefiting from tax, customs, and exchange advantages that facilitate beef exports to international markets, particularly those requiring Halal certification. Casanare is the second-largest cattle-producing department in Colombia, ensuring a steady supply of raw material. Its location along the Marginal de Llano highway guarantees efficient logistics for both cattle supply and product distribution to consumption centers and export ports.

Product Presentations

- Carcasses
- Specialized cuts (chilled/frozen)
- Edible by-products: white and red offal
- Protein meals

Certifications

- Halal (certified supervision)
- HACCP – ISO 22000
- Traceability

General Data

- Capacity: 500 cattle/day
- Estimated investment:

USD\$ 30,633 000



Facilities

- Animal welfare pens
- Box restrainer and Halal slaughter point
- Slaughtering and deboning areas
- Cold rooms and freezing chambers
- Rendering and fertilizer plants
- Administrative and certification offices



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CONCENTRATE ANIMAL FEED PLANT

Includes

- Construction equipment, and commissioning of an industrial plant for the production of animal feed using state of the art technology, meeting local, regional and national demand with strong export potential.
- Establishment of approximately 16,500 hectares of corn and soybean distributed in three clusters across the department for raw material supply
- Delivery of precision agricultural machinery for managing corn and soybean crops.
- Technical assistance programs aimed at small and medium- sized farmers to consolidate commercial partnerships



General Data

- Capacity: 14 TONS / HOUR
- Estimated investment:

USD\$ 40, 319 000



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DAIRY FOOD PRODUCTION AND PROCESSING PLANT

The project proposes:

10

Milk collection centres"

16,000

Milk collection centres

920

Producers of livestock for each purpose, associated with the plant

1

Milk quality laboratory

1

School for Training in Milk Quality



Estado

Phase II - Studies and designs in February

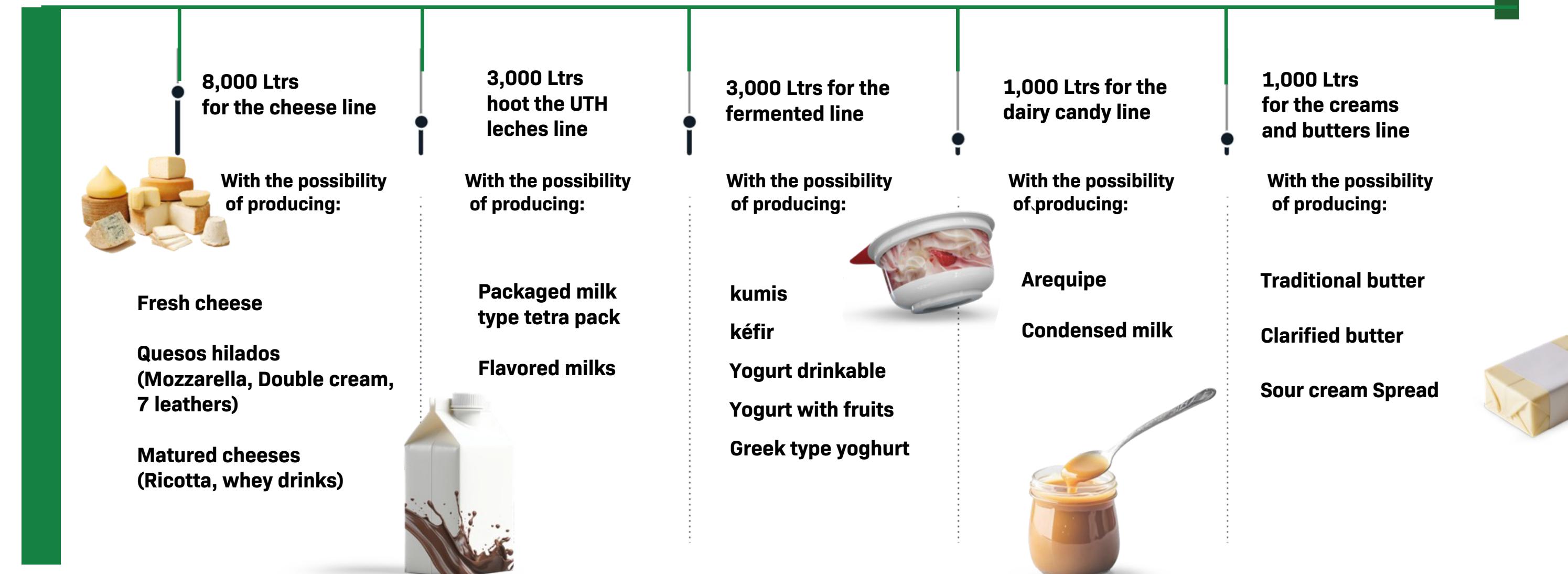


Runtime

12 MONTHS



**STRENGTHENING
AND PROMOTING
SUSTAINABLE
LIVESTOCK**



Expected value

11,560,216.50



USD



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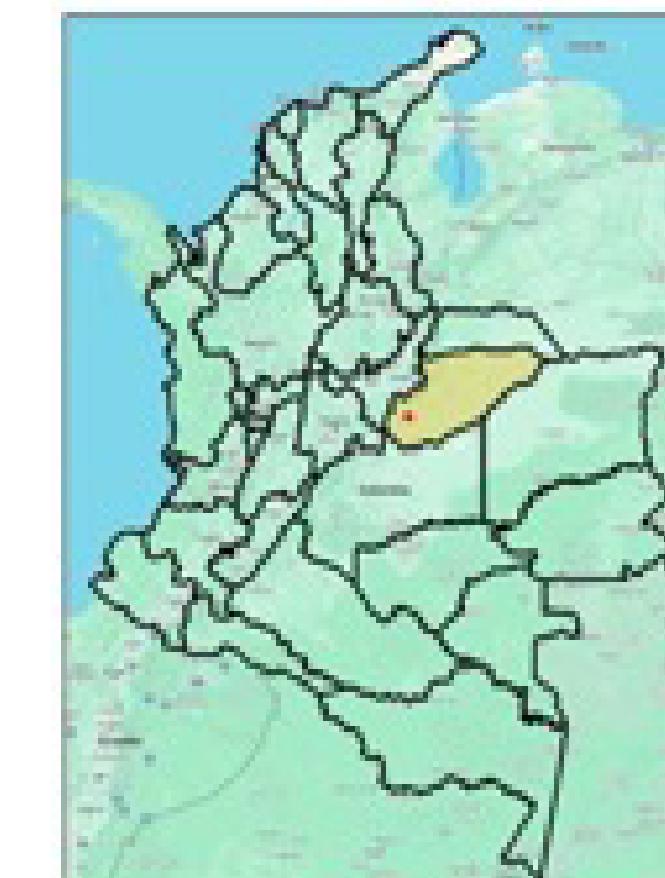
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PRE-FEASIBILITY STUDY: CUSIANA RIVER IRRIGATION DISTRICT



The Cusiana River Land Development Project is located in the department of Casanare, southeast of the municipality of Tauramena

The project covers a total area of 10,213 ha, with a potentially irrigated area of 8,230 ha.



Estimated value of Phase II: **USD \$3,837.500.**

Includes preparation of designs, environmental licensing, and land acquisition. Duration: 2 years



