





Investment Rural Program Sustainable development and poverty reduction

Nicaragua









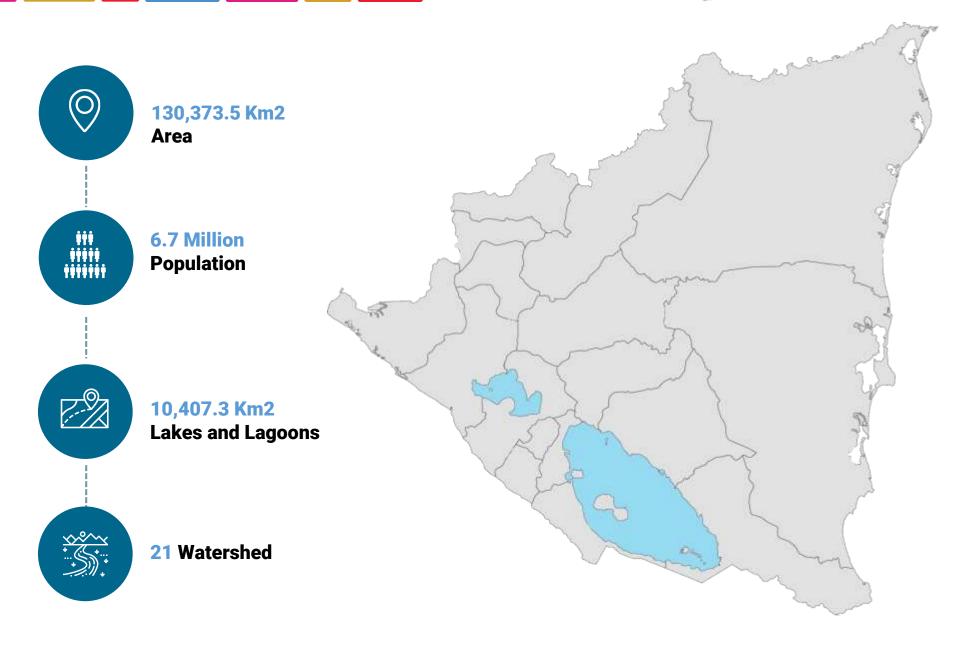




GENERAL DATA OF THE COUNTRY







TRNSFORMATION OF NICARAGUA 2007-2022



21 New hospitlas

1,544 Community health
centers



+36 mil Classrooms



Electric coverage: **54**% (2006) **vs 99.2**% (2022) Renewable production: **26**% (2006) vs

74.4% (2022)



90% Food self-security







Better road infrastructure of **Centroamérica 5th** of Latin America



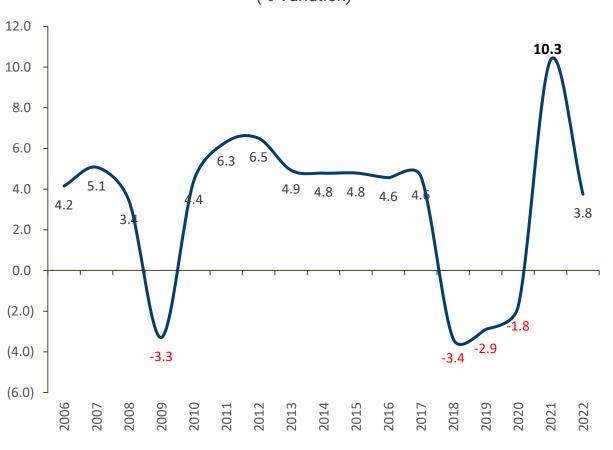
Water access: **65%** (2006) vs **94%** (2022)

RESILIENT ECONOMY



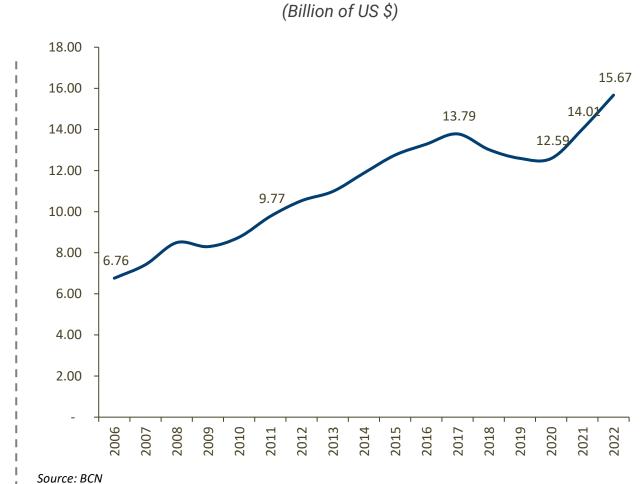


Economic growht: PIB constants prices (% Variation)



Source: BCN.

