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ASEAN-CRN Knowledge Exchange Event and Partners Meeting

28 – 30 March 2023 | Amari Watergate Bangkok





Welcome and check-in



Programme Roadmap

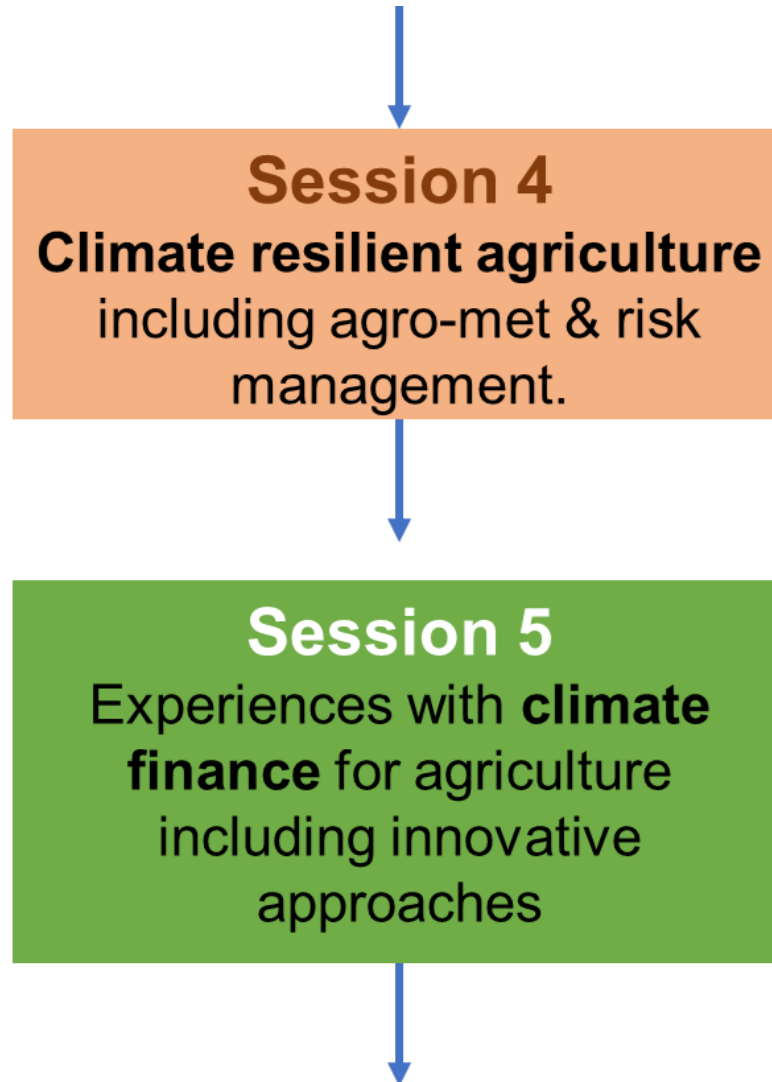


Session 1
Introduction including objectives and scientific & UNFCCC foundations



Programme Roadmap

Day 2



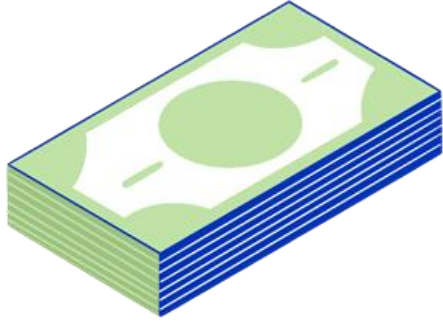
Programme Roadmap



Session 6

Partnership Forum

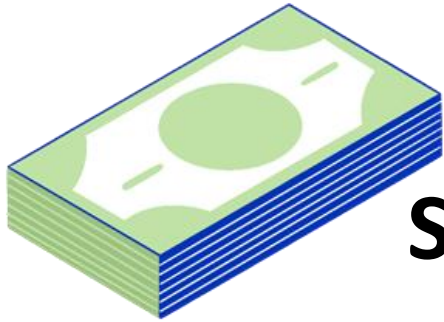
Day 3



Session 6

**Taking forward finance and
implementation options**





Session 6: 09.15-09.45

**Finance and implementation options to take forward KJWA in the region:
Introducing the SEA GCF Readiness Grant to advance country priorities**

Beau Damen
FAO



Food and Agriculture
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Overview:

Agriculture Sector Readiness for enhanced climate finance and implementation of Koronivia Joint Work on Agriculture priorities in Southeast Asia & related initiatives in Thailand

March 2023

Beau Damen – Natural Resources Officer, FAO



Summary

Participating countries:	Cambodia, Malaysia, Laos, Thailand, Philippines, Vietnam
Approved:	31 August 2022
Implementation years:	(2022), 2023, 2024, (2025)
Total budget including regional activities and technical support:	USD 2.7 million
Total budget for implementation at country level (per country):	USD 278,195
Countries to endorse project start:	Cambodia, Philippines, Thailand
Initial budget disbursement from GCF:	Yes - as of 24 March 2023



Background

- ASEAN Member States **have** outlined concrete, regional **Common Positions** to advance climate action in agriculture under the **Koronivia Joint Work on Agriculture** including:
 - Scaled-up **finance** for implementation of climate action in agriculture,
 - Improved **access to technology**
 - Improved **capacity to implement and monitor** national and regional priority actions;
 - Increased support for actions at **multiple scales** – local, national, regional, etc.



Barriers to climate action at national and regional levels



1. Sector scale and farmer burden when adopting measures to address climate change

- Agriculture lags behind other sectors in adopting technological innovations due to factors including, but not limited to, the geographical scale of the sector, the large number of actors involved and the costs and risks to farmers in adopting new technologies and practices

2. Fragmentation in planning and monitoring climate action in agriculture

- Ongoing initiatives are often fragmented across multiple agencies

3. Accessing finance and engaging the private sector

- Finance mechanism(s) do not often address the specific needs of agriculture sectors (e.g. risk burden of small holders) or engage private sector



Green Climate Fund



- **GCF** is the world's largest dedicated fund established to help developing countries reduce their greenhouse gas (GHG) emissions and enhance their ability to respond to climate change
- The **GCF Readiness and Preparatory Support Programme** (Readiness Programme) supports country-driven initiatives for a transformational long-term climate action agenda
- GCF has indicated **willingness to support** countries with KJWA priorities

Part of the financing mechanism of the UNFCCC in 2010.



- Readiness projects must use the wording and numbering of the outcomes as laid out in the GCF Readiness Guidebook

Objective 1 Capacity Building

Objective 2 Strategic Frameworks

- **Outcome 2.1** - GCF recipient countries have developed Country Programmes to guide GCF investment and programming of readiness support resources

Objective 3 National Adaptation Plans and Adaptation Planning Processes

Objective 4 Pipeline Development

- **Outcome 4.1** - An increase in the number of quality project concept notes developed and submitted

Objective 5 Knowledge sharing and learning

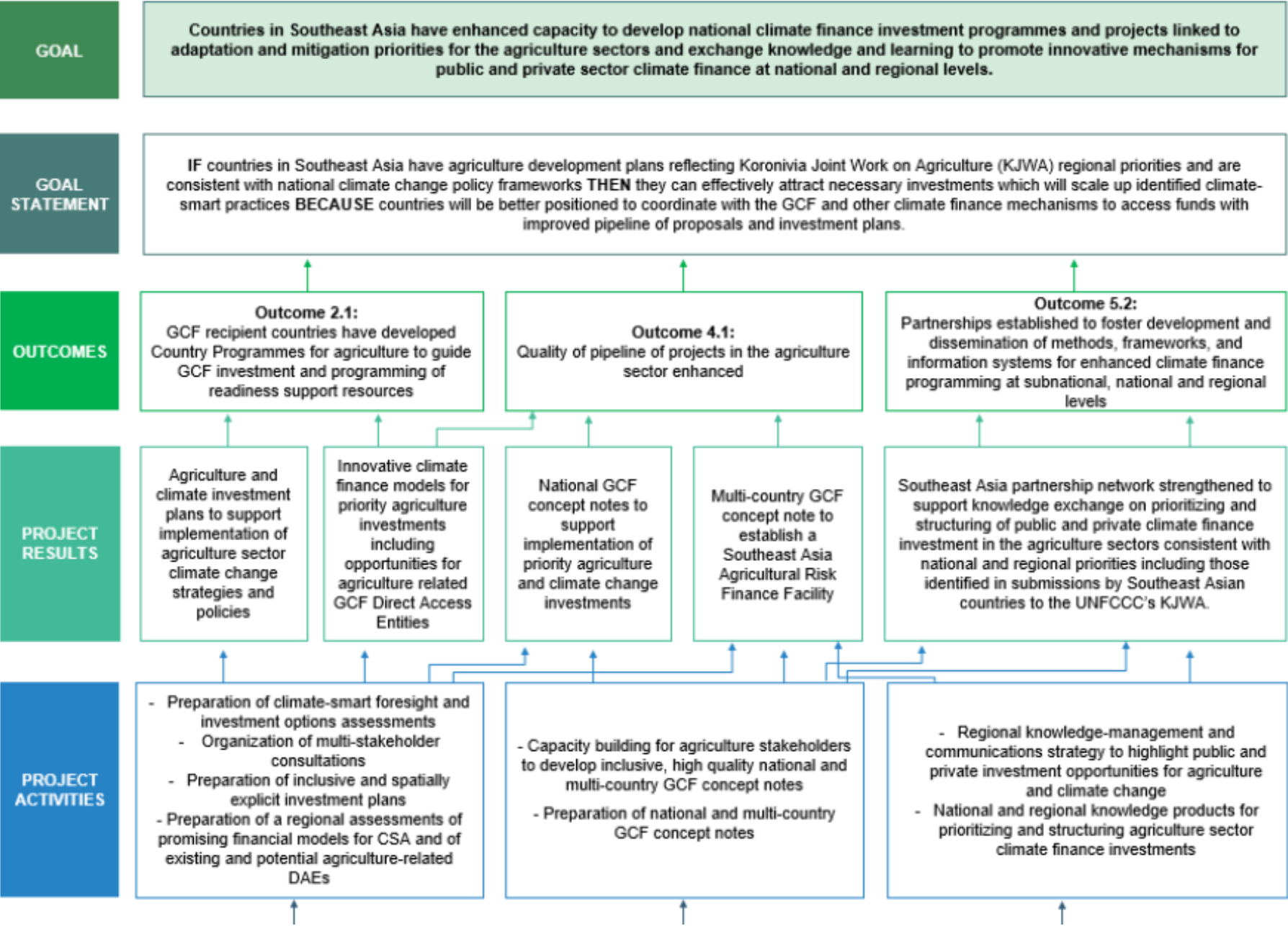
- **Outcome 5.2** - Partnerships established to foster development and dissemination of methods, frameworks, and information systems for enhanced climate finance programming at subnational, national, and regional levels





IF Southeast Asian countries have agriculture development plans reflecting KJWA regional priorities and are consistent with national climate change policy frameworks **THEN** they can effectively attract necessary investments that will scale up identified climate-smart practices **BECAUSE** countries will be better positioned to coordinate with the GCF and other climate finance mechanisms to access funds with an improved pipeline of proposals and investment plans.

Full Theory of Change



Full Theory of Change

BARRIERS, RISKS

- Adoption of new technologies and practices can be both costly and risky to farmers and other actors along the value chain.
- Finance mechanism(s) do not often address the specific needs of agriculture sectors.
- Actors in the agriculture sectors also lack awareness of climate finance opportunities and how they can be accessed.

- Public climate finance specifically allocated for agriculture, forestry, land use and natural resources management is insufficient to meet the magnitude of the climate change challenges faced within the sector.
- Formulation of project ideas require technical competencies often not available to in smallholder farmers' or farming groups.

- Finding ways to better integrate smallholders into national and regional markets for sustainable, climate-friendly agricultural products is an important way to enhance the durability of public sector support to the agriculture sector.
- Entry points for engaging the private sector more strongly in climate action in agriculture are not well understood by governments and other sector actors.

ASSUMPTIONS

- Farmers and governments desire scaling up of investments for climate-smart agriculture practice.
- Climate impacts of sustainable agriculture is understood.
- Appropriate representatives and champions are involved in development of investment packages.

Public, private and civil society actors are eager to influence national agriculture and climate investment plans and access climate finance.

Information and capacity can be accessed to prepare GCF concept notes.

National level stakeholders want to push forward a regional investments on agriculture and climate change.

Knowledge products highlight actual learnings from the whole process so that relevant stakeholders want to act on the recommendations.

Common climate change goals are understood and accepted.

Regional networks can adapt to strengthen public/private partnerships to invest in agriculture and climate change.



Outcome 2.1:

GCF recipient countries have developed Country Programs for agriculture to guide GCF investment and programming of readiness support resources

Output 2.1.1

Investment plans formulated to support achievement of climate change policy goals for the agriculture sector prioritized

Output 2.1.2

Innovative climate finance models for priority agriculture investment packages, including DAEs, developed in consultation with national and regional public/private sector partners

Project Activities

- **National** participatory, agriculture and climate foresight and climate smart options assessments
- **National** investment plans
- **Regional** multi stakeholder consultation
- **Regional** assessment of Direct Access Entities
- **Regional** assessment of Identify innovative finance models



Outcome 4.1:

Increased number
of quality project
concept notes
developed and
submitted

Output 4.1.1

Climate finance investment
concept notes to achieve
climate impacts in the
agriculture sector developed

Output 4.1.2

Multi-country climate finance
concept note to establish a
Southeast Asia
Agricultural Risk Finance
Facility developed

Project Activities

- **National** pre-feasibility assessments
- **National** investment concept notes building on ag investment roadmaps and packages
- **National** capacity building on GCF requirements
- **Regional** pre-feasibility assessment of risk facility



Outcome 5.2:

Partnerships established to foster development and dissemination of methods, framework, and information systems for enhanced climate finance programming at subnational, national and regional levels

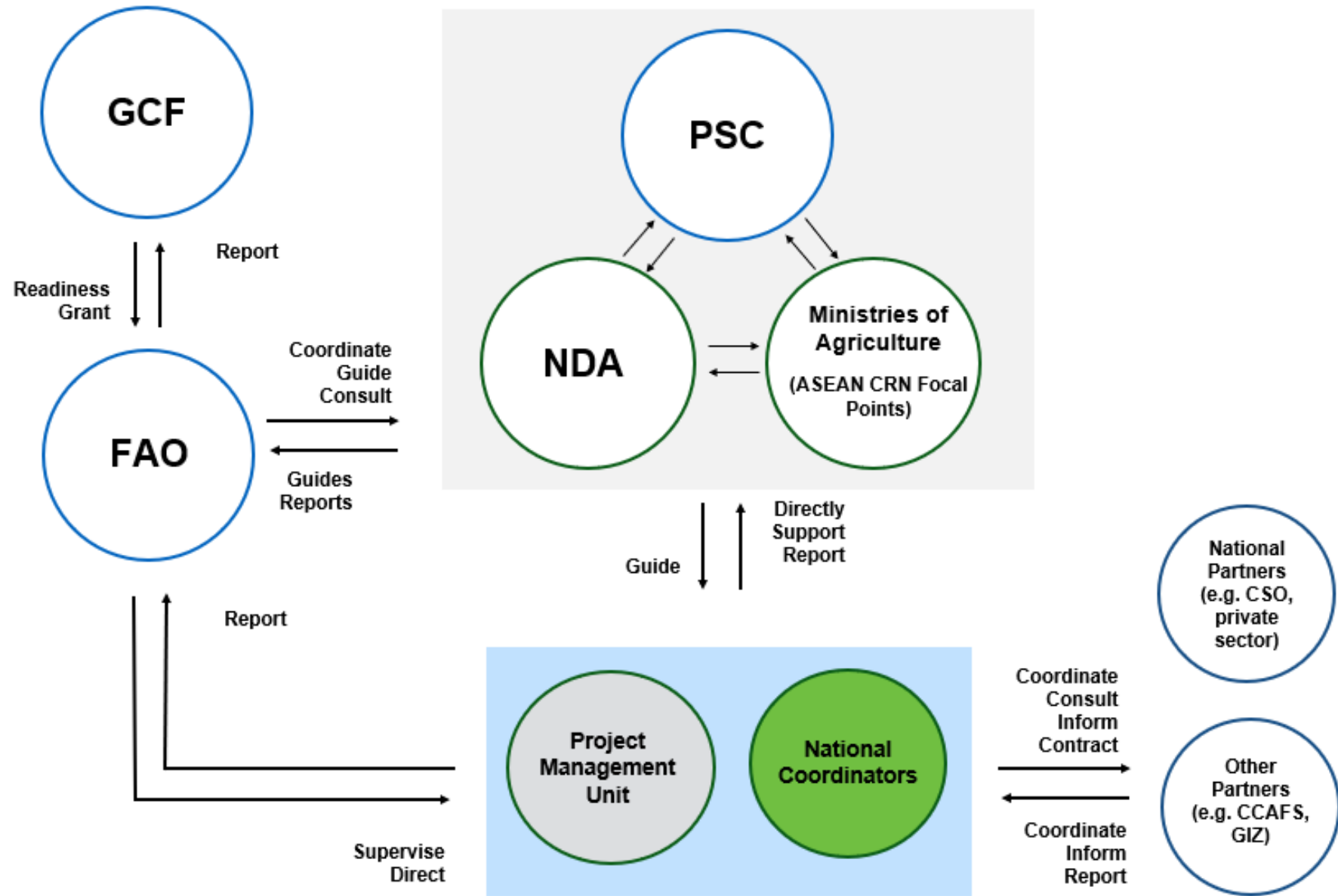
Output 5.2.1

Southeast Asia partnership network strengthened to support knowledge exchange on prioritizing and structuring of public and private climate finance investment in the agriculture sectors consistent

Project Activities

- **Regional** knowledge management and communications strategy
- **National and Regional** knowledge products for prioritizing and structuring agriculture sector climate finance investments

Implementation Arrangement





PMU & Project supported expert team



Project Management Unit

- **National Project Directors** (working level appointed by government)
- **FAO Project Task Force** comprising FAO Lead Technical Officer, sector and thematic experts and project management experts
- **FAO Country Office focal points**
- **Regional Project Team** (based at FAORAP - Thailand)
- **National coordinators** from each country

Regional Project Team

- Regional Coordinator and Agriculture and Climate Change specialist
- Climate Finance specialist (Part-time)
- Climate Foresight and Scenario Development Experts (Part-time)
- Knowledge Management associate

National Project Teams

- National coordinator and climate finance specialist
- Agricultural value chain specialist (Part-time)
- Administration and procurement support specialist (Part-time)



Roster of National and International Technical Experts

- Experts at National or International level
- Provide specialized inputs and analysis to support national investment plans and national and regional concept notes
- Short-term assignments
- FAO will establish expert rosters to enable easy recruitment
- Additional support from the FAO Investment Center

Flexible expert inputs

Possible expert categories

- Environmental and social safeguards experts
- Financial and economic analysis experts
- Innovative finance experts
- CSA & Sustainable agriculture experts
- Livestock experts
- Agro-forestry experts
- Geospatial experts
- Gender and inclusive development experts
- Agriculture infrastructure experts
- Digital agriculture experts



Timeline of Project Implementation



Year 1	Year 2	Year 3
<ul style="list-style-type: none"> National workshops on climate foresight and climate-smart options assessment 	<ul style="list-style-type: none"> National agriculture and climate change investment plans including 1-2 high priority GCF agriculture investment project idea notes 	<ul style="list-style-type: none"> GCF agriculture investment project idea notes are proposed to NDAs i
<ul style="list-style-type: none"> Commence development of national agriculture and climate foresight analysis and climate-smart options assessments 	<ul style="list-style-type: none"> Regional multi-stakeholder agriculture and climate change investment workshop 	<ul style="list-style-type: none"> Capacity building workshops cont.
<ul style="list-style-type: none"> Regional multi-stakeholder consultation report on measures to address climate change risks and opportunities 	<ul style="list-style-type: none"> Pre-feasibility studies 	<ul style="list-style-type: none"> Regional pre-feasibility study report
<ul style="list-style-type: none"> Regional assessment report on existing and potential agriculture related DAEs in Southeast Asia 	<ul style="list-style-type: none"> Regional report on agriculture and climate finance models developed including recommendations on innovative finance models 	<ul style="list-style-type: none"> National and regional GCF concept notes and stakeholder engagement reports
<ul style="list-style-type: none"> Regional technical review feeder report on mobilizing finance for climate-smart agriculture investments 	<ul style="list-style-type: none"> Capacity building workshops commence 	<ul style="list-style-type: none"> Validation workshops
<ul style="list-style-type: none"> Regional knowledge management and communications strategy 	<ul style="list-style-type: none"> Knowledge products cont. 	<ul style="list-style-type: none"> Regional multi-stakeholder public/private agriculture climate finance dialogue
<ul style="list-style-type: none"> Knowledge products 		<ul style="list-style-type: none"> Knowledge products cont.

GCF is entering Phase 2 and expectations for GCF projects will evolve and expectations include:

- Delivering through consortiums and local partners - DAEs
- Private sector engagement
- Financial innovation – going beyond grants
- Technical scope – interest in areas such as FLW, Fisheries, Livestock, Rice landscapes and agrifood systems approaches
- Mobilizing finance for adaptation
- Coordinating with other public sources of climate finance – e.g. GEF, Adaptation Fund





FAO is mobilizing three parallel co-finance projects that will complement the GCF Readiness project:

1. Mobilizing investment for resilient and low emission agri-food systems under Article 6 of the Paris Agreement (FAO TCP)
 2. Innovative tools and capacity to foster transformative change toward resilient, net-zero agrifood systems (FAO MDF)
 3. Simulation games for anticipatory climate governance and climate-resilient agrifood system transformation (FAO Innovation Fund)
 4. Support Programme on Scaling up Climate Ambition on Land Use and Agriculture (with UNDP funded by the German Government)
- These projects will aim to help develop tools and capacity related to accessing GHG offset markets and readiness

Related target results across the three projects:

- Increased awareness of the opportunities to scale-up investment in near and long term priorities for resilient and low emission agrifood systems using the Paris Agreement Article 6 instruments and LTS.
- Strengthened capacity to design Paris Agreement Article 6 programmes and projects and decarbonization pathways for LTS using FAO tools and technical products.
- Improved readiness to mobilize resources for resilient and low emission agrifood systems under the Paris Agreement Article 6 instruments.
- Guidance developed to leverage timely, high-resolution information and data for evidence-based public and private investments in climate actions including through compliance and voluntary carbon markets.
- Develop simulation games to allow policy makers to engage in processes to co-create multiple future scenarios for agrifood systems under climate change conditions





Issues and Next Steps

- With GCF first disbursement – activities can commence at regional level and in countries that have approved
- Proposed PSC on 30 March will need to be pushed back – informal consultation possible
- Budget revision may be required to allow for contracts to be issued – important in Malaysia case
- FAO has commenced process to hire regional project team
- National-level recruitment and activities can commence in countries that have approved
- PSC to be rescheduled for Q2 2023
- GCF Phase 2 priorities
- FAO co-financing projects





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Issues and Next Steps

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Inclusive Sustainable Rice Landscapes

Securing multiple environmental benefits and improved farmer welfare



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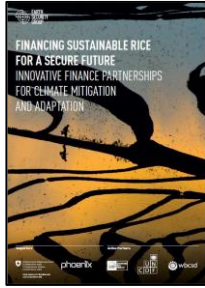
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Sustainable Rice Landscapes Initiative



1. Global Advocacy:

Elevating the global role and importance of rice into UNFCCC and related dialogues



2. Private Sector Engagement

Engaging private sector actors along the value chain with a focus on climate market incentives

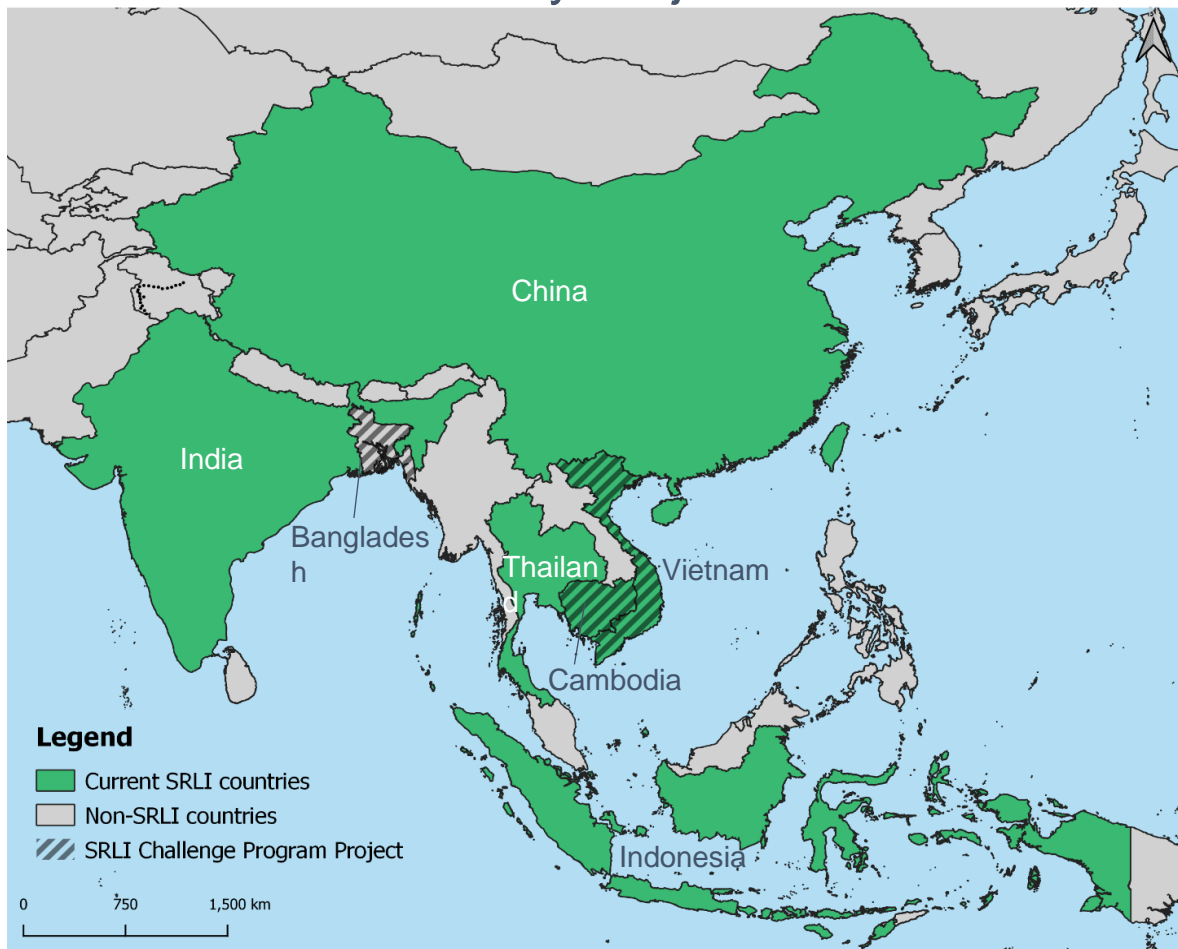


3. Scaling landscape financing

Feasibility for bankable blended finance opportunities mechanisms across Asia on rice financing



Sustainable Rice Landscapes Initiative (SRLI) Country Projects

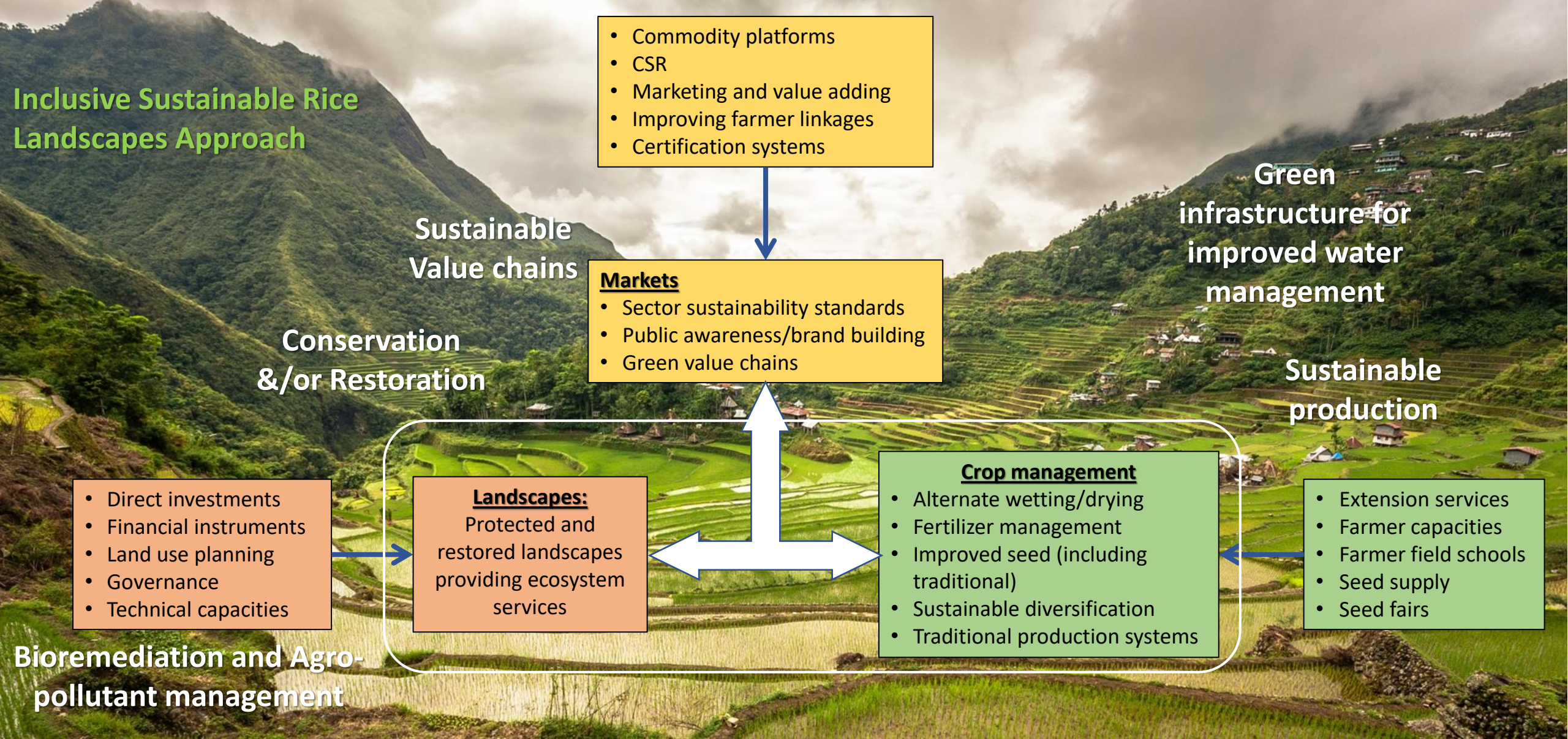


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	GEF-7 FOLUR	GEF-7 LDCF	GEF-7 Adaptation Challenge Fund	GEF-8 under development
Bangladesh			X	
Bhutan				X
Cambodia		X	X	
China	X			
India	X			
Indonesia	X			
Nepal				X
Pakistan				X
Philippines				X
Sri Lanka				X
Thailand	X			
Timor-Leste				X
Vietnam	X		X	



Inclusive Sustainable Rice Landscapes Approach



- Commodity platforms
- CSR
- Marketing and value adding
- Improving farmer linkages
- Certification systems

Sustainable Value chains

Green infrastructure for improved water management

Conservation &/or Restoration

- Markets**
- Sector sustainability standards
 - Public awareness/brand building
 - Green value chains

Sustainable production

- Direct investments
- Financial instruments
- Land use planning
- Governance
- Technical capacities

Landscapes:
Protected and restored landscapes providing ecosystem services

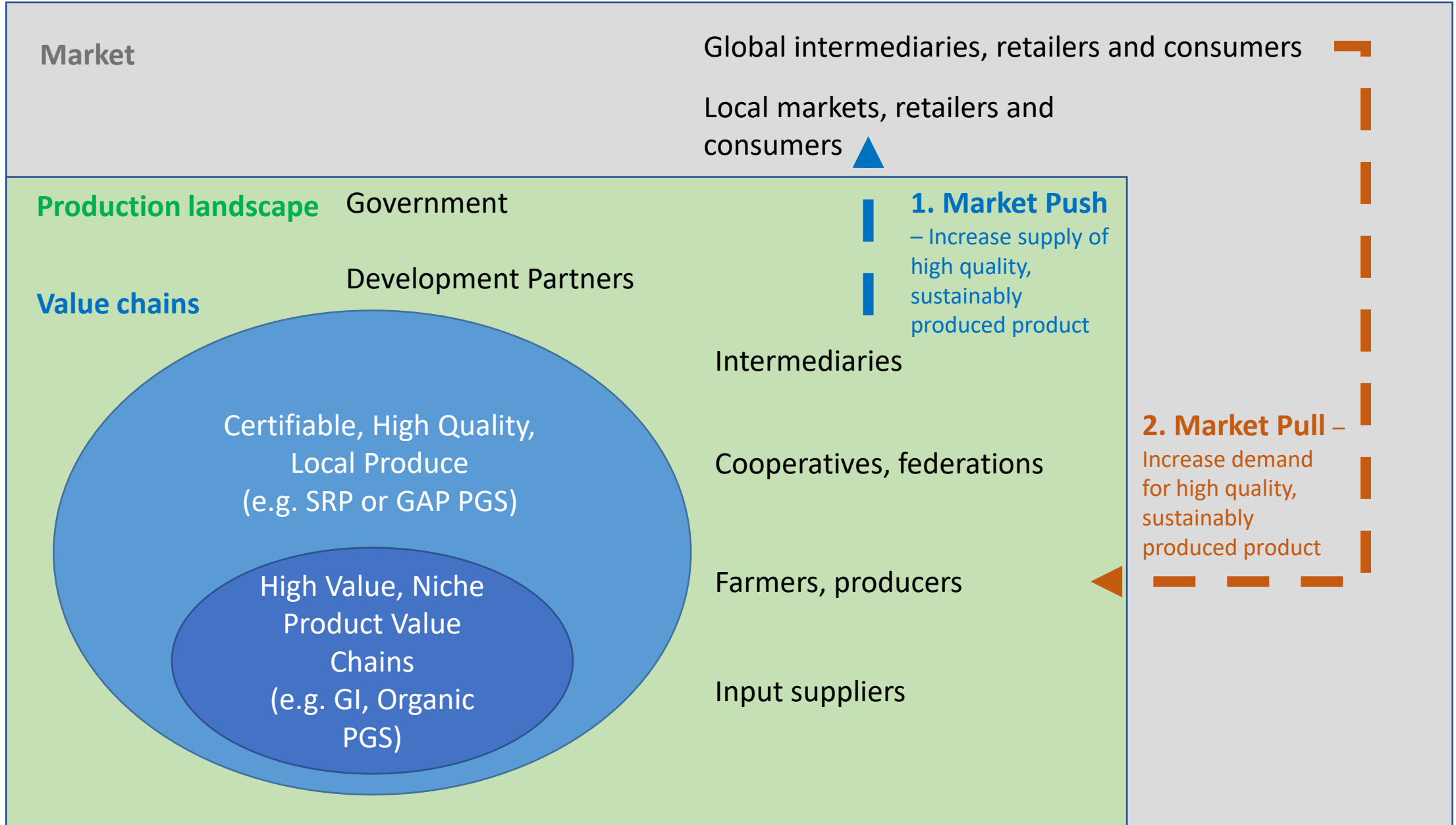
- Crop management**
- Alternate wetting/drying
 - Fertilizer management
 - Improved seed (including traditional)
 - Sustainable diversification
 - Traditional production systems

- Extension services
- Farmer capacities
- Farmer field schools
- Seed supply
- Seed fairs

Bioremediation and Agro-pollutant management



Simplified market transformation logic



Inclusive Sustainable Rice Landscapes = Environmental and Social Benefits

Healthy watersheds

Improved Resilience

Natural biodiversity
protection and/or
regeneration

Diverse, sustainable
livelihoods

Reduced agrochemical
pollution

Agricultural
biodiversity

Water use efficiency

GHG reductions



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GEF & SRLI Country Programmes – at a glance

GEF Resources	US\$ 50.4 million
Co-Finance	US\$ 629 million
Land Under Improved Management	4.2 million Ha
GHG Emissions reduced	122.9 Mt CO2 eq
Beneficiaries	841,000 ~50% women