Estimated value of Phase III: **USD \$111,975.000.**

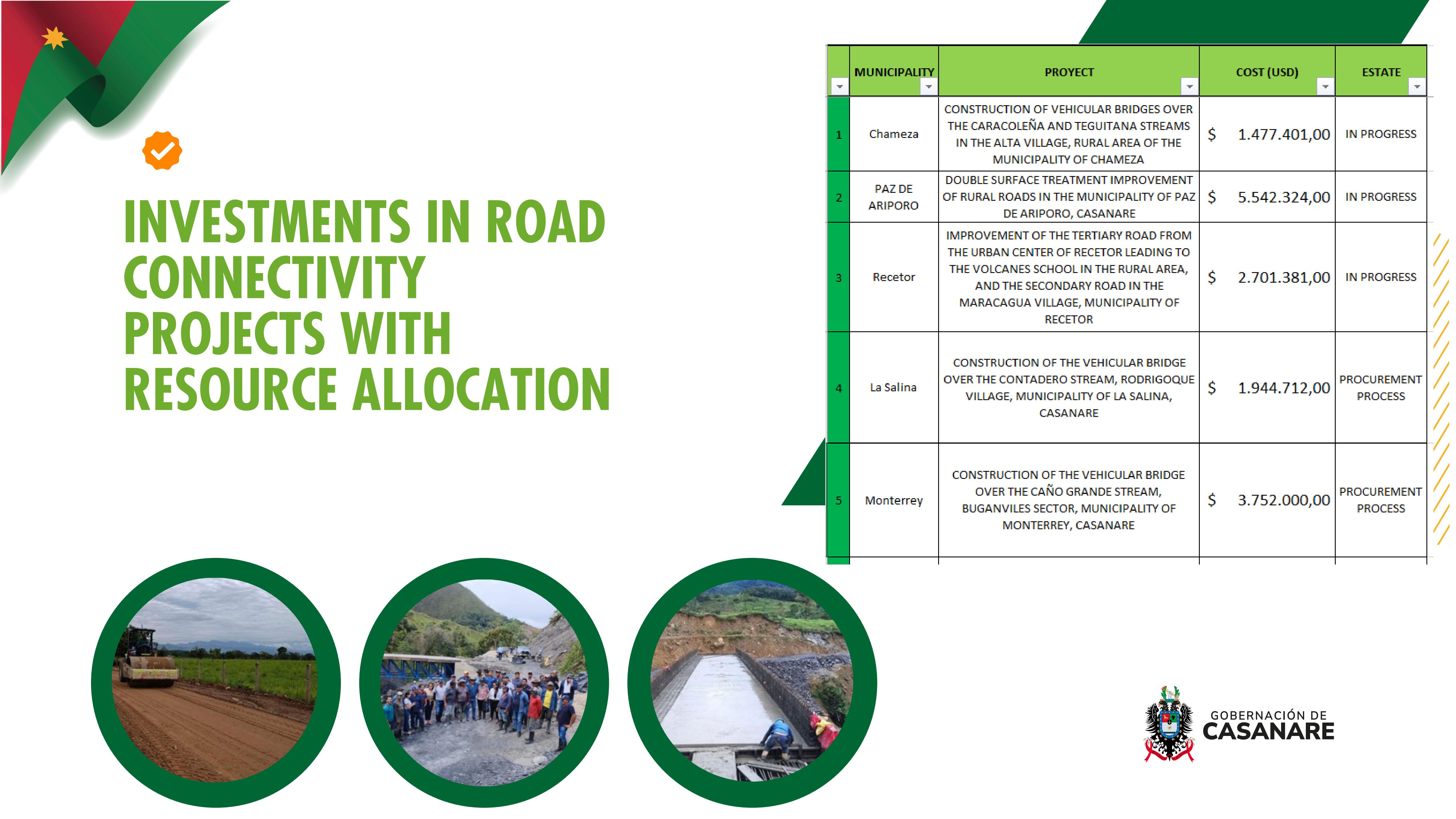
Includes construction works, supervision, mandatory environmental investments, complementary services, etc. Duration: 3 years.

Total timeframe for Phases II & III: 5 years



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INVESTMENTS IN ROAD CONNECTIVITY PROJECTS WITH RESOURCE ALLOCATION



	MUNICIPALITY	PROJECT	COST (USD)	ESTATE
1	Chameza	CONSTRUCTION OF VEHICULAR BRIDGES OVER THE CARACOLEÑA AND TEGUITANA STREAMS IN THE ALTA VILLAGE, RURAL AREA OF THE MUNICIPALITY OF CHAMEZA	\$ 1.477.401,00	IN PROGRESS
2	PAZ DE ARIPORO	DOUBLE SURFACE TREATMENT IMPROVEMENT OF RURAL ROADS IN THE MUNICIPALITY OF PAZ DE ARIPORO, CASANARE	\$ 5.542.324,00	IN PROGRESS
3	Recetor	IMPROVEMENT OF THE TERTIARY ROAD FROM THE URBAN CENTER OF RECETOR LEADING TO THE VOLCANES SCHOOL IN THE RURAL AREA, AND THE SECONDARY ROAD IN THE MARACAGUA VILLAGE, MUNICIPALITY OF RECETOR	\$ 2.701.381,00	IN PROGRESS
4	La Salina	CONSTRUCTION OF THE VEHICULAR BRIDGE OVER THE CONTADERO STREAM, RODRIGOQUE VILLAGE, MUNICIPALITY OF LA SALINA, CASANARE	\$ 1.944.712,00	PROCUREMENT PROCESS
5	Monterrey	CONSTRUCTION OF THE VEHICULAR BRIDGE OVER THE CAÑO GRANDE STREAM, BUGANVILES SECTOR, MUNICIPALITY OF MONTERREY, CASANARE	\$ 3.752.000,00	PROCUREMENT PROCESS



