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**Capacity Building Programme  
on the Economics of Climate Change Adaptation (ECCA)**  
*Supporting National/Sub-national Adaptation Planning and Action*

**3<sup>rd</sup> Regional Training Workshop Agenda**  
**Siem Reap Cambodia, 17 September – 20 September**

The Capacity Building Programme on the Economics of Climate Change Adaptation (ECCA) is a cooperative effort between UNDP, the USAID Adapt Asia-Pacific Project, the Asian Development Bank (ADB), the Global Water Partnership (GWP) and Yale University. It addresses a consensus reached during a 2012 Regional Consultation that a more comprehensive approach to mainstreaming climate change risks into planning processes was needed to ensure economically efficient climate change strategies at the sectoral, sub-national and national levels.

The need for training on economic analysis has also been cited by countries during consultations related to support to the National Adaptation Plans (NAPs) process. The NAP process, established under the [Cancun Adaptation Framework](#) (CAF), enables Parties to formulate and implement NAPs as a means of identifying medium- and long-term adaptation needs and developing and implementing strategies and programmes to address those needs. It is a continuous, progressive and iterative process which follows a country-driven, gender-sensitive, participatory and fully transparent approach. Many of the programme's targeted staff are expected to play key roles in their respective NAP process.

The programme was launched at the 2012 Regional Consultation, where it was decided that a regional training programme would be the most efficient way to transfer related skills in the area of assessing the economic costs and benefits of adaptation projects and adaptation options at the sector level, especially as they relate to agriculture and water. The programme is thus comprised of a series of trainings focused on microeconomic tools for assessing the costs and benefits of adaptation. The programme focuses on participating pilot countries in Asia, targeting technical staff in the public sector, specifically those who are or will be involved in sector or project analysis in central agencies including planning, finance, environment and/or line ministries.

In March 2013, the 1<sup>st</sup> regional training session was held where participants were provided an insight into the different methods and data requirements for assessing the economic costs and benefits of adaptation. As post regional training tasks, each ECCA country team was asked (a) to identify a project that could be assessed in terms of associated economic costs and benefits; and (b) undertake preparatory work to analyze the economic impacts of climate change impacts and adaptation in the agriculture and water sector. Several on-line Community of Practice discussions (June and September 2013) and regular interactions between the ECCA country team and a team of mentors, based in the region and at Yale University, took place in order to support country teams with their 1<sup>st</sup> post-regional training tasks and to prepare everyone for the 2<sup>nd</sup> regional training.

At the 2<sup>nd</sup> regional training in October 2013, ECCA country teams were trained on conducting economic cost-benefit analysis. Using both demonstration data as well as in-country data collected by the teams and based on methods introduced at the 1<sup>st</sup> regional training, ECCA country teams were trained on how to apply analytical microeconomic techniques to assess the costs and benefits



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of adaptation. The results of the analysis are aimed at supporting decision-making related to the assessment of alternative adaptation options.

This 3<sup>rd</sup> training will focus on applying the analysis techniques to data collected over the past few months by the ECCA country teams. Teams will undertake a Ricardian analysis on the impacts of climate change on the agriculture sector. Analysis will then shift to studying adaptation. Country teams will explore how their own farmers already adapt to the range of climate within their countries. Different adaptation options will be discussed so that each team can continue their analysis over the next few months and complete their adaptation analysis.

The connectivity between climate and water resources underlies many of the processes of climate adaptation. Changes in the volume and timing of snowmelt and streamflow, affects patterns of water use and management. Using the data and watershed characteristics developed by the ECCA country teams, hydro-economic models and assessment methods will be developed and used to characterize and assess climate change effects on water supply and use, and the effectiveness of alternative adaptation strategies.

The 4<sup>th</sup> workshop next year will move from analysis to results. Each team will present the results of their analyses. Country-specific institutional development response plans and ongoing and new initiatives will be presented to, and discussed by, policy makers.