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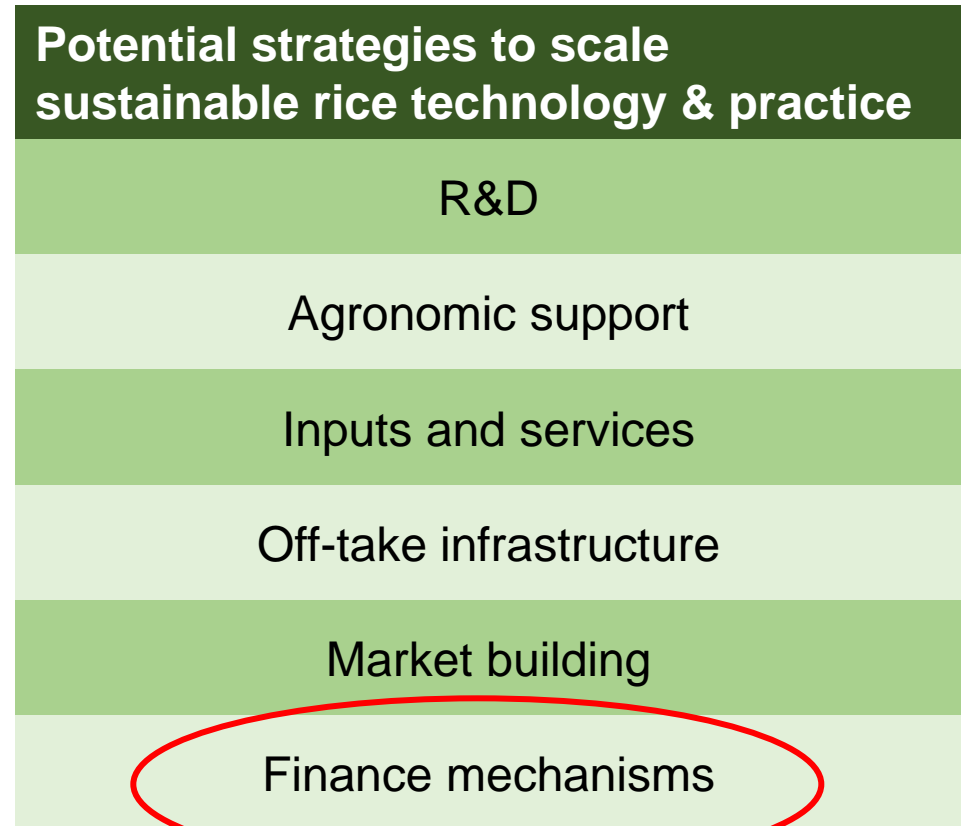


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Challenges to scaling sustainable rice

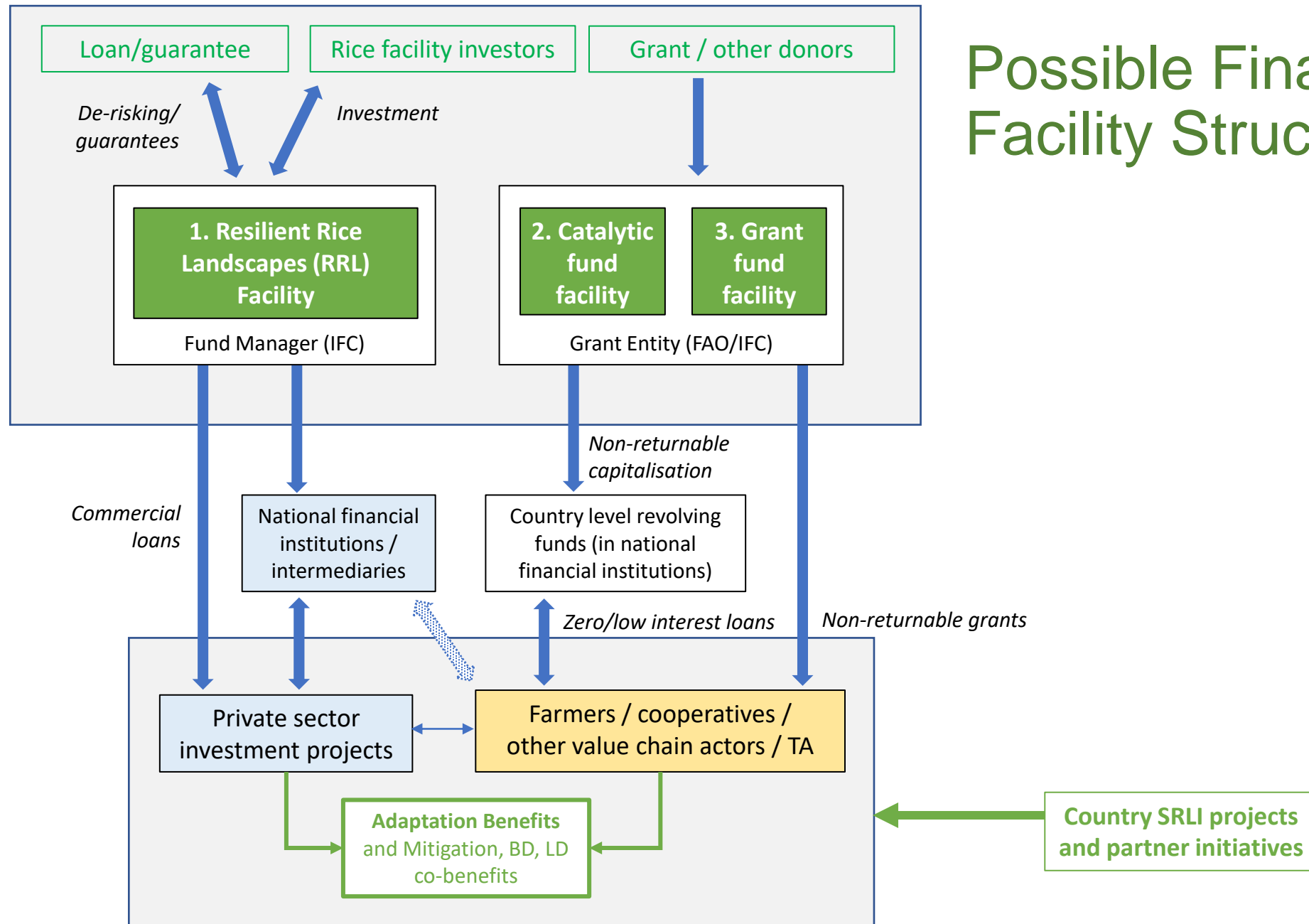
- Aggregation & counterparts: e.g. very large (government - irrigation) and very small (inputs - farmers)
- Fragmented, loose value chains and dominance of informal domestic markets
- Relatively low margins
- Local & international politics including subsidies & dumping
- Farmer & SME financial inclusion including collateral & credit history



Looking ahead - GEF Challenge Fund Project

- In 2021, WBCSD and FAO submitted a concept for rice finance facility to the GEF Challenge Fund
- GEF is providing US\$1 million over 3 years to develop a finance facility/ a funding proposal
- Objective is to catalyse public and private financing for climate-resilient rice landscapes, value chains and livelihoods
- Project will aim to leverage existing SRLI partnerships, new financial partners (IFC and GCF) and LDCF and FOLUR projects
- Initial target countries include Bangladesh, Cambodia and Vietnam – but opportunities to expand to other countries in Asia and SRLI countries in particular

Possible Finance Facility Structure



Thank you.



Reflect on the examples shared...

- What are the key lessons learned on accessing climate finance for agriculture you take away from the presentations and these examples?
- What are good examples you would like to share of accessing climate finance for agriculture in your country?
- How could development of the climate finance project investment pipeline for agriculture be improved/strengthened?

Group discussion to explore new, innovative climate finance models for agriculture



Guiding Questions

- What was interesting about the finance models presented?
- Are there examples that you can already highlight in your countries?
- What types of support is needed?



Session 6: 09.45-11.30

Partnership Forum:

Resource matching between country needs and priorities and ongoing or potential support projects by partners

- GIZ AgriTrade
- SEI
- GIZ ASEAN Access Platform
- AgriG8
- Grow Asia
- UNCDF
- FAO RAP
- Mekong Institute

Potential Partnerships with ASEAN-CRN and its Focal Points

Kuntum Melati & Albert M Salamanca





PARTNERSHIP FORUM
GIZ - Promotion of Sustainable Agricultural Value Chains in ASEAN
(ASEAN AgriTrade)

ASEAN-CRN Knowledge Exchange Event and Partners Meeting,
Bangkok, 28 - 30 March 2023



implemented by:



Introduction: Overview of the ASEAN AgriTrade Project

Countries:

- Regional/10 AMS, national level in CLMV

Project partners:

- ASEAN Sectoral Working Group on Crops (ASWGC)
- Actors along the value chain, other relevant public, private and civil society, particularly in CLMV

Commissioned by: German Federal Ministry for Economic Cooperation and Development (BMZ)
Duration: January 2020 – December 2023
Budget: 5 million EUR (top-up 2 million EUR)



Overall objective

The framework conditions for the implementation of standards on quality and sustainability along agricultural value chains **with focus on climate relevant aspects** in the ASEAN region are improved.

• Area of support:

- 1) Enhancing cooperation between relevant ASEAN bodies and private sector;
- 2) Gender mainstreaming in relevant ASEAN strategy documents;
- 3) Improving the prerequisites for private sector engagement in three of the CLMV countries, **including climate smart agriculture practices**;
- 4) Conducting awareness campaigns on the health and ecological benefits, **including climate benefits**, of sustainable agricultural products in the CLMV countries;
- 5) Compiling lessons learnt on the implementation of standards on quality and sustainability for decision-makers in the CLMV countries, **including climate smart agriculture practices**.

Overall Objectives

The framework conditions for the implementation of standards on quality and sustainability along agricultural value chains **with focus on climate relevant aspects** in the ASEAN region are improved.

	1	2	3	4
OUTPUT	<ul style="list-style-type: none"> Regional cooperation and gender-sensitive approaches 	<ul style="list-style-type: none"> Regional cooperation on climate relevant aspects along the value chains (new output for top-up) 	<p>National roadmaps and public-private cooperation in the CLMV countries (previously output 2)</p>	<ul style="list-style-type: none"> Lessons from development partnership (iPPP) with private sector are enhanced
SCOPE OF ACTIVITIES	<ul style="list-style-type: none"> General Assessment of ASEAN GAP and ASOA Facilitation of public-private dialogue measures Promoting continuous exchange between the regional and national levels, Promote gender mainstreaming in agricultural value chains 	<ul style="list-style-type: none"> organisation of/ engagement in climate-relevant meetings organisation of/ engagement in sector-specific workshops on climate relevant topics Trainings/ knowledge exchange activities and policy dialogue formats on relevant climate topics for ASEAN climate actors 	<ul style="list-style-type: none"> Stock-taking of national standards implementation Policy advice on PPP Public-private dialogue measures in CLMV Joint public-private roadmap planning Consumer awareness campaign 	<ul style="list-style-type: none"> Joint selection of national value chains and implement public-private development partnership (iPPP) fund Assess lessons learned and success stories from past and on-going iPPP Develop national toolkits based on successful public-private cooperation
	Regional/ASEAN level		Activities more focus at the national level in CLMV	

Output 2 Updates

Support to the ASEAN-CRN Secretariat and platform infrastructure

- ASEAN-CRN Secretariat Facilitator
 - Web hosting and technical support for ASEAN-CRN website
 - Production of the ASEAN Climate Leadership Program (ACLIP) story of change video
 - The 7th ASEAN-CRN Annual Meetings back-to-back with the 16th ATWGARD meeting
-

Support to ANGA for negotiation at COP and other event

- Informal meeting prior the COP 27
 - Support ANGA delegation to attend COP 27
 - Following up/debriefing from COP27
 - UNFCCC negotiation training and e-learning course on climate negotiations
 - ANGA workshop for joint submission to the Sharm El-Sheikh Koronovia Joint Work Implementation Program
-

