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## 1. FRDC FINAL REPORT

# A VISION OF TASMANIA'S AQUACULTURE AND FISHING INDUSTRY BY 2005 AND INDUSTRY DEVELOPMENT PLANS TO ACHIEVE IT

Colin D Buxton

December 2001

FRDC Project No. 1995/160



| Tasmanian Industry Development Plans |                            |
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## 4. Project Summary

1995/160 A vision of Tasmania's aquaculture and fishing industry by 2005 and industry development plans to achieve it

**PRINCIPAL INVESTIGATOR:** Prof Colin Buxton (July 1998 to Dec 2000)

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#### NON TECHNICAL SUMMARY

The Tasmanian Fisheries Research Advisory Board (TasFRAB), established in 1992, recognised a need for industry-wide strategic development plans to assist the Fisheries Research and Development Corporation (FRDC) in the selection of projects suitable for funding. To facilitate this process there was also a need to foster a greater collaboration between research institutions, industry and government.

The objectives of this study were to:

- develop a ten year vision for Tasmania's aquaculture and fishing industries;
- identify the strategic developments and pathways required for that vision; and
- develop strategic plans for realising that vision through R&D, regulatory changes and better links between the public and private sectors.

Several workshops were conducted in each of the Aquaculture and Wild Harvest sectors to establish a vision and industry development plans and an action plan to achieve them. A range of stakeholders from industry, government and research providers in Tasmania attended the workshops.

These workshops gave rise to four tactical planning working groups aimed at progressing specific issues including:

- industry profitability
- sustainability and security
- R&D, and
- innovation and leadership.

The outputs of the workshops included a separate Industry Action Plan and Strategic Plan for both the Aquaculture and Wild Harvest sectors in Tasmania.

Arising out of the heightened discussion between stakeholders, the State Government of Tasmania and the University of Tasmania entered into a joint venture partnership agreement in July 1998, forming the Tasmanian Aquaculture and Fisheries Institute (TAFI). Industry peak bodies, such as the Tasmanian Aquaculture Council saw this development as a direct and outcome of this project, one that recognised the opportunity and benefits that would flow from partnership.

A key component of the TAFI partnership was to build on the communication and linkage between stakeholders. This was achieved through a number of Research Advisory Groups (RAGs). Each RAG has a broad representation including Government (DPIWE), Industry (all recreational and commercial sectors), Community (local government and NGOs) and Research Providers (TAFI, CSIRO, AMC). The deliberations and outputs are therefore representative of all Tasmania stakeholders.

In turn a major task of the RAGs under the auspices of this project was the development of a Tasmanian Fisheries and Aquaculture Strategic Research Plan (1999-2003) to assist the State in the prioritisation of R&D in all sectors.

To summarise, the project has been a catalyst for improving industry and government communication and raising the awareness of the priorities within different sectors. The beneficiaries include the aquaculture and wild harvest industry sectors, recreational fishing, state and local government, research providers and the general community. The strategic plans served to focus resources on high priority issues and assisted the various stakeholders to co-ordinate their activities and promote collaborative linkages. In particular the R&D plan served to identify priorities, partnerships and potential funding sources, and has resulted in significantly increased levels of funding especially from Federal initiatives.

#### **KEYWORDS:**

Research plans, aquaculture, fisheries, marine environment, Tasmania, strategic plans

## 5. Background

The Tasmanian Fisheries Research Advisory Board (TasFRAB) was established in 1992 to assist the Fisheries Research and Development Corporation (FRDC) in the selection of projects suitable for funding either the FRDC Trust or the 'TasFRAB Trust Fund'. The projects considered by the Board are those which have some direct benefit to the State. TasFRAB also seeks to promote collaborative research opportunities between the various research providers and to encourage industry to participate in research. TasFRAB seeks to raise the profile of marine research in Tasmania and encourage the communication of research activities and findings to the wider community.

At the time of the establishment of this project, strategic research planning on a sector by sector basis was accomplished by Research Advisory Groups (RAGs) convened by the then Department of Primary Industry and Fisheries. Separate RAGs included Scalefish, Abalone, Jack Mackerel and Rock Lobster and each had broad stakeholder representation with membership drawn from industry and all major public- and private-sector research providers.

#### 6. Need

The TasFRAB believed that the development of the industry in Tasmania would be well served by broad industry development plans. Given that R&D resources were limited, it was critical that resources were allocated to areas of highest priority and that the research effort of the major institutions was coordinated. This could only really be facilitated by the production of industry-wide development plans that were capable of examining the relative priority of issues between sectors.

The Board believed that its work in assessing projects and fostering collaboration would be greatly enhanced by industry development plans. Such plans would influence the types of research projects developed by institutions and would give a clear background against which the Board could assess the desirability of projects. Development plans would identify current capability and gaps, and so would help institutions to plan how they should position themselves to best assist industry development.

There was also a need to foster collaboration between research institutions and industry, and development plans should address strategies for involving industry through partnering, syndication, etc.

## 7. Objectives

- 1. To develop a ten year vision for Tasmania's aquaculture and fishing industries.
- 2. To identify the strategic developments and pathways required for that vision.
- 3. To develop strategic plans for realising that vision through R&D, regulatory changes and better links between the public and private sectors.

### 8. Methods

The vision and industry development plans were developed through workshops that were followed by *ad hoc* groups to develop strategies and action plans. These were to be followed by a further workshop to finalise strategies and followed by an implementation phase. It was proposed that two successive industry development plans were to be developed over the course of 1995/1996. The following schedule was proposed:

#### AQUACULTURE

Initial workshop January/February 1996

Second workshop (finalise and sign-off) May/June 1996

#### FISHING AND PROCESSING INDUSTRY

Initial workshop May 1996 Second workshop (finalise and sign-off) October 1996

Each workshop to have around 20 participants with the following composition:

Industry - Tasmanian Aquaculture Council/Fishing Industry Council industry leaders from each major sector (10).

Government - DPIF Corporate (1), