Syllabus

1. Title: Economywide Assessment of High Impact Animal Diseases

2. Duration: 14-18 January 2013

3. Venue: InterContinental Hotel, Phnom Penh, Cambodia

4. Sponsor: Food and Agriculture Organization of the United Nations (FAO/ECTAD)

5. Implementing Organization: Cambodian Economic Association (CEA)

6. Introduction

The project “FMD Control in Southeast Asia through Application of the Progressive Control Pathway” aims to improve the control and management of FMD through the application of the Progressive Control Pathway (PCP) for FMD in each of the participating countries (Cambodia, Lao PDR, Myanmar, and Vietnam). Socio-economic impact assessments are an essential component of the PCP to assess the costs of FMD and FMD control strategies, with the objective to assess priorities for resource allocation and advocate for additional funding. In addition, the assessment of the potential benefits and compliance incentives of affected agents in the value chain contributes more generally to the identification of sustainable and effective disease control strategies.

7. Rational

Available FMD and other high impact animal disease risk assessments have identified large-scale socio-economic losses for affected actors in the value chains of livestock sub-sectors. SEACFMD and GF-TAD recommend more national level impact assessments to provide relevant, actionable information for decision makers and advocate for funding for FMD control strategies. Several FMD impact assessments are available for affected countries in Southeast Asia. These assessments have been useful to estimate FMD related losses in selected production systems. However, the available studies do generally not account for the multiple socio-economic impacts such as on livelihoods, food security, and economy-wide market price and trade effects. In addition, the available assessments lack identification of value chain actor incentives for sustainable compliance with FMD control measures.

8. Objective

The objective of this training workshop is to build the capacity of government technical staff in operating and maintaining analytical tools and databases to support more effective risk assessment, communication, and policy response. Upon completing this workshop, participants should be equipped to upgrade their own national data resources and use them to support evidence-based risk management in their domestic livestock sector.

• This course offers an introduction to the economic theory and practice of animal disease risk assessment, with emphasis on economywide impacts as
these arise from interactions and spillover effects.

- The course will combine theoretical and empirical material with the latest data and software resources, training participants to assess high-impact animal disease risk, conduct scenario analysis of alternative policy responses, and communicate their findings effectively.

9. Course Schedule

The course will be taught in two modules:
- Lectures: January 14-18, 9:00-12:00
  This module presents a comprehensive introduction to the economics of climate risk assessment, including theory, data development, and practical evaluation techniques.
- Workshops: January 14-18, 13:30-16:30
  These are hands-on, in-class workshops with supervised training to use climate risk assessment tools.

10. Course Outline

Lecture 1: Introduction to the Economics of Animal Disease Risk Assessment
Lecture 2: Data Resources for Risk and Response Assessment
Lecture 3: Scenario Tools and Models for Economywide Assessment
Lecture 4: Applied Policy Analysis – Using the Models
Lecture 5: Tools for Statistical and GIS Analysis

11. Participants

The training course will be held on five days and bring together 10 participants from the Cambodian government and research institutions.

12. Qualifications of Participants

The recommended qualifications, the participants should:
- be familiar with Economics and Statistics;
- have analytical skills and understanding of Cambodian agriculture;
- have prior experience with Microsoft Excel and basic computer programming;
- be able to attend the full training course.

13. Course Materials

- To conserve resources, all course content will be electronic, including lectures, and supporting background material.
- Lectures and readings will all be posted a dedicated course website: http://are.berkeley.edu/~dwrh/OAE_Climate/index.html
- Participants must each bring an individual, MS Office equipped laptop (PC or Mac) to each of the two daily sessions.
- Participants will be given Internet access during the class and should have such access outside of class, throughout the week.
- Other computer software and data will be made available electronically.

14. Language

The training will be conducted in English.
## Tentative Participant List

**Training Workshop**  
**Economywide Assessment of High Impact Animal Diseases**  
14-18 January 2012  
InterContinental Hotel, Phnom Penh, Cambodia