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INVESTMENTS IN ROAD CONNECTIVITY PROJECTS WITH RESOURCE ALLOCATION



MUNICIPALITY	PROYECT	COST (USD)	ESTATE
6 Tauramena	CONSTRUCTION TO COMPLETE THE BRIDGE OVER THE CUSIANA RIVER AND CARRY OUT COMPLEMENTARY WORKS IN THE MUNICIPALITY OF TAURAMENA, CASANARE	\$ 8.170.518,00	PROCUREMENT PROCESS
7 Chameza	PHASE I IMPROVEMENT OF THE SECONDARY ROAD CONNECTING THE MUNICIPALITIES OF PAEZ (BOYACÁ) AND CHAMEZA (CASANARE), FROM BARRIALES SCHOOL TO THE UPÍA RIVER, JURISDICTION OF CHAMEZA, DEPARTMENT OF CASANARE	\$ 7.769.523,00	PROCUREMENT PROCESS
8 San Luis	PAVEMENT IMPROVEMENT OF THE FIRST STAGE AND COMPLEMENTARY WORKS ON THE SANTA HERCILIA – EL HUMO – MORICHAL – LA SELVA – LOS PATOS ROAD IN THE MUNICIPALITY OF SAN LUIS DE PALENQUE	\$ 9.082.635,00	IN PROGRESS
9 Sabanalarga	EXPANSION AND ASPHALT PAVING OF THE SABANALARGA – LA YE – PORVENIR PROJECT ROAD, MUNICIPALITY OF SABANALARGA, CASANARE	\$ 3.766.002,00	PROCUREMENT PROCESS
	TOTAL	\$ 44.206.496,00	



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* ROAD PROJECTION FOR THE DEPARTMENT

PROJECTS	APPROXIMATE VALUE	ROAD SEGMENT DISTANCE	LOCAL ECONOMY
ROAD CONNECTING TRINIDAD WITH THE VILLAGE OF BOCAS DEL PAUTO AND THE MUNICIPALITY OF SANTA ROSALÍA, VICHADA DEPARTMENT	\$ 206.728.800 USD	90 KM	Agriculture, livestock and palm oil
ROAD CONNECTING PAZ DE ARIPORO WITH THE VILLAGE OF LA HERMOSA AND THE MUNICIPALITY OF LA PRIMAVERA, VICHADA DEPARTMENT	\$ 516.822.000 USD	140 KM	Agriculture, livestock
ROAD CONNECTING AGUAZUL, MANÍ WITH LA POYATA AND THE MUNICIPALITY OF PUERTO GAITÁN, META DEPARTMENT	\$ 516.822.000 USD	45 KM	Distribution and trade
ROAD CONNECTING PAZ DE ARIPORO WITH EL DEGREDO IN SÁCAMA, ROAD LEADING TO THE RUTA LIBERTADORES	\$ 103.364.400 USD	30 KM	Agriculture, livestock and palm oil
ROAD CONNECTING YOPAL TO EL MORRO AND THE MUNICIPALITY OF LABRANZA-GRANDE, LINKING WITH THE CUSIANA ROUTE	\$ 129.205.500 USD	30 KM	Distribution and trade



