Commercial Agriculture for Smallholders and Agribusiness

Sustainable and inclusive growth opportunities for Cambodia's agriculture sector: Executive summary March 2023



Foreign, Commonwealth & Development Office





Executive summary

Agriculture is a core contributor to Cambodia's ambitions of becoming a higher income country, but faces challenges

Cambodia needs to unlock significant agriculture investments to promote inclusive and resilient growth

Facilitating investments and assistance for processors, Fls, and agri. MSMEs through accelerators is critical to drive SHF inclusivity and climate resilience

- Agriculture is crucial to Cambodia's ambitions of becoming an upper-middle income country by 2030 and high-income by 2050, given the sector is ~23% of GDP and 35% of the workforce, including most in rural areas
- To achieve such ambitions, the agriculture sector needs to:
 - Drive farmer revenues and resilience across strategic value chains the sector is dominated by rice (~40% of production), faces significant MFI debt burden, and is highly susceptible to climate change impacts
 - Evolve from agricultural production to increasing value addition across strategic value chains only 10% of outputs are processed locally, and <10% of farmers are estimated to be in formal outgrower programs
- More financing is needed to drive inclusive and sustainable growth for strategic value chains (i.e., rice, cassava, mango, cashew, vegetables, poultry, maize pepper), however critical gaps exist:
 - Inclusive and resilient solutions for SHFs: Few investments in agri. MSMEs (non-processors) with inclusive / resilient solutions ("impact-driven agri. MSMEs") due to lack of "investment readiness" and limited linkages
 - <u>Processing:</u> Given high processing costs vs. neighboring countries, there is limited domestic processing and investment today, which impacts local processors' abilities to enact SHF outgrower schemes
 - <u>Access to affordable SHF financing</u>: FIs offer loans to SHF/AC at high interest rates and with stringent collateral requirements due to higher risks involved, leading to significant SHF debt burden
- There are three **recommended investment opportunities to** drive SHF inclusivity and climate resilience:
 - Impact-driven agri. MSMEs (non-processors): Finance existing or new accelerators, and build linkages between accelerators, investors, and donors who provide grants
 - Local processors: Provide TA to local processors who exhibit high potential to build effective smallholder farmer outgrower schemes and investor attractiveness
 - <u>Financial Institutions</u>: Work with FIs to build and implement value chain financing models (e.g., unsecured lending, lower interest rates, etc.) that benefit smallholder farmers

Agriculture is a core contributor to Cambodia's ambitions of becoming a higher income country, but faces serious climate and inclusivity threats



1. Based on 936 farming contracts in 2020 and estimated ~200 farmers per agricultural cooperative. Data provided by 2022 Mekong Region Land Governance / CPSA study Sources: Stakeholder interviews, Ministry of Economy and Finance, Coalition of Cambodian Farmer Communities (CCFC), Mekong Regional Land Governance, CPSA, World Bank, Open Development Cambodia, Asian Development Bank

Commercial Agriculture for Smallholders and Agribusiness

BUSINESS SOLUTIONS TO POVERTY

While rice is the dominant sector, inclusive and resilient growth across other strategic value chains are required to meet Cambodia's income growth ambitions

