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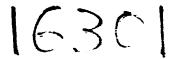
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ENGLISH

First Consultation on the Fisheries Industry

Gdansk, Poland, 1-5 June 1987

THE INTEGRATION OF WOMEN IN THE FISHERIES INDUSTRIAL SYSTEM *

Prepared by

Sectoral Studies Branch Studies and Research Division

in co-operation with

Unit for the Integration of Women into Industrial Development

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Corrigendum

Page i

After the last paragraph insert

The country case studies for Mexico, Indonesia and Senegal that have been undertaken were financed by a special contribution from the Norwegian Government.

Freface

The contribution of women to the industrialization process of their countries is a vital element in overall economic and social development. Women are increasingly participating in and contributing towards the industrialization process - be it in the small-scale and informal production sector where their contribution is largely unrecorded but indispensable in supplying rural and urban community needs - be it in the modern industrial sector where the majority of women are limited to a small number of low skill and poorly rewarded jobs. Women's contribution to manufacturing is, however, not limited to production work only. Women are also involved as entrepreneurs and in production related activities namely in government administration, industrial research, quality control, marketing, etc. However, training opportunities for women in industrial production skills are insufficient and are largely limited to traditional occupations. Vocational guidance and career counselling to women students is generally inadequate. Specific measures are required to increase the number of trained and qualified women. The emergence of high technologies is rapidly changing the conditions of the international production system and the skill content in man wacturing activities is undergoing significant changes. Human rescurce development will increasigly provide the competitive edge in industry. Export oriented industries are among the first to be affected. The significance of this development for women is obvious. If women are to partake in this process on an equal footing with men, careful analysis of their present contribution is needed and the prerequisites for their future participation have to be determined.

The Nairobi Forward-looking Strategies for the Advancement of Vomen called for key measures to promote the participation of women in the industrialization process, both as agents and beneficiaries of development. The General Conference of UNIDO in December 1985 in its resolution GC.1/Dec.29 stressed the important role of UNIDO in the implementation of the Nairobi Forward-looking Strategies as they related to industrialization and the need to facilitate the integration of women in its programmes.

The present summary paper on the integration of women in the fisheries industrial system has been prepared by the Sectoral Studies Branch as part of a major study on industrial development strategies for fishery systems in developing countries. A special document on the integration of women in the fisheries industrial system is to be available in late June.

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1. INTRODUCTION

1.1 Overview

As of 1981, there were an estimated 15 million people directly employed in the fisheries sector of developing countries and likely an equal number indirectly employed in support areas such as processing, transportation, marketing and boat building. Small-scale fishing persons may account for as much as 90 per cent of the direct employment in the sector and harvest about 33 per cent of fish consumed worldwide. As a contribution to national economic and social development, the importance of the fisheries sector is widely recognized, especially for the rural areas. While the number of men working in the sector and the job or tasks they perform has received considerable attention in both urban and rural areas, the role of women in the sector's employment has until recently received minimal attention.

In both urban and rural areas, the extent of women's contribution to food production and marketing has been underestimated and undervalued. Recently, studies and research, especially on rural, small-scale fishing communities, suggest that women's involvement is anything but minimal. Although not actively involved in the extraction of marine-based catch, from the moment the vessels dock, women are involved in all aspects of unloading, processing, distributing and marketing the fish. In most cases, however, their contributions are undervalued and/or unremunerated and considered as a mere extension of regular household work and mainterace. If remunerated, whether in rural or urban jobs, women are usually at the lowest level of the skill and occupational hierarchy and receive marginal pay.

With increased, albeit largely undocumented, evidence of women's contribution to the fisheries sector in developing countries, has come acknowledgement that women's participation is important to the successful growth and development of the overall sector. Similarly, from both the literature on women in fisheries and from the conclusions of the current paper, there is recognition that: (a) women should be integrated more thoroughly into fisheries industrial activities; (b) their contributions can, and should be, enhanced or upgraded; and (c) a variety of human resource measures are needed to effect this enhancement.

UNIDO is preparing a study on human resource measures needed to enhance women's role in the fisheries industrial system. Only highlighted in this abbreviated overview, the completed paper presents a discussion and synthesis of country-level policies and actions needed to enhance women's integration to sectoral activities. Also, the paper provides a prototype approach that can be used to analyze the current and potential involvement of women in a country's fisheries industrial system; from the analysis, specific development policies, strategies and actions can be developed that are directed towards both the health of the sector and the productive, positive deployment of women within it. The general approach used in the study is based upon a methodology developed for another UNIDO study for analyzing the fisheries sector as a whole in developing countries. The methodology employed follows a systems approach and enables the analyst, planner or policy maker to target development strategies and actions to one of nine, individual components of defined sectoral activities.

^{1/} FAO, "The economic and social effects of the fishing industry: A comparative study", prepared by Helga Josupeit, FAO Fisheries Circular No. 314, Revision I (Rome: Food and Agricultural Organization, December 1981).

The detailed, micro-level analysis that can be conducted with this type of approach is useful for looking at the role and integration of women. This is because the current/potential involvement of women can be viewed in relation to any or all components throughout the sector. Consequently, the approach brings together both the economic/industrial trends of the sector's development and the needs/contribution of women. Theoretically, using this approach, the impact of technological, structural, or socio-economic changes occurring in one component can be seen on the others. Similarly, repercussions from investments or policy actions channelled into one component can be examined in others.

This type of approach is also useful for looking at, and identifying, policies and actions for women. This is because investments in one component of the system can easily affect the role of women in other components. For example, increased investments in larger, mechanized boats may diminish the importance of women in marketing in rural fishing communities. The larger boats make it possible for fishermen to service larger markets in urban areas directly. The rural women are, as a result, bypassed. Similarly, investments in mechanized processing equipment may render women redundant. In the case of human resource policies and actions, ones initiated on a combined knowledge of the economic/industrial system and identified women's needs, are likely to be more effective than ones based solely on women's needs. The approach employed for this study should result in the creation of human resource measures that will help decision makers:

- (a) Enhance women's ability to respond to sectoral changes;
- (b) Prepare them for productive employment in other sectors; or
- (c) Offer them options for productive activity outside the fisheries sector.

Increasingly, questions asking "development for whom?" are being raised. In the case of women, especially women in rural fishing villages, the question is important. This is because industrialization is bound to bring with it, changes in technology, producting processes and workplace organization. Frequently, such changes completely displace women because their tasks are automated, or the men take over the innovations for themselves. While there is no desire on anyone's part to obstruct such changes, simply because of their impact on women, there is a need to ensure that women continue to have productive, gainful options when they occur. The evidence is not totally in as yet on whether women should continue to be prepared for fisheries-related activity and even less on whether young girls should have fishing-related employment as a goal. The approach used in this study, however, should make it possible to answer these and similar questions more clearly, and to suggest concrete strategies or actions for meeting industrial system needs and enhancing women's involvement.