GDP of Nicaragua 2006-2022



RESILIENT ECONOMY

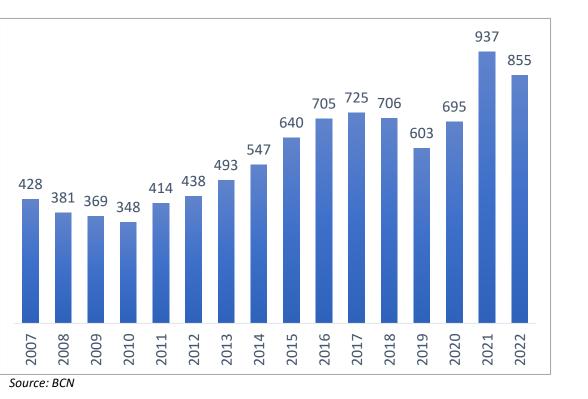


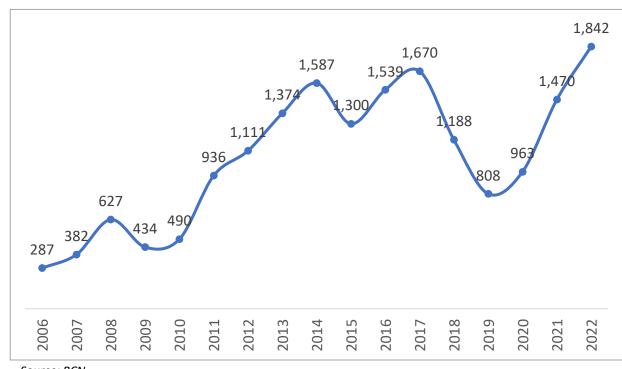


2007 – 2022) Foreign Direct Investment Income(2006 - 2022)

(Million of US \$)

Public Investment Program PIP (2007 – 2022) (Million of US \$)





Source: BCN



U\$ 92.5 million Income FDI in agricultural sector 2022



Investment in production support: roads, energy, telecommunications, water and sanitation, health and education

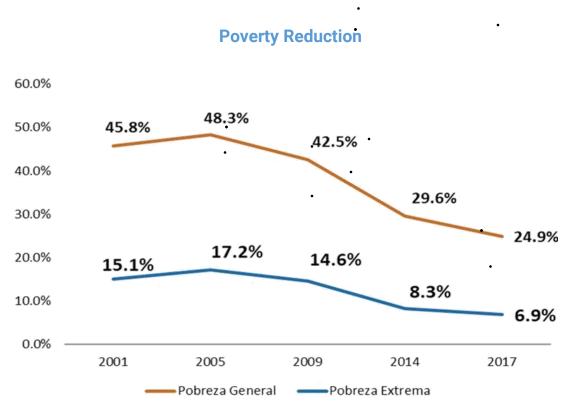


30% Of national employment

POVERTY AND INEQUALITY REDUCTION



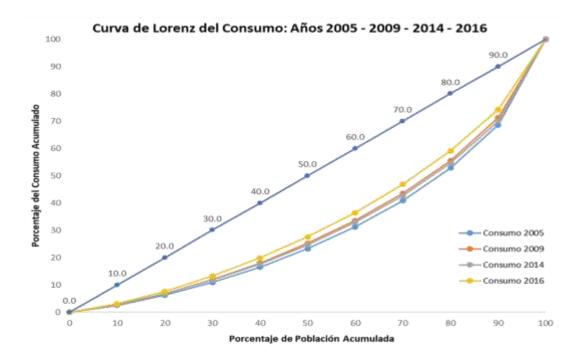




SOURCE: INIDE/EMNV 2001, 2005, 2009, 2014, 2017

Lorenz curve of consumption:

Years 2005 - 2009 - 2014 - 2016











AGRIFOOD SYSTEM POTENTIAL

AGRIFOOD SYSTEM POTENTIAL







+ 20 Types of soil



48.54 %
Land with high and medium priority



+ 3.8 M. Has Agricultural use



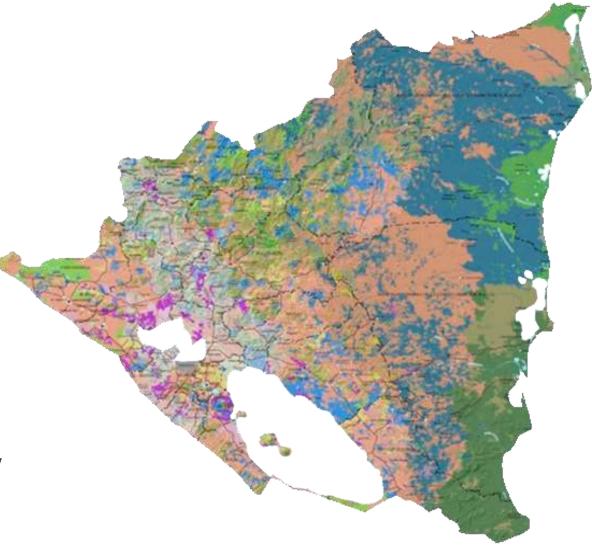
15 % Natural reserves



+ 6 M. Has Forestry use



7 %Of global biodiversity



PALANCAS DE CRECIMIENTO ECONÓMICO





Datos 2022:



