



Sharing experiences with Modelling System of Agriculture Impacts of Climate Change (MOSAICC)

19 July 2019

Kornkamol Room (2nd Floor)
The Sukosol Bangkok
Bangkok, Thailand

Background

Information on the impacts of climate change is a primary resource for policy makers trying to cope with climate change. In recent years, scientists have developed a range of different models to monitor, evaluate and predict the effects of climate change; however, this information is often incomplete or focused exclusively on one scientific domain. The Food and Agriculture Organization of the United Nations (FAO) in partnership with research institutes, developed the Modelling System for Agricultural Impacts of Climate Change (MOSAICC) - an innovative, interdisciplinary and country-driven approach as an ideal tool to carry out climate change impact assessment studies at the national level. The aim of MOSAICC is to build capacities of experts in countries to understand potential climate change impacts better, and to help policymakers with climate change adaptation strategies, programmes, projects and investments.

Purpose

MOSAICC has been transferred and implemented in a number of countries over the last years, all will diverse climate contexts and national objectives. The workshop aims to bring together countries to share their experiences, lesson learns and recommendations for the future of MOSAICC. The workshop

will also encourage countries with interests in implementing MOSAICC to ask questions and gain knowledge from peer-to-peer exchange and hands on activities.

The workshop aims:

- To share country experiences of MOSAICC implementation and how the output was used and linked to the adaptation policy
- To share the challenges the countries faced, lessons learned and recommended changes for future implementations of MOSAICC in new countries
- To discuss further potential for wider adoption, including regional applicability of the methodologies

Outcomes

The purpose will be achieved through knowledge and information exchanges, presentation of results and outcomes, and establishing communication between participating countries and supporting technical and development organizations. The workshop is expected to have the following outcomes:

- Shared state of knowledge and experiences with country implementation of MOSAICC
- Shared understanding of the challenges the countries faced and how these were addressed
- Prioritization of the area/topics for the improved MOSAICC and related tools for strengthening climate change risk and vulnerability evidence;
- Inputs provided and opportunities for potential collaborations discussed to establish a regional network for improved production of climate change risk and vulnerability evidence.
- Basin training and understanding of the components of MOSAICC and minimum requirements for implementation in candidate countries

Outputs

The workshop will have the following output(s):

- Partnerships among MOSAICC countries and new countries with interest
- Future plan for improving MOSAICC as a tool for supporting evidence-based climate change adaptation, and for promoting MOSAICC for wider implementation
- Knowledge and experiences documented for sharing with old and new MOSAICC countries

Participants

The workshop is targeted primarily at national- and sub-national level policy makers, technical officers in the national ministries and in international organizations, and researchers in academic institutions.

Program Outline for MOSAICC Workshop

Time	Session	Speakers
Day 1		
08.30 – 09.00	Registration	FAO
09.00 – 09.30	Opening remarks, introduction to the WS & introduction of participants	FAO, Partners
9.30 – 11.00	<p>Session 1: MOSAICC experience and country example with Q&A</p> <p><i>Sharing the experience of MOSAICC implementation in Indonesia and the Philippines. Follow-up discussion of other examples.</i></p> <p>Format: Brief introduction of MOSAICC overview, followed by presentations on the implementation and outputs of each component of MOSAICC in Indonesia, and the Philippines, and time for discussion on challenges faced and how they were addressed, recommendation for the future of MOSAICC.</p> <ul style="list-style-type: none"> • Discussion of implementation and outputs of climate component (Indonesia) • Implementation and outputs of crop component (Indonesia) • Implementation and outputs of hydrology component (Indonesia) • MOSAICC implementation and AMICAF project (Philippines) <p>Discussion and Q&A</p>	<p>FAO HQ</p> <p>Ari Kurniadi, Center of Climate Change Information, BMKG</p> <p>Yayan Apriyana, Ministry of Agriculture, Research and Development Agency</p> <p>Budi Kartiwa, Ministry of Agriculture, Research and Development Agency</p> <p>Roberto Sandoval, FAO</p> <p>FAO and experts</p>
11.00 – 11.30	Coffee break	
11.30-1.00	<p>Session 2: Introduction to MOSAICC functions with Q&A</p> <p><i>Introducing the basic functions of MOSAICC</i></p> <p>Format: Presentation and demo:</p> <ul style="list-style-type: none"> • Basic structure and data flow • Demonstration of some components and functions <ul style="list-style-type: none"> ○ Climate downscaling ○ Crop modelling ○ Hydrological modelling <p>Discussion and Q&A</p>	<p>José Gutiérrez (University Cantabria)</p> <p>Olivier Crespo (University of Cape Town)</p> <p>Ate Poortinga (Spatial Informatics Group)</p> <p>FAO and experts</p>
1.00 – 2.00	Lunch	
2.00 – 3.30	<p>Session 3: MOSAICC applicability to the Asia and Pacific region and open discussion</p> <p><i>Discussion on the technical applicability of MOSAICC in the regions, how MOSAICC can address country needs. Discussion from current and potential future MOSAICC countries on how it could be implemented in their context and how to overcome challenges identified in past applications</i></p>	<p>Representatives from countries and technical institutions</p> <p>Ari Kurniadi, Yayan Apriyana, Budi Kartiwa (Indonesia)</p> <p>Edna L. Juanillo and Phoebe Pua (Philippines)</p>

	<p>Format: Panel discussion with questions posed to each panel member</p> <ul style="list-style-type: none"> • Indonesia: During implementation of MOSAICC in Indonesia, how did the process address the needs of countries? Were any needs not addressed through the process? • Philippines: How can we ensure the link between MOSAICC outputs and adaptation policy making in agriculture? • Sri Lanka: Using the examples in other countries, what are your expectations for MOSAICC and how could the process be tailored to suit your country context? • Vietnam and Pakistan: How would you see MOSAICC being implemented in your country and would you suggest any changes to the current process? • Sri Lanka (Dep. Ag.): How can we ensure the link between MOSAICC outputs and adaptation policy making in agriculture? 	<p>Buddhi Marambe, Preethika Madhawe Jayakody (Sri Lanka)</p> <p>Mai Van Khiem, Pham Thi Dung and Le Thanh Hai (Vietnam)</p> <p>Muhammad Arif Goheer (Pakistan)</p> <p>B V R Punyawardena (Sri Lanka)</p> <p>FAO and experts</p>
<p>3.30 – 4.00</p>	<p>Coffee break</p>	
<p>4.00 – 5.30</p>	<p>Session 4: Potential opportunities, collaboration, and future development of MOSAICC</p> <p><i>Discussion of potential for MOSAICC in countries, potential funding opportunities and collaborations</i></p> <p>Format: Presentation (10-20 mins) and plenary discussion</p> <ul style="list-style-type: none"> • Minimum requirements for application in new countries • Presentation on funding options for climate change impacts assessment and adaptation/mitigation planning • Potential collaborations • Ideas for future direction of MOSAICC and complementary tool used for project development 	<p>Open discussion - FAO and/or partner countries, researchers</p>