Strategic value chain	Sector value (USD MM) ¹	% growth p.a. (2017-2021) ²	% processed locally ³	Export exposure	Est. # SHF ('000s) ⁴	Opportunity to tackle climate resilience
⊘∂ Rice*	\$2,600	9%	10%	High	~2,000	High – significant losses and reduction in quality (e.g., >50% in some regions) due to erratic rainfall and drought
Cassava*	\$1,200	3%	<10%	High	~200	High – due to common misuse of inputs (e.g., fertilizer), soil degradation is prevalent (>66% reduction in yields after year 3 of growing cassava)
() Mango*	\$260	2%	<10%	High	~200 ⁵	High – significant losses and decrease in quality due to heavy unexpected rainfall impacting flowering cycles, and limited climate-resistant seeds
Vegetables*	\$166	>100%	_	Low	<200	High – higher temperatures can severely impact vegetable production (i.e., especially if net houses are not used to mitigate such effects)
Maize*	\$110	30%	20-40%	Medium	~150	Medium – significant water needs, which may be at risk if water shortages increase (e.g., 2021 drought in Pailin and Kampot)
.‱ Pepper*	\$91	50%	10%	High	~40	Medium – at risk of significant and continuous erratic rainfall as well as higher temp. (e.g., pepper plants can't survive 14 consecutive days of rain)
چ (Cashew*	\$75	>100%	<8%	High	<150	High – significant losses and decrease in quality due to heavy unexpected rainfall impacting flowering cycles, and limited climate-resistant seeds
င့် Poultry	Limited data	a 40%	_	Low	<1,000 ⁶	Medium – risk of higher temperatures potentially leading to an increase in prevalence of poultry diseases and lower survival rates
Total / average	~ \$4,500 (75% of agri. GDP	~14 70	~10%			

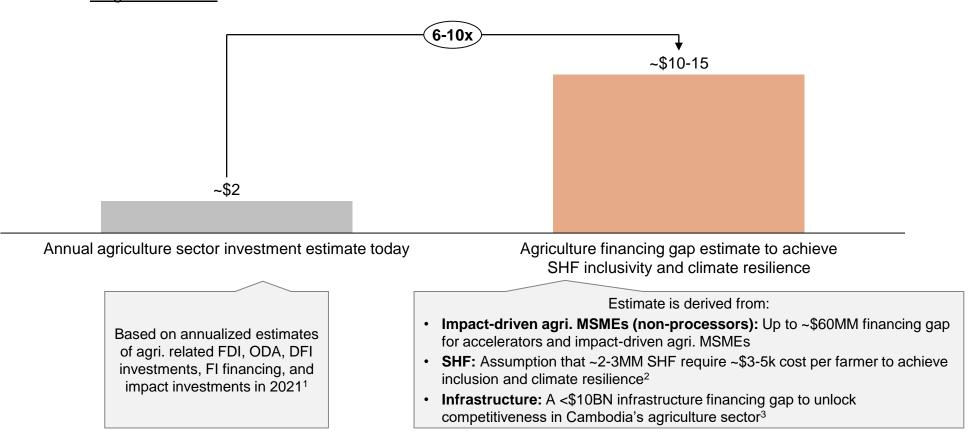
* MAFF listed as priority crop in Master Plan for Crop production by 2030

1. Based on Development of Master Plan for Crop Production in Cambodia to 2030; 2. Largely based on FAO data on quantity produced in 2017 vs. 2021; 3. Including processed by foreign companies operating in Cambodia; 4. Data represents rough, directional estimate given lack of official gov. data on # SHF. A majority of all farmers in Cambodia are SHF, which applies to value chains listed above, and farmers can grow more than one crop; 5. UN FAO 2021; 6. Primarily "backyard" small-scale farming; Sources: Stakeholder interviews, Phnom Penh Post, Asian Development Bank, National Institute of Statistics, MAFF, FAO; Note: All numbers listed above are rough estimates given data / source limitations



An estimated 6-10x the current level of annual financing is needed to achieve SHF inclusivity and climate-resilience in the agriculture sector

Estimated agriculture financing needs in Cambodia to achieve SHF inclusivity and resilience \$BN USD – estimates are rough / directional



