

Food and Agriculture Organization of the United Nations



Investment Forum | Rome, Italy | 18-20 October 2023

# Sustainable Investment Opportunities Lao PDR











Hand-in-Hand Initiative

## SECTION 1: OVERVIEW



## Lao PDR: Overview

- Country Area: 236,800 km<sup>2</sup>
- Population: 7.5 million (Young population: 60%)
- GDP: USD 16.51 billion (2022)
- GDP Growth Rate: 4% (2023)
- Cropland: approx. 22 % of land area
- Forest Area: 16.6 million ha
- Soil Type: Acrisols (73%), Cambisols (12%), 15% (other)
- Rainfall: 1200-2200 mm in plains, 3000 mm in the North
- Natural Disasters: Floods, Droughts, Earthquakes
- Climate: Tropical monsoon; few extremes of temperature and weather
- Farming Systems:
  - smallholder subsistence agriculture,
  - smallholder semi-commercial (cash crops, livestock)
  - commercial (plantations, livestock)
- Agriculture: 16.6% of GDP
- Employment: 58% of working population in agriculture sector



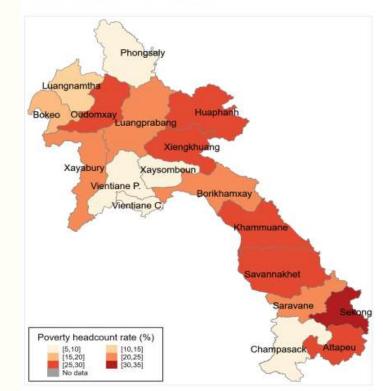






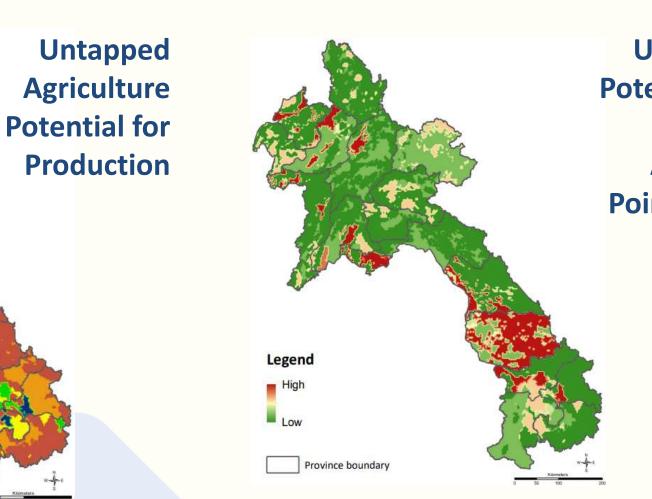
## Lao PDR: Poverty and Malnutrition

Poverty Rate: Gini Index: Poverty Rate - rural: Poverty Rate - urban: Children under 5 stunted: Children under 5 underweight: Children under 5 wasted: 18.23% <sup>(2023)</sup> 38.8 <sup>(2023)</sup> 23.8% <sup>(2019)</sup> 7% <sup>(2019)</sup> 33% <sup>(2023)</sup> 21% <sup>(2023)</sup> 9% <sup>(2023)</sup> Poverty by province: 2019