Capacity building and knowledge exchange

- ASEAN-CRN's Training on How to Host Virtual Meetings (21 Feb. 2022)
 - Virtual event: 'Scaling up climate actions for resilient and low emission landscapes in Asia and Pacific: In the lead up to COP27' (1-3, 15-16, 22 Mar. 2022)
 - Transformation to Low Emissions and Resilient Agrifood System: A Knowledge Exchange Event and Climate Policy Negotiations Training (27-29 Sept 2022)
 - Pathways to Net Zero for Agrifood and Land Use Systems in Asia' (14-16 Dec 2022)
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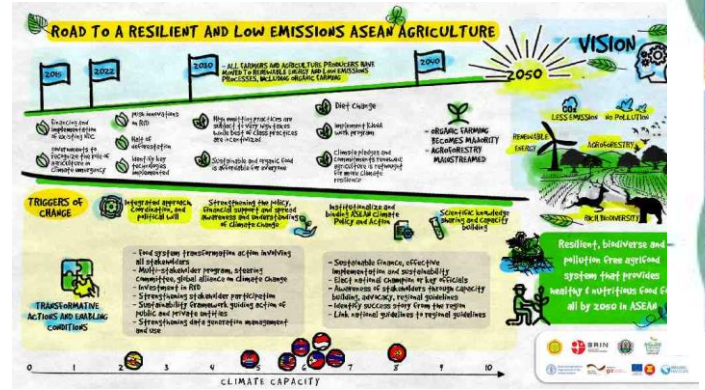
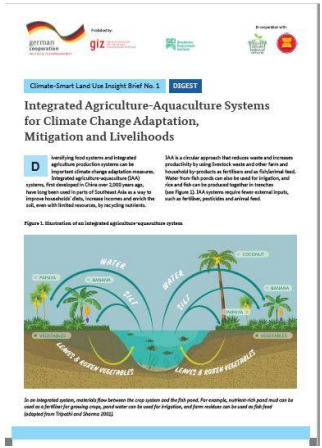
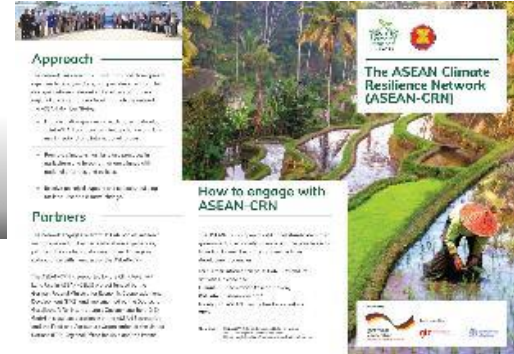
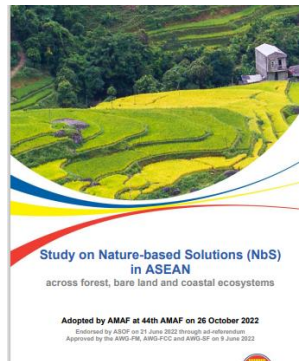
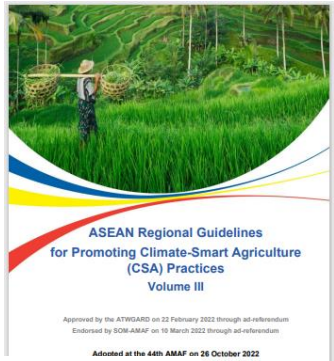
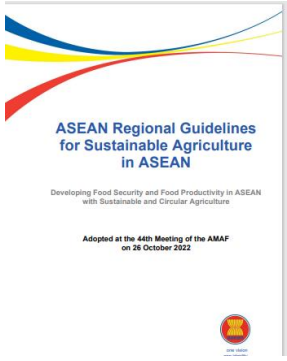
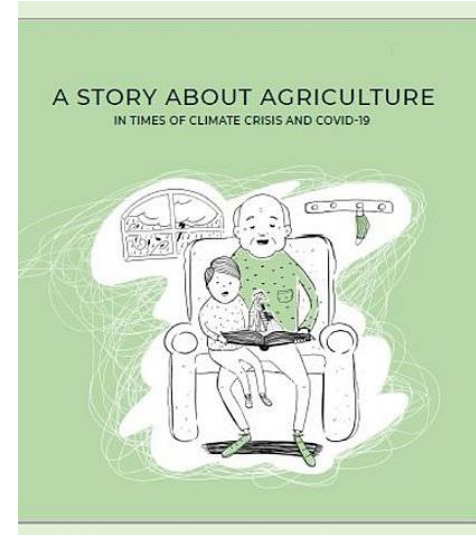
ASEAN Guidelines and knowledge products

- The ASEAN CSA Guideline Vol. III
- ASEAN Regional Guidelines for Sustainable Agriculture in ASEAN
- Study on: Nature-based Solutions (NbS) in ASEAN across forest, bare land and coastal ecosystems
- Study on: Decarbonising the ASEAN Agriculture and Forestry sector

Example of Knowledge Products



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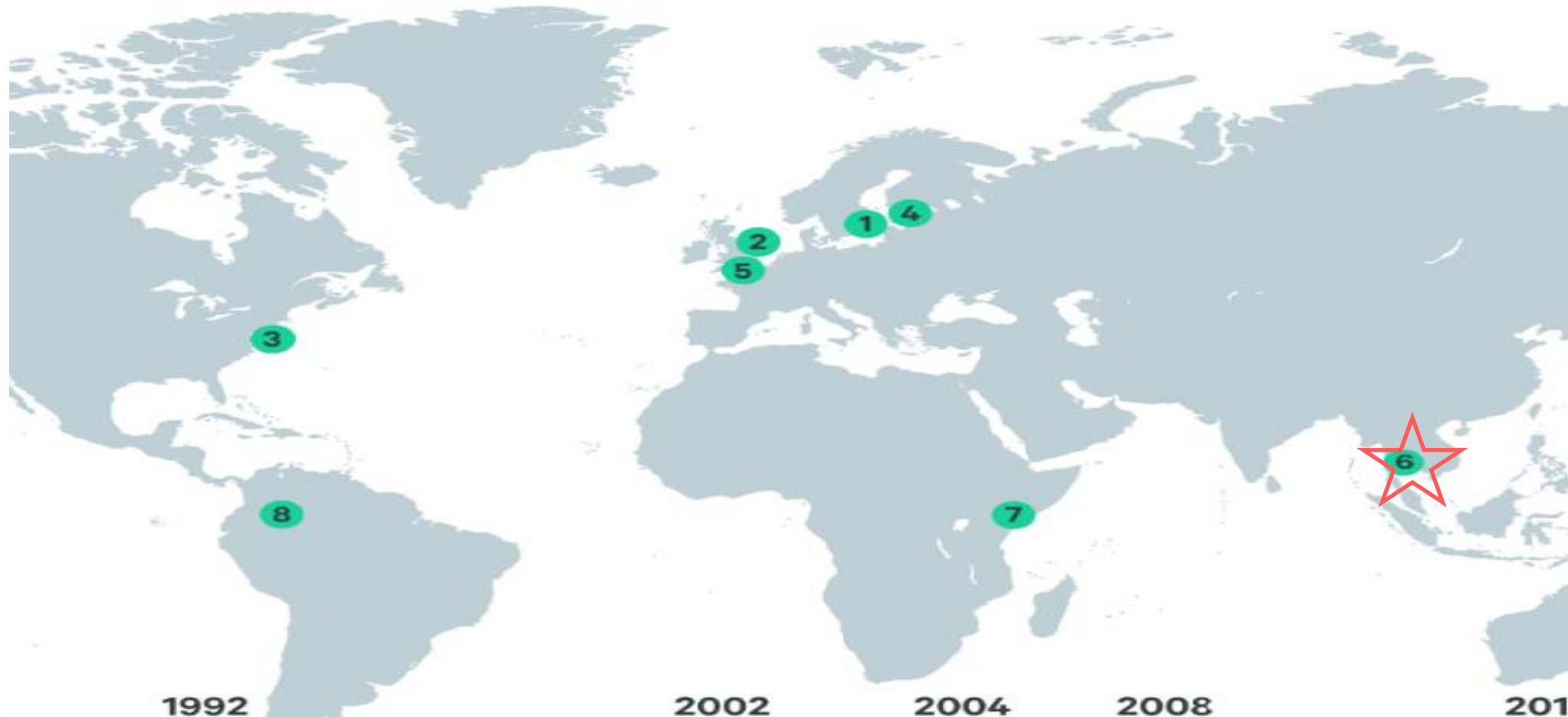
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Potential Partnerships with ASEAN-CRN and its Focal Points

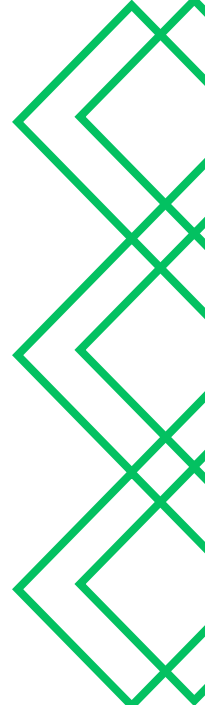
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SEI: facts and figures

OUR VISION AND MISSION



Vision

A sustainable, prosperous future for all.



Mission

To support decision-making and induce change towards sustainable development around the world by providing integrative knowledge that bridges science, policy and practice in the field of environment and development.²



Founded in **1989** with 8 Centres in Africa, Asia, Europe, Latin America, UK and USA



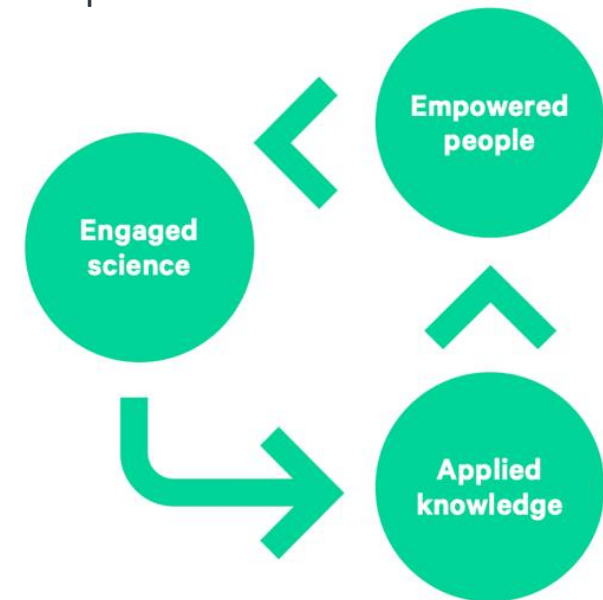
Ranked as the **world's top think tank on environmental policy issues** since 2016



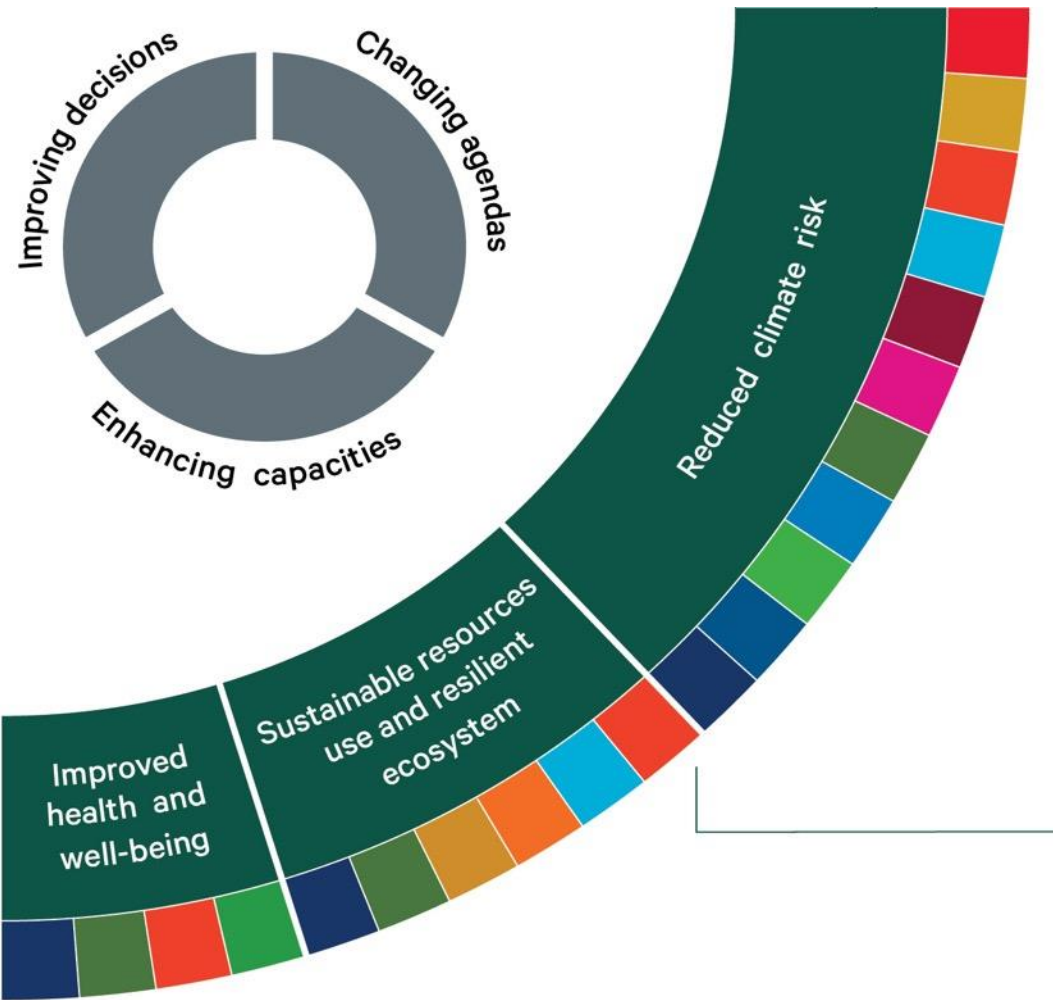
Around **300 publications** (in 2021)



Over **300 staff members** globally



Strategic Collaborative Fund Impact Pathway



Outcomes



Changing ideas

Among stakeholders via knowledge exchange



Enhancing capacities

Through SCF2-funded events, direct discussions, and online learning



Improving decisions

Among stakeholders via the tools and engagement



Enable new partnerships and initiatives

SEI - partners – relevant stakeholders via networking

- Type of outcome
- Impact area



Strategic Collaborative Fund 2 Events in 2023

Intellectuals Center

Bringing people and policy together for coherent actions towards achieving Inclusive Circular Economy Transition in South Asia and South-East Asia