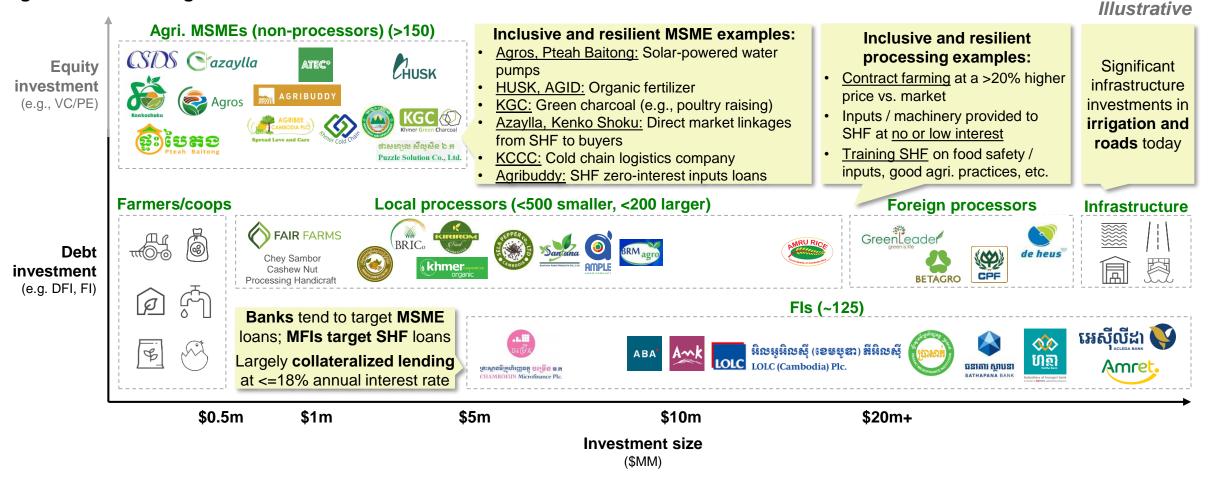
1. NBC annual data used to estimate loans originated in 2021 for FIs, NBC and CDC data estimated to determine loans originated in 2021 for FDI, Kingdom of Cambodia's ODA database for ODA disbursement in 2021, and ADB's Cambodia's Ecosystem for Technology Startups 2019 study for local impact investors. Note that informal financing amounts are not captured above; 2. Based on CASA SHF analysis – note that SHF can achieve inclusivity and climate resilience either through outgrower schemes with processors and/or affordable FI financing; 3. Based on The Global Infrastructure Hub estimates; Source: Stakeholder interviews, CASA analysis





There are different types and sizes of investment needs across the agriculture sector to promote inclusive and climate-resilient growth

Agriculture financing needs in Cambodia



1. DFIs only invested in <5 rice processors historically, one of which went bankrupt

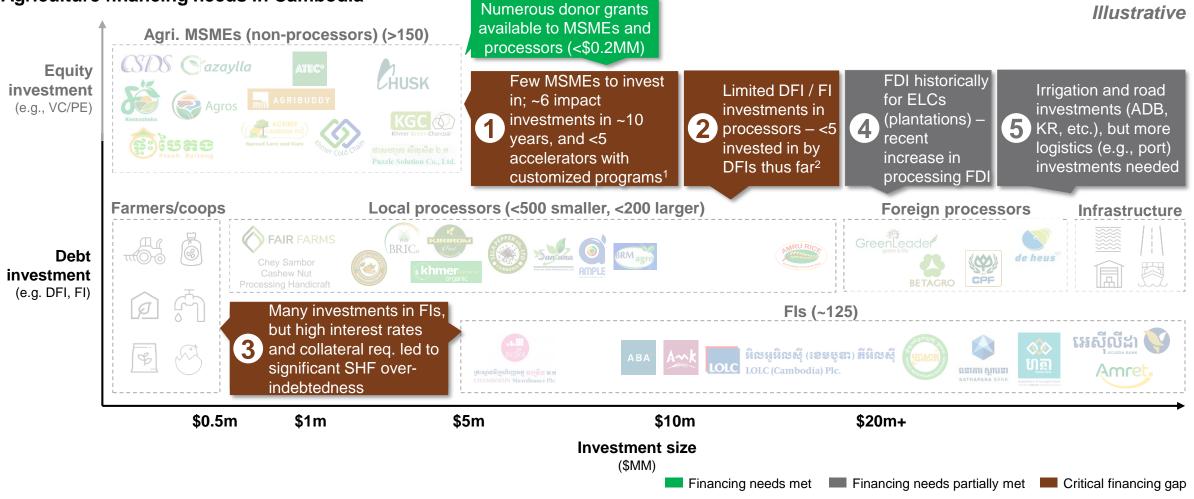
Note: Despite investments gaps, an observation noted by stakeholders interviewed is most agri. MSMEs appear to be run by individuals with the financial means to invest their own capital into their business



Critical investment gaps for agri. MSMEs, local processors, and FIs need to be addressed to enable smallholder farmer inclusion and climate resilience

Agriculture financing needs in Cambodia

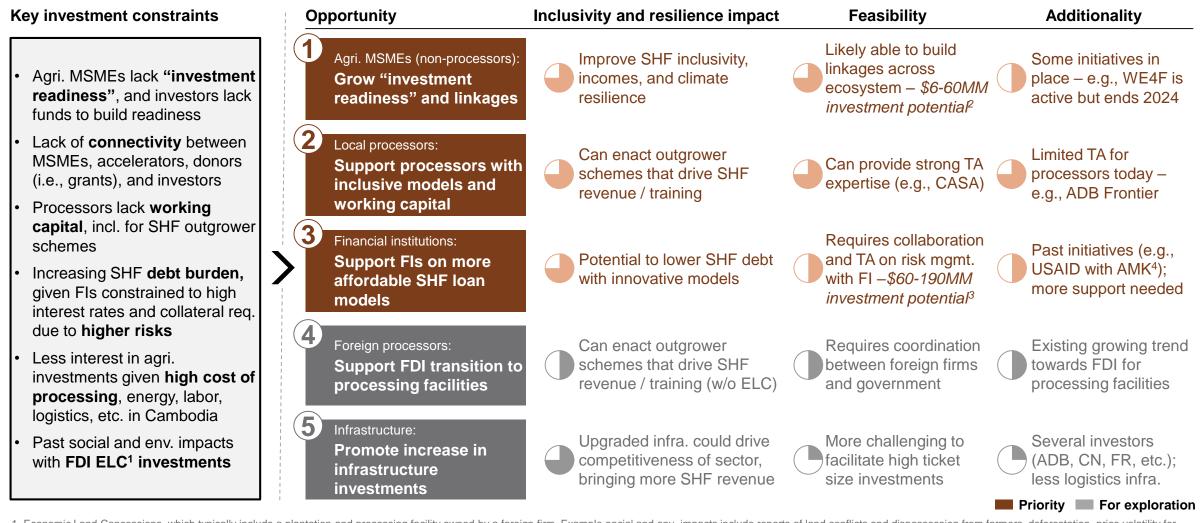
BUSINESS SOLUTIONS TO POVERTY



1. Based on six prominent impact investors' portfolios in Cambodia and research on accelerators who offer longer-term and customized / tailored programs to MSMEs; 2. DFIs only invested in ~3 rice processors historically, one of which went bankrupt Note: Despite investments gaps, an observation noted by stakeholders interviewed is most agri. MSMEs appear to be run by individuals with the financial means to invest their own capital into their business



The most promising investment opportunities focus on building linkages to facilitate agri. MSME investments and supporting inclusive processor and FI models to drive SHF revenue



1. Economic Land Concessions, which typically include a plantation and processing facility owned by a foreign firm. Example social and env. impacts include reports of land conflicts and dispossession from farmers, deforestation, price volatility for farmers, etc.; 2. Based on impact investor ranges and stakeholder interviews; assuming ~50 businesses to invest in; 3. Based on past DFI investments; assuming <20 FIs to invest in at \$10-15MM each; 4. USAID supported AMK with developing a value chain financing model; Source: Stakeholder interviews



Recommend prioritizing the development of "investment readiness" for impact-driven agri. MSMEs, best-practice processor outgrower schemes, and innovative FI models for SHF