Total export: US \$ 7,731 million

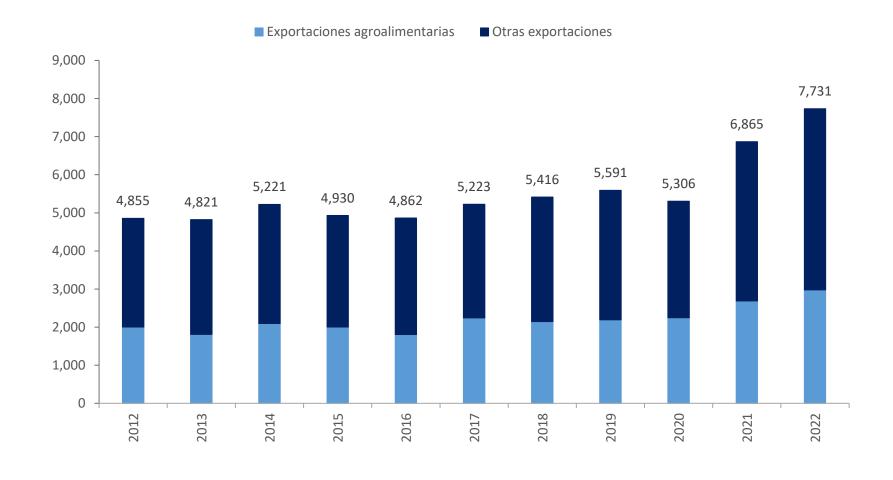


Growth vs 2021
13.0 %, which
represents US \$865.6
Additional million



40% Agro-food export in 2022

Evolution of total agro-food exports (2012 – 2022)(Million of US \$)

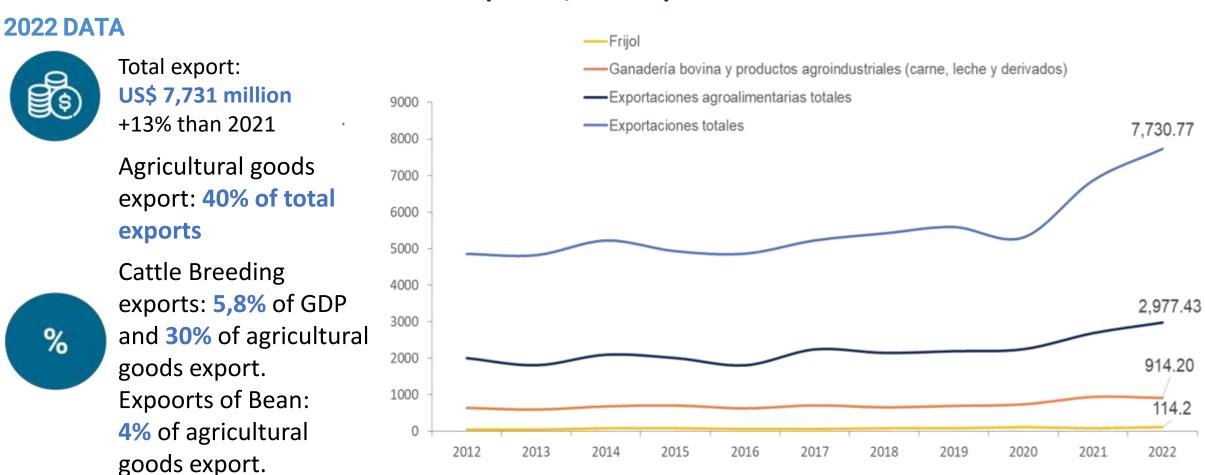


EL SECTOR AGROALIMENTARIO





BEANS AND CATTLE BREEDING EXPORT + AGROINDUSTRIAL PRODUCTS (MEAT, DIARY): in US\$ MILLION



Nicaragua exports to: USA, Mexico, El Salvador, Guatemala, Japan and Panama

CLIMA DE INVERSIÓN:





CONDITIONS FOR INVESTMENT

1 in Centralamerica - Why invest in Nicaragua:



Less time to open an enterprise



Less time in procedures to export



Without the presence of organized crime



Lower homicide rate

■ RELEVANT DATA:



100% National coverage of mobile internet



76% Population under 40 years of age



21 mil New professionals



Aporx. 6 mil kms paved roads 3.0X vs. 2006

AGREEMENTS IN NEGOTIATION

Perú, Paraguay

HIGH CONNECTIVITY:



Preferential access in 45 countries



20 Bilateral agreements to protect investments

FREE TRADE AGREEMENTS

USA, Panama, México, Chile, E.U, China, United Kingdom, Dominican Republic, South Korea.

