

Global Soy in Aquaculture



Michael C. Cremer, Ph.D.
2011 GAA GOAL Conference
Santiago, Chile Nov 6-9, 2011



Expand Aquaculture Marketing and Research Activities

Global 'Soy in Aquaculture' program with linked international marketing and research



Location Focus

- **Primary focus on China, 6 countries in Southeast Asia and Latin America**
- **Secondary focus on Mediterranean Europe, Turkey, Egypt and India**



Key Program Components

- **Development of soy feeds and production technologies that promote sustainability, food safety and environmental protection**
- **Global technical support in fish nutrition, feed formulation, mill O&M, and quality control**
- **On-farm demonstrations of soy feeds and sustainable technologies**
- **Linked marketing and research programs**
- **Promotion of soy-aqua sustainability message**

China

- **Expand ASA-IM program in response to growing China demand; add a 3rd full-time domestic staff person**



China

- Work with MOA & MEP to establish sustainability limits associated with current pond renovation program



China

- **Introduce Intensive Pond Aquaculture Technology developed in United States**



**500% increase in sustainable
production in existing pond systems**

Southwest Asia

- Focus program on tilapia, pangasius catfish and marine fish culture
- SEA as primary marine fish supplier to East Asia region in the future



Southeast Asia

- **Expand ASA-IM program in Vietnam – add a full-time technical manager in response to industry growth**



Southeast Asia

- **Demonstration of new soy products – Schillinger high protein and ultra-low oligosaccharide soybean meal**

**New Soybean Varieties
for Aquaculture[?]**



Latin America

Strategy and tactics focused on promoting aquaculture investment in the region



Latin America

- [?] Latin America as a primary supplier of cultured aquaculture products for the region and the United States



Latin America

- **Demonstration of new soy products – Schillinger high protein and ultra-low oligosaccharide soybean meal**

**New Soybean Varieties
for Aquaculture[?]**



Turkey

- Focus on demonstration of new soy products for sea bass and sea bream – soy feeds for trout



Egypt

- Focus on demonstration of soy feeds, sustainable production technologies and improved stock quality for tilapia
- Sea bass and sea bream culture (future)



Mediterranean Europe

- [?] Focus on research evaluation and demonstration of new soy products – Schillinger high protein and ultra-low oligosaccharide soybean meal

**New Soybean Varieties
for Aquaculture[?]**



India

- Focus on demonstration of soy feeds, feed mill development, diversification of culture species, and improving marketing and distribution channels