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 CHHAIR, Sokty (Mr)</td>
<td>Cambodian Economic Association (CEA)</td>
<td><a href="mailto:chhairssokty@yahoo.com">chhairssokty@yahoo.com</a></td>
</tr>
<tr>
<td>2 CHAIWAN, Anaspree (Ms)</td>
<td>Chiang Mai University</td>
<td><a href="mailto:anaspree@gmail.com">anaspree@gmail.com</a></td>
</tr>
<tr>
<td>3 CHENG, Savuth (Mr)</td>
<td>Hello Trust</td>
<td><a href="mailto:jupitercsv@yahoo.com">jupitercsv@yahoo.com</a></td>
</tr>
<tr>
<td>4 EAR, Sothy (Mr.)</td>
<td>Ministry of Industry</td>
<td><a href="mailto:thy_ear@yahoo.com">thy_ear@yahoo.com</a></td>
</tr>
<tr>
<td>5 HEFT-NEAL, Sam</td>
<td>University of California, Berkeley</td>
<td><a href="mailto:sheft-neal@berkeley.edu">sheft-neal@berkeley.edu</a></td>
</tr>
<tr>
<td>6 HENG, Dyna (Mr)</td>
<td>Cambodian Economic Association (CEA)</td>
<td><a href="mailto:dynaheng@gmail.com">dynaheng@gmail.com</a></td>
</tr>
<tr>
<td>7 HINRICHS, Jan (Mr)</td>
<td>FAORAP/ECTAD</td>
<td><a href="mailto:jan.hinrichs@fao.org">jan.hinrichs@fao.org</a></td>
</tr>
<tr>
<td>8 LUN, Pide</td>
<td>Cambodia Development Resource Institute (CDRI)</td>
<td><a href="mailto:Pide@cdri.org.kh">Pide@cdri.org.kh</a></td>
</tr>
<tr>
<td>9 MEACH, Romnea (Ms)</td>
<td>National Bank of Cambodia (NBC)</td>
<td><a href="mailto:meachromnea@yahoo.com">meachromnea@yahoo.com</a></td>
</tr>
<tr>
<td>10 NGO, Sothath (Mr)</td>
<td>Cambodian Economic Association (CEA)</td>
<td><a href="mailto:sothath@gmail.com">sothath@gmail.com</a></td>
</tr>
<tr>
<td>11 PHIM, Runsinarith (Mr)</td>
<td>UNDP</td>
<td><a href="mailto:runsinarith.phim@gmail.com">runsinarith.phim@gmail.com</a></td>
</tr>
<tr>
<td>12 ROLAND-HOLST, David (Mr)</td>
<td>University of California, Berkeley</td>
<td><a href="mailto:dwrh@berkeley.edu">dwrh@berkeley.edu</a></td>
</tr>
<tr>
<td>13 ROTH, Vathana (Mr)</td>
<td>Cambodia Development Resource Institute (CDRI)</td>
<td><a href="mailto:vathana@cdri.org.kh">vathana@cdri.org.kh</a></td>
</tr>
<tr>
<td>14 TRY, Sothearith (Mr)</td>
<td></td>
<td><a href="mailto:trysothearith@gmail.com">trysothearith@gmail.com</a></td>
</tr>
</tbody>
</table>
# Training Course on
## Economywide Assessment of High Impact Animal Diseases
### 14-18 January 2012

**InterContinental Hotel, Phnom Penh, Cambodia**

## Training Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>8:30-9:00</th>
<th>9:00-9:30</th>
<th>9:30-12:00</th>
<th>13:30-16:30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday</strong> 14 January 2013</td>
<td>Registration</td>
<td>Opening and Photo session</td>
<td>Introduction to the Economics of Animal Disease Risk Assessment (Lecture)</td>
<td>Introduction to Software Tools for Modeling, Statistics, and GIS (Workshop)</td>
</tr>
<tr>
<td><strong>Tuesday</strong> 15 January 2013</td>
<td>9:00-12:00 Day Resources for Risk and Response Assessment (Lecture)</td>
<td>13:30-16:30 Multiplier Analysis with Social Accounting Matrices (Workshop)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wednesday</strong> 16 January 2013</td>
<td>9:00-12:00 Scenario Tools and Models for Economywide Assessment (Lecture)</td>
<td>13:30-16:30 Introduction to CGE Modeling (Workshop)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thursday</strong> 17 January 2013</td>
<td>9:00-12:00 Applied Policy Analysis – Using the Models (Lecture)</td>
<td>13:30-16:30 Introduction to GAMS (Workshop)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Friday</strong> 18 January 2013</td>
<td>9:00-12:00 Tools for Statistical and GIS Analysis (Lecture)</td>
<td>13.00-15.00 Introduction to R (Workshop)</td>
<td>15.30-16.00 Certificate Awards &amp; Closing Ceremony</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- 12:00 – 13.30 → Lunch