## Why invest in Laos? Untapped Agri-Production Potential and Investments in Agri-Products Value Chains and Businesses



Untapped Potential for Value Addition Points- Post Harvest

Hand-in-Hand

Initiative

Legend

High

Low

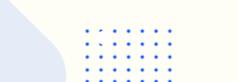
Province boundary





Hand-in-Hand Initiative

## SECTION 2: ENABLING ENVIRONMENT



Source: The world bank

Source: World Bank



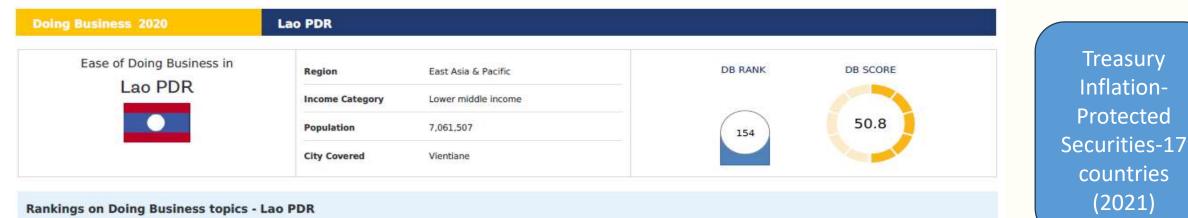
Hand-in-Hand

Initiative

Food and Agriculture Organization of the

United Nations

## **Ease of Doing Business**





## **Macro-Economic Stabilization**



### **MACRO-ECONOMIC INDICATORS**



YEARS

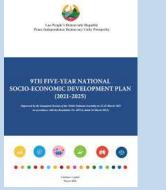
IMF Country Report No. 23/171





## **Development Policy & Planning Framework**

9<sup>th</sup> National Socio-Economic Development Plan (NSEDP 2021-2025) & Green Growth Strategy



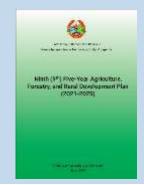
- Agriculture as driver of green & quality economic growth
- Prioritize sustainable investment in agriculture and green growth as critical and important development path for the country

Trade Facilitation Framework T4D (trade for development) Vision



- Part of Regional Comprehensive Economic Partnership (RCEP)-ASEAN+3
- **GSP status** with EU, Oceania and Canada
- **Tarif Free Agreements** for Lao goods with 6 countries including China
- FDI USD 677.7 million 2023

Agriculture Development Strategy (ADS) 2025 and Vision 2030



Prioritize **investments in agriculture and projected FDI needs** - estimated at USD 20 **Billion** across agriculture and forestry sector





Hand-in-Hand Initiative

## **Key Government Incentives**



### Fiscal incentives: Taxation

- No Capital Gains Tax
- Reduced Income tax
- Customs duties exemption

### **Investment Protection**

- Protection against expropriation
- Compensation against expropriation for emergency reasons
- Repatriation of assets and profits
- Access to capital



### Non-Fiscal incentives:

- Abundant and fertile land available
- Land lease facility available supported by
  - Land allocation masterplan
  - Agriculture Land Development Strategy
  - Green and Sustainable Agriculture Framework
- Affordable labour (USD 3 /day unskilled)\*



### Others

- Country of Origin Certification 1 day
- Investment License & Business Registration - 5 days
- Work Permit & Foreign ID card
- Tax registration
- Public utilities

## **Infrastructure Development**



- Special Economic Zones (SEZ)
  - 21 SEZs across the country
  - Domestic and foreign investments by more than 1,000 companies with total investment value of USD 23,51 billion and USD 4,57 billion is registered capital (2016-2020)
  - Multinational enterprises (MNEs) from China, Thailand, Japan, Malaysia and EU are operating in Lao PDR.
- Energy and water resources
  - The total installed energy capacity of the 94 power plants =11,664.14 MW
  - Generation of energy per year = 58,813 GW
  - Cost of energy per unit = USD 0.030 per kWh
  - Sufficient water resources: surface and underground water