1.2 Approach

The study intends to provide a basis for forming concrete measures of action that can be undertaken by different parties for supporting the integration of women in the fisheries industrial system of developing countries. The study's objectives are as follows:

- (a) To identify the present role of women in fisheries sector employment;
- (b) To identify the potential for expanding women's role;
- (c) To identify strategies for increasing women's role; and

(d) To identify specific industrial development changes that may erode women's productive role and, where possible, appropriate remedial actions.

The study, as mentioned earlier, is closely related to another UNIDO study on the fisheries industrial system $(FIS)^2$ in developing countries. The FIS study provides the following inputs to the present paper on women's FIS integration:

- (a) Analytical approach;
- (b) Identified, country-level FIS patterns of development;
- (c) Relevant strategies for further country-level FIS development;
- (d) Enhancements and constraints anticipated in the development process; and
- (e) The established database for characterizing the FIS in three countries chosen as case study sites for this paper.

Three countries were selected for case study sites on the role of women in the FIS. The countries, Indonesia, Mexico, and Senegal, were chosen on the basis of: cross-continent comparison, different FIS patterns of development and available information. Time and budget constraints limited the amount of qualitative and quantitative information gathered about women's role in any of the countries. The involvement of women in each country's FIS, however, was examined systematically; it is this action, along with the collected material, that is perhaps the most valuable contribution to analyzing women's role from a sectoral perspective.

The choice of approach and methodology² was determined by the desire to present a more comprehensive view of women's present involvement and the potential role they can occupy in fisheries development. The point of reference within which women's role was analyzed, is called the Fisheries Industrial System. The concept of FIS stems from the Methodology for Evaluation and Programming of Consumption/Production Systems (MEPS) and is based on the notion of an integrated systems approach that recognizes and quantifies the interdependence of economic and social components within and outside a given sector.²

 $[\]underline{2}/$ Industrial development strategies for fishery systems in developing countries, PPD.30, Sectoral Studies Series No. 32, April 1987.

^{3/} For more detailed description please see document UNIDO/IS.643, Methodology for the assessment, programming and management of production and consumption systems, Sectoral Studies Series No. 27, 1986.

^{4/} The methodology comprising disaggregation, evaluation and programming of production/consumption systems components was originally developed by the Andean Pact Secretariat and completed with the co-operation of UNIDO's Sectoral Studies Branch. UNIDO documentation of MEPS consists of: (1) Manual for applying the system approach in collecting, disaggregating and systematizing information; (2) Accounting model of technical and behavioural micro-economic relationships; (3) Micro-computer programme of the accounting model.

The fisheries industrial system can be defined as a system where all industrial production and consumption components related to the fisheries sector in a given country and the policies that affect them, interact in an integrated and interdependent manner. At the highest level of desaggregation, nine components have been identified as most appropriate for describing the system: resource, extraction, processing, distribution and marketing, consumption, industrial inputs, government policy, industrial organization and the foreign sector.

The study has four chapters. Chapter 1 examines briefly the problem being studied, the general situation of women in fisheries and an explanation of the methodology and expected outcomes.

Chapter 2 discusses the economic and industrial development aspects of the fisheries sector. Attention is given to the overall structure of the fisheries sector, especially in relation to developing countries, and to specific reasons for the choice of this study's country case study sites.

Chapter 3 features an in-depth look at the three country case study sites. The industrial/economic structure of each country's FIS is examined. Also, the situation of women within each component of the system is viewed. Implications of the FIS development for women in each of the countries is identified and comparisons and contrasts among the three countries are drawn.

Chapter 4 discusses specific, concrete development policies, strategies and actions important for the integration of women in fisheries in selected developing countries. These will be suggested courses of action resulting. from a merging of the industrial/economic trends and the identified contributions of women. A synthesis of lessons learned and recommendations for human resource approaches that have been attempted by various government and donor agencies is also presented. Additionally, a summary section s offered of the study's implications for international aid and technical assistance donors.

The remaining portions of this working paper focus on the type of information that has been obtained and prepared for the final study. Sample baseline informational charts are included, along with brief explanations about the material. The concluding section is a brief discussion of preliminary human resource issues and recommendations that are emerging from the analysis.

2. BASELINE DATA AND INFORMATION

The following charts illustrate the type of information found in the study. This information has been prepared for each of the country case study sites and forms the basis for both chapter 3 (analysis of country case studies) and chapter 4 (policies, strategies and action).

Two charts have been prepared for each country. One chart focusses on the country's FIS. Included are the following informational elements:

- Development objective and fisheries sector development objectives
- Present constraints for the components of the FIS
- Enhancements of the country's FIS that can facilitate further development, along with identified components
- Strategies for fostering FIS development by identified components
- Plan of specific actions for identified components.

A second chart for each country depicts women's FIS involvement. Informational elements for these charts include the following, for each of the nine components comprising the FIS:

- Present role of women and the work they perform
- New or additional roles for women
- Constraints to women's involvement
- Development strategies, recommendations and actions for strengthening women's involvement and integration.

To facilitate the readers' interpretation of the chart detailing women's FIS involvement, the following definitions of the nine components are provided:

(a) Resource

This component describes the fish and crustacean resources available to an industrial system - how rich they are, how well they are managed and how they are split among marine, freshwater and aquaculture sources.

(b) Extraction

Also sometimes referred to as production, this component describes the type, condition, management and utilization of the labour and capital (especially the vessels) used in the harvesting of the resource. Foreign participation is also an important consideration.

(c) Processing

This component describes the type, condition, management, utilization and physical distribution of the labour, plant and equipment on the one hand, and their variable inputs and type of outputs on the other hand, used in the domestic processing of extracted fish and crustaceans.

⁵/ The term of extraction is preferred to production since it was considered ambiguous in the context of the analysis of an industrial system as a whole which has many other types of production.

(d) Distribution and marketing

These components describe the channels and methods used in the distribution of outputs from each FIS component to the next downstream component. Marketing intelligence is also considered.

(e) Consumption

The type, quantity, substitutability, price and income sensitivity, and desired nutritional requirements of domestic final goods demand of the system is described herein. Where appropriate, regional or other stratifications of the distribution of consumption (e.g. income) are also included.

(f) Industrial inputs

This component describes the extent to which intermediate and capital goods are domestically available to the FIS on the one hand, and the quality and state of domestic services and infrastructure (e.g. port facilities, roads, rail, etc.) on the other.

(g) Government policy

A description of the government's view towards the sector is included in this component. Hence, the existence of incentive schemes, subsidies, access to foreign exchange, and favourable macro-economic policies are noted.

(f) Ownership (industrial organization)

The industrial structure is described with respect to vertical and horizontal integration and concentration on the one hand, and with respect to public, private and foreign ownership distribution on the other.

(g) Export orientation

Describes the balance between production for export and for local consumption.