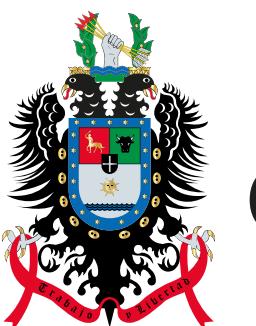
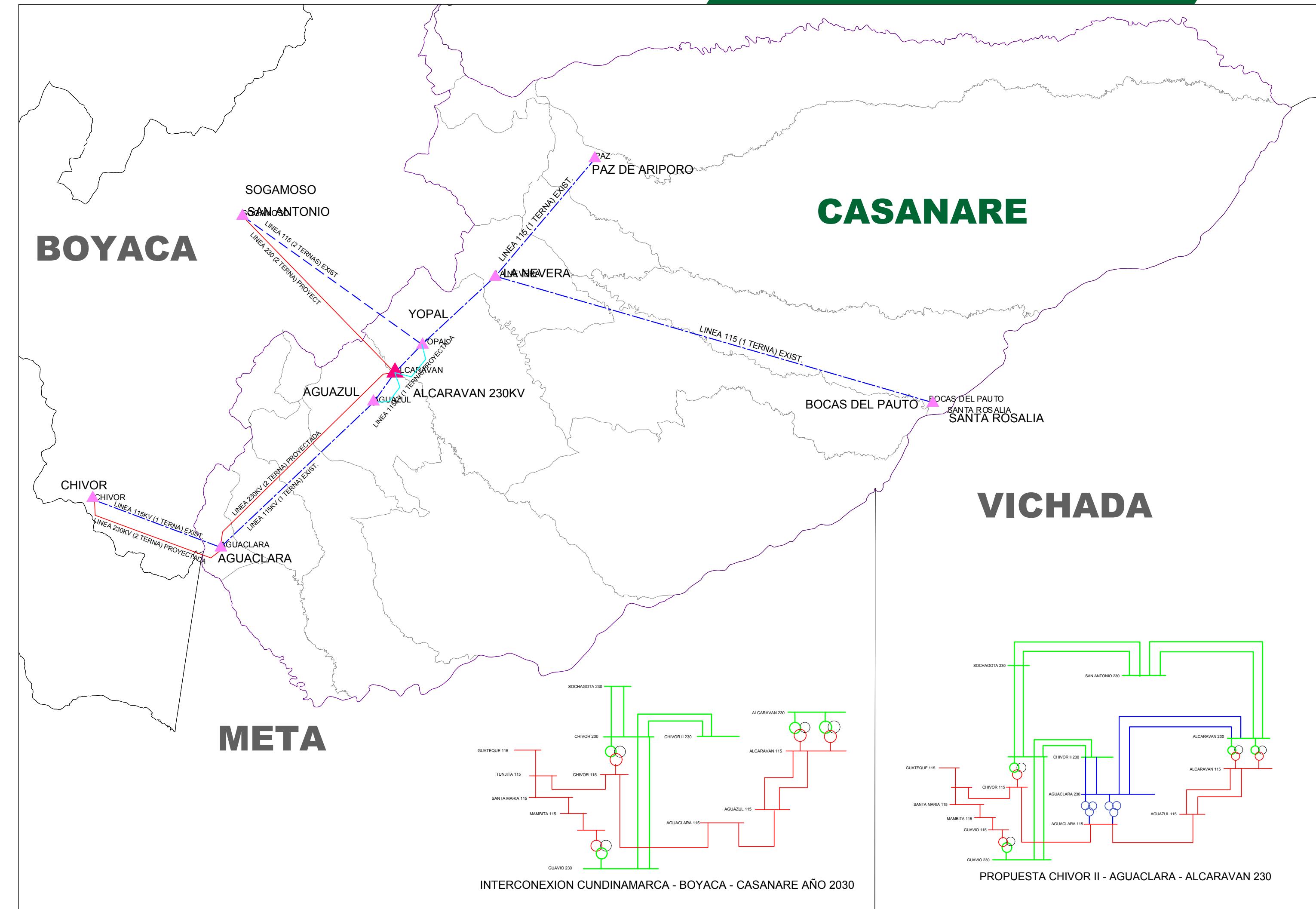
* ROAD PROJECTION FOR THE DEPARTMENT

PROJECTS	APPROXIMATE VALUE	ROAD SEGMENT DISTANCE	LOCAL ECONOMY
ROAD CONNECTING CHAMEZA WITH THE MUNICIPALITY OF PAEZ, BOYACÁ DEPARTMENT.	\$ 5,168.220 USD	20 KM	Distribution and trade
ROAD LEADING FROM TAURAMENA TO THE VILLAGE OF MONTERRALO, AGUAZUL	\$ 129,205.500 USD	40 KM	Distribution and trade
ROAD LEADING FROM HATO COROZAL TO PUERTO COLOMBIA AND THE DEPARTMENT OF ARAUCA	\$ 258.411.000 USD	80 KM	Agriculture, livestock and palm oil
ROAD LEADING FROM YOPAL, SAN LUIS DE PALENQUE AND THE MUNICIPALITY OF OROCUE	\$ 64.602.750 USD	30 KM	Agriculture, livestock and palm oil
ROAD LEADING FROM THE MUNICIPALITY OF MANÍ TO THE MUNICIPALITY OF VILLA-NUEVA (CENTRAL CASANARE)	\$ 51.682.200 USD	30 KM	Distribution and trade