### Land-linked, connectivity and Logistics



### **Logistics Park in main provinces**

Logistics and Export **Processing Zone** 



**Local and foreign Logistics** companies of international standards

### **26 Border Crossings**

- Thailand 14
- Vietnam 7
- China 3 •
- Cambodia 2 ٠



### Lao China high speed railways

- Transport cost reduced by 32%
- 8 freight stations



### 5% of GDP - Logistics sector



Food and Agriculture

Inited Nations

Hand-in-Hand

Initiative





Hand-in-Hand Initiative

## SECTION 3: HAND-IN-HAND INITIATIVE AND SUCCESS STORIES

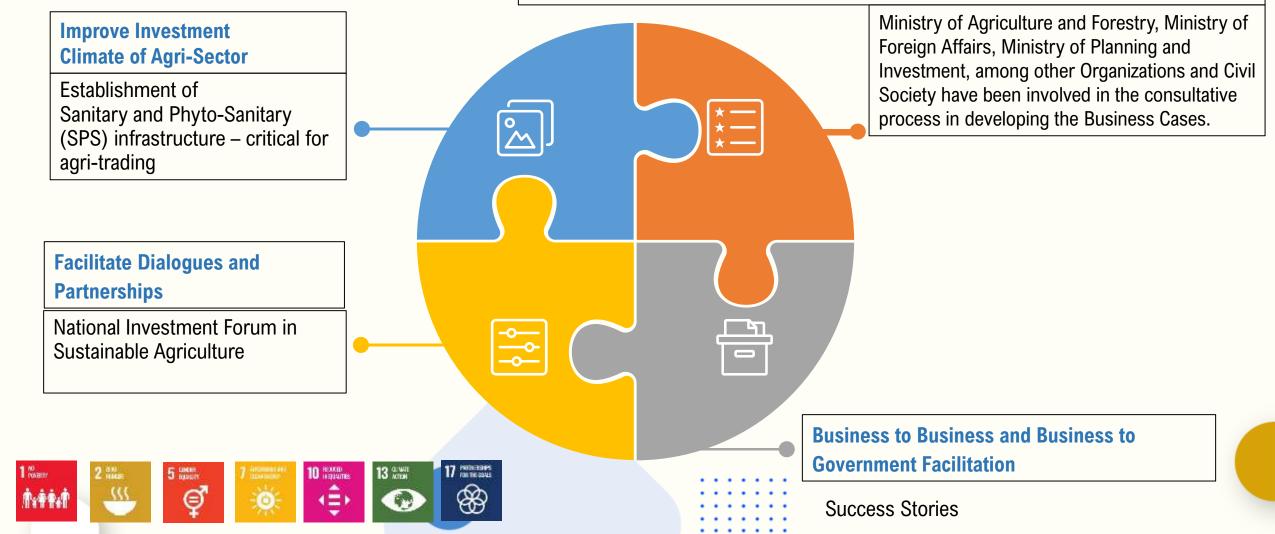


Source: The world bank

## Hand in Hand Approach in Lao PDR

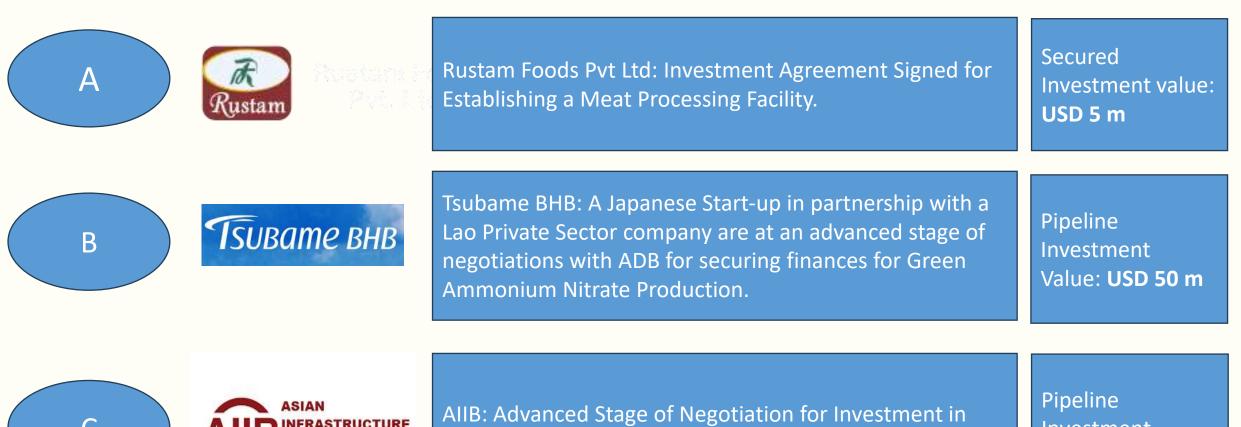


Government as a Whole Approach, Investments linked to Sustainable Development Goals (SDGs) and National Planning and Budgetary Processes



# Success Stories: With and Investments





ASIAN INFRASTRUCTURE INVESTMENT BANK

AIIB: Advanced Stage of Negotiation for Investment in Irrigation Infrastructure.

