#CAIP2024CLIMATE
ADAPTATION
INVESTMENT
PLANNING
FORUM 2024

17-18 SEPTEMBER 2024

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Climate Bonds

Time	17 September 2024 (Tuesday)	Time	18 September 2024 (Wednesday)
	High-level Opening Session	09:00-10:00	Plenary 3: Funding and financing adaptation
09:00-10:15		10:00-10:30	Lightning Talk: Resilience bonds to leverage private finance
10:15-10:45	Coffee Break	10:30-11:00	Coffee Break
10:45-11:45	Plenary 1: Understanding climate change risk to inform development pathways	11:00-11:45	Partner Marketplace: Adaptation funds, financing instruments and programs
11:45-12:30	Spotlight 1: Foresight thinking for transformational adaptation investments	11:45-12:30	Clinic: Finance matchmaking for adaptation investment plans
12:30-14:00	Lunch	12:30-14:00	Lunch
14:00-15:00	Plenary 2: Making adaptation investments a priority across governments and public and private sectors	14:00-15:15	Policy Roundtable Discussion: Priority actions for enabling adaptation investment planning
15:00-15:30	Coffee Break	15:15-15:45	Coffee Break
15:30-16:15	Spotlight 2: Making the economic and financial case for adaptation investment	15:45-16:30	Closing Session
16:15-17:30	Deep-dive discussions: Prioritizing adaptation investments across sectors	Risk- informed development pathways	Prioritizing adaptation investments Briancing for adaptation investments
18:00-19:30	Reception		nabling environment



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Foresight thinking for transformational adaptation investments









ICIMOD







Spotlight 1: Foresight thinking for transformational adaptation investments



Natasha Kuruppu Climate Change Specialist Moderator



Rathana Peou Norbert-Munns United Nations Food and Agriculture Organization



Siveun Nhak Climate Adaptation and Agriculture Expert



FUTURES THINKING IN ASIA AND THE PACIFIC

WHY FORESIGHT MATTERS FOR POLICY MAKERS

APRIL 2020

Futures thinking and foresight is a powerful planning approach that can help the region meet economic, political, social, and environmental and climate change challenges

(ADB, 2020)

Foresight planning spotlight

Futures-oriented Climate Planning for Agrifood System Transformations at National and sub-national level

Dr. Rathana Peou Norbert-Munns Climate Foresight Planning Specialist and Agrifood system Policy expert Office of Sustainable Development Goals (OSG) and Regional Office of Asia Pacific (RAP), Food and Agriculture Organization of the United Nations

Mr. Nhak Siveun ADB National Climate Change Adaptation expert





"Although there is a broad consensus that food systems need to be transformed, there is much less agreement on how the transformation should be undertaken across diverse types of food systems"

- The UN Secretary-General's Call to Action for Accelerated Food Systems Transformation released at the 1st UN Food Systems Summit Stocktaking (UNFSS+2) in July 2023 in Rome emphasizing, inter alia, the need to "align the implementation of national food systems transformation pathways with the continuous updates of National Determined Contributions (NDCs) and national adaptation plans (NAPs) for climate action".
- The COP28 UAE Declaration on Sustainable Agriculture, Resilient Food Systems, and Climate Action, endorsed by the heads of 159 Member States stressing inter alia that "any path to fully achieving the long-term goals of the Paris Agreement must include agriculture and food system" and affirming that "agriculture and food systems must urgently adapt and transform in order to respond to the imperatives of climate change".

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Overview of the session Foresight, why does it matter? Demystifying foresight

Key methods and approaches



What is foresight planning for food system transformation

Two key policy uses: Integrating foresight planning into long-term policies and climate actions (LTS4CN and CCPAP 2030)





Learning from the futures, anticipating changes and uncertainties?

Futures scenarios is a common tool nowadays for countries, organizations, and firms to design policies and develop strategies that incorporate emerging challenges and uncertainties.

FAO, OECD, WEF, ADB, Shell are among the organizations using this approach to inform policies and strategies

Long history of foresight practices

More than <u>42 years</u> of practices in Singapore within the government

At the ASEAN level, in 1976 in Bali (almost 46 years ago) that the concept of resilience was introduced into the ASEAN discourse in the declaration of ASEAN concord (BALI Concord 1).

Evolution of Foresight in the Singapore Government





ASEAN Carbon Neutrality Guidelines for Agriculture

Study

ASEAN Pathways for Carbon Neutrality in the Agrifood System and Land Uses Sector

Increased uses in the region

•Most recently, a set from foresight modelling and scenarios were used to guide Climate Action for Agriculture for ASEAN with the formulation of an ASEAN Common Position on Agriculture.

•The ASEAN Carbon Neutrality Guidelines for agriculture were endorsed by the AMAF in June 2024

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Enhanced Regional EU-ASEAN Dialogue Instrument E-READI

Key Challenges and limitations

Diverse and Complex Food Systems

 There is consensus on the need for food system transformation, but less agreement on how to undertake this across various food systems. The diversity complicates creating uniform strategies.

Data Limitations

 Accurate foresight requires robust, high-quality data. Many regions, particularly in developing countries, lack reliable data, affecting the accuracy of modeling and scenario development.

Coordination Among Stakeholders

•Foresight planning requires multi-stakeholder involvement. Poor coordination can lead to fragmented efforts, misaligned goals, and inefficiencies in implementation.

Breaking Silos

 Institutional and sectoral silos need to be broken down to align different parts of the food system. However, overcoming these barriers is challenging due to entrenched practices.

Uncertainty of Climate Drivers

•Climate change introduces high uncertainty in foresight planning. Variability in climate projections complicates decision-making regarding adaptation and transformation strategies.

Financing and Investment Challenges

•Long-term transformations need significant financial resources. Gaps in financing for adaptation and new food systems models can slow or hinder transformation efforts.

Technological and Expertise Gaps

•Advanced tools (e.g., GHG modeling, scenario formulation) are essential but not always available, limiting governments' and organizations' ability to anticipate and plan for future changes.

Exploring Foresight usesin Cambodia





Lesson learned of applying foresight in LTS4CN



Around 17 stakeholders meeting, conducted among relevant stakeholders to define the future scenarios of **Carbon Neutrality.**

The scenarios that are actionable, robustness climate ambitions, social and economic inclusions.







implementation of policies and access to climate finance.

The main results: Identification of mitigation strategies and GHG targets



Landscape Restoration

The Cambodia Long-term Strategy fc Carbon Neutrality 2050 (LTS4CN)



OP: by its decision 1/OP 21, paragraph 35, invited Parties to communicate, by 2020, to the secreta entury, long-term low greenhouse gas emission development strategies in accordance with **Article 4**, raph **19**, of the Agreement.



In Cambodia, strategic foresight planning was used to the support the development of FOLU scenarios for the LTS4CN which has been submitted to the UNFCCC on December 31st 2021. Cambodia is the 4th country of the ASEAN to successfully submit their long-term strategy.

The FOLU scenarios consist of three de

were formulated with the CBIT team in FAO Cambodia. Greenhouse gas emissions were estimated using the Nationally Determined Contribution Tool (NEXT) developed by the Food and Aerisulture Scenization (TAO).

How were the scenarios and GHG targets generated?

NEXT is a land-based accounting standard for national and subnational GHD reduction goals, measuring annual cachon stock charges per unit of link (in hectare), methanic (OH4) and rinkso solide (N20) metisions, expressed in tons of carbon dioxide equivalent per year, ICO2 e/year, NEXT provides the annual and cumulated estimation of the potential charges in BHO emissions from a set of atimate actions over 50 years exacting grid NEXT has been developed using the Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas inventories 2006 (IPCC, 2004), the 2013 Supplement to the 2006 IPCC (IPCC, 2014), and the Refinement to the 2006 IPCC (IPCC, 2019).

I could only measure devolvation and arrowstation, FAU team decide to complement with a good that projected the three other imfigation actions potential. FAD lyan/m dockling approache to of GHG emissions have been run through the three FOLU decision-based scenarios with subscenario reflects the two definitions of forest cover in use in Cambodia; the REDD+ definition on bolivor the scenarios key axes.



Forests provide a carbon sink of 50 MtCO2e in 2050

××	Agriculture	 Less methane-intensive rice cultivars Direct seeding practices Alternate wetting and drying practices Promotion of organic fertilizer and deep fertilizer technology Feed additives for cattle Improved fodder management Introduction of composting technology
	Forestry and other land uses	 Reducing the deforestation rate by 50 percent in 2030 Stopping deforestation by 2045 Afforestation, improved forest management and forest restoration Agroforestry and commercial tree plantation Full implementation of the REDD+ Investment Plan by 2050

CCPAP – 2030 Formulations

Over 20 meeting conducted among relevant stakeholders to prioritised and shape the future scenarios in agriculture sectors.



150 drives of changes identified

The driver of changes under each sub-sector address climate adaptation or/and mitigation targets

35 most important driver of changes classififed

The driver of changes that contribute to long term impacts of social economic, environmental and resiliences

3 categories of driver of changes

Key drivers of change that influence the agri-food system.

4 most impactful and uncertain

The drivers of change that shape the transformation and development of the sector, influencing its practices, policies, and outcomes in the longterm policy and institutional reforms, urbanisation and food systems, and behavioural change.

Visioning setting and scenario formulation

The scenario that drives the Cambodia agriculture toward to becoming climate resilient as it moves towards sustainable agri-food system by 2030.





GHG Emission Reduction Potential in the CCPAP 2030



• Afforestation, forest management and agro-forestry are projected to be Carbon Sequestration Potential.

Applying foresight in Climate Adaptation Investment in Northwestern Cambodia

And.. what is inside?





Foresight is a process to facilitate stakeholders to discuss and plan the future priorities in EPOL4



Scanning Climate Risk

Study has developed a set of possible futures to 'stress-test' in EPOL-4:

- Different levels of warming
- Different levels of ENSO variability

CC stories line











09 Adaptation Investment Packages

















