



# **NWT Fisheries Evaluation Development Issues**

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be vulnerable to cyclical outside forces and have a difficult time gaining control over their resources and economies. In many communities, subsistence lifestyles still predominate and links with the formal market economy are weak. Unlike more developed economies, most production, particularly in the renewable resources sectors, is small-scale and uses simple technology.

In the case of fisheries, most NWT fisheries are small-scale artisanal fisheries. **Artisanal** fisheries can be defined as fishing that uses small-scale beach landing fishing units, **often** traditional or modified traditional boats or canoes. **Artisanal** fisheries are characterized by relatively low capital intensity; by a decentralized and scattered pattern of settlement of fishing communities since these need not cluster around a **harbour** point; and ready availability of fishing technologies to traditional fishermen since there is an obvious line of continuity between old and new techniques and crafts, and since the cost of investment remains reasonable. **Artisanal** fisheries also tend to be composed of fishing units whose owners are actually personally involved in fishing operations, whether in manual operations or in direct supervisory or coordination tasks.

In most developing countries, millions of fishermen are engaged in traditional small-scale fishing activities and most suffer from persistent poverty. Yet the initial emphasis in Third World fisheries development was, in almost all cases, placed on large scale industrial fisheries. It was assumed that as development progressed, **artisanal** fisheries would gradually be replaced by modern, efficient and capital intensive fisheries, and fishermen would either acquire new technology or find employment in large-scale fisheries. Development assistance tended to focus almost exclusively on industrial fisheries with national governments perceiving fisheries solely in economic terms - as a way of providing jobs and earning foreign exchange through exports. In many nations fish production increased dramatically as large fleets began to fish in previously unexploited waters using more effective technology.

However, *aft*er three decades of fisheries development there were very few success stories with industrial fishing and the goals of fishery development - specifically alleviating persistent poverty in fishing communities - remained elusive. In addition, fish stocks











planning process and throughout the project's implementation and evaluation.

Goals and objectives must also be clear and measurable. The vaguer a project's goals are, the more difficult to recognize conflicts between them and the more vulnerable project personnel become to making the project a success at the expense of making a success of development. It is easy to measure progress as the provision of hardware; it is much harder to try to determine whether project beneficiaries are being equipped to do things that are worthwhile in terms not merely of the project but of broader development goals.

Multiple goals may have inherent incompatibilities or inconsistencies making it difficult or impossible to fulfill all of the stated goals. Indeed, in some cases the pursuit of one goal can undermine the success of fulfilling a second goal. For example, increasing production of fish for export may defeat the goal of increasing production for local consumption given the finite nature of biological and financial resources.

To enhance the possibility of projects having a positive impact on development, planners must determine how harmonious or discordant different combinations of goals are and create operational priorities that support or at least do not defeat one another. Government policies should support these priorities; and objectives and priorities should be reevaluated as fisheries change. Consultation between **stakeholders** in the fishery facilitates the establishment of consistent supportive objectives and policies and the modification of objectives and operations when needed.

2. Fishery development plans should be an integral part of an overall regional economic development plan.

The beneficial impact of fisheries projects on community economic development is greatly enhanced if the fishery is developed within the framework of an integrated economic development plan. The mere existence of a fishery resource or a local **artisanal** fishery does not guarantee that commercial fishery development and/or modernization will benefit the community. Nor is fisheries development necessarily the best or the only means of achieving development objectives. Therefore fisheries should be looked at relative to

































community involvement and local decision making, and to begin linking production to market, it was decided to establish a locally owned and controlled commercial entity. Based on past experience, it was decided that any new commercial fishing entity should be broadly owned throughout the community so that DFO could assign resource allocations to the commercial entity without seeking the community's input through the HTA, making the allocation process simpler and faster. In effect, HTA input would be implied through an overlap of ownership and community representation.

In 1988 community meetings were held to discuss establishing a commercial fishing entity and in December 1988 **Cumberland Sound Fisheries Ltd. (CSFL)** was formed. CSFL was a private" company that included the **Pangnirtung HTA**, the **Pangnirtung Eskimo Co-op Ltd.**, P&L Services (a local **Inuit** owned scallop fishing operation), and 40 other individual residents of **Pangnirtung** as shareholders. CSFL was 1000A locally owned and controlled. Because the owners of CSFL had limited experience and expertise in running a commercial fishery the company's board of directors was guided by advisors and the board hired an experienced plant manager to run the operation, however the board retained final authority on all matters.