Pipeline Investment Value: **USD 15 m** 



## SECTION 4: SUSTAINABLE INVESTMENT OPPORTUNITIES

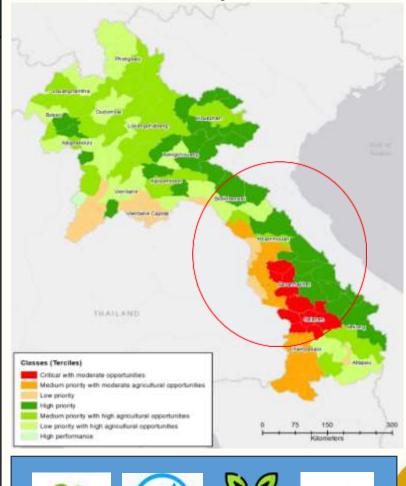
- Agro-Forestry Timber & Timber Products
- Agro-Forestry Non-Timber Forest Product (NTFP) : Cardamom
- Lao Organic and Geographical Indications (GIs) Teas

Possible Intercropping

## **Agro-Forestry Timber & Timber Products**



### **Proposed Locations**





The Market	Supportive Policy Frameworks	m
<ul> <li>Global market:</li> <li>Global Trade Value 2023: USD 748 billion</li> <li>Compound Annual Growth Rate (CAGR): 7.4%</li> <li>Regional Market</li> <li>China leading regional and global markets</li> <li>Import Value: USD 21.2</li> </ul>	<ul> <li>Domestic:</li> <li>Investment Promotion Law: agro-forestry on degraded and deforested land</li> <li>9th NSEDP target: restore 400,000 ha aiming at 70% of forest cover through promotion of land concession, land lease and contract farming</li> <li>Certification mechanism in place (Rules of Origin, Forest Stewardship Council, EU DR)</li> </ul>	Program 
<ul> <li>billion (2022)</li> <li>Domestic Market:</li> <li>Net Import Value (2018-22) Avg. USD 67 million.</li> <li>Products:</li> <li>Plywood, charcoal, flooring, sawn wood, pulp, furniture</li> </ul>	<ul> <li>Carbon credit decree</li> <li>Regional: ASEAN, Strategic Plan of Action on Forestry (SPAF) and Forest Law Enforcement &amp; Governance (FLEG)</li> <li>Global:</li> <li>EU's Regulation of Deforestation-free Products.</li> <li>EU regulations on discouraging community displacement</li> </ul>	Classes (Ferciles)         Chool with moderate opportunities         Medium priority with moderate agricultural opportunities         Lise priority         Wedium priority with high agricultural opportunities         Lise priority with high agricultural opportunities         High performance

. . . . . . .

## Agro-Forestry Investing in Timber & Timber Products





Hand-in-Hand

Investment Description				Impacts	<b>Risks and Mitigations</b>
Proposed land area for plantation: 60,000 ha by 2025Concessional Land Lease from Central Government: USD 10-30 ha/year for 30 yearsProposed Model: Poly-croppingProposed Species: Teak, Acacia Mangium, EucalyptusTimeframe: 30 years	USDUSD%1. Increased machine access (to El region)from Central ha/year for 30	<ol> <li>5,514 direct beneficiaries through employment</li> <li>2,880 villages engaged</li> <li>660,000 tonnes CO2 sequestered</li> <li>Carbon trading</li> </ol>	<ul> <li>Risk 1: Climate change and climate related disasters (flood, drought)</li> <li>Mitigation: Climate change adaptation/disaster risk management in place including alternate irrigation and drainage systems.</li> <li>Risk 2: Forest fires in dry season</li> <li>Mitigation: Fire risk management plan and necessary equipment in place.</li> </ul>		
Eucalyptus: plantation size 40,000 ha, harvest: 400 ha/year Acacia Mangium: plantation size 10,000 ha, harvest: 200 ha/year			income: USD 363 7. Estimated Indirect beneficiaries: 2,059,200	Assumption: Macro-economic stabilization continues. GDP growth rate stabilized from 2.6% to 4% in six months in 2023	
Teak: Plantation size 10,000 ha, harvest: 25 <sup>th</sup> year					