Opportunity	Recommendation	Key stakeholders	Fact base and case studies
Agri. MSMEs (non-processors): Grow "investment readiness" and linkages	<u>Finance</u> existing/new customized <u>accelerators</u> <u>Build linkages</u> between accelerators, investors, and donors who provide grants	Impact-driven agri. MSMEs, donors, NGOs, accelerators, investors, government	 MSME business profiles Options for financing and linkages Case studies: Platform Impact, WE4F, Agros, HUSK
Processors: 2 Support processors with inclusive models and working capital	Provide <u>TA</u> to local processors who exhibit high potential to build effective <u>outgrower schemes</u> and <u>investor attractiveness</u>	Processors, donors (e.g., CASA), DFIs, FIs	 Potential financing options Contract farming deep dive Case studies: AMRU, BRM Agro, HCST, AMPLE Agro, KOC
Financial institutions: Support FIs on more affordable SHF loan models	Work with <u>FIs</u> to build and implement <u>value</u> <u>chain financing models</u> (e.g., unsecured lending, lower interest rates, etc.)	Fls, donors, DFls	 Current situation of SHF lending Value chain financing model Case study: AMK, AC
Foreign processors: 4 Support FDI transition to processing facilities	Raise awareness of processing facility investment opportunities	Foreign processing firms, donor (e.g., DBT), government	 Past foreign investments Case studies: CPF, Hyundai, Green Leader
5 <i>Promote increase in infra. investments</i>	Promote investments in <u>logistics infrastructure</u> projects with DFIs	DFIs, government	• Past infrastructure investments

Priority For exploration





Deep dive: "Investment readiness" support needs to be provided to impact-driven agri. MSMEs via customized accelerator programs that are connected to prospective investors

Recommended approach

Donor or investor finances existing (or sets up new) accelerators

- Of ~15 accelerators, ~4 provide customized support to ~4 agri. MSMEs each, however there are up to 100 agri. MSMEs in Cambodia¹
- Donor or investor finances, or sets up, an accelerator²
- Accelerator provides customized TA (incl. in Khmer to remove language barrier) to grow "investment readiness" for impact-driven agri. MSMEs (e.g., pitch documents, growth strategy, financials, corporate gov., etc.)

Build linkages between accelerators and investors

Potential implementation methods:

- <u>Option 1:</u> Convening bodies (e.g., Khmer Enterprise, Grow Asia) establish, or grow existing, forum for accelerators and investors
- Option 2: Donor supports targeted 1:1 partnerships between an accelerator with a "best-fit" investor based on investment criteria (e.g., <\$300k equity investments in a specific sector)

Investor invests in "investment ready" agri. MSME

 Investors utilize accelerators' investment pipelines to source investments

Examples

WATER ENERGY WATER

PLATFORM

With support from Oxfam and **Khmer Enterprise**, Platform Impact/**PRISME** accelerator **provides investors** (e.g., Insitor) with **deal information** on impact-driven agri. MSMEs its working with to build "investment readiness"

1. "Customized" support is defined as longer-term support tailored to a specific MSME (vs. group trainings). Note that the ~100 agri. MSMEs does not count for whether the business is "impact-driven" or not; 2. An NGO may support the donor in setting up an accelerator; Sources: Stakeholder interviews, Water Energy for Food Programme, Development Asia





Deep dive: Technical assistance is needed to develop local processors' inclusive and climate-resilient business models to attract more investments and benefit SHF

Example processors¹ (non-exhaustive)



Leading rice (incl. organic), cassava, etc. producer with contract farming, regenerative agri., etc.; received **many private investments and TA** (e.g., IFC, FMO/DFCD, USAID, Ex-Im Bank, EMIA, etc.)