Development objectives	Present constraints (component)	Enhancements for further development (compenent)	Strategies (compenent)	Plan of action (component)
1. To relice the lances and lances and lances and lances are living of lances and lances are living of lances and lances are living of lances and lances are living and lances a	- See major fishing grounds - Present production 3 leaded for free markets in certical averifue and population centres (3) in certical averifue and population centres (3) in certical averifue for management establish long/training and artisms - Only 40% of artisms processing (2,3) - Lack of finance (2,3) - Cood potential for a centre of finance (3,3) - Cood potential for a centre of finance (3,3) - Cood potential for a central for a	- Present preduction 30% of ing (critical overfishing in certain area) (1,2) - Large artisanal sector (2) - Palsias for resence management established (1,2) - Only 40% of artisanal established (1,2) - Only 40% of artisanal established (2,2) - Only 40% of artisanal established (2,2) - Large demostic market (4) - Large demostic market (4) - Adequate local supply of energy (3) - The geverament places high	- Increase use of artisanal tathermen and intermediate technology vessels in off-shore fisheries (2) - Development of small-seale fisheries should be part of integrated rural development programmes (2,3,4) - Effective enforcement of policies of resource policies of resource policies of resource fishing groups (1,2) - Greation of new employment fishing groups (1,2) - Greation of new employment possibilities in mariculture and see farming (2,3)	1. Elmanalal assistands a) BIRAS eredit (flahermen and flahfarmers eredit) for improvement of flahms vessels and gear and intensification of flah pends. No collateral requirements, interest of 12% per year. Maximum lean equivalent value of 10 of vessel or operation of 2 ha flah pend (2) haball investment eredit; similar to BIRAS eredit but requires callaboral (2). a) Working capital eredit; for supplementing amail investment eredit that but can be explice for separately. Maximum lean hy 10 million and interest of 12% per year (2). d) Min. eredit: for beth investment and working capital provided by grate banks at the village level. Leans range from the village level. Leans range from the village level. Leans range from 10,000-20,000 (2). f) Credit facilities for structural and operational medification of translars to medium-scale operators (co-operative, or entropreneurs) to enseurage offshere and deep sea fishing (2). b) Submidised prices of fuel, fishing materials, fortilizers and interibution/markeing. 1 Prevision of infrastructure (perts, port facilities.
				Tothelesial develorant Through research, pilot project, training and extension work, Through research, pilot project, training was extension work, Through research, pilot project, training vescis (2) - Large-carde fabries enterprise provides technical and marketing satisfactor to email-scale disheries for disheries setsistence to email-scale malibolder (MES) sementh of waste fish utilization (2.3) - Research of waste fish utilization (2.3) - Peatharmer pend culture - assistance to email-scale shrimp Breaklahwater pend culture - assistance to email-scale shrimp Preshwater sulture - assistance in supply of fish fry - Rice-tun-fishculture - assistance in supply of fish fry - Mice-tun-fishculture - assistance in supply of fish fry - Maistance to seeperatives (preduction of fish fry - Maistance to seeperatives (preduction extension - Coverment fisheries an assist in hervating (2), hendling of each (3), precessing (3), marketing (4) - Battenion services to assist (4) - Battenion services to assist (4) - Battenion of statistics, survey - Maculator massures - Compilation of statistics, survey - Receive of the small-scale operators

Chert 2. IMPONISIA - Women's involvement in 715

Cuspenent	Present involvement of wasen	Purther/enlarged apportunities for women	Constraints	Development strategies/ recommendations/action
Extraction (2) a) direct	- Almost mil in offshore sen- fishing - Minimal in aquaculture and in sea weed, muscles and sea wern gathering	- In fishfarming (enterprises) - See weed culture - Collecting fishfry, mussels, and see werns	- Caltural religious values - Physically describe work - Lock of appropriate tothnology (training, equipment) - Overupleitation, pollution of inshere waters	- Training in fishforming techniques - Provision of credits (co-operatives) - General education to over-came culture berriers (extension workers) directed to som and weens
b) indirect	- Properation and selling of feed to fishermen - Household occasesy	- Catering services on and offshore (commercial fishing)	- Lock of permanent structure pranses - Law wholesele prices - Time factor	- Provision of stalls - Provision of rural infra- structure (unter, sonitation, health, transport) - Training in metrition and household economics (extension services)
Processing (3) a) artisanal sector	- Hainly wemen's work - Mousehold industry for curing fin. (salting, drying and smeking) for retail - Cottage industry for cleaning and sorting shrimp linked to the commercial emport sector (cold storage compenies) - Fish products, crispies, galatin from non-words	- Increase/diversification of traditional processing - Involvement of more wamen in cottage industries linked with the expert sector (co-operatives) - How lines of fish and sea wood products	obstacles (regional)	- General education to evercome cultural & religious obstacle - Improve craditions of credit evailability for women - Training in new technologies for fish curing (waste reduction) - Possibilities for women in processing to hire/own a boet to provide secure raw materia supply - Provision of sheds for sheing closning, sorting - Assistance in diversification of fish products (acceptability/distribution) - Provision of samitation/ hygisne facilities at landing sides
b) connercial	- Working as labourers in fish processing factories	- Setting up of women's enterprises in fish processing (co-operatives)	- Cultural and religious values - Low wages/poor working conditions (legislation) - Access to credit fecilities - Lock of training in management and finance	- Wage legislation for women - Training courses in menagement - Increase credit availability
Distribution and marketins (4)	- 2/3 of women engaged in fishery related activities are involved in trade - Small middlepersons - Headload vendours		- Lock of knowledge of efficient merketing techniques - Lock of transport roads - Lock of appropriate storage facilities - waste of cotch - Competition with big middlemen - Seasonality	- Training in marketing - Provision of roads and transport facilities - Adequate storage facilities - Market places with hygienic facilities

Chart 2. IMCOMESIA - Unnon's involvement in FIS (cont'd)

Casponent	Procent involvement of woman	Perther/enlarged apportunities for wanten	Constraints	Development strategies/ recommendations/action
Consumption (5)	- Purchase, preparation and consumption - Pinencial management of household income/expenditure	level of the household's diet	- General income level low - Lock of knowledge of nutriti onally belance diet (diversification) - Sessenality of fish hervesting offects prices (substitutability) - Access to fish in rural areas (uneven distribution	- Encourage diversification of fish products to increase netritional value and consumption level - Training courses (extension work) in family welfare/ netrition
Industrial imputs (6)		- Making/repairing nots - Production of packaging materials		
Correspond colicy (7)	- Ministry of Women Affairs - Equal opportunities emplicitly recognized in state policy guidelines (GNNN) - Emphasis on integration of women in development - "rom government sponsored women's project (KNN, P2NN)	living and productivity of fisher families (food and health conditions)	- Lock of cloar operational stops - Lock of gender-specific data and surveys - Lock of understanding of the division of labour in fisheries(household level) - Cultural and religious values not properly understeed - Underrepresentation in leadership and decision making	- Female extension workers stationed at programme sites (health, nutrition, hygiene, income cerning opportunities) commmity education - Training of unean leaders - Access to credit facilities - Specially designed training courses suited to the needs of women and their timetable - Inclusion of gander-specific sealysis in formulation of development programmes (local specific frame) - Legal framework for advancement of women (labour and wage lows) - Research/data collection on women's contribution to the family welfare - Provision of rural infrastructure - General education (man and women) to enabace status of women
Omership (8) (industrial organization)	- Co-operatives (few examples of women's enterprises in processing and fish farming - Vertical integration of catch processing and trade within fishermen household Integration via boat owner or trader (middlemen)	- Increase women's pertici- pation in co-operatives and group work among fisherwomen	- Unrecognized potential of women in adopting new technologies in processing merketing and management	- Stimulate formation of co- operatives (guidance) - Opportunities to obtain loans for women entroprenours. - Courses in management
System orientation (9) (export/local consumption)	- Primerily in production for local consumption (processing, trade) - Limited in export sector (shrimp cleaning and sorting)	- Increase participation in the emport sector		

