# Globalization and Fisheries Management: what does it mean for educators?

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#### **Outline**

- Current situation
- Challenges in higher education
- Potential approaches
- Reflect on future

# Marine and Freshwater Fisheries Management

- FW / SW have maintained somewhat separate existence
- Greater number traditional programs inland fisheries management

# Developing and Developed World

- Global markets and demand for access
- Recreation
- Food market and subsistence
- Need for education

## Challenges to Educational Systems

- Economic resources
- Competition between programs within and among institutions
- Pace of change
- Demographic challenges

### **Increase Participation of Diverse Stakeholders**

- Recruitment and retention of minorities---majorities??
  - Women
  - Aboriginal peoples
  - Hispanics
  - Asian
  - African Americans

#### **Economic Realities**

- Academic programs faced with reduced funds for discretionary spending and program development
- Increased federal oversight of external funding
- Universities have developed an entrepreneurial vision for survival

# Focus & Dilemma for Traditional F & W Programs

- Local or regional perspective of state /provincial agencies
- Need for mixing of ideas, and skills to integrate local with larger issues
- Policy relevant information needed at all levels

### National and International Needs

- Focus research and educational themes to integrate understanding ecological functions and biodiversity
- Knowledge of communities, governance, and the needs of developing countries for food safety, and sustainable resources

# Can We Develop Sustainable Natural Resources?

- We must weave the our disciplines to understand and face the international challenges
  - Environmental
  - Social
  - Economic

### The Future Challenge

- Future leaders need to have access to spatially explicit information of many sources
- Future leaders need expertise in policy and social/economic factors
- Future leaders need sensitivity to multi-cultural views and approaches

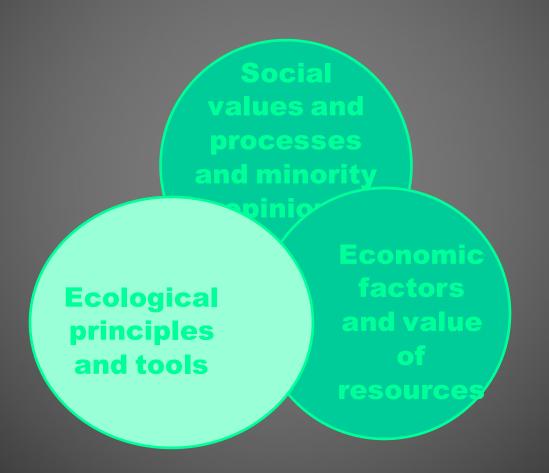
### Global Communities Needs

- Integrated and sophisticated skills in modeling and ecology
- Threats from invasive species from increased commerce and transport
- Climate change

### Interpersonal skills

- Training in methods for co-management
- Negotiation skills
- Decision making tools

### Bridging Ecology, Culture and Governance



#### Recommendations

- Foster exchanges among programs using technological tools e.g. web classes, Skype ....
- Recognize the need to train for global service and needs
- Foster sense of responsibility among students to global issues