CENTRAL AMERICA COMMON MARKET

Guatemala, El Salvador, Honduras, Costa Rica, Panama.

PARTIAL SCOPE AGREEMENTS

Ecuador, Cuba, Venezuela, Colombia, China

AILIGNEMENT WITH THE INITIATIVES









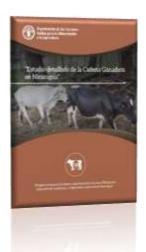




National Program for Rural Investments (PIR)

To reduce poverty and for sustanaible development of Nicaragua











RURAL INVESTMENT PROGRAM (PIR)





PIR 2022 - 2030

PRIORITIES AND RESOURCES



National program of low carbon livestock

US \$225 million



Resilient Coffee National Program

US \$100 million



US \$100 million



Cocoa National Program

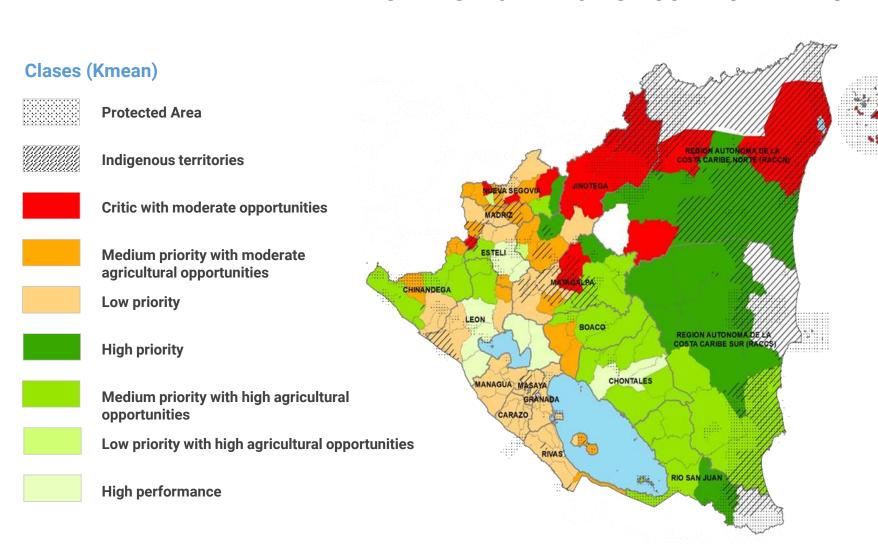
USD 25 million

RURAL INVESTMENT PROGRAM (PIR)





TARGETING MODEL TO AGRICULTRUAL INVESTMENT





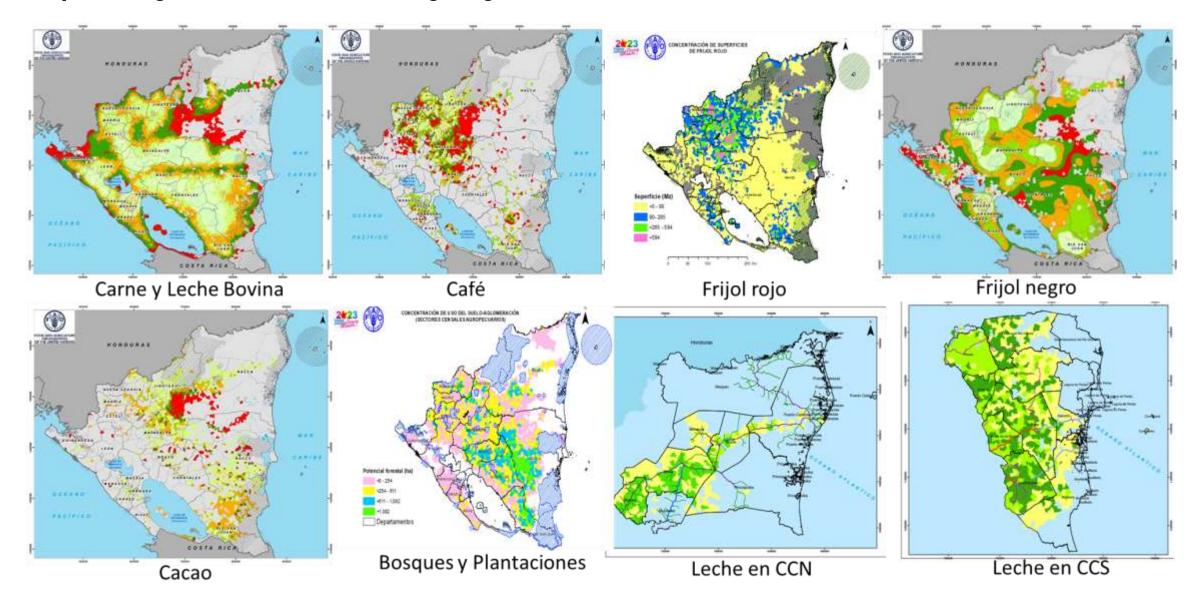
In 2023 Production,
Commercialization and
Consumption National SystemEn
(SNPCC), instituzionalizes Hand
in Hand methodology (HiH) as a
tool to targeting and
porioritizationagrifood
investments