Chart 3. MEXICO FIS

Development objectives	Present constraints (component)	Enhancement for further development (component)	Strategies (component)
Objectives			
1. Increase production	- Concentration of main resources	- Large percentage of unemplot-	- Intensify exploitation of deep sea
with emphasis on	in two regions (1)	ted marine potential (1,2)	resources and diversify esten of
generating more jobs	- Migh value species reserved to	- Good squasulture potential	medium-depth waters (2)
2. Incress desette	co-operatives which are short of	(1,2)	- dive emphasis to the capitalisation
consumption .	investment and working capital	- Domestically available energy	of co-operatives (2,3,4,6)
3. Incresse exports	(1,2)	eupply (6)	- Provide training to improve
	- Aging fleet in need of	- High government priority and	operations of soastal fishermen (2)
Persignment goals	replacement (2)	financial assistance provided	- Premote high technology in sque-
1. Double the present catch	•	to the sector (7)	sulture and fish farming (2)
to 2 million tons		- Local production of inter-	- Diversify processing and preservation
including 400,000 tens	- Leck of inputs for squeeniture	mediate and sepital imputs	of flat (3,5)
from equeculture	(3.5)		- Establish told storage chain (4,5)
2. Generate 145,000 new	- Lack of repair and maintenance		- Co-ordination of national and
407	facilities for the fishing fleet		regional distribution to increase fish
3. Industrialise 60% of tra-			supply throughout the country (4)
ditional form of fishing	on-beard (2,6)		- Premetion of new products on domestic
4. Direct 90% of production	- Lack of market organization (4)		markets (5)
to demostic market to	- Lack of cold storage network (4)		- Improve infrestructure of fishing
increase per capita	- Low income level and lack of low		ports (6)
consumption (15 kg	cost species available (5)		- Increase catch and processing
direct and 9 kg indirect)	- Lack of co-ordination between		productivity of species with export
5. Comercte US\$ 687 million	5. Cemerate US\$ 687 million government, no-operatives and		demend (1,9)
from experts of presme.	private producers in the sector		- Premetten of Joint-venture enterprises
tune and argano	(2,4)		(+,0)
	. Link of small disease (4 A)		- Giventiffy and Assessmention

<u>Envelopment politica</u>
- Modernization of artisanal fishing with more emphasia en co-operative
- State perticipation in large-ceale projects (joint ventures)
- Stimulation of demostic private investment

direct and 9 kg indirect) - Lack of co-ordination between 5. Generate US\$ 687 million government, co-operatives and from expects of present, private producers in the sector tuna and argaes (7.8) - Lack of credit finance (2,4)

- Simplify and desentralise edministration (7)

Chart 4. MERICO - Wanna's involvement in FII

Component	Present involvement of woman	Constraints	Development strategies/ recumendations/action
Annual (1)	in Coverment Decretary of Pishories are women, wany in research and technical development posts - 1/3 of professional and technical staff of Mational Pishories Institute are women - Unsur's participation is increasing in research positions related to open- culture and applied techno- logy - Unsur professionals from national administration involved with fishing communities — conduct	- them in cural fishing villages, having inadequate access to technical assistance and extension work. - Lock of information and research about whose unner are, what they are deing, and what their needs are. - Inadequate communication and information discomination channels for uses in villages to technical information/purerunat assistance. - Inadequate funds to implement full range of needed extension and technical assistance programme throughout the country. - Inadequate scates of uses to training and apployment for management and technical positions throughout the fisheries system.	- Increasing availability of extension work - Increase evallability of extension and technical escietance services - Increase excess of upper level resource management poets to wante - Generate solid information have on which to plan policies, projects and decisions
Entraction (2) a) Serine and acc-gaing	- Very little, if any involvement, escaptions of influential fictor- nan widows, went havin for conrego/shill	- Truditional social tabous - wann bring bod lock - Truditional division of labour - Stod for long absunces from home - Students responsibilities and children - Physical strength required for work	-
b) Inland and constal votors, lagrens and rivers	- Depending on location/species waters are princey workers - small-scale fishing activities - them callect mellouses or algoe, fish with bestets, fish traps, or limis from casions - Shring gethering - Collect small shells, smalls, starfish and send deliers	- Work may be seesonal - Social attitudes/traditions - Lock of equipment - Idea that only man's work is productive - Competition from howeshold dution	
c) Aquoculturo	- Unising of opster, corp and treut cultivating via fish tents - 1983 established 18 production units operated totally by ween Unem raise food for fish, tabe care of the tents, food and raise fish, entract fish and prepare for preceeding Involvement veries as per predection scale Small-scale production, ween involved in all phonon, production proceeding and distribution Large-scale production, size of tent increases, see are mostly utilized.	be menitored, large tanks mean naic demination - Traditional beliefs about division of labour - Reseated duties of woman	- Government spensored programs under group known as United Agricultural Industries for Usans - Durrently incorporates 300 *** a per site, in 6 states, ''''00 total - Fu pesse is to incorporate usans productively in rural areas without threatening traditional home base
Presenting (3) a) Hene-based fishing communities	- involvement varios by location species - Wenen and children involved - tasks include unloading inceming beats, selecting, dry/zuring, smeking, propering fish for merket - Family itself functions as occommic unit - role assigned accordingly	- Idea that only men's work is productive, worth remuneration - Competing tasks for wemen's time in the household - Traditional division of labour between men and wemen - Cultural/social constraints against wives/wemen being mobile to take more productive jobs elsewhere - Wemen and paid for much of their	- Empend control of artisanol training now found in two states - Provide special training for all tasks undertaken by wearn (artisanal processing) - In those areas where wemen deminate, provide courses in leader-ship training

Chart 4. MERICO - Wasm's involvement in 71% (cost'd)

d) Baking of crafts/ jewity/ related settices from flab cotch	c) Industrial/		
- Umma participate in gathering/ contracting materials for craft- making - Umman design and make artistic objects - Herk may be done in groups or individually, on family basis in the home	- Home productate at fracting and caming plants - Home are matly labourer; - magnet/emership almost always male - In state-armed plant, uses here moved into technical research positions and chainistration	- Plants or wertpleces amploy uninty wases These trapessable for cleaning fish, salesting fish, salesting fish, salesting fish and principles and may prepare the salesting mad any prepared in salesting mad for distribution merbeling place, especially for sharing and serving lacindos preparing fred meterial, fish posts and clean parts wentried, fish posts and clean parts wentried to merber the principle total werforce. In some certal areas wases, children wert topother of the principle total werforce to cleaning/wholling of huma, then to principle distribution, may be cleaning/wholling of huma, then to principle basis.	Present involvement of season
	- Usek is an contract basis, is ensemal and temporary - Dayloymant and temporary - Dayloymant and temporary - Ilbely an plecement - Little upward mability for - Inadequate training/education for new productive work on gainful employment in off- passes - Traditional attitude about amin/ femals division of labour - Danad for upwar due to willing- ness to work for lower calary and for their greater producti- vity/edeptasse; not reflected in comparative pay scales - State-enand plants, powerned by labour laws, has seen offect on byplone and general werbyloce conditions	- thek is seemed and temperary. often on contract basis been on contract basis line professed for manil destrictly, little precedent/uppertunity for educational passes frequently exigence and techniques frequently exigenced, and techniques frequently exigenced, and techniques and supply exigenced, undeality makes and secretaly of existing and secretaly of existing politics of different findential position of different findential (others lecated, type of emerged (others lecated, type of emerged to placement basis because any co-percits embers they receive sizing embers they receive sizing embers they receive sizing resistance of the second lecated, emerged the second lecated the second le	Constraints
Contro of Arts Office in the Fisheries Secretarist gives training to usem in merims art and design Incress control of artismal training that are now Jerated in 2 states, include marine design training, especially in areas of tearist estivity Occurrence beams to provide besting and finence for co-specially and finence for co-specially and finence for co-specially are or seciation established for each work	- Train wann for managamak - Train wann for opportuncy position in industrial plants - Institute better labe, laws providing hypicals standards and security and female werk force utilization - Provide wann account to jobs at opportuncy and namegament levels	discrept banks to provide backing and finencing Processing techniques, especiation and manuscription and manuscription and manuscription and exclusive processing techniques and equipment. Provide batter processing techniques and equipment. Provide usess with account to experiment and experiment are also as a second experiment and experiment and experiment are also as a second experiment and experiment and experiment are also as a second experiment and experiment and experiment are also as a second experiment and experiment are also as a second experiment are also as a s	hovelegand strotegies/ recommendations/action

Chert 4. HEETCO - Memon's involvement in FIS (cont'é)

Component	Present involvement of venen	Constraints	Development strategies/ recommendations/ection
Distribution and marketian (4)	- Unnon's role in fisheries meet concentrated - Bural communities merhating is a primary income source for unnon - In regional merhat cross soil food products made from fish along with fish - In when sottings, wann soil in local merkets and to restaurants and other tourist centres, woully salaried, minimum wage - In all merket areas, wann also sell artistic orticles made from fish	- Indirect constraint from modernization of the extraction process, largar boots/stronger motors Largar boots/stronger motors Largar catch can be sold directly to distant merhots, encludes wamen's involvement in merhoting and processing Deprives wamen of productive mource of income - Work is potentially seconds, dependent on supply and species - Insdequate occase to merhots that are ericated frequently toward men - Insdequate access to extension and technical essistance for training in merbating techniques, etc. - Success often determined by condition of distributional infrastructure - Access to credit - Computition for ween's time, along with household responsibilities - Inability of wamen to be more mobile, to merket product in other areas	- Introduction of refrigerated transportation and objective of enlarging catch volumes has increased apportunities for uses in serboting - Bovelop appropriate technology if medacalization of entraction process is pursued - Propers uses for alternative employment if strategies of medaralization reduce their productive roles, will also impect on policies toward training, co-operative entended training of uses to menage, conserve and propers feeds - Hold courses of usess's workplace on how to unload bests, pack and sell products on the beach and in regional merkets - In tourist zones, offer merketing - type training in conjunction with rustaurants, betals and worther unions - programm to be jointly administered by Secretaries of Fisheries and Work and Social Welfere (government policy) - Give uses training to merket/distribute arts and handicraft items made from fish - related resources, especially in tourist across
Connection (5)	- Wegen involved in feed prepara- tion, main decision makers for feed choice - In some regions of the country wegen have made certain fish dishes into specialty	- [nadequate access to extension agents, sources of technical societance related to matrition/concemption/proporation of food - General socie-accessic conditions - Ability to purchase adequate food - Access to food supply - depend on hervest and species available	
Industrial insute (6)	- Wemen are involved in metmaking and repair and teaching the young on the job, in skills - Wemen are active in gathering the selt that is used for rural fish properation - Water used for closning fish is carried and transported to worksite by wemen - Weed used for drying/smeking fish is gathered/transported by wemen - Wemen responsible for chapping or cutting the ice needed for freezing fish	- Introduction of mechanization to fabrication of note, repes, and mesh has reduced women's opportunities - Inadequate access to extension workers, other sources of technical assistance - Types of resources and inputs svailable determine type of work/division of labour - Inadequate exposure to emperience with latest technological methods - Traditional division of labour - Competition with women's traditional howesheld detice	

Development strategles/ Proceed involvement of sense Constraints recommendations/action - Covernment Interest in defining - Inchessete resources to conduct Conoral wamen development needed programme in all places of country at once numbers of woman and their role melier (7) objectives for fisheries Organize/train groups of w mare precisely - 1983-1986 Programme of Villago - Lack of good data on we to improve ability for fishing Visits underteken to estimate role in fisheries taute rele/tasks of wases - Premete equeculture production - Fisheries Secretarist at units for possent we - Improve/upgrade general werking national level conducted discoutic survey of war conditions - we fisheries, concluded woman are Improve living conditions and underestimated family standards Covernment undertook a survey - Premote artisem-type activities, of fishing communities, gives - Provide basic education to wa first - over detail on m of women, male/female division Specific women development policy on professionals trained as facilitators specifically to assist women and to live in Wester's role decreasing pro-1980, government policy has reversed reral fishing villages, technical trend - everall incressed support of fishing, more we essistance/secial service, opportunities in processing, organizational support and up m's co-operatives formed, grading production aspect of center on eyster cultivation wemen's involvement (1902)- Weman professionals trained for m trained os professionels overall village extension work, offering administrative, legal, dedicated to squeculture, technical and equipment mainte equipment repair and maintenance, nance essistance to fishing e also to legal and edminisvillages trative offeirs Weman trained as professional facilitators to live in villages - Training greats and loans for both sons/doughter of fisher and assist wemen's groups families - 2-year course, cooperative administration/menagespecifically mt, 13% femele encellment - Strengthon aquoculture - to provide employment and wograde reral diet - Mational Passant Confederation, training rural women for more productive fishery reles, and increase general fish consumption in country - Training for interior water cultivation of oysters - Facilitate ways to obtain finencing and credit - Channel more resources into strongthening women's organised **Zroups** - Channel investment into equa culture projects and into infrastructure needed to support aquaculture - Promote/expend/upgrade system's extraction/menagement of species that bring more money, shrimp, abelene and lobster, syster and trest - Construction of rustic tanks and mixed forming/fishing activities for wemen in various communities, regional development programmes: Unidados Agricolas Industrias Para la Mujor, 1984, sponsor - Traditional division of labour - Provide wases with more access Omecahie - Women becoming involved in etrecture (0) - Inadequate access to credit, equity and training to credit and financing emership/menagement of eyster cultivation projects, - Access to ween for training in - Inability to have government management, beckkeeping, run by wemen's co-operatives