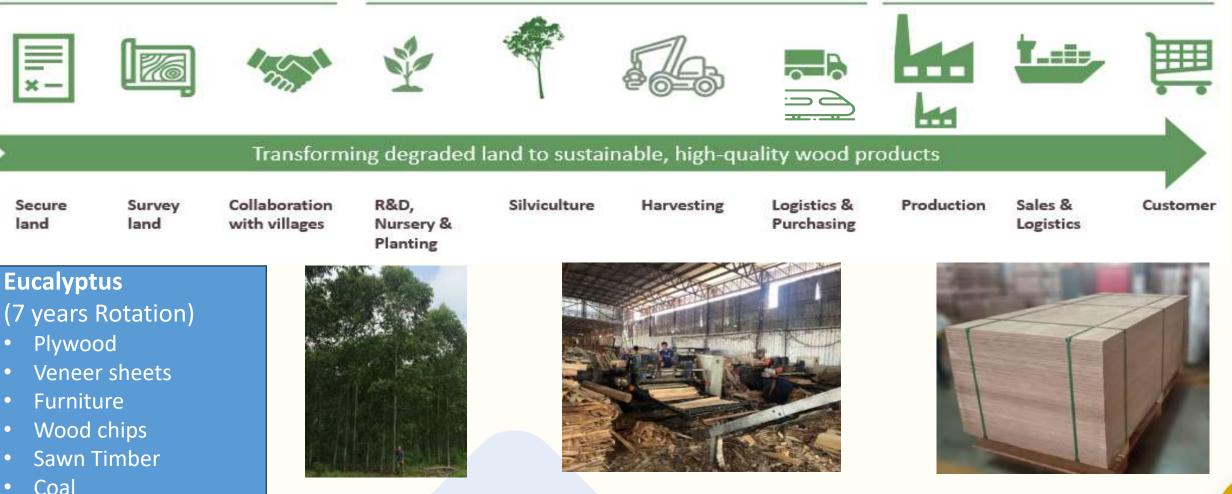
## Agro-Forestry Timber & Timber Product Value Chains

Bio-energy-residue

waste to wooden

pellets

•



Harvesting and Processing: Harvesting machinery, water logging ponds, water pumping during dry season and establishing a Sawing Mill and Plywood Factory: USD 20-30 million.

Hand-in-Hand

Initiative

Food and Agricultu

Organization of th





## Agro-Forestry Non-Timber Forest Product: Cardamom

## The Market

### **Global market**

- Global Trade Value 2023: USD 423 billion
- Compound Annual Growth Rate (CAGR): 4%

### **Regional Market**

- China leading regional and global markets. Used in over 100 traditional Chinese medicines
- Import Value of China: USD 85.64 million (2022)
- Lao Net Export Value: USD 44.5 million (2021)

### Farm-gate price

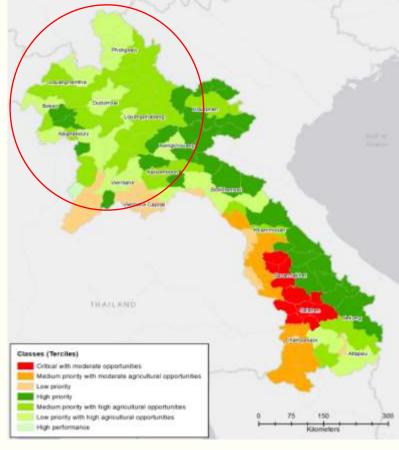
• USD 15-20/kg

Supportive Policy Frameworks					
Domestic:					
Investment Promotion Law					
• NTFP - one of the priority products					
specified in the ADS 2025 and Vision					
2030 and the National Plan of Action					
on Nutrition (2021-2025)					
Revised Law on Forest (2019)					
Certification mechanism in place					
(Rules of Origin)					

**Regional**: ASEAN Sustainable Harvest Guidelines and Resource Management Protocols

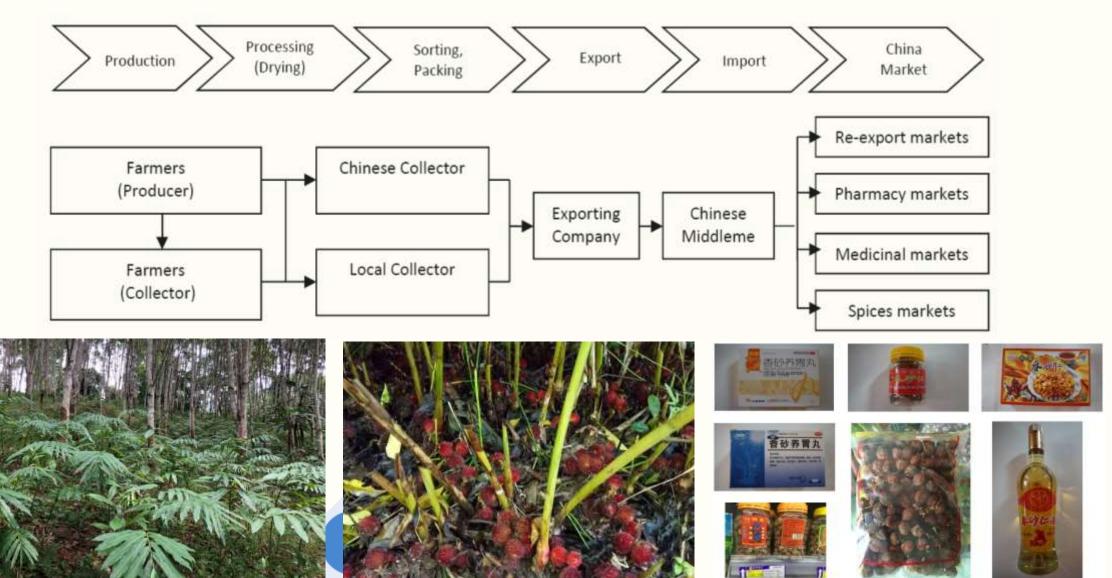
. . . . . . .