(Theme: Regional policy initiatives for circular economy transition)



Thailand Environment Institute

Strengthening regional knowledge-policy-practice networks for inclusive and equitable climate resilience actions in the Mekong region

(Theme: Partnerships for climate actions)



Grow Asia

Unlocking Inclusive Finance for Food System Transformation through Multi-Stakeholder Action

(Theme: Bridging climate finance gaps through inclusive approaches)



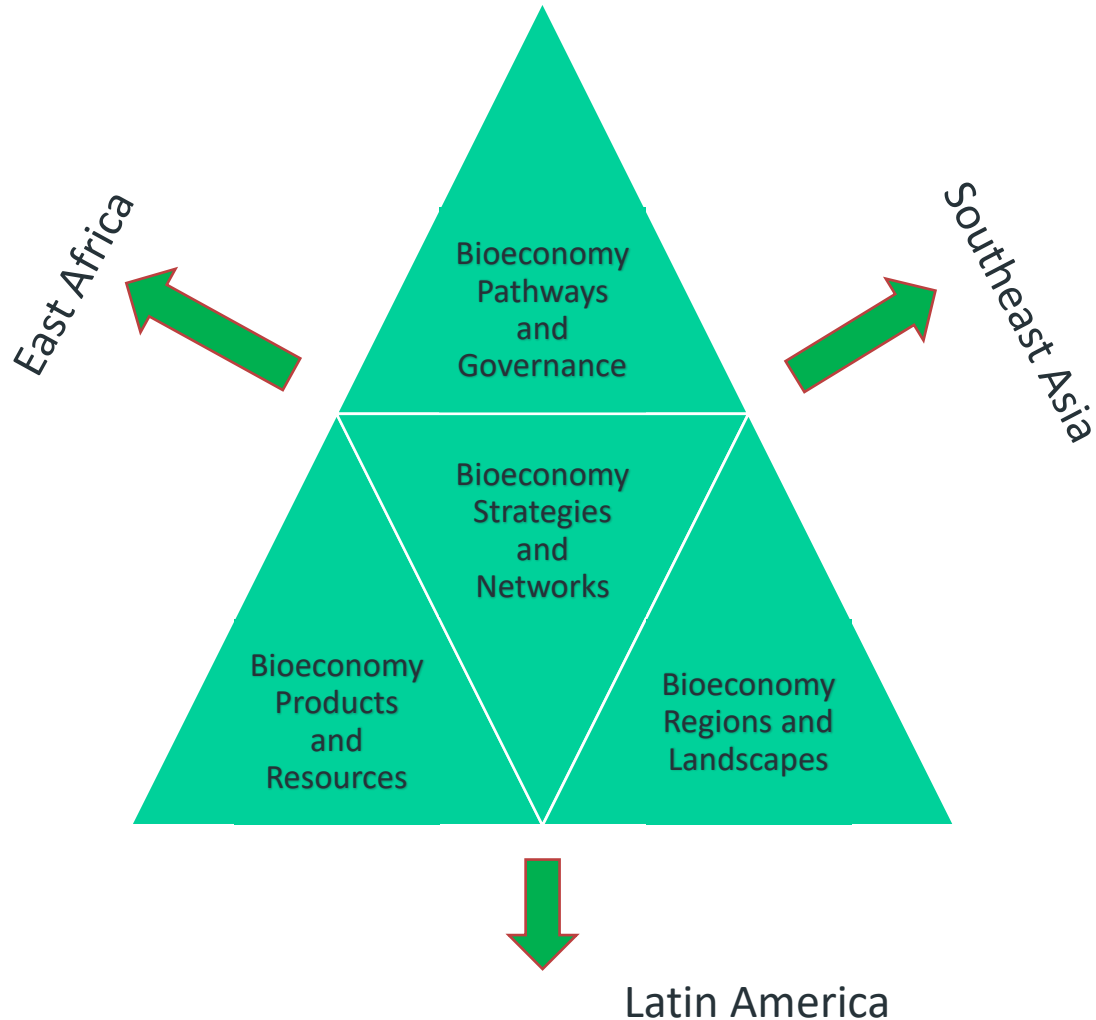
Transitions Research

Integrating Equity and Reframing Urban Nature-based Solutions in Growing, South Asian Cities

(Theme: Catalysing biodiversity conservation through nature-based solutions)



Governing Bioeconomy Pathways



(1) micro-level – **Bio-resources <-> Bio-based products and services:** exploring the gap and/or the process of transforming bio-resources into innovative value-added products and services

(2) meso-level – **Bioeconomy Strategies <-> Implementation/Action:** exploring the gap between strategies on paper and the institutional architecture for their realisation

(3) macro-level – **Bioeconomy Pathways <-> Governance Mechanisms:** exploring the gap between long-term visions for bioeconomy pathways and the social, economic and political governance mechanisms needed across multiple levels (local, national, regional, global)

SEI Stockholm Environment Institute

BEDO

TEI THAILAND ENVIRONMENT INSTITUTE

สถาบันพระปกเกล้า King Prajadhipok's Institute

Bioeconomy in Action

Alternative Inclusive Pathways to Sustainability in Southeast Asia

April 3, 2023 9.00 - 12.15 (GMT+7)

Centra by Centara Government Complex Hotel & Convention Centre, Chaeng Watthana, Bangkok, Thailand

Virtual event via Zoom & Facebook live: BEDO Thailand

Register here bit.ly/SEIBCM

SEI Stockholm Environment Institute

BEDO

TEI THAILAND ENVIRONMENT INSTITUTE

สถาบันพระปกเกล้า King Prajadhipok's Institute

Bioeconomy in Action

Alternative Inclusive Pathways to Sustainability in Southeast Asia

Opening Remark

Dr. Wijarn Simachaya
Chairman, Board
Director of BEDO

Francis X. Johnson
Senior Research
Fellow, SEI Asia

Keynote Speech BioEconomy: From Policy to Action

Mr. Petipong Pungbun Na Ayudhya
Board Advisor of BEDO

Session 1 Bioeconomy Policy Sharing in Thailand and Globally

Dr. Sarun Sumriddetchkajorn
Acting Executive Vice President of RDI Management, National Science and Technology Development Agency: NSTDA

Dr. Theresa Mundita S. Lim
Executive Director, ASEAN Center for Biodiversity: ACB

Dr. Nana Kuenkel
Heading the agriculture and food cluster, GIZ Thailand

Moderators

Assoc.Pro.Dr. Chompoonuch Kosalakorn Permpoonwiwat
King Prajadhipok's Institute

Session 2 Bioeconomy Action for Sustainability

Ms. Nora Mohamed
Senior Vice President of Malaysian Bioeconomy Development Corporation

Dr. Tanit Changthavorn
Deputy Director General, BEDO, Thailand

Dr. Li He
Food and Agriculture Organization of the United Nations: FAO

Moderators

Dr. Vanida khumnirdetch
Director of Bureau of Foreign Agricultural Affairs of the Ministry of Agriculture and Cooperatives, Thailand

Promoting climate-smart water technologies and innovations for sustainable water resources and rice production under climate change in the Lancang-Mekong Region

Showcasing	showcasing of good practices and proven techniques of climate-smart water technologies
Empowering	empowering farmers and government agencies for changes through on-field trainings and support from private sectors in Thailand and China
Translating	translating knowledge to actions and capacity enhancement through demonstrating, monitoring and evaluating the pilot case studies in Thailand, Lao PDR and China, alongside joint research outputs.



Agroecology and
Safe Food System
Transitions

The ASSET Project aims to transform food and agricultural systems in Southeast Asia more sustainable, safer and inclusive, through harnessing the potential of agroecology.



Funded by the European Union and the French Development Agency



FONDS FRANÇAIS POUR
L'ENVIRONNEMENT MONDIAL

Gender equality and empowerment strategy

Broad Objective

To strengthen the capacity of 25-30 ASSET national partners, including national gender focal points, to mainstream gender equality and social equity in the project implementation plans at different flagship levels and including all capacity-building activities and the knowledge hub.

1: To deepen awareness of ASSET national partners about gender and social inequalities in agroecology and safe food systems and how these limit food system transitions

2: To provide knowledge about, and techniques for, gender mainstreaming and social equity awareness in agroecology and safe food systems programming

3: To strengthen the capacity of ASSET national partners to develop gender-responsive and equitable ToCs, interventions, activities, methodologies, and indicators or adapt these to become gender-responsive if they already exist.

4: To gather information on the state of gender mainstreaming in key activity plans from ASSET partners that will inform the design of country-level trainings in 2023

Southeast Asia Capacity Building and Climate Policy Engagement

ASEAN Green Future Projects

Co-Development and Modelling of Climate Policy Scenarios for Southeast Asia

Climate Policy Engagement with ASEAN



**Strategic Inter-Regional
Policy Strategy Support**



MAINSTREAMING AGROBIODIVERSITY for Sustainable Food System in the ASEAN Region

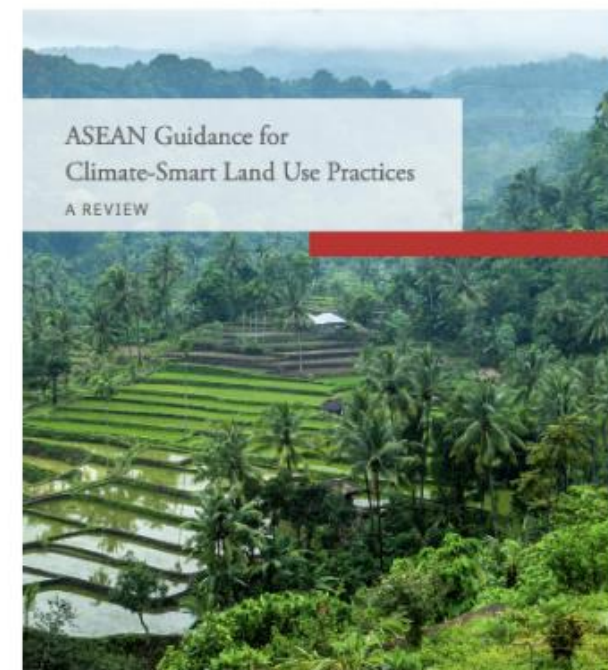
Harnessing the Benefits of Agrobiodiversity to Build
Sustainable, Resilient and Inclusive Food Systems

December 14-15, 2021

White Paper



**Regional Policy
Support for ASEAN**



**Policy Recommendations
Co-Production**





Australian Government

Department of Foreign Affairs and Trade



The Mekong Thought Leadership and Think Tanks Network Program

Call for Fellowship Applications

The Mekong Thought Leadership and Think Tanks Network Program, supported by Australia's Department of Foreign Affairs and Trade (DFAT), is providing fellowship opportunity hosted in **Cambodia, Lao PDR, Thailand, and Vietnam.**

The fellowships are intended for **entry- or mid-level professionals of all genders** who are **Mekong citizens** (Cambodia, Lao PDR, Thailand, Vietnam) with research, policy, and/or practitioner experience on water, energy, and climate sectors.

Launch of the Call: 9th March 2023

Application deadline: 31 March 2023, 23:59 (Bangkok/Indochina time)

Submissions of applications will only be accepted through online submission platform:

<https://sei.submittable.com/submit/256432/mtt-call-for-fellowship-applications-round-1>





**GREATER MEKONG SUBREGION (GMS)
CLIMATE CHANGE AND ENVIRONMENTAL
SUSTAINABILITY PROGRAM (CCESP)**

**Policy Forum
May 2023
Bangkok**

**FOSTERING INCLUSIVE COOPERATION
AMONG GMS COUNTRIES TO ENHANCE
CLIMATE RESILIENCE & SUSTAINABILITY**



ASEAN ACCESS

A business gateway to ASEAN and Beyond

Trade and market info.



