

# **Investment Program**

 Access to irrigation infrastructure in the Dry Corridor and Petén Economic development of the Polochic Valley and Adjacency Zone.

Guatemala

Hand-in-Hand

Initiative

Investment Forum | Rome, Italy | October 2024

# Progress in 2024





#### **Resource Mobilization**

	In negotiation (USD)	Committed (USD)
Public resources 2024 - Irrigation infrastructure for producer organizations		7.3 M
Public resources 2025 - Irrigation infrastructure for producer organizations	20 M	
EU Resources - Pre investment for irrigation system in Petén		90,000
Ireland Resources - Pre-investment to facilitate access to productive infrastructure in the Dry Corridor		168,000
FAO Resources - Implementation of the National Irrigation Policy and Investment Plan	180,000	
EU Complementary Resources - Driving the Green Transition in Petén (Team Europe Initiative)		791,000

#### **Contributions to public policy instruments**

- The Ministry of Agriculture, Livestock and Food launched the **2024-2027 Irrigation Investment Plan** 2, and the **2024-2028 Strategic Guidelines** based on the Hand in Hand methodology
- **SEGEPLAN's National Public Investment System** -SNIPgt- has incorporated HiH typologies in order to guide public investment in the country.

# **General Overview**



<ul> <li>17.8 million inhabitants.<sup>1</sup></li> <li>67.2% of the total population is of working age.<sup>2</sup></li> <li>1.3 million households are engaged in</li> </ul>	The agricultural sector accounts for 9.3% of GDP <sup>5</sup>		
	2023 Nominal GDP (USD millions)	Contribution from agriculture, livestock, forestry and fisheries (USD millions)	
agribusiness. <sup>3</sup>	105,555.35	9,816.6	
<ul> <li>1 in 3 jobs comes from agribusiness.<sup>4</sup></li> </ul>			
<ul> <li>554 thousand young people between 15 and 29 are employed in agriculture.<sup>2</sup></li> </ul>	The main agricultur 20.6% of the country's	al products contribute exports. <sup>6</sup>	

**CHALLENGE:** Utilizing the potential of the agricultural sector to promote integrated rural development

- 66.4% of the rural population in poverty.<sup>7</sup>
- 1.46 million people (9,5%) live on less than \$2,15 USD per day (World) Bank, 2024)

1 INE 2024. Population estimates and projections 2 INE. 2023. Agricultural EAP Estimates 2023. 3 INE. 2022. National Employment and Income Survey 4 INE. 2018. National Population and Housing Census.

5 BANGUAT. 2023. Real gross domestic product measured by origin of production. 6 INE. 2022. FOB value of exports - general trade in 2022. 7 NSI. 2023. National Survey of Living Conditions.

# **Enabling Environment**



Economic growth projections

Economic Growth	BANGUAT	World Bank	CEPAL	IMF	BCIE
End-of Year Estimate	3.5	3.4	3.4	3.5	3.5
2024 Projection	3.5	3.5	3.1	3.5	3.5

# Environment favorable to business

- Foreign Direct Investment 2023: USD 1.552 billion.
- Macroeconomic stability: 3.4% average growth.
- Positive agricultural trade balance.
- Stable inflation level: 4.2% over the last 12 years.

# **Logistics Platforms**





2 international airports, 9 aerodromes
14 commercial airlines and
7 freight airlines operating.



The largestmaritimecargooperationinCentralAmerica(40.23%)in3maritime ports.

Source: MINECO. 2022. Guatemala, the economic engine of Central America.

# **Enabling Environment**



## Access to key markets

- Proximity and Free Trade Agreement with the United States.
- Gateway to the largest market in Latin America, Mexico.
- Opportunity to access the Central American market with a GDP of more than USD 320.6 million.
- Customs union between Guatemala, Honduras and El Salvador with trade worth over USD 5.77 billion in 2023.

## **Special regimes for investors**

Benefits	Law for the Promotion and Development of Export Activities (Decree 29-89)	Free Trade Zone Law (Decree 65- 89)	Special Public Economic Development Zone (Decree 22- 73)
Income Tax (ISR)	Exemption for 10 years (for specific activities)	Exemption for 10 years	Exemption for 10 years
Value Added Tax ( IVA ) and Import Duties (DAI) on raw materials or finished products	1 year suspension of payment	Exempt	Exempt
Value Added Tax (IVA) and Import Tariff Duties (DAI) for machinery	Exemption for 10 years	Exempt	Exempt
Local Sale	Payment of DAI and IVA (not exempt from ISR)	Payment of DAI and IVA (not exempt from ISR)	Payment of DAI and IVA (not exempt from ISR)

# **Enabling Environment**





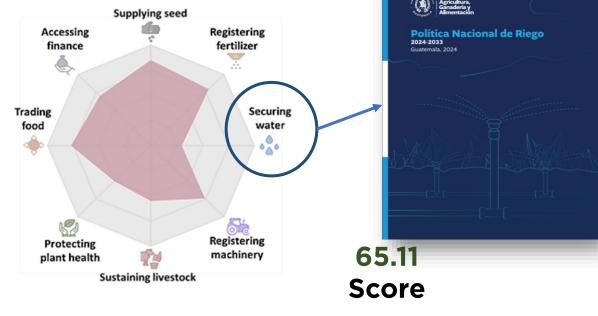
# **Doing Business** 2020 2010 96 110 61.2 62.6

Source: WORLD BANK, 2020

## **Country Risk Ratings**

#### 2024 2020 2024 2020 2020 2024 BB Fitch BB-**STANDARD** Ba1 Ba1 BB-BB Moody's positive stable negative stable negative stable Ratings &POOR'S outlook outlook outlook outlook outlook outlook

# Enabling the Business on Agriculture 2019

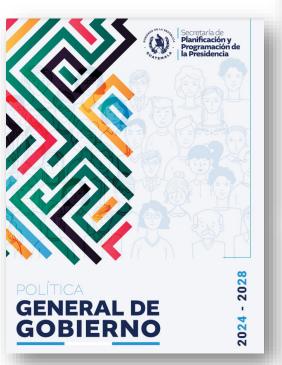


Source: WORLD BANK, 2019

# HiH investment notes - linkage with public policy



# **Government Strategic Framework**





#### National Irrigation Policy

Increase the current coverage of irrigated hectares for agricultural production.



Access to irrigation infrastructure in the Dry Corridor and Petén

**HiH Investment Program** 

A New Seed for Guatemala's Agriculture (MAGA)

- Increase productivity.
- Facilitate access to innovation, technology and production support services.
- Promote inclusive value chains.

Economic development of the Polochic Valley and Adjacency Zone.

# Investment Program - Access to Irrigation Infrastructure in the Dry Corridor and Petén

## Objective

Enhance agricultural productivity and reduce poverty in the Dry Corridor and Petén by facilitating access to irrigation infrastructure.

## Components

- Short pipeline systems for enabling development in the Dry Corridor
- Long pipeline systems to enable development in the Dry Corridor
- Long pipeline systems to enhance production in Petén



Mapa de Clases Tipológicas

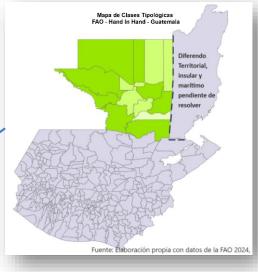
FAO - Hand In Hand - Guatemala

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DIFERENDO TERRITORIAL INSULAR Y MARÍTINO PENDIENTE DE RESOLVER

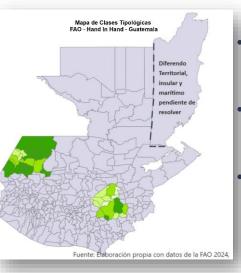


# Petén



- Total population 622,409
- 60% of population in poverty
- 20.6% engaged in corn production
- 26.9% engaged in bean production

# **Expanded Dry Corridor**



- 81.3% of population in Huehuetenango live in poverty
- 79.9% of the population in Jalapa live in poverty
- 46.4% of population in El Progreso live in poverty

# Investment Program - Access to Irrigation Infrastructure in the Dry Corridor and Petén

Ganadería y Alimentación

ATEMP

**I**nitiative

Main Bottlenecks	Needed Strategic Investments	Total Investment	IRR	NPV	
• Dependence on seasonal water availability.	conduction irrigation systems (1,564	USD 70.9 M	21 % US	D 49.8 M	
Weak governance for managing     irrigation systems		Investment Description		Cost	
<ul><li>irrigation systems.</li><li>Insufficient technical staff to</li></ul>	(5,340 hectares).	Short pipeline systems		USD 10.3 M	
design and implement irrigation		Long pipeline systems	USD 30.3 M		
<ul><li>programs.</li><li>Limited financing to invest in</li></ul>		Long pipeline systems in Petén	USD 30.2 M		
irrigation.	<ul> <li>Development of pre-investment projects to be financed by public and private sources.</li> </ul>	<b>Investment Allocation:</b> inputs for the installation of irrigation systems, construction of irrigation systems, technical assistance, complementary investments, RUA.			
<ul> <li>Risks</li> <li>Lack of a water law that regulates the availability and access to water sources.</li> <li>Social conflicts hinder access to water for food production.</li> <li>Lack of public funding for irrigation infrastructure</li> </ul>	<ul> <li>Mitigation Measures</li> <li>Water Cabinet formed to work on a water law proposal.</li> <li>Development of institutional capacities to manage agreements (rights of way).</li> <li>Inter-institutional management to ensure public financing.</li> </ul>	Target population: Small and mid-size producersIrrigated hectares: 6,905 HaBeneficiaries: 1,815 direct 9,075 indirect	Source of Finar budget / non-re cooperation (gr Type of financi with labor cont	eimbursable rants) <b>ng:</b> Donation	
Ministerio de Agricultura, Ganadería v		<b>Income Increase</b> : 16,765.27 USD per capita			

## Investment Program - Access to Irrigation Infrastructure in the Dry Corridor and Petén

#### Investment

#### Short pipe conduction systems



Target population: small and midsize producers in the Dry Corridor Direct beneficiaries: 1,174 Indirect beneficiaries: 5,870 Irrigated hectares: 1,564

**IRR :** 29%

**NPV (USD):** 7.4 M

Increase in yearly per capita income (USD): 4,263.29

#### Investment

#### Long pipe conduction systems



Target population : small and mid-size producers in the Dry Corridor Direct beneficiaries: 391 Indirect beneficiaries: 1,955 Irrigated hectares: 840 IRR: 20% NPV (USD): 17.3 M

Increase in yearly per capita income (USD): 16,000.11

#### Investment

#### Long pipe conduction systems in Petén



Target population : producers in Petén Direct beneficiaries: 250 Indirect beneficiaries: 1,250 Irrigated hectares: 4,500 IRR : 34% NPV (USD): 38.7 M Increase in yearly per capita income (USD): 9,929.70

# HiH Investment Note - Coffee, Cocoa and Cardamom

# **Investment Program - Economic Development of** the Polochic Valley and the Adjacency Zone

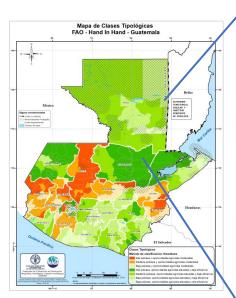
### **Objective**

Promote agricultural economic development by incorporating innovation, technology, infrastructure and production support services, thus contributing to the reduction of poverty and food insecurity.

Value chains prioritized: cocoa, cardamom, and coffee

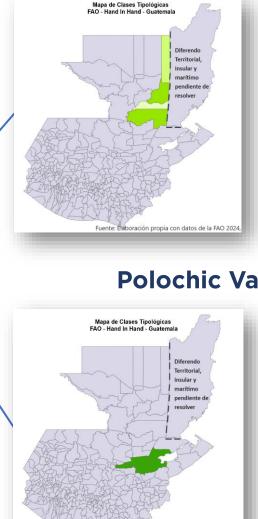
#### Components

- 1. Inclusive and resilient agro-productive development in prioritized value chains.
- 2. Agroindustrial development and marketing.
- Infrastructure for production and related services. 3.
- Sustainable management of natural resources and 4. green transformation.





