The Changing Roles of the University amidst Climate Change: The UP Baguio Experience

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Introduction

- Climate Change is largely an effect of anthropogenic causes
- "Unsustainable" development models and practices are largely the work of the schooled/educated people: those with PhDs, engineers, architects, economists, business owners and managers.
- Universities are part of the problem
- Universities can also be part of the solution

Objectives

- Illustrate UP Baguio's initiatives on climate change adaptation, DRRM and sustainable development
- Discuss the key principles and concepts that guided the initiatives
- 3. Identify major lessons learned
- 4. Determine the ways forward

UP Baguio's Context



A Constituent unit of the University of the Philippines system (a relatively young CU)

An Arts and Sciences University



Mandated to serve the Cordillera and northern Luzon





Situated in an upland ecosystem with growing problems in resource management and vulnerability

Community Engagement

Research



The triple roles of the University

Holistic and Interdisciplinary Approach: e.g. Climate Change and Sustainability Science

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Challenges for innovation in the academe

- Complex in that they deal with social, cultural, political, economic, aesthetic, scientific, technological, and ethical dimensions;
- Contested and Controversial in that there are different perspectives on a particular issue;
- Emergent in that our understandings of the issue may change over time;
- Characterized by uncertainty and risk, i.e., we do not know everything about a situation (knowledge is fallible);
- Contextual, in that issues vary in different contexts.

Green Campus Policy

Approved by UP Baguio's University Council, this comprehensive policy contains guidelines in ALL areas of academic, administrative and campus infrastructure/physical plant development.

Curriculum Development and Instruction

- Conducted the University Sustainability Assessment Tool (USAT)
- Reviewed the Master of Arts in Social and Development Studies (MASDS)
- Instituting a course on Climate Change and Disaster Studies
- Establishing the Master of Science in Conservation and Restoration Ecology (MsCARE)

Principles for innovations in CURRICULUM DESIGN

- Developing a more holistic view of knowledge- showing how different disciplines complement each other/add value to each other
- Generating new forms of knowledge through multi-disciplinary, interdisciplinary and trans-disciplinary approaches to research and learning
- Developing a more situated approach to knowledge, and seeking out the relationships between culture, knowledge and social changes
- **Recognizing the fallibility of knowledge**
- Developing a reflexive (evaluative and practical) approaches to working with knowledge; and
- Prioritizing responsible and ethical applications of knowledge.

Research

- Established the Climate Change Program and Sustainability Science Program under the Cordillera Studies Center- this became the blue print for CCA and DRRM projects and activities at UPB
- Carried out action-research projects in partnership with the UN World Fund Program such as...

UNWFP—supported projects

- Enhancing stakeholders' capability in utilizing the rainfall threshold in the landslide early warning system of Tublay, Benguet (September 2012-August 2013)
- Spatial distribution, vegetation pattern analysis and soil stabilization through revegetation of natural landslides in Atok, Benguet Province to increase resilience of local communities (January-August 2013)

Innovations in research require...

•Re-orientation of epistemology (our ways of knowing)

addresses the complex and dynamic interactions between nature and society (socio-ecological systems)

e.g. "Sustainable Science."

Re-orientation and broadening research methodologies.

Greater acknowledgement of the need for a more pluralist approach to knowledge generation. This requires the use of diverse research methodologies and more reflexive approaches.

Re-orientation of research purposes and outputs-

May include a renewed commitment to research that **empowers** all of members of society to make informed decisions. This implies contributing information, options and analysis that facilitates processes of social learning.

Using research results effectively and ethically

Community Extension and Public Service: the case of the KTRC



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ACTION-RESEARCHES





CAPACITY BUILDING





POPULAR EDUCATION





AUTOMATED WEATHER SYSTEM





Lessons learned

- There is a strong case for closer links between teaching, research and community engagement work in response to climate change and disasters;
- Values, ethics and professional ethics are central to the change processes;
- Innovations in curriculum and research touch on issues of multi-disciplinarity, inter-disciplinarity and trans-disciplinarity.

Lessons Learned

 Institutional change is effective IF there is a coherent, consistent and consensual action by ALL stakeholders of the University: administration, faculty, students, staff, alumni and supporters (e.g. funding agencies)

Ways forward

- Complete the ongoing efforts in the three functional areas
- Consolidate the gains by evaluating the completed projects and drawing lessons from them
- Replicate and customize the good practices to other areas in the Cordillera region
- Upscale academe-based initiatives by linking/networking with other higher education institutions in the Cordillera region and the nation

Conclusion