B2B Matchmaking

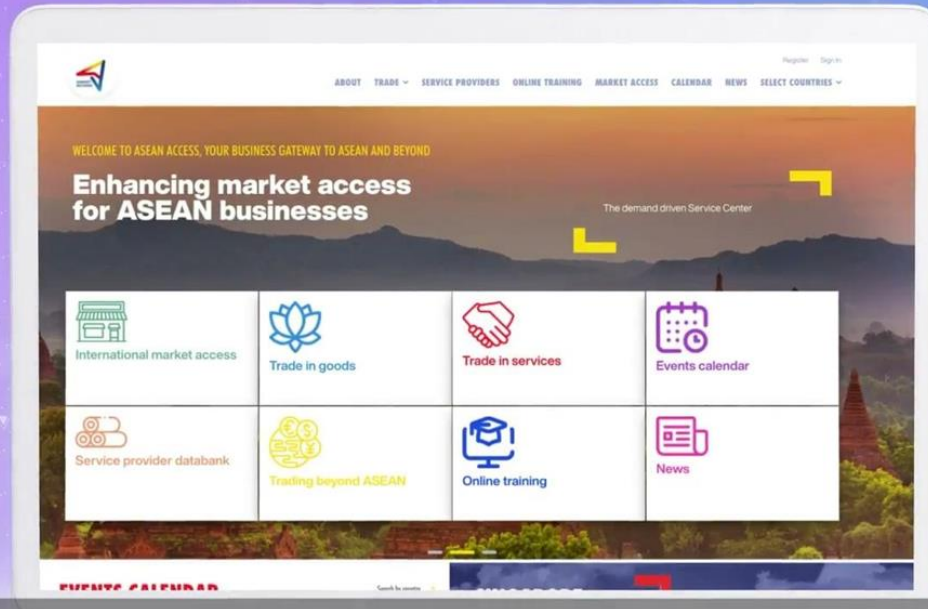


SMEs Capacity building



<https://www.aseanaccess.com/>

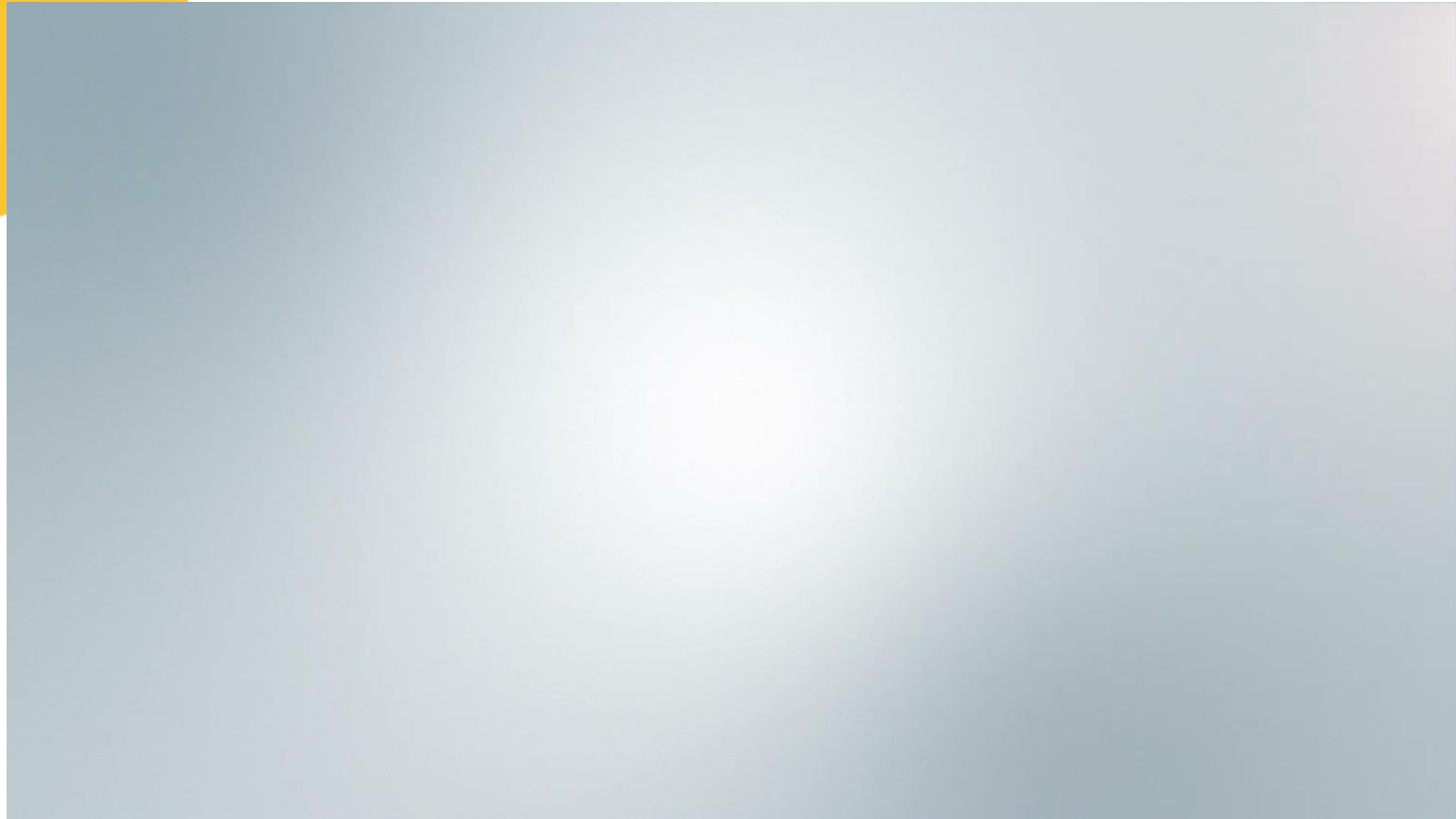
ASEAN ACCESS



บริการที่ครบครันของ ASEAN Access เปิดให้ลงทะเบียนแล้ววันนี้
โดยไม่มีค่าใช้จ่าย!

<https://www.aseanaccess.com/>

ASEAN ACCESS MATCH



<https://www.aseanaccess.com/>

AgriG8

AgriG8 is an Agri-FinTech platform that incentivises lenders & farmers to invest in climate resilient farming.

Because climate resilient farmers make virtuous borrowers



SMALLHOLDER RICE FARMING IN SOUTHEAST ASIA

144 Million smallholder rice farmers globally.

They are primarily underserved, cementing themselves as both contributors and victims of climate change.

46 Million hectares of rice fields in Southeast Asia

200 Million tons of rice is produced annually. Opportunities have been identified to reduce methane emissions from rice fields.



10
Global Methane
Emissions



50%
Global
Consumers



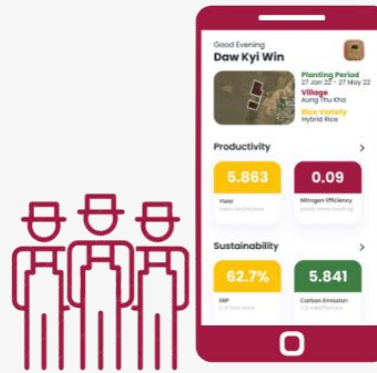
30%
World's Fresh
Water

HOW WE ENABLE RICE MRV



Monitoring

In-season data from remote sensing and farmer



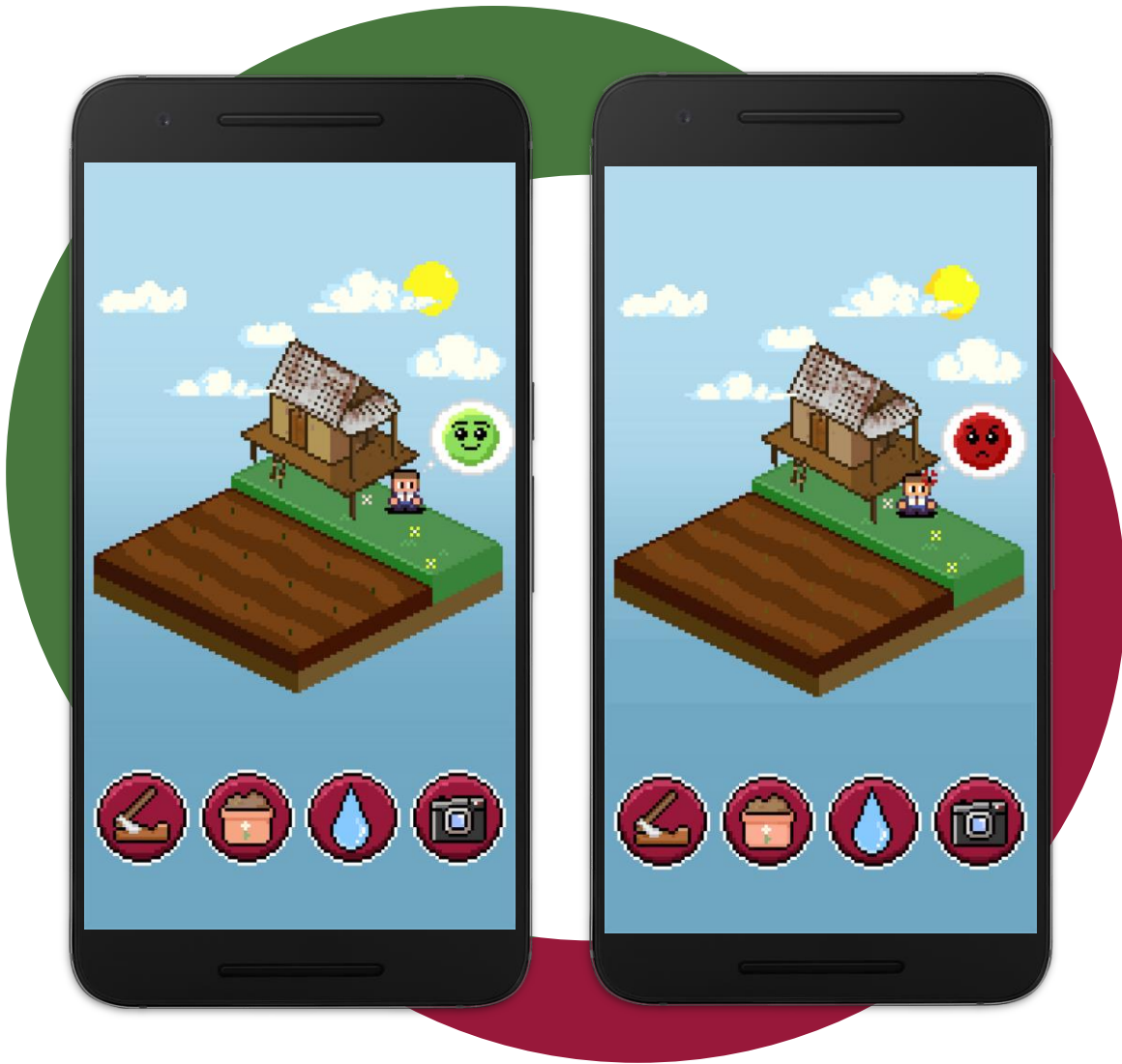
Reporting

Alternative Credit Scoring using multi-data approach



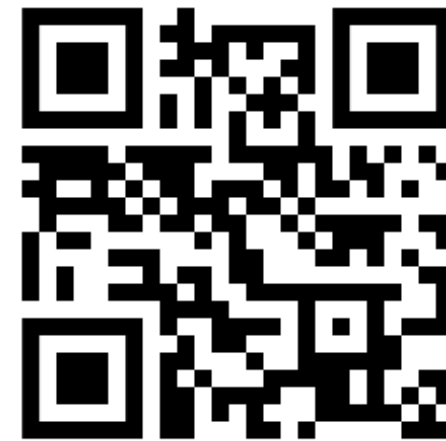
Verification

Using known methodologies from organizations such as Gold Standard and VERRA



Gamified, intuitive digital logbook designed for farmers

- Digital MRV tool
- Integrated algorithm to convert farm activities input into impact output
- Community-sourced advisory
- Real-time reporting and feedback



CropPal beta

demo.agrig8.com

THANK YOU

77 Ayer Rajah Crescent #02-21, Singapore 139954

Supported By:

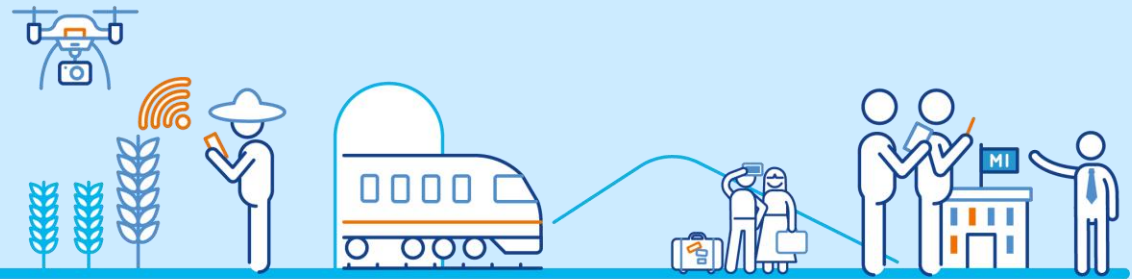


Monetary Authority
of Singapore





MEKONG INSTITUTE



About Mekong Institute (MI)



An intergovernmental organization (IGO) in the Greater Mekong Subregion (GMS)



MI's core competence

is human resource development, capacity building programs and development projects, supporting regional cooperation and integration.



MI currently employs about **50 staff, made up of over 13 nationalities.**



Founded in 1996

and represented by the six member countries of the GMS, namely Cambodia, P.R. China (Yunnan Province and Guangxi Zhuang Autonomous Region), Lao PDR, Myanmar, Thailand and Viet Nam.

MI Headquarter is in **Khon Kaen, Thailand.**

Our Thematic Areas

Agricultural Development and Commercialization (ADC)

- Sustainable Food System Value Chain Development Post-Harvest Management
- Climate-Smart Agriculture Food Security and Market Access

Trade and Investment Facilitation (TIF)

- Digital Trade
- SME Entrepreneurship Development
- Trade Promotion and Market Access
- Cross-Border Trade Facilitation
- Transport and Logistics
- Special Economic Zone Development
- Smart and Sustainable Tourism Development

Sustainable Energy and Environment (SEE)

- Water-Energy-Food Nexus
- Energy Connectivity
- Renewable Energy and Energy Efficiency
- Climate Change
- Green and Creative Economy

Cross-Cutting Issues

- Gender Mainstreaming
- Digitalization
- Labor Mobility and Migration Management
- Decent Work
- Upskill and Reskill Development
- Labor Mobility and Migration Management
- Inclusive Social Development
- Science, Technology and Innovation

Our activities and services

Implement projects



Provide advisory services



Act as network coordinator/
secretariat



Organize training and
structured learning visits

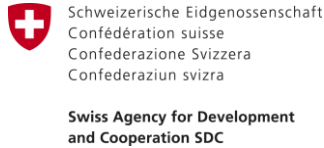


Facilitate policy dialogues



Conduct research and
studies

Development Partners





MEKONG
INSTITUTE

“Thank you.”

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Tel. : +66 (0) 4320 2411
Fax. : +66 (0) 4320 3656
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[Mekong Institute](https://www.linkedin.com/company/mekong-institute)



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Food and Agriculture Organization
of the United Nations

FAO in Asia and the Pacific

Action to accelerate sustainable natural resources management
for **climate action**



Food and Agriculture Organization
of the United Nations

Action at the regional level

1. Enhancing climate action and partnerships
2. Agriculture climate services and decision support
3. Anticipatory Action for Disaster Risk Management
4. Scaling up access to environment and climate finance

Key Programmes / Initiatives

- ASEAN Climate Resilience Network
- Scaling Climate Ambition in Agriculture and Land-use (with UNDP & BMU)
- Capacity Building Initiative for Transparency (GEF-CBIT)
- REDD+ Lower Mekong Initiative
- Over US\$500 Million FAO-GEF ongoing and pipeline projects
- Over US\$275 Million FAO-GCF ongoing and pipeline projects





Food and Agriculture Organization
of the United Nations

Enhancing climate action and partnerships

Strengthen capacity to implement national commitments under international agreements and frameworks on climate change as they relate to agrifood systems

Key Programmes / Initiatives

- Support to ASEAN CRN and partners to engage with UNFCCC & KJWA
- Scaling Climate Ambition in Agriculture and Land-use (with UNDP & BMU)
- REDD+ Lower Mekong Initiative



Key programme in detail

GEF-funded under the “Capacity Building Initiative on Transparency” - CBIT:

- one global project (CBIT-AFOLU) supporting directly 15 pilot countries
- one global project (CBIT-Forest) supporting directly 4 pilot countries
- 16 national projects approved and few others in the pipeline

FAO has a dedicated page on its work on the Enhanced Transparency Framework:

www.fao.org/climate-change/our-work/what-we-do/transparency/

How does FAO address Transparency?

Country capacity

- One-to-one mentoring
- Webinar series
- Trainings
- Regional workshops

20+ targeted countries
90+ countries engaged

ETF-enhanced Global Products

- Tools
- Methodologies
- Guidance
- E-learning series on ETF and GHGs

15+ tools reviewed
10+ new tools developed and under development

Knowledge sharing

- FAO's ETF website
- Transparency in the agriculture and land use sectors network
- Roster of transparency practitioners

400+ network members
350+ interested in joining the roster

Coordination

- Continued partnerships
- Joint products and events
- Dissemination of knowledge and information

10+ global partners
25+ workshops and trainings



Food and Agriculture Organization
of the United Nations

Agriculture climate services and decision support

Strengthen capacities to utilize agriculture climate services and develop evidence-based policies, planning and investments

Key Programmes / Initiatives

- Capacity Building Initiative for Transparency (GEF-CBIT)
- Regional roadmap for agriculture climate services (with WMO)
- Foresight and scenario planning for agrifood systems under climate change
- Framework for NBS in agriculture

Key programme in detail

Developing Tools and Approaches to Support Resilient Agri-food Transformation



Agro-Ecological Zoning

Primary Application

Assessment of agro-ecological suitability and production potential

Global and national

Afghanistan

Laos

Thailand

Bangladesh

China



Python Package on Agro-ecological zoning

Primary Application

National assessment of agro-ecological suitability and production potential

Cambodia

Laos

Bhutan



Nationally Determined Contribution Expert Tool

Primary Application

GHG accounting tool for annual estimate of GHG emissions reductions and Carbon sequestration of climate actions (NDC, LT-LEDS, NAMA, projects among others) over a 30-year time series

Cambodia

Philippines

Nepal

Thailand

Mongolia

Ethiopia

Uganda

Costa Rica

Senegal

Georgia

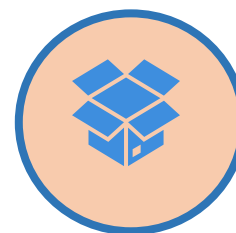
Egypt

Cote d'Ivoire

Columbia

Argentina

Serbia



Climate Risk Toolbox

Primary Application

GEF project PIF climate risk screening

Many countries where FAO implement GEF projects



Climate and Agriculture Risk Visualization and Assessment

Primary Application

GCF project climate rationale and other climate project designs and implementations

Cambodia

Nepal

Mongolia

Laos



Climate Foresight Planning

Primary Application

To support robust development of climate-related policy and programs through long term lenses

ASEAN

Cambodia

Laos

Key programme in detail

Nature-Based Solutions in Agriculture Landscapes

Overview	Framework and tools for NBS design and monitoring
FAO Resources	US\$ 150,000
Application	GEF & Adaptation Fund Projects
Approach	<ul style="list-style-type: none">• Practical agricultural NBS options linked to UNEA definition• Planning approach & PRA tools• Ex-ante multi-criteria assessment• Geospatial tools for NBS planning and monitoring



Food and Agriculture
Organization of the
United Nations



**World
Agroforestry**





Food and Agriculture Organization
of the United Nations

Anticipatory Action for Disaster Risk Management

Strengthen capacities to manage disaster risks from climate change and elsewhere through anticipatory action and social protection

Key Programmes / Initiatives

- Regional shock responsive social protection and anticipatory action programme
- COVID green and resilient recovery programme





Food and Agriculture Organization
of the United Nations

Scaling up access to environment and climate finance

Facilitate access to climate finance and
resources to deliver action on the ground

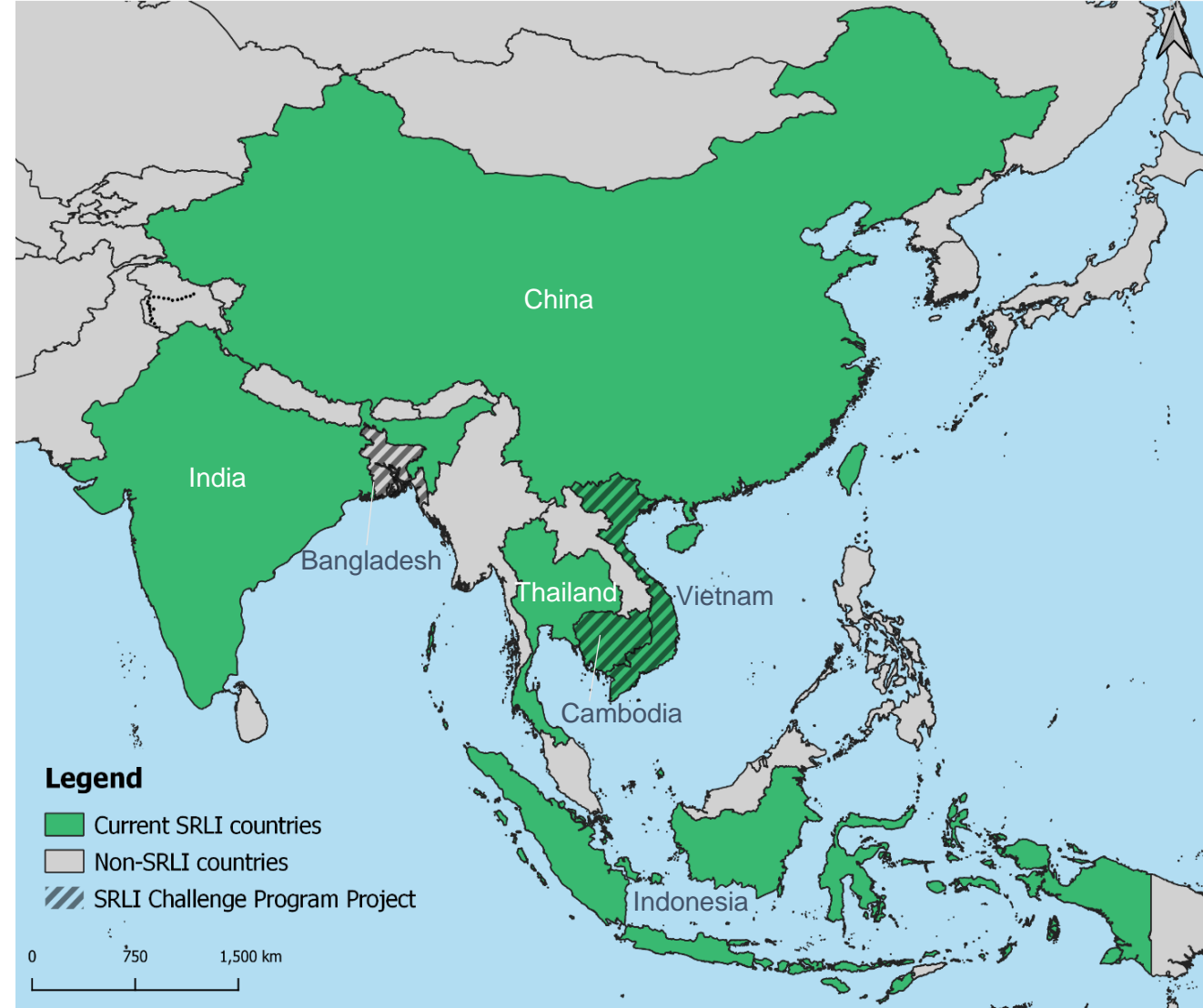
Key initiatives

- Over US\$500 Million FAO-GEF regional ongoing and pipeline projects
- Over US\$275 Million FAO-GCF regional ongoing and pipeline projects
- Developing innovative finance approaches specific to agriculture
- Enhancing access to carbon markets

Key initiative in detail

Sustainable Rice Landscapes Initiative (SRLI)

Overview	Scaling sustainable rice production systems at landscape level
GEF resources	US\$ 49.4 million
Co-finance	US\$ 628 million
Land under improved mgmt	4.2 million hectares
GHG emissions reduced	116.2 Mt CO ₂ -eq
Beneficiaries	841,837 ca. 50% women
Potential for expansion under GEF-8	Pakistan, Bangladesh, Philippines, Nepal, Timor-Leste, West Africa
New partnerships	Design of resilient rice finance facility with IFC



The designations employed and the presentation of material in this map do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations (FAO) concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.



Key programme in detail

Agriculture Readiness for enhanced climate finance in Southeast Asia

Overview	Assessments and investment concepts for resilient, low emission agriculture
GCF resources	US\$ 2.7 million
FAO Co-finance	US\$ 500,000 (TCP)
Selected Outputs	<ul style="list-style-type: none">• National agriculture and climate change investment plans• Innovative finance models at national and regional levels to support climate finance• Agricultural risk finance facility• Compliance market offset projects



Food and Agriculture
Organization of the
United Nations





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of the United Nations

Thank you

Beau.Damen@fao.org

www.fao.org/climate-change



Closing of Day 3





Closing Remarks

Alicia Galacgac Ilaga

Director, Department of
Agriculture-Climate Resilient
Agriculture Office, Philippines,
ANGA Focal Point and
ASEAN-CRN Focal Point



Final Reminders



After Event Evaluation Questionnaire





The 8th ASEAN-CRN Annual Meeting via Zoom

Tuesday, 4 April 2023



SCAN HERE

(Zoom Link)



Food and Agriculture Organization of the United Nations



giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH



MEKONG INSTITUTE

Lunch