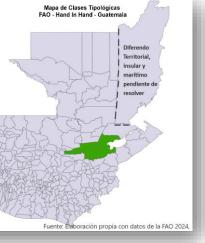
# **Adjacency Zone**



#### Total population 174,211

- 70% are farmers
- 56% of population lives in poverty
- Potential production area (ha): cocoa 8,807, cardamom 36,868.

# **Polochic Valley**



- Total population 331,848
- 75% are farmers
- 91% of population lives in poverty
- Potential production area (ha): cocoa 4,605, cardamom 36,993, coffee 14,400.

# **Opportunities to Catalyze Development**

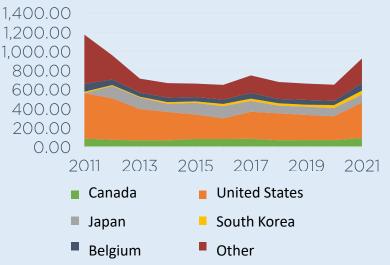
# COFFEE

25% of total agricultural exports

125 thousand families (97% of small producers), 953 organized producer groups

Potential area (ha): 14,400.

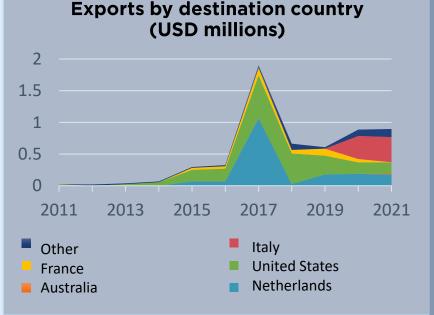
Exports by destination country (USD millions)



# COCOA

Connects companies, cooperatives and small producers that produce fine aroma cocoa.

Potential area (ha): 4,605 in the Polochic Valley, and 8,807 in the Adjacency Zone



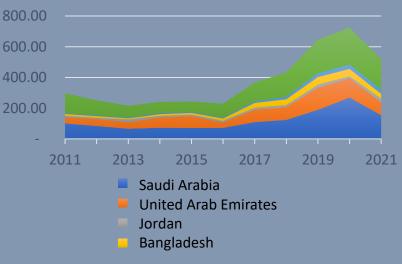
# CARDAMOM

14% of total agricultural exports

350 thousand families, 42 cooperatives and 21 associations are involved.

Potential area (ha): 36,993 in the Polochic Valley, and 36,868 in the Adjacency Zone

#### Exports by destination country (USD millions)



# Investment Program - Economic Development of the Polochic Valley and the Adjacency Zone.

Main Bottlenecks	Needed Strategic Investments	Total Investment	IRR	NPV
Climate fluctuations affect harvests.	<ul> <li>Inclusive and resilient agro- productive development on 15,420</li> </ul>	USD 92.9 M	19 % l	JSD 24.5 M
<ul> <li>Weak capacity for value generation and market</li> </ul>	<ul> <li>hectares.</li> <li>Construction of 50 value addition centers.</li> </ul>	Investment Descriptions		Cost
<ul><li>integration.</li><li>Lack of productive</li></ul>		Inclusive and resilient agro-productive development		USD 18 M
infrastructure.	and maintenance of 355 km of rural	Agro-industrial development	and marketing	USD 8.8 M
	<ul> <li>roads.</li> <li>Creation of 500 ha energy forestry</li> </ul>	Enabling infrastructure for development		USD 61.5 M
		Sustainable management of natural resources		USD 4.3 M
	and 200 ha riverbank forestry.			
Risks	Mitigation Measures			
<ul> <li>Crop losses due to natural disasters.</li> <li>New EU import regulations.</li> <li>Inadequately and insufficiently maintained rural roads.</li> </ul>	<ul> <li>Agricultural insurance, productive bonus, farmer credit.</li> <li>Collaboration between MAGA, MINECO, EU, FAO, other partners to prepare the sector for the Zero Deforestation Regulation.</li> <li>"Avenues for a Good Life Program" underway.</li> </ul>	Target population: small ar mid-size producers Beneficiaries: 17,500 direct 91,000 indirect Income increase:	Source of Fi budget / no cooperation Type of fina	inancing: Public on-reimbursable n (grants) ancing: Donation contribution.
DE LA DA		1,314 USD per capita		