RURAL INVESTMENT PROGRAM (PIR)





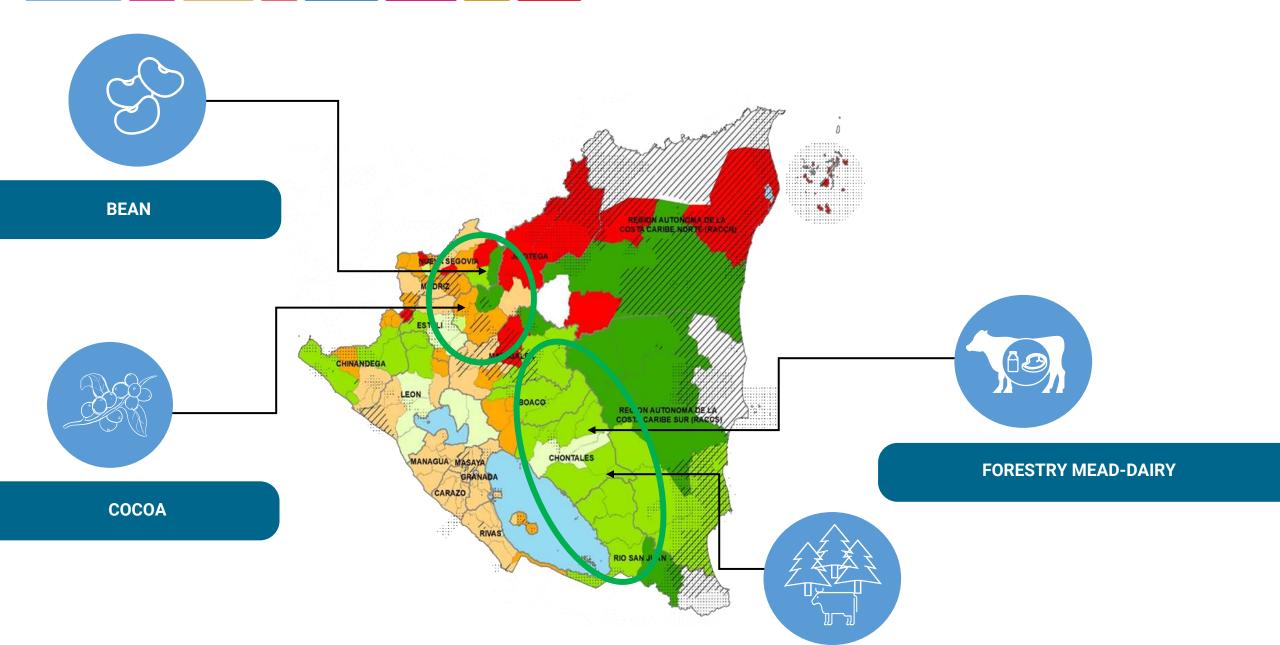
Examples of agricultural investment targeting for socio-economic revitalization



INICIATIVAS DE INVERSIÓN













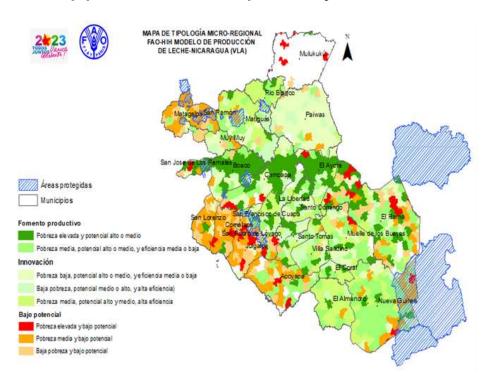
INITIATIVE 1

FORESTRY-DAIRY SECTOR



Development of the Transformation of the Livestock and Forestry Production Matrix in the territory of Via Láctea Ampliada

Agroclimatic Transformation opportunities in primary chain



+80% of producers are <u>micro, small and</u> <u>medium</u> with systems of livestock production in diary and land

Potential investors identified





Technical assistance NI-T1309 - Sustainable livestock farming: Improving opportunities for smallholders in the livestock sector



Identify areas of potential collaboration with private sector agricultural actors in the dairy chain (anchor companies)



FUND

Concept Note on Agreement on Low
Emissions Production in Meat + Dairy and
Coffee



Explore the partnership to support coffee producers implementing agroforestry systems in Nicaragua through a voluntary carbon market

Development of the Transformation of the Livestock and Forestry Production Matrix in the territory of Via Láctea Ampliada



NICARAGUA:

IN CENTRALAMERICA

- ❖ 79% of the value of meat exports and 45% of dairy products come from Nicaragua.
- Main dairy products exported by Nicaragua: cheese, powder milk, cream of milk, lactose-free milk, fluid milk and icecreams.