ELECTRIC POWER SYSTEMS

Current peak energy demand is 100 MW; support is required for projected demand of 300 megawatts

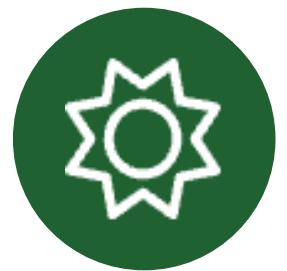
The National Transmission System needs to be expanded to 230kV, with an approximate investment of USD 150 million



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ENERGY TRANSITION

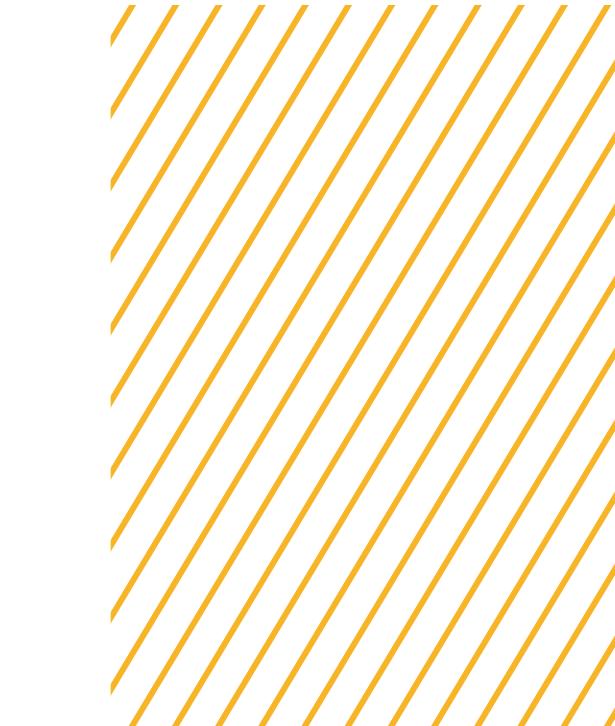


Solar energy generation potential

- 4,5 – 5,5 kWh/m²/day

More than 10,000 square kilometers of land available for photovoltaic solar energy development

Projects to generate more than 50 megawatts with an approximate investment of **\$35 million**



HIGH POTENTIAL FOR RENEWABLE ENERGY GENERATION



Solar



Biomass



Wind



INTERNATIONAL AIRPORT EL ALCARAVÁN



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International Airport Law 2368 of 2024 and Resolution
No. 01614 of 2024 Civil Aeronautics.



TECHNICAL SPECIFICATIONS:

IATA Code: EYP

ICAO Code: SKYP

Location: Yopal, Casanare, Colombia

Latitude: 05° 19' 05.88" N

Longitude: 072° 23' 04.55" W

Elevation: 310 meters (1,016 feet) above sea level

Runway:

- **Dimensions:** 2,250 meters long by 30 meters wide
- **Orientation:** 05 (052 degrees) and 23 (232 degrees)
- **Material:** Asphalt pavement
- **Resistance:** 50 F/B/X/T

Radio aids: It has a VOR for navigation.

Communications: Includes Yopal Tower and Yopal Approach



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POTENTIAL



Passengers

385,305 annual
increase of 21%



Approximately 13,800
 m^2 of building area

Cargo

1.551 Tons



Three modules, with
capacity to handle
around 350 passengers
in the three boarding
lounges



Passenger arrivals ter-
minal, modern control
tower, apron, and apron
edge lights



Fire station, access
roads, signage, and
urban planning



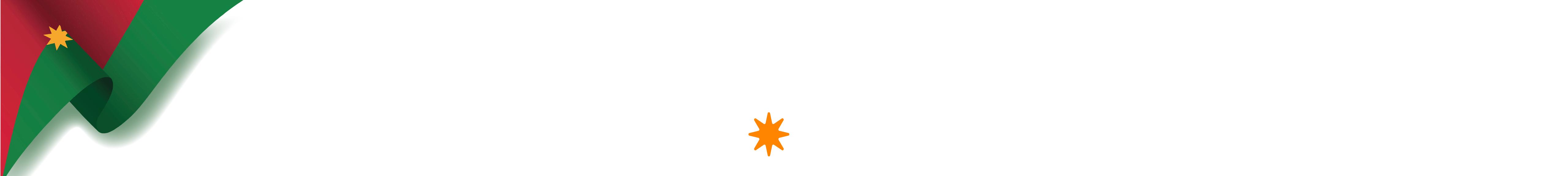
Category 8, with essen-
tial international airport
services