## Investment Program - Economic Development of the Polochic Valley and the Adjacency Zone.

#### Investment

Inclusive and resilient agroproductive development in prioritized value chains



Direct beneficiaries: 12,500 Indirect beneficiaries: 62,500

Surface area with sustainable production: 15,420 Ha

IRR: 22%

NPV (USD): 5.5 M

Increase in yearly per capita income (USD): 5,641.17

#### Investment

Agro-industrial development and marketing



Direct beneficiaries: 2,500 Indirect beneficiaries: 12,500 Participation in value-addition processes: 2,180 productores IRR: 41%

**NPV (USD):** 12.7 M

Increase in yearly per capita income (USD): 1,324.31

#### Investment

Infrastructure for production and related services



Direct beneficiaries: 17,500 Indirect beneficiaries: 91,000 Improved rural roads: 634 Km Energy access: 88 Km of transmission and distribution lines IRR: 15% NPV (USD): 8 M

Increase in yearly per capita income (USD): 787.38

#### Investment

Sustainable natural resource management and green transformation



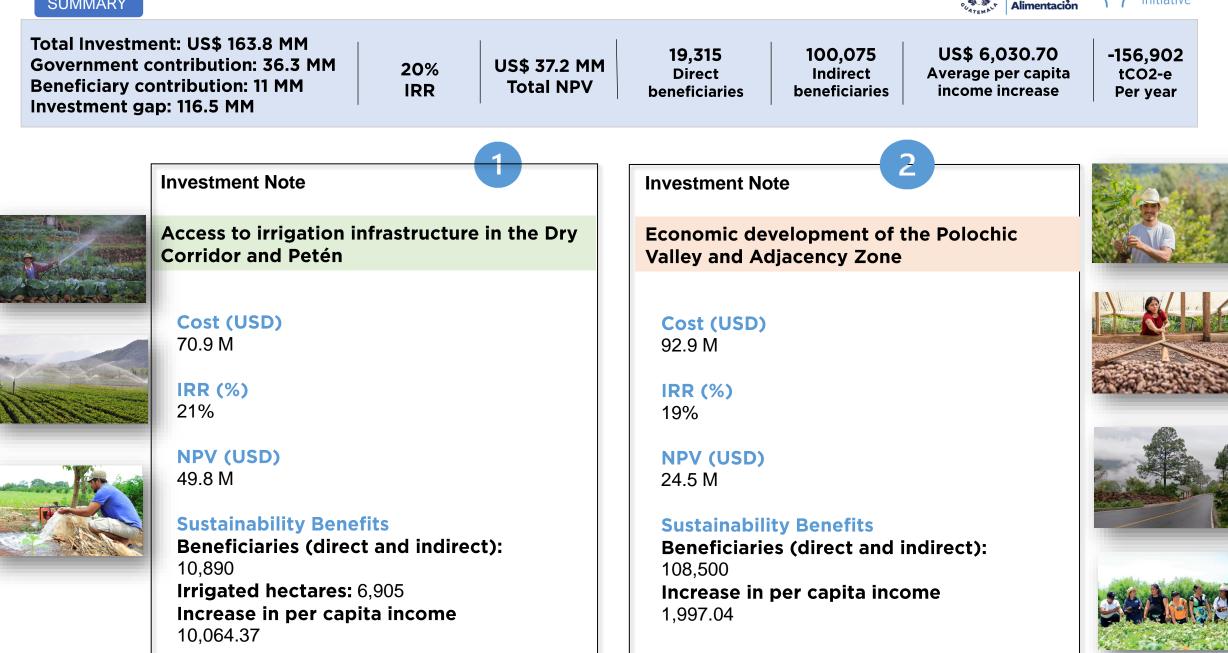
Direct beneficiaries: 12,500 Indirect beneficiaries: 62,500 Energy and riverbank forestry: 700 Ha Harvested water: 500,000 m3/año

IRR: 37%

**NPV (USD):** 1.8 M

Increase in yearly per capita income (USD): 235.29

#### SUMMARY



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Agricultura, Ganadería y

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Initiative