Mainstreaming Climate Change Adaptation through Higher Education: Role of Universities

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Trends of CCA and DRR
Climate Change Adaptation and Disaster Risk Reduction

• Increasing focus on working in local level: from central/federal to local government and community

• Increasing focus on multi-disciplinary, multi-stakeholder approach

• Evolution from theory to practice: from technology to implementation
Mainstreaming: GET Matrix

- **G**overnance [through different sectors: water, health, agriculture]

- **E**ducation [Focus on higher education, Generation of young professionals]
  - Focus on higher education
  - Generation of young professionals

- **T**echnology [innovations: scope of private and public enterprises]
  - Implementation Oriented Technology (IOT)
  - Process Technology (PT)
  - Transferable Indigenous Knowledge (TIK)
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<th>Thematic Focus on CCA Research</th>
<th>Governance</th>
<th>Education</th>
<th>Technology</th>
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<td>Coastal zone management</td>
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**Need more focus on Process Technology**

**LEGEND**
- Ø: High emphasis
- △: Relatively less emphasis
- ×: Neglected
- X: Not yet done
Way Ahead

- Breaking traditional disciplinary boundaries
- Customizing social and engineering solutions

Example: Human Security Engineering
Asian University Network of Environment and Disaster Management (AUEDM):

www.auedm.net

Network has presence in 8 out of 10 ASEAN countries

31 universities from 17 countries and region

Observers and /or Advisors

ADRRN, CWS-AP, Myanmar Engineering Society
GTZ Pakistan, SEEDS, United Nations University

Updated list as of December 2012
AUEDM Target

Higher education in DRR
Field based Experimental

Research on Climate Change Adaptation: Increasing focus on Process based approach

Collaboration with NGO networks

Target of AUEDM

- To share and work together (bilaterally and/or multilaterally) in promoting environment and disaster management in higher education (focusing on, but not restricted to, post-graduate education)
- To seek possibilities of mutual collaboration on field-based action research
- To broaden the scope of education and learning in the environment and disaster management field through collaboration with other stakeholders like NGOs and local governments
Corroborations with other Network

Local Network [city / private sector]

ADRRN

AUEDM

www.auedm.net

Asian University Network of Environment and Disaster Management (AUEDM)
Key specific needs: ASEAN

- **CCA COE University:** Identify at least one university in each ASEAN nation as the COE for CCA research and education.

- **CCA Courses:** Establish higher education courses [master or diploma, based on market need] in those universities.

- **CCA Faculty development:** Regional faculty development program in ASEAN region.

- **Young professional development:** Provide specific research grant and/or scholarship to undertake innovative implementation/policy research, especially targeting young professional.