## Agro-Forestry Non-Timber Forest Product: Cardamom value chain

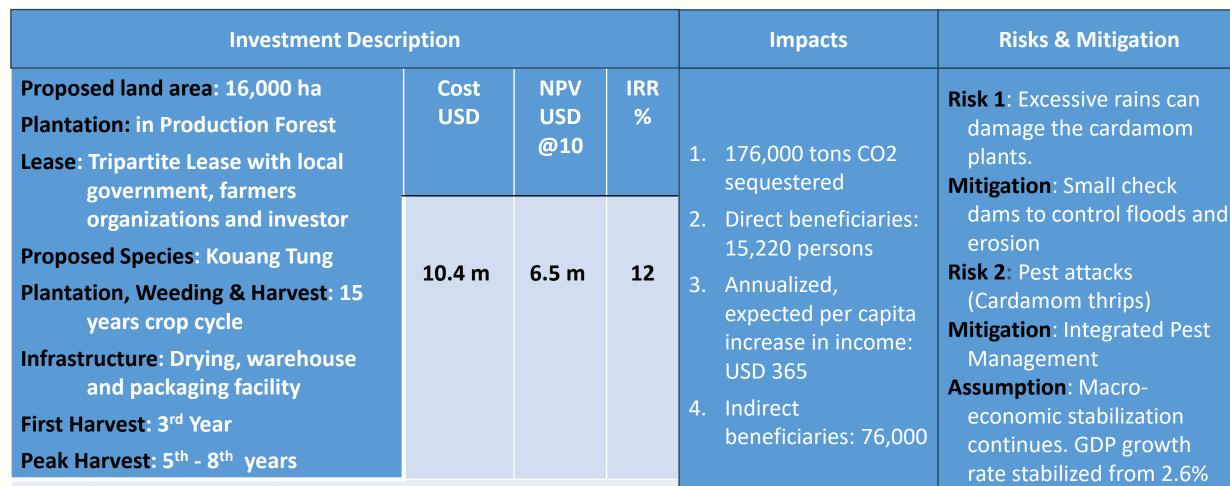


## Agro-Forestry Investing in Cardamom



to 4% in six months in

2023



Drying, Packaging, Export to Regional and Global Markets via China and Thailand using Lao-China Railways

## Lao Organic & Geographical Indications (GIs) Teas

### The Market

### **Global market**

- Growing global demand of organic products. Global Trade Value 2023: USD 494.3 million
- Compound Annual Growth Rate (CAGR): 16.4%

### **Regional Market**

- A beverage of choice in Asia
- China imported USD 147 million worth of tea (2022).
- Net Export Value of Lao organic tea: USD 3.44 million

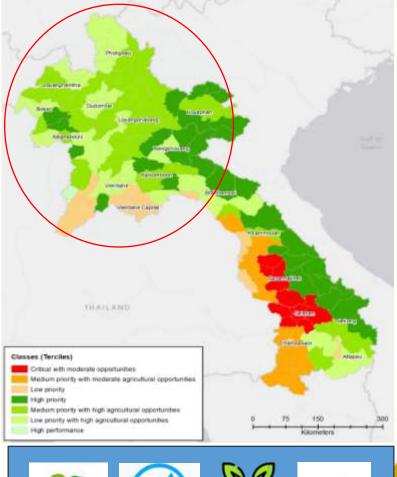
### **Domestic Market:**

 Retail Price of organic tea ranges from USD 2.5/kg to USD 4.25/kg Supportive Policy Frameworks