Nicaragua can export dairy products with 0% tariff to:

China, USA, Mexico, Chile, Dominican Republic, E.U, South Korea

Main countries to which it is exported: El Salvador, Guatemala, USA, Costa Rica y Honduras



Nicaragua can export wood and wood articles with 0% tariff to:

USA, México, Panamá, Chile, Dominican Rep., E.U, United Kingdom

Nicaragua can export diary with 0% tariff to:

China, USA, México, Chile, Dominican Rep., E.U, South Korea

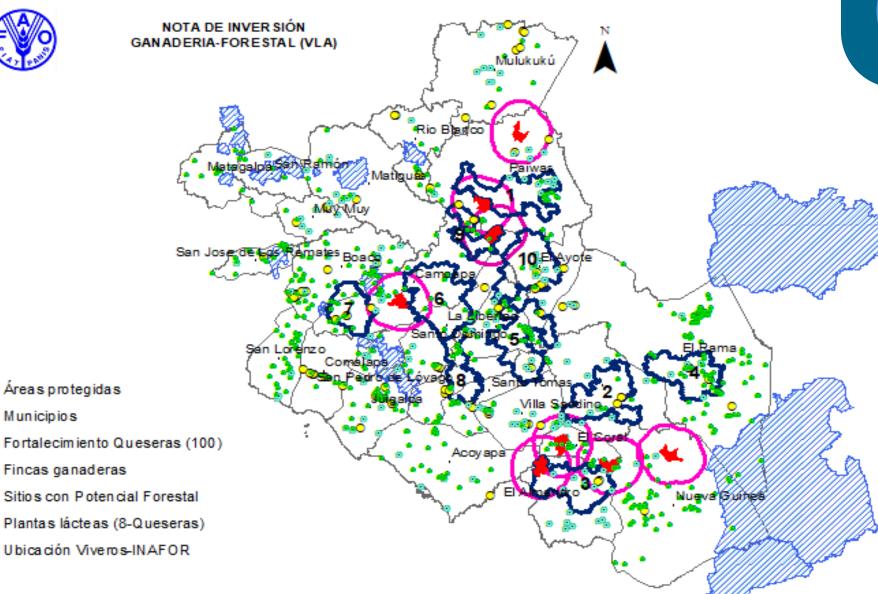
Development of the Transformation of the Livestock and Forestry Production Matrix in the territory of Via Láctea Ampliada







Municipios



Development of the Transformation of the Livestock and Forestry Production Matrix in the territory of Via Láctea Ampliada





Farm management with low carbon practices, including plantations US \$41,529,815

Development infrastructure for processing 100 artisanal cheese factories and 8 plants

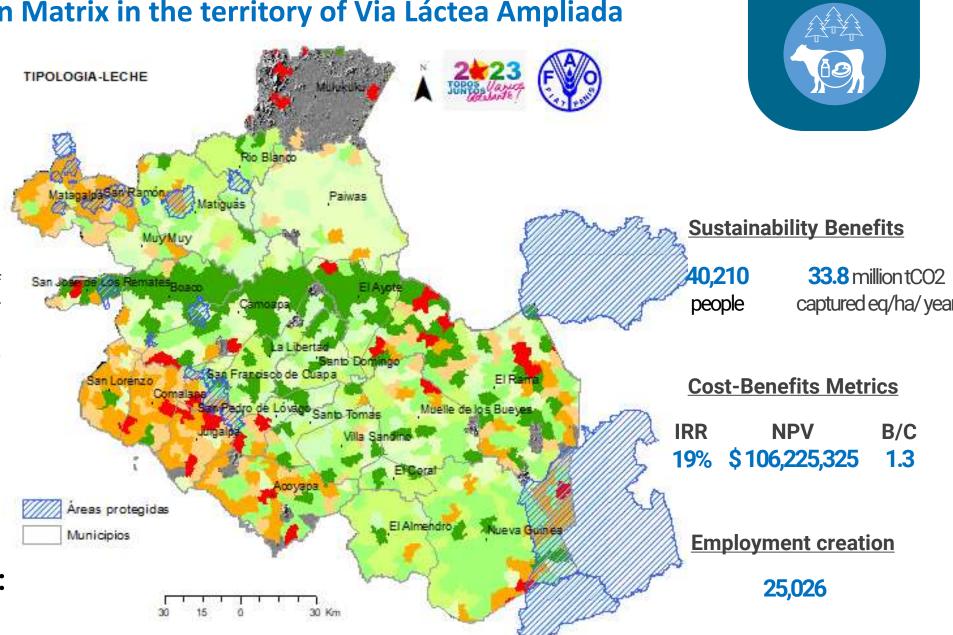
US\$39,337,582

Capacities Development

US\$3,164,201



Total Investment: US\$ 84,031,599



Development of the Transformation of the Livestock and Forestry Production Matrix in the territory of Via Láctea Ampliada



COMPONENTS



Farm management with low carbon practices, including forestry plantations.