Rice (incl. organic) producer with **zero-interest SHF loans**, **climate-resilient seed testing**, contract farming, etc.; has <\$2MM USAID partnership, seeking **~\$7MM investment**



Cashew (incl. organic) , mango, pepper, etc. processor that sells SHF inputs, runs **contract farming**, **training**, etc. and has buyers asking for more production; seeking **~\$6MM investment**



Emerging cashew (incl. organic) processor with pre-harvest **zero-interest SHF loans**, **>25% higher** price on contract farming, **80% female** staff, etc. and has buyer asking for more production; seeking **~\$3MM investment**

Recommended approach for donor programs (e.g., CASA)

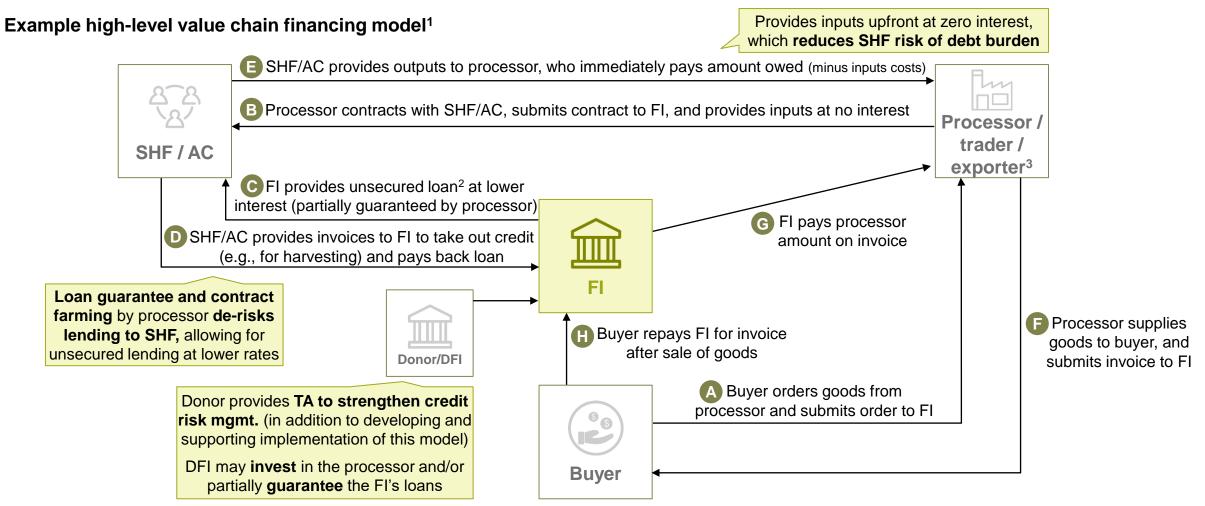
- Of the <500 smaller and <200 larger processors² in Cambodia today, identify processors who exhibit strong demand from buyers, interest in building inclusive and climate-resilient models for SHF, business integrity standards, etc.
- **Provide TA** to identified processors to build or enhance existing outgrower schemes with SHF and climate-resilient practices, such as:
 - Holistic outgrower financing (e.g., pre-financing inputs at no interest)
 - Enhanced focus on gender inclusivity (e.g., female contract holders)
 - Data analysis and metrics reporting on inclusivity and resilience
 - ...
- Develop **robust cases for processor investment** given models of inclusivity and resilience (e.g., pitch deck, supporting analysis, etc.)
- Facilitate investments, particularly working capital, in such processors from DFIs and FIs (e.g., connect processors to investors)

1.Note: Contract farming listed in above examples is often through agricultural cooepratives; 2. Estimates for this study's strategic value chains and based on stakeholder interviews, CRF, CAC, Phnom Penh Post, etc.; Sources: Stakeholder interviews, AMRU Rice, BRM Agro, AMPLE Agro, HCST, Grow Asia, USAID, Ex-Im Bank, IFC, SNV





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1. Note that traders and other potential players in the value chain were not shown in the above diagram for simplicity. In addition, this is one of many possible value chain financing mechanisms; 2. Another alternative is to provide a warehousing financing receipt as collateral (e.g., use farmers' machinery or stored crop outputs as collateral); 3. Ideally the processor would enact contract farming, however a majority of outputs are currently informally traded to neighboring countries, so SHF may also contract with such traders / exporters





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