What are the major challenges facing Mekong universities for integrating climate change?

How is the job market changing and how do we adequately prepare our students?

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Challenges from Our Perspectives

1) What are the capacity needs at your university to better integrate and teach climate change topics?

2) What are the key human resources already available at your university upon which you might draw?

3) What kinds of learning resources are currently available for each topic (texts, online materials, practicums, lab facilities, computing facilities, libraries, )?

4) What challenges are there to meeting these needs (language/technical terms, etc)?
Challenges – Time and Resources

**Time** – There is rarely enough time for professors in the region to learn outside of the University. Professors are very busy as it stands, so how can we expect them to revise existing curricula.

Students similarly rarely have opportunities to learn outside of the classroom settings.

**Resources** – There are limited resources for Universities to develop Climate Change tracks/programs. This is rapidly changing (example – Harvest Cambodia).
Challenges – Language Barriers

Language – most climate change training materials are in English or other European languages.

Translation of climate change educational material is particularly difficult and often tedious / time consuming.

- Example: In REDD+ we commonly use words like “additionality”, “permanence” and “leakage” which don’t translate easily to other Mekong languages.

Translation of climate change materials rarely includes the lesson plans and how to facilitate/ educate.
Challenges – Too Fast, Too Technical

This is all happening so fast and it is difficult to keep up!

Technical Understanding –
What do I need to know and how do I translate this into something my students can learn?

Do I wait for additional clarity from international community?
Examples:
- UNFCCC, IPCC, and/or the latest coming from COP 18
- Standards and Methodologies – What do we teach?
- Compliance versus Voluntary Market – Do we wait?
Challenges – Job Market

Where will the students come from? NRM/ Forestry? Ecology? Sociology? Economics?

Do the students understand the opportunities in the workplace? Do we know what the employers want?

“Will there be enough demand to fill my classroom?”

The workplace for Climate Change is rapidly changing and we need to be aware of the challenges and opportunities.
2012 edition focuses on those REDD+ projects in the pipeline (currently only those that are verified/ transacted but will be expanded to those pilot demonstrations).

Basic take home message from this report. 424 million USD in 2010. Similar to 2009.
Opportunities – Job Market

Huge amounts of money in bi-lateral and multilateral funding for Climate Change mitigation and adaptation.

Some examples:
UN-REDD Phase II / Norwegian government for Vietnam - $100 million USD
USAID Sustainable Landscapes for Vietnam and Cambodia (Vietnam awarded last week).
- $20+ million just for Cambodia – 5 years
- $30+ million just for Vietnam – 5 years
## Opportunities – Job Market

<table>
<thead>
<tr>
<th>Current or recent project</th>
<th>Main funding source</th>
<th>Funding (M USD)</th>
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<tbody>
<tr>
<td>SUFORD</td>
<td>WB-MFAQ</td>
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<td>ADB, IFAD</td>
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<td>CLIPAD FC Module</td>
<td>KfW</td>
<td>14.0</td>
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</table>
Teaching both Climate Change Concepts to Project Management

We probably need both! Yesterdays discussion –students need inter-personal communication skills, problem solving..

How can we provide students with actual hands-on experiences that will serve them in the job market?

- Project management experience, proposal writing, etc.
- Teamwork skills/ Presentation skills
- Using GIS/ Remote Sensing
- Using survey tools – such as socio-economic surveys
Example:

Project development cycle:

1. Scoping
   - project area
   - strategies
   - standards
   - nesting

2. Baseline
   - reference region
   - area change
   - emissions factors
   - bau projection

3. Additionality
   - estimate emissions avoided with change from bau

4. Buffers & Discounts
   - leakage estimate
   - permanence estimate

5. MRV (ante)
   - monitoring plan
   - reporting (PDD)
   - validation & registration

6. MRV (post)
   - monitoring
   - reporting
   - verification

Transact Credits
Implement Project