

Global Conference on Aquaculture 2010

Farming the waters for People and Food

22-25 September 2010, Phuket, Thailand

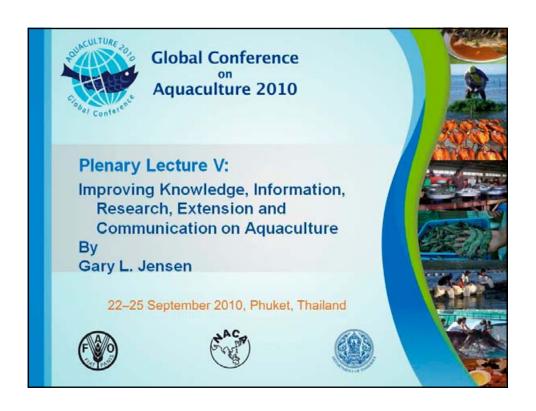
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Expert Panels Afternoon

- V.1 Investing in research, communication, training/extension for responsible aquaculture, Brian Davy
- V.2 Servicing the aquaculture sector: role of state and private sectors, Michael Phillips



Expert Panels Tomorrow

- V.3 Progressing aquaculture in this knowledge economy through virtual technology and decision-making tools for novel management, Joao Gomes Ferreira
- V.4 Information and data needs: a strategy for improving aquaculture statistics, Xiaowei Zhou



Knowledge Systems for Sustainable, Responsible Aquaculture

- Integrate interdependent themes
- Knowledge-intensive and –driven development
- Operational across local to global scales
- <u>Collective</u> contributions define and solve problems for social, economic and environmental goals











Talking Points Knowledge Systems Elements Human resources Generation and innovation Translation and synthesis Extension and transfer Information and communication

Aquaculture Production Systems

everything to everyone – not one defined "industry"

- Alternative
- Sustainable
- Industrial
- Corporate
- Multinational
- Subsistence
- Multi-level intensification
- Urban-rural
- Integrated

- Traditional
- Contemporary
- Natural
- Niche (organic)
- Family (household)





Capacities and Competencies

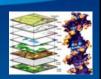
- Human resources development
- Determine public value from knowledge systems
- · Resources required drive knowledge programs
- · Basis for problem-solving across scales







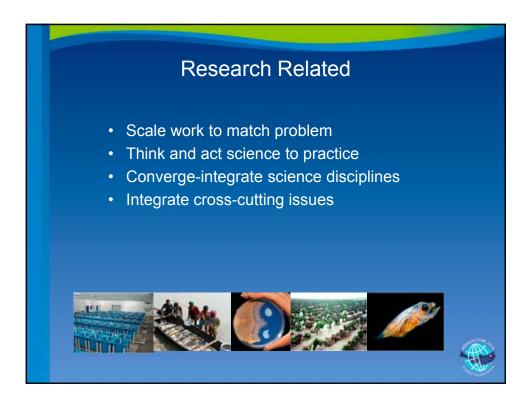
The Research Enterprise (Knowledge Generation)



- Basic or fundamental study of living processes universal in application to scientific knowledge
- Applied problem-solving, evidence-based improved practices and technologies
- Directed requests for specific scientific area or question
- Investigator-initiated researcher question or hypothesis

Contributors – academia, government, industry, farmers, NGOs







Research Related Show me - field testing and yield verification International partners-collaborators Proof-of-concept or innovation centers Entrepreneurism to commercialize technologies



Research Related • Know regulatory approval factors • Avoid duplication – state of knowledge • Communicate outcomes and outputs • Conduct external third-party reviews



Integrated Solutions Research-Extension



- Complementary functions for success
- Bidirectional relationship
- Multi's institutional, functional and disciplinary
- · Effective best practice models





The Extension Enterprise (Outreach)

- · Most important resource is capable people
- Connect knowledge system where people live and work
- Preferred source unbiased knowledge "brand excellence"
- "Informal education" as a profession





Scholarship in Extension

- · Peer-reviewed publications
- Increasing literature on effective practices
- · Practical use of new tools and technologies
- · Career-long learning and professional development









The Extension Toolkit

Limited tools impact effectiveness like research

- Subject matter competency
- · Research support and sources credible knowledge
- Scope and quality of networks
- · Program and delivery resources











Extension Education Delivery Models

Delivery options may affect:

- who gets information
- how programs are delivered
- de-emphasize public goods
- cooperation
- quality
- incentive for public support
- private sector opportunities



No single model for effective program delivery

(personal creativity and innovation to achieve learning objectives)



Extension Related Public education Apply specialized and advanced research Range clientele needs Rapid response to emerging problems







Reporting Public Value Political Capital Drives Resources Identify standard impact indicators Aggregate measurable outcomes at desired scale Align with national goals and priorities Estimate economic and social contributions