Infrastructure Development for diary transformation.



Capacities Development

INDICATORS

+11.000 Ha SASP **33.8** tCO2 eq xHa/year **23,930** Has
With forestry
plantation in 3,947
farms between 5-50
Ha



314,000 m3 per year in raw wood



Colect and processing **25.5** million of liters



8 industrial plants and100 cheese factories



8,042 Producers

EXPECTED RESULTS



21%Productivity increase



Silvopastoral land increase



Increase in area and forest production



26.1% Added value increase



Improving sustainable practical capacities

Development of the Transformation of the Livestock and Forestry Production Matrix in the territory of Via Láctea Ampliada

Iniciativa Mano de la mano

COMPONENTES







Farm management with low carbon practices, including forestry plantations.

- Implementation of farm plans that incorporate low carbon measures and practices (agrosilvopastoral systems, soil and water management and biodiversity) and good milking practices.
- For the development of forest plantations in 3,947 livestock farms:
 - Establishment of nurseries (Species, Infrastructure required, Necessary inputs and tools, Manpower and Technical assistance)
 - Thinning activities in SASP and PF, maintenance activities, productive systems activities and technical assistance of the Forest Regent in plantations.

Infrastructure Development for diary transformation.

- Improvement and expansion of facilities for aggregation of value in 100 artisan cheese makers.
- Equipment: Pasteurizer, Cooling tank, Mixer (cheese vat) and Biodigestors and solar panels.
- Strengthening of diary quality control laboratory.

Capacities Development

- Technical assistance in diary reception techniques.
- Technical assistance in nurseries and management of forest plantations.
- Training in establishing forest plantations and SASP.
- Training in laboratory management and dairy equipment.
- Training in marketing of exportable dairy products.







INITIATIVE 2

BEAN





BEAN PRODUCTION AND EXPORTATION



Nicaragua can export bean products witrh 0% tax to:

China, USA, Mexico, Chile, E.U, Cuba

 El frijol ha experimentado un crecimiento de 120.6% en el valor de las exportaciones en 2022 en comparación con 2012.

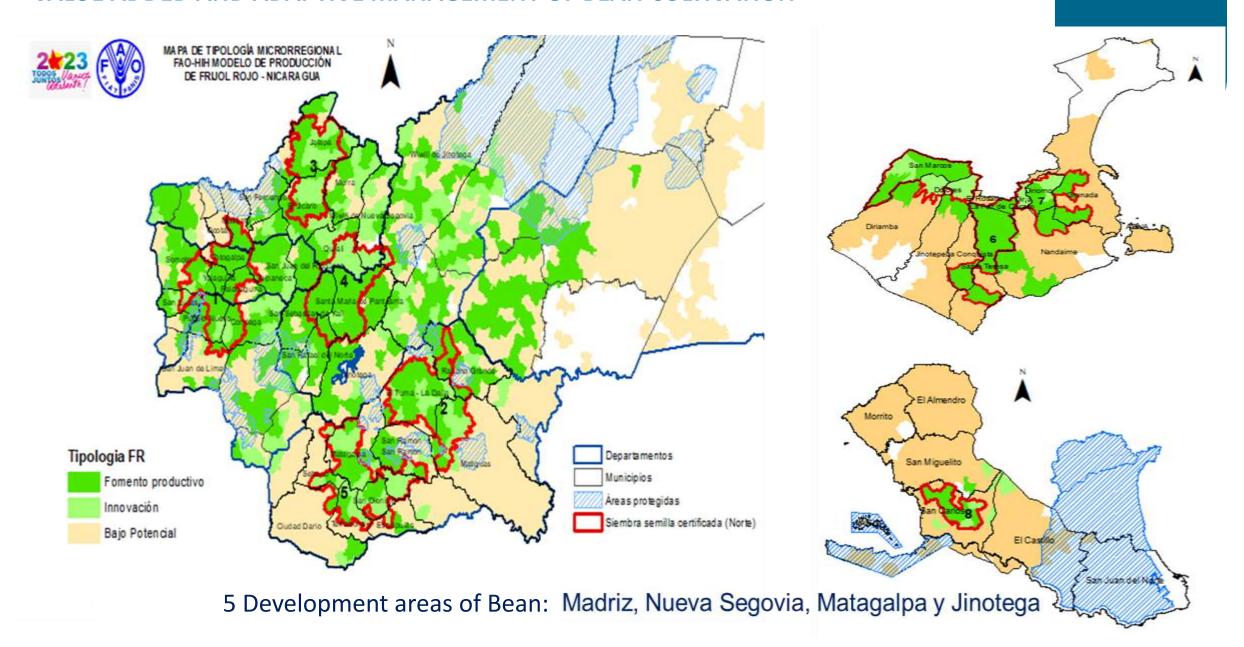
Main countries to which bean was exported in 2022:

Costa Rica, USA, El Salvador, Honduras, Guatemala, Cuba, Spain and Panama

Exported bean by type in 2022:

Frijoles rojos (94,81%), frijoles negros (4,05%), otros tipos (0,85%), frijoles blancos (0,29%)







COMPONENTS



Farm management with adaptive practices and seed production



Establishment of 5 plants for collection and processing red beans into grain



Establishment of 5 plants for processing and commercialization cooked and ground beans

INDICATORS



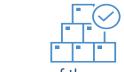
20% productivity increase

+ 1,662.77 Ha and production of

509,661 qq in 5 years of improved seeds



+43,129 Ha with adapted practices



Increase of the exported value and volume of bean



Canned ground beans, and frozen ground beans:

862 Tons /year / 5 plants



11,763 **Producers**

EXPECTED RESULTS





Production of (qq)

733,451.83 year



Total collect quantity:

264,000 qq/ year / 5 plants



Strengthen/expand capacity of **5** cooked and ground bean processing plants



Farm management with adaptive and productivity practices

US \$67,063,501.13



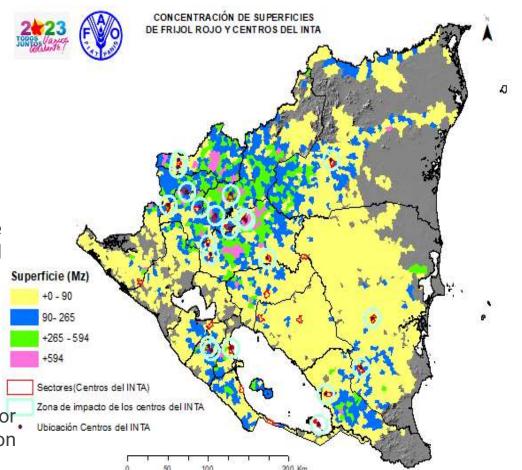
Establishment of 5 plants for the collection, added value and commercialization of red beans

US \$ 12,506,163



Establishment of 5 plants for processing and commercialization cooked and ground beans

US\$3,383,017





Sustainability Benefits

58,813 people

274.5 Ton CO2 equivalent/ha during 12 years

Benefit-Cost Metrics

IRR NPV B/C 42% \$175,710,321 1.92

Employment generation

113,547

Total Investment:

US\$ 82,952,681

Agregación de valor y manejo adaptativo del cultivo de Frijol



COMPONENTES



Farm management with adaptive and productivity practices

- Certified red bean seed production.
- Training and technical assistance to seed producers for certified seed production.
- Institutional technical assistance from IPSA and INTA for seed certification and at the production stage.
- Promotion of adaptation and soil conservation practices.
- Technical assistance and input for the production of red beans.

Establishment of 5 storage plants, added value and processing of red beans into grain

- Training and technical assistance to 5 cooperatives to expand collection and commercialization to producers in postharvest management.
- Improvement and expansion of facilities.
- Equipment for preparation of red bean in grain of the plant.
- Facilitate process and packaging materials.

Construction of 5 new plants for processing and marketing cooked and ground beans

- Built installations.
- Training and technical assistance to 5 new processing and commercialization plants.
- Equipment for processing cooked and ground beans.
- Facilitate process and packaging materials.

PLAN DE INVERSIONES DE NICARAGUA



SUMMARY

US\$166.93 Million
Total investment

31% Average IRR

99,023Direct Beneficiaries: 19.805
Indirect Beneficiaries: 79.218

US\$815
Per capita income increase

5.5 MTPer capita emissions reduction

Investment initiatives



Intervention:

Development of the Transformation of the Livestock and Forestry Production Matrix in the Vía Láctea Ampliada

Cost (USD)

US\$ 84.03 Millones

IRR (%)

19%

VPN

US\$106.2 Millones

Sustainability Benefits

Beneficiaries: 40,210

Direct Beneficiarires: 8,042

Indirect Beneficiaries: 32.168

Employment generation: 25,025

Emission reduction:33.8 million

tCO2 eq/ha/ year



Intervention

Value aggregation and adaptive management of bean cultivation

Cost (USD)

US\$ 82.9 Million

IRR (%)

42%

VPN

US\$ 175.7 Millones

Sustainability Benefits

Beneficiaries: 58,813

Direct Beneficiaries: 11,763 Indirect Beneficiaries: 47.050

Employment generation: 113,547

Emission reduction:

274.5 Ton CO2 equivalent/ha

during 12 years