VIP lounges
Commercial stores
Restaurants
Parkings



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POTENTIAL



1

CARGO CAPACITY

Given the conditions at El Alcaraván Airport and its strategic geographical location, cargo planes are able to take off with up to 30% more cargo compared to other international airports in the country



2 >

FUEL COST

The fuel cost in Casanare for the JETA1 ranges from \$3.60 to \$4.20 in other departments, considering that a cargo plane is fueled with approximately 2,000 gallons, which would represent an approximate savings of \$1,250 per tank



3 >

LOCAL ROUTES

Additionally, 40% of the activity is not necessarily linked to passenger transport, but rather to training flights, repositioning, and cargo



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POTENTIAL

Cargo and logistics:

The capacity to handle medium-sized aircraft (type C, including models such as the A320, Boeing 737, and ATR-72) would allow air cargo to be brought in or shipped out, which is beneficial for perishable goods, manufactured goods, hydrocarbons, and supplies

Strategic air connectivity:

By adding international routes, direct flights could be facilitated to neighboring countries or connections to international hubs, reducing travel times and costs for people and cargo

Tourism development:

Casanare has natural, cultural, and ecotourism attractions. Better access could attract more domestic and international tourists, which would translate into growth for hotels, restaurants, tourist services, local transportation, etc.

Boost to the regional economy

Benefits existing industries, especially oil and agriculture, by reducing transport times and costs. Generates direct and indirect employment: airport operations, commerce, services in the area. Can encourage foreign and domestic investment in Casanare, if complementary infrastructure is improved

Decongestion of other airports:
Better distribution of air demand by preventing local passengers from traveling to other cities for international connections.



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POSSIBLE INITIAL STRATEGIC ROUTES



Panamá City

Regional hub connecting North America, the Caribbean, and Central America



1



San José (SJO) or San Salvador (SAL)

Tourism and business markets in Costa Rica / El Salvador



2



Quito (UIO) or Guayaquil (GYE)

Trade/agricultural exchange, especially perishable goods; also tourism.



3



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CHALLENGES



International cargo module

Initial investments of **USD 3 million** are required, with projected investments of USD 30 million to enable:

Passenger service module for international destinations

Additional strategic investment is required for the provision of aircraft maintenance services

Infrastructure for national authorities such as airport police, customs authorities, and health authorities

Expansion of the runway to 3,200 meters for operations with large aircraft



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CONSTRUCTION OF HIGH COMPLEXITY TOWER TWO OF THE ORINOQUIA REGIONAL HOSPITAL

Value:

51,612.800 USD

**Square :
26000 m²**

Key Units and Services

Oncology Unit

Oncology, Oncologic Surgery, Breast and Soft Tissue Surgery, Hematology.

Maternal-Fetal Unit

Gynecology and
Obstetrics, and
Neonatology

Renal Unit

Nephrology and comprehensive care for renal patients.

Critical Care

Intensive Care Unit (ICU) and Intermediate Care Unit.

Surgical Care

Traumatology and Orthopedics, Neurosurgery, General and Pediatric Surgery, Maxillofacial Surgery, Urology, Otorhinolaryngology



Other

Cardiology (General and Pediatric), Gastroenterology, Dermatology, Internal Medicine, Neurology, Psychology, Nutrition and Dietetics



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REFERRALS OUTSIDE THE DEPARTMENT:

In 2024, more than

6.761 

users were transferred to Bogotá, Barranquilla, Bucaramanga, and other cities due to a lack of essential services.

Overcrowding

Currently, the Orinoquia Regional Hospital maintains an overcrowding of **168%**.

 **Benefited population:**
475.144
inhabitants of Casanare

 **Benefited population:**
125.477
inhabitants of Vichada

 **Benefited population:**
313.097
inhabitants of Arauca

 **913.718**
Total number of inhabitants benefited



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