UiT

THE ARCTIC UNIVERSITY OF NORWAY

Global Aquaculture growth & Institutional Quality

Nadarajah Suthamathy Co-author: Ola Flaaten BFE, NFH, UiT.

International Institute of Fisheries Economics and Trade (IIFET) 18th Biennial Conference, Aberdeen, Scotland, UK. July 11th - 15th 2016



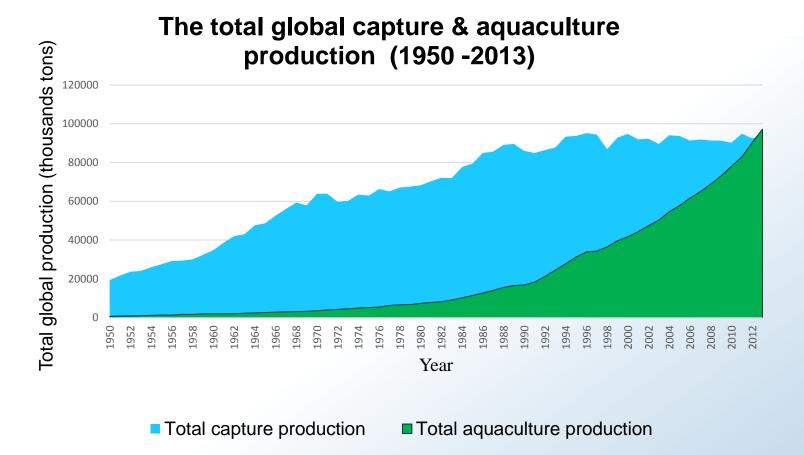
Factors affecting aquaculture production

Aquaculture: "Art of rearing aquatic organisms under either controlled or semi-controlled condition for human needs".

- 1. Farming area
- Market and cost
- 3. Management practices & technology
- 4. Climatic factors
- 5. Institutions
- 6. Social environment

Aquaculture: Global status and Trends

- Sector contributed 42.2% to the total global seafood production in 2012 (25.7% in 2000).
- Total aquaculture production was 97.2 million tons, worth 157.2 billion US\$ in 2013 (FA0, 2015).
- Total aquaculture production continues to grow but at a slower growth rate.
- Aquaculture development varies globally & its production distribution is uneven.
- Aquaculture production,
 - continues to increase in some countries,
 - while, it has fallen in some countries in recent years.
- Asia dominates the global aquaculture sector (88.4% by volume in 2012).



Research questions

- How and to what extent is aquaculture performance influenced by national institutions?
- Is the aquaculture sector more special than other natural resource-based industries and requires special institutional arrangement for sustainability?
- Do the countries performing well in the aquaculture sector use any standard procedures (ecolabel certification)?

Institutions

Institutions form incentive structure of a society, can be both formal rules (constitutions, law & property rights) and informal constraints (customs, traditions or sanctions).

Political & economic institutions, in consequence, are the underlying determinants of economic performance.

Institutions are key components in overall management of natural resource industries; guide the people to do their task in production and marketing.

They help to enhance allocation as well as the feasibility of engaging in longterm economic activities such as the sustainable use of natural resources and the improvement of economic quality.

Discussion

- Effective institutions limit the quantity of aquaculture production.
- But, may help
- 1. To reduce negative impacts caused by aquaculture,
- 2. Conserve marine resources,
- 3. Sustain the contribution to global seafood production in the long term.
- Aquaculture is a special case compared to other natural resource industries- "aquaculture paradox."
- The quality of institutions potentially has an indirect positive influence on the development of the aquaculture sector.

Thank you for your attention