- At village level entire family functions as economic unit with roles essigned accordingly
- Processing, marketing, distri-bution largely under male execution
- State-owned plants, wem moving into menocoment
- Government level, women moving into management/supervisory positions
- Vomen own, menege, work in fish forming production units - selected scene of country
- projects in all areas of country where seeded
- Inadequate access to extension workers/technical assistance
- At village level, competing demands of household duties
- accounting
- Where appropriate, extension or technical assistance in co-operative development, and in leadership training for wes
- Access for unema to jobs in upper level menagement Dusiness development advisory and consultant services for

Tables |

9

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Procent involvement of woman Constraints Development strategies/ recommendations/action - Women occupy relatively minor rele - Evaluation moods to be made of Person 20 Processed (1) - Mational level staff of potential system and mollusk reservan; durolog better approach to emploiting and managing reserves; 89 - 5 wenom (2 advanced recentch positions) - Fisheries Development Adminisportant import on woman's intration, 13 of 237 are wee (5 technical or upper level - Involve wamen more in eyster farming; indicates most for training in literacy, and requisite breeding/ positions--trained at Oceano graphy and Harino Fisheries Technical School) econont techniques - In <u>Cassuance</u> area - introduce syster culture and shrimp farming; meintain Wemen with technical training employed in desk jobs; implye with extension work relating integrated focus to projects - incor to monoconnet of woon's coporate emploitation, processing, and operatives, and fish processing orboting; strongthon goographical and tesks second management already occurring - Strongthen extension services available to wamen; allow women to be involved in management of our projects; train local wasen in project managet techniques Raise level of training for w fishery techniciens; include in courses, training in pedagogy and project menagement - Provide training and technical assistance for woman that improves evation techniques - Train more technicians for local areas to deal with socio-economic problems of women employed in Extraction (2) - Participation differs according to region and type of catch extrac-- Burel exodus of young girls means - Introduce syster culture and shring older women cannot engage in exraising ted, especially active in syster-- Focus on integrated development approaches and integrated project poditions for system-gathering gathering Droughts and decline in ricework is seesonal, usually from growing may impode access to proapproaches encompassing resource on January to June, July; frequency duct, interver with hervesting ploitation, processing and marketing - Involve young girls in project planning especially when they a from the city during rainy sees of work depends on product supply ability - Work is inadequately regunerated - Facilities deficient - wasen are and other activities of wom m they return

- In <u>Casamence</u> region, 2,000-4,000 women involved from 59 villages represents 15% of economically active was
- Acon from 24-75 with AA shout everage: elder wasse work because younger girls migrate to work in processing factories
- n work individually (35% of time) or groups of 2-4 called "companion", based on kinship, age or neighbourhood; may share a dugout, post-hervostiwork, sales, tasks and profits
- Must usually borrow/ront dugout ropey by each and small in-kind gifts - and of day, month or sees
- Diela Rama wemen specialize in raw
- In <u>folcom</u> arou women in co-sporative involved with hervest of yoot and pagne; gather by hand at law tide
- Women gather mellusks in the mance Heritime but is only orginal activity - one month/year
- In Thise region meles raise systems but ween horvest pages
- On island of Fadjouth all women (15,000) and some children perticipate in hervest of pages; year-round activity but slacker in rainy season when become place to corosi/ground-nut crops

- dependent on one vessel that shuttles from Daker to capital of
- syster-gathering region - With mollusks, there has been unrestrained emploitation and specimen decreesing in size
- potition for time from household activities and children
- Women's activities may yield income/profit due to husb ad often being polygamous, bestew no decision-making power on wearn - Women typically do not oun degests-
- must cont/borrow and pay for use Traditional ideas about division of
- labour between seres

- help with fish-related tasks
- Try to address causes of rural you on's outmigration through project and development approaches

Chart 6. SEMBCAL - Women's involvement in FIS (cont'd) Development strategies/ recommendations/action Present involvement of woman Constraints Processing (3) - Women typically profesinate oon may make profit; however, in mostly fishermen's wives
- The involvement of venen may (a) Imali-ocale polygam . sholds, gives v no decision-neking power in family differ as per type of species and Work is not constant; depends on they may beyoutt processing centre as village; sees species and sees availability of fish has already happened locations have tradition of en-Bavico montal factors and proploying only men cossing usually occurs in dry Sample of wanna show average age 41, most married, must Processors often de met calculate work to supplement family income profits correctly - do not allow - Profits may be realized but very --les for risks as per species and whether paid on piecework basis or by fixed price There is shortage of equipment/ facilities for adequate processing Not enough resources devoted to per unit of product for export - Women may be involved in perm orthing new/botter processing Provide bygionic star techniques ual work and may work in-Impacts unfavourably on tourist trade along the "Potite Cite" because of suchs and edors dividually or on a family basis at prescribed workplace or in home -home-based products used for family and for sale (semi-pro-- Pricy disposition same processing served products) locations on may be involved in both Heflection of how well conters ore processing and marketing or are not integrated with the ac. tot - Traditional ideas about division of labour - Provide w (b) Industrial - - We en predominato, are preferred - Nost work is contractual and for washing, sorting, discarding tinning, and related jobs at - Technological innovations and mechanization of work (in cannories especially) bind women to their hygican standards followed Host women recruited are young girls connectes and at fish marketing establishments - Of about 6,000 jobs, 2,000 are

- permenent these reserved for men
- Woman usually occupy temporary positions and are classified as packer-finishers"; of 1,000 classifie - about 2,000 woman on weiting list for employment
- Matter do work of formersees/uldlevel positions but always under directors or production head who
- Women in executive processing jobs ACR FREE
- Wemen age range 17-58 with everage at 35; indicative of massive excels of young girls/married onen from rural
- m emigranto join a h band who has left rural, found remnerative employment, or, to supplement husband's income; only from Cocamance area do young girls g girle migrate tegether, and-up living
- Typically work eight-hour day, depends on product supply

- No room in jobs for individual initiative
- Workshifts are held responsible for specific labour-material output yet individual's chance of being rehirs1 such morning as part of temperary workforce, depends on group's production Work unstoody from day-to-day
- Poor working condition in
- factorios; fallure to provide a ployers with adequate equipment to schiere designated sutput
- Insufficient lighting, stand-up work stations, inadequate industrial bygions
- the mostly seasonal/temperacy; sen in least prestiguous, most Work mostly see poorly-paid jobs