Time	Topic	Presenter/Facilitator
<b>Wednesday, 17 September 2014- Ricardian Analysis</b>		
8:30 – 9:00	Registration	
9:00 – 9:15	Welcome and Opening Remarks	UNDP USAID
9:15 – 9:30	Introduction of the agenda and expected outputs of the workshop.	Pradeep Kurukulasuriya UNDP
9:30 – 10:30	<b>Introduction to STATA</b> Review Country Data Sets	Namrata Kala
10:30 – 10:45	<i>Coffee Break</i>	
10:45- 12:30	<b>Ricardian Analysis</b> Hands-on Session	Namrata Kala, Jinxia Wang, Eric Mungatana
12:30 – 13:30	<i>Lunch</i>	

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13:30 – 15:30	<b>Ricardian Analysis</b> Hands-on Session (continued)	Namrata Kala, Jinxia Wang, Eric Mungatana
15:30 – 15:45	<i>Coffee Break</i>	
15:45 – 17:00	<b>Ricardian Analysis</b> Hands-on Session (continued)	Namrata Kala, Jinxia Wang, Eric Mungatana
17:00-18:00	<b>Review of Ricardian Results</b> Interpreting Marginal Climate Changes	Namrata Kala and Robert Mendelsohn
<b>Thursday, 18 September 2014 – Water and Adaptation</b>		
8:30 – 9:30	<b>Evaluating Water Systems</b> Overview of the process for hydro-economic modeling of water systems highlighting water demand and supply data, water-use characteristics, and economic outcomes.	Brian Hurd
9:30 – 10:30	<b>Estimating Farm Demand for Water</b> Introduce water to Ricardian model- Hands-on Session	Namrata Kala
10:30 – 10:45	<i>Coffee Break</i>	
10:45 – 11:30	<b>Estimating Farm Demand for Water (continued)</b>	Namrata Kala
11:30 – 12:30	<b>Evaluating Water Projects</b> The techniques of cost-benefit analysis are applied to the assessment and evaluation of water projects and estimating the value of water systems and changes.	Brian Hurd
12:30 – 13:30	<i>Lunch</i>	
13:30-14:30	<b>Water Systems</b> Water-sector results are developed and used in cost benefit analyses under scenarios of climate change, infrastructure, technology, and management; highlighting the evaluation of adaptation capacity. Adaptation 1: water allocation Adaptation 2: dams	Brian Hurd
14:30 – 14:45	<i>Coffee Break</i>	
14:45 – 16:30	<b>Adaptation 1</b> <u>Hands-on:</u> Each country team will analyze the choice of fertilizer	Namrata Kala
16:30 – 18:00	<b>Adaptation 2</b> <u>Hands-on:</u> Each country team will analyze the choice of irrigation	Namrata Kala

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Friday, 19 September 2014 – Adaptation and Cost Benefit		
8:30 – 11:30	<b>Adaptation 3</b> <u>Hands-on:</u> Each country team will analyze crop choice	Jinxia Wang
10:30 - 10:45	<i>Coffee Break</i>	
11:30 – 12:30	<b>Forecasting the Impacts of Climate Change</b> <u>Hands-on:</u> Introduce climate forecasts Estimate future impacts on agriculture	Namrata Kala
12:30 – 13:30	<i>Lunch</i>	
13:30 – 14:30	<b>Forecasting Long Term Adaptation</b> <u>Hands-on:</u> How will farmers adapt by 2050 and 2100?	Jinxia Wang
14:30 – 14:45	<i>Coffee Break</i>	
14:45-17:00	<b>Cost Benefit Analysis</b> Presentation of results from selected countries	TBD
Saturday, 20 September 2014 – Forecasting Impacts		
8:30 – 9:30	<b>Issues with Cost Benefit Analysis</b> Problems with current studies and how to address them	Robert Mendelsohn
9:30 – 10:30	<b>Regional Analysis</b> Ricardian and Adaptation Studies	Namrata Kala
10:30 – 10:45	<i>Coffee Break</i>	
10:45 – 12:30	<b>Future Analysis</b>	Robert Mendelsohn
12:30 – 13:30	<i>Lunch</i>	
13:30 – 14:30	<b>Future Plans</b>	Pradeep Kurukulasuriya
14:30-15:30	<b>Meetings with country teams (as necessary)</b>	
15:30 – 15:45	<i>Coffee Break</i>	
15:30 - 18:00	<b>Meetings with country teams (as necessary)</b>	

Note: Details and times in agenda may change.