### Domestic:

- Investment Promotion Law
- 9<sup>th</sup> NSEDP: sustainable forest management as an outcome
- Revised Law on Forest (2019)
- Certification mechanism in place (Rules of Origin)
- Geographical Indications (GIs) system in place fetching 20-50% higher price

**Regional**: ASEAN Sustainable Harvest Guidelines and Resource Management Protocols









### Lao Organic & Organization of the United Nations **Geographical Indications (GIs) Tea Value Chain**



Forest







Harvesting

Drying

Packaging, Storage and Wholesale



ood and Agriculture

Hand-in-Hand

Initiative





## Investing in Lao Organic & Geographical Indications (GIs) Teas





Investment Description			Impacts	<b>Risks &amp; Mitigation</b>	
Unit of Land Lease: 1,000 ha Production Forest Lease: Tripartite lease agreement between local government, farmers organizations and investor	Cost USD	NPV USD @10	IRR %	<ol> <li>2,428 direct</li> <li>beneficiaries</li> <li>11,000 tons CO2</li> </ol>	Risk: Fragile eco-system may be disturbed. Mitigation: Training and support farming communities on eco-
Species: Organic GI Tea Timeframe: 15 years Infrastructure: processing, warehouse and packaging facility Harvesting/picking season: 3 periods: Mar – May, Jun-Aug, Sep-Nov	10 m	6.5 m	11.8	<ul> <li>sequestered</li> <li>Annualized, expected per capita increase in income: USD 362</li> <li>Estimated Indirect beneficiaries: 82,180</li> </ul>	system preservation for households incomes. Assumption: Macro- economic stabilization continues. GDP growth rate stabilized from
Conversion rate: 5 kg fresh leaves to 1 kg of dried tea Current tea products: Rough tea (Mao Cha), green tea, red tea, tea cake				persons	2.6% to 4% in six months in 2023

. . . . . . .

## **Investment Summary**





		Image: Second
<u>Intervention</u> Agro-forestry (Timber & Timber Products in degraded land)	2 <u>Intervention</u> Agro-Forestry (NTFP-Cardamom)	Intervention Organic and Geographic Indications (GIs) Teas
Total degraded land available: 400,000 ha by 2025 with 200,000 ha allocated for 2021-25 Investment need: USD 1.46 billion	Total forest area available for Cardamom: 80,000 ha for next 5 years Investment need: USD 52 million	Total available land for cultivation of all types of tea: 10,000 ha Investment need: USD 1 billion
Proposed investment (60,000 ha by 2025): USD 157 million - IRR - 17% - NPV - USD 26 million (@ 10% discounted)	Proposed investment (16,000 ha): USD 10.4 million - IRR - 12% - NPV - USD 6.5 million (@ 10% discounted)	Proposed investment (1,000 ha): USD 10 million - IRR - 12% - NPV - USD 6.5 million (@ 10% discounted)
<ul> <li>Sustainability Benefits:</li> <li>Reforestation of degraded land.</li> <li>Carbon sequestering: 660,000 tons</li> <li>Estimated direct beneficiaries: 5,514</li> <li>Estimated indirect beneficiaries: 2,059,200</li> <li>GDP/capita increase of direct beneficiaries: USD363</li> <li>SDGs: 13, 1, 2, 10 &amp; 17</li> </ul>	<ul> <li>Sustainability Benefits:</li> <li>Poverty reduction for remote forest-dependent communities and ethnic minority groups.</li> <li>Carbon sequestered: 176,000 tons</li> <li>Estimated direct beneficiaries: 15,220</li> <li>Estimated indirect beneficiaries: 76,000</li> <li>GDP/capita increase of direct beneficiaries: USD 365</li> <li>SDGs: 13, 1, 2, 5, 10 &amp; 17</li> </ul>	<ul> <li>Sustainability Benefits:</li> <li>Poverty alleviation in remote forest communities.</li> <li>Carbon sequestered: 11,000 tons</li> <li>Estimated direct beneficiaries: 2,428</li> <li>Estimated indirect beneficiaries; villagers engaged: 82,180</li> <li>GDP/capita increase of direct beneficiaries: USD362</li> <li>SDGs: 13,1,2,5, 10 &amp; 17</li> </ul>