- Eliminate polit ion os sido-offect in areas where per assing can be a suisance; must . welve wants - If not
- Squip processing contors with adoquate infrastructural facilities, permitting production of long-lasting high-quality mani-preserved product to supply hintoriand and meighbouring
- Provide women with literacy instruction and training in proporation
- rds. Improvo overall workplace conditions
- Heed to provide adequate number of infrastructural facilities - suckocuring chambers, comented drying arous, drying, solting tanks,
- Bood to initiate research into new techniques, experiment with new techniques
- a with literacy training in the notional long helps ensure that safety/industrial
- from south; need training in hygiene, general health, child care, femily planning; need adequate housing lood to propore more woman for nd production man forme position; training meeded not available locally - may meed to recruit from menfishing related technical training

Component	Present involvement of venen	Constraints	Development strategies/ recommendations/action
Distribution and machating (4)	- Unnon's involvement differs by area of country and product (Cassmance area, unnon more producting the product of the product	- There is a high transport cost to women involved if they went to take their product to communities for best prices - In interior, there is inadequate transportation/distribution infra- structure - discourages fishumagers from serving the interior - An absence of credit arrangements enabling fish traders to equip solves with temperature-controlled containers for shipping product to market - Useen may gain some profit; poly- gameus family setting, honever, means unnen receive no decision- making power with income	guerantee if eligible for bank leans; auto possible equipment purchase under policy of Bational Agricultural Credit Pand
Consumption (5)	- Westen play important role in choosing/presenting fish as dictary element - Loss consumption in reral areas - 70% of population but consume only 36% of fish product		- Propare nutritional campaigns, dietary programmes to increase fish communition especially in rural areas - Improve distributional infrastructure and conservation methods so that more fish are available for concumption especially in the interior - Provide training/extension workers capable of giving device, technical assistance to women regarding consumption/proparation of fish for family
Industrial imputs (6)	- Little data or information available on weman's involvement	• .	- Gather data and information on usmen's involvement; develop policy/ strategies on besis of information. Gather information about availability of jobs and probable berriers that useen may face in acquiring capleyment for jobs related to industrial inputs; train usmen for jobs in appropriate occupations/industries/sectors

Chart 6. SEMECAL - Momen's involvement in FIS (cont'd)

Companent	Present involvement of venom	Constraints	Development strategies/ recommedations/action
Severament roller (7)	- Unit better understanding of fish sector's potential, conditions for emploitation/velorization of potential through co-ordinating with useen involved at local/employment level		- Take stope to provide productive preparation and apportunities for young useen - Develop better understanding of social and ocumunic problems facing useen; identify priority areas and personnel/ technicians monded to address; provide moded training Integrate useen into overall fisheries development approach as apposed to isolating through special projects Provide appropriate training/basic adecation to enhance useen's integration Provide proper/adequate credit and financing arrangements to enhance useen's integration Provide more extension assistance, useen agents more of useen's isosse/conditions along with seen technical supertise; agents capelle of both training and tochnical expertise; agents capelle of both training and tochnical assistance extension work Opgrade worlplace conditions and supporting infrastructure for useen Adopt integrated development approach in rural areas, both for projects within fisheries sector and for agriculture; in fisheries sector, enhance useen's ability to undertake multiple roles of hervesting, processing, distributing and merketing Take stops to not strain rural areas labour force that suffers from urban nigration, integrate young girls when they return from city in rainy season, involve them in project planning; address action to sten rural enodus by incorporating; need for useen to earn sensoy offer greater variety of consumer goods redress inhalmore between population lovels and land acroage suitable for growing rice redress general indedequancies of school system that favours boys strongthen transportation facilities (distribution and narketing) rakes excessive number of middlenen in merketing (distribution and narketing) rakes excessive number of middlenen in narketing (distribution and a writeting) Take general seasures to enhance the integration of women and other least advantaged as ageneral encourse to enhance the integration of women and other least advantaged as ageneral encourse to enhance the integration of women and other least advantaged as agen

3. DISCUSSION ISSUES AND THEMES

Several recurring themes have emerged, from the combined case study analysis and review of supporting literature on women's participation in the fisheries industry. These themes, or issues, delineate concerns that should be considered when development objectives and policies are established. These are highlighted below, along with a summary of the major points pertaining to each.

- (a) Need for statistics, qualitative planning information and research on the role of women in fishing. The planning of development strategies, actions and projects require information about the number of people in the target population, their demographic traits and their needs. Definitions for formal census and data sets in developing countries traditionally exclude women from the count of the economically active population and of formal employment. As a result, gender-specific employment information is needed. Additionally, informatic about where women are, what they do and how they spend their time, needs to be examined. There is common acknowledgement that women make valuable contributions to the fishery industry. However, until the contribution is identified and described, adequate policies and actions are difficult to make. In an example of planning technical assistance or training, the way of delivering the assistance, the content of the assistance, and the determination of the overall need for the assistance can only be carried out successfully when based on an adequate information base.
- (b) The trade-off between skill training and general education. the literature on women in fisheries calls for more skill training, skill upgrade training, or training in everything from elementary book-keeping to mid-level management. The literature also states a need for adult literacy and basic education assistance. More detailed work needs to be done regarding occupations within the sector for which training is genuinely needed, versus, job skills which can be taught quickly, on the job. Course content for the training needs to be carefully studied so that the type of materials, level of difficulty, and presentation methods accurately reflect the ability of the target population. Many women in the fisheries sector undoubtedly need literacy and adult basic education. However, this is perhaps more of a general women's need, best addressed on a village, neighbourhood, or kinship level. As such, the development and administration of general education might best be undertaken by the national government and administered at the village level, for all women. In all events, before education and skill-training programmes are implemented, solid answers should be provided to the question of "How much training, for how long, for what end and for whom?"
- (c) Employment generation and intersectoral analysis and planning. One of the typical developmental objectives is to bring people needing jobs and available jobs together. Research is likely needed to identify more specifically the fisheries and non-fisheries jobs available for women, especially in rural areas. Additionally the industrial and employment potential of these areas needs to be identified carefully. The reason for doing this is to determine what the mid-to longer-term employment potential is for women in the fisheries sector. The employment analysis should look at the probable growth or decline of the sector, expected technological changes and other relevant labour market factors. Decisions should then be made regarding the feasibility of preparing women for the jobs and measures needed for the

preparation. The final outcome may be to discourage women from entering fishing-related activities, in which case, productive options in other industrial sectors should be available. In many cases, government policy and action may be needed to actually create jobs in other sectors, or, indirect jobs in fishing-related sectors.

A second related but somewhat distinct issue is whether women should be prepared for, and/or steered into low-level processing FIS jobs, except as a stop-gap measure. Such jobs typically require little training and are often of a dead-end variety yielding little security or advancement. Rather than permit women to languish in such jobs, thought might be given to using such employment for women to earn income while preparing for other employment, especially in urban areas with greater training availability.

Yet a third issue, is the dual need to open up access to upper level and management jobs in the FIS at the same time that women are encouraged to train for such jobs. To emerge from intensive training only to become underemployed or unemployed adds to serious labour force problems found in most developing countries.

(d) The need to follow a policy of integrated development at both the sector and project levels. At the sector level, especially in the small-scale rural side of the sector, this means tying-in, fisheries and agricultural types of strategies. What this may mean is planning for crop planting and harvest cycles that coincide with seasons when fishing is not productive or profitable. Additionally, in terms of fish-farming, there would be careful planning to ensure that adequate food/livestock sources are available for needed fishfeed. In a similar vein, in instances when technological innovations in either fishing or agriculture are expected to displace women, plans could be laid for optional, productive activities in the related sector.

At the project level, integrated development signifies at least two types of actions. One is an emphasis on dealing with the entire chain of tasks that village women perform. Rarely do fisherwives perform only extraction (i.e., fish farming) tasks, or only processing or marketing and distribution; typically one woman will be involved in all three activities. When talking about enhancing/expanding/upgrading women's role then, policies and strategies should be selected that strengthen women's overall productive performance, not just for one or another group of tasks. The second type of project action is one that addresses the entire fishing household. Typically, in the small rural villages, the household functions as an economic unit with roles assigned, often, on the basis of traditional male/female divisions of labour. At least some attempt to upgrade the productive well-being of the entire economic unit is recommended.

(e) Need to give attention to longer-term preparation of boys and girls for FIS activities. In both rural and urban areas, FIS policies need to focus on both the current and future source of trained manpower. This means that some attention is needed to ensure that children and adolescents of both sexes receive a good overall education. In rural fishing villages, care should be taken to ensure that familial/economic necessities do not disrupt formal education. Also, for adolescents, preparation for a productive future should be ensured. In training for FIS activities, quality programmes should be accessible to both sexes. The same principle applies equally to non-FIS preparation. Such preparation should be conducted in conjunction with the employment generation activities discussed in point (c).

- (f) Government policy needs to capitalize on the women's involvement with raising nutrition standards and fish product consumption. It is a common objective in fishery development plans to increase and diversify domestic consumption of fish. Fish and fish products form a significant part of huses nutritional supply and in many developing countries are the main source of animal protein. Increase in production (another common objective) will not of itself result in increased consumption. Marketing and production need to be co-ordinated and differentiated to address different target groups and linked to educational/nutritional programmes. The involvement of women in processing, marketing and consumption components of the FIS is significant although not formally assessed and/or remunerated. Much can be gained by capitalizing on women's present role in determining to a large extent the diet of the family. More active involvement of women as consumers in both planning and implementation of educational/nutritional campaignes should be the first step in determining the level and profile of marketing and processing (top down disaggregation of FIS).
- (g) Extension services and technical assistance should be made available to rural/artisanal women, but should not isolate the women as a group from village men. In the past, and currently, women, because of socio-cultural traditions have been denied access to extension and technical assistance services. Frequently, this was because their economic contribution was grossly underestimated. Given that women currently play and will continue to play an important role, they need access to information about government services and policies, assistance with adapting to structural and technological innovations, and help with tasks such as forming co-operatives, obtaining credit and improving skills. However, the delivery of such assistance should not disrupt the socio-economic and cultural traditions of the village and should, where possible, follow the approach of integrated development approaches discussed in (d).

The content and type of extension/technical assistance offered needs to receive study and to be aligned closely with needs of the population to be served. Extension services may be an effective way to carry out many training and educational tasks mentioned in (b) and to gather information/statistics discussed in (a).

- (h) Socio-cultural traditions heavily influence the current structure of women's work these need attention from government planners, project staff and similar individuals. Attention to socio-cultural traditions in terms of attitudes, beliefs and behaviour underlies the success or failure of many programmes and projects. Such traditions should not signify that various projects designed to foster change should be discarded. Rather, what is needed is that such traditions be identified and then accounted for or addressed during project planning and implementation. These traditions are what ultimately will influence the acceptance or rejection of the local people towards new innovations and practices. Attention to these is extremely important in the area of opening new employment opportunities for women.
- (i) Attention is needed to determine the most effective way to provide women with credit, financing and banking support. Credit and financial support is crucial to the success of many women's projects. However, the manner in which women are given access to such assistance needs to be examined. Access for women may require legislative changes, lower interest rates, longer repayment schedules, waivers of equity for receiving loans, the forming of co-operatives, and so forth. The most appropriate measures will

differ from country to country and can only be determined on the basis of information about women's needs (discussed in (a)), the economic situation (as described in (b)) and socio-cultural traditions (mentioned in (h)).

Closely related to this theme is that of the ownership structure throughout the FIS. The position of women probably assumes more importance in proportion to their representation in the ownership structure. However, providing women with ownership rights needs to occur within the context of the same factors mentioned in the preceeding paragraph.

- (j) Legislative initiatives necessary for improving the status and role of women need to be researched and identified. In a variety of situations, government-sponsored legislative initiatives may be the best way of enhancing women's status and role. This is especially true in relation to jobs in large-scale processing factories. Legislation may cover wages, training, promotability, shift-work, health and safety practices in the work place, and so forth. In other components of the FIS, a similar oriencation holds. Legislation may be needed in relation to financing and credit, to ensuring health and safety practices at the rural processing worksite and participation in the ownership structure. As already mentioned under other themes, the need for the initiatives needs to be identified carefully on the basis of information about the women's needs and implemented in accordance with socio-cultural conditions.
- (k) As appropriate, men and women in fishing villages should participate in planning, implementing and evaluating projects and technical assistance programmes designed to assist them. Ways should be developed to elicit the participation of fisherfolk in all aspects of project/technical assistance, planning, implementation and development. The success of a project is frequently enhanced when developed along with, rather than imposed upon the communities. Examples of such measures can include training community residents to administer their own projects, providing leadership training for men and women, and surveying/interviewing community residents to determine needs, strengths, perceptions, and so forth.

Literally, an endless list of such general themes could be completed and discussed. These are only examples of the many that appear to apply generically across countries and cultures. While important, these and others themes take on the most meanin; when viewed from a more concrete, country-oriented discussion of needs and actions. Similarly, they become more meaningful when examined in relation to the overall FIS orientation of a particular country. This will be the outcome of the analysis being undertaken for the complete study on women's integration in the FIS.

For the guidance of our publications programme in order to assist in our publication activities, we would appreciate your completing the questionnaire below and returning it to UNIDO, Studies and Research Division, Sectoral Studies Branch, D-2073, P.O. Box 300, A-1400 Vienna, Austria

QUESTIONNAIRE

The integration of women in the fisheries industrial system

		(p	lease check yes	appropriate box)
(1)	Were the data contained in the	e study useful?	<u></u>	<u> </u>
(2)	Was the analysis sound?		<u> </u>	<u> </u>
(3)	Was the information provided	new?	<u>/</u> /	<u> </u>
(4)	Did you agree with the conclus	sion?	<u>/</u> /	<u>/</u> /
(5)	Did you find the recommendation	ons sound?	<u></u>	<u>/</u> /
(6)	Were the format and style easy	y to read?	<u> </u>	. <u>L</u> j
(7)	Do you wish to be put on our omailing list?	locuments	<u></u>	<u> </u>
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(8)	Do you wish to receive the la of documents prepared by the S Studies Branch?		<u></u>	<u> </u>
(9)	Any other comments?		•	
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