Inexperience and poor management led to financial difficulties and in 1990 the fishery was **left** facing bankruptcy. At that time the **NWT DevCorp** was asked to invest in the fishery. The **NWT DevCorp** was chosen as an investment partner because of the **DevCorp's** policy of divesting shares once a project achieved stability and earned a profit. During the 1991 season a new, experienced general manager and an experienced office manager were hired to run the fishery. Some ownership of the company was given to the **NWT DevCorp** in exchange for the **DevCorp's** investment, however the local **CSFL** board retained **decision-making** control and they were provided with good advice from the new management. It was felt that once the company was making money local ownership would resume (Ashley 1993).

In 1992 the **NWT DevCorp** provided another major investment to the **Pangnirtung** fishery including construction of a new fish plant and the provision of operating subsidies for the first five years of operation allowing the company to carry operating losses while it was

























The HTA worked closely with ED&T's Renewable Resource Development Officer to develop a plan for a test fishery that would **qualify** for EDA finding. During this process the objectives for the fishery were expanded and modified to include the following:

1. to undertake five years of test fishing activities to provide sufficient biological data to see a commercial quota established
2. to refine operations to make the project as viable as possible
3. to create employment and incomes for residents at the plant and incomes for fishermen
4. to provide training to local residents so that they can undertake all of the managerial and operational positions
5. to test different technologies to improve catching methods and quality of products.

A sixth objective of replacing fish imports from Winnipeg was also added.

The test fishery was a five year project which has recently been completed and the proponents are now hoping that a commercial quota will be assigned allowing **further** development to take place. However, it is recognized by all involved that the Delta fishery requires more work before it is either viable or sustainable.

The fishery is carried out by fishermen living in camps along the Mackenzie River Delta. In 1992 there were six camps in operation with two to three fishermen at each camp. Fishermen harvest broad whitefish, pike and inconnu using traditional gill nets and keep their catch on ice. Fish are picked up daily by a collector vessel which delivers ice to the fishermen and transports the fish to **Inuvik** where the fish are filleted, frozen and vacuum packed.

The size and extent of the Mackenzie Delta fish resource is not known therefore biological research has been a major component of the test fishery. In the past there have been camps along the Mackenzie Delta that harvested fish so people could feed their dogs. According to the chairman of the HTA who has been fishing in this area for 50 years, the total catch currently harvested is much smaller than the harvests taken 30 years ago when











As the fishery has progressed the level of local control has increased. According to one source, "local people have been involved since day one and are now in positions of control. They are essentially the management of the project now".

All those interviewed also felt there was also ample opportunity and a suitable mechanism for broader based public consultation through HTA meetings and through meetings with the Fisheries Joint Management Committee. There has been a high level of cooperation between the full range of government agencies and local organizations involved and everyone felt decision making had been effective and consultation successful.

Local self-sufficiency has also been enhanced by the high level of training made available to local residents. A local manager has been trained and now manages the fishery and processing plant. He in turn has trained two other employees to run the plant as he would prefer to retire. All of these trainees have been local residents, as are all of the plant employees so that the fish plant is now completely managed and operated by local native residents. These residents are undertaking training of any new staff as a matter of course and there is no longer a requirement for trainee or trainer designated staff.

The increase in local self-reliance and direct benefits to the community as a result of training can be seen in the increase in expenditures that are paid to local and NWT residents and business as shown in the table below. Over the course of the test fishery, as local residents were trained in all aspects of the fishery, less money needed to be spent outside the NWT. The money now spent outside the territories is largely for capital equipment which is not available in the NWT and for employers shares of UIC and CPP.

Expenditures Paid To:	1989	1990	1991	1992
NWT Residents	27%	20%	37%	55%
NWT Businesses	35%	39%	32%	34%
Outside NWT	38%	41%	31%	11 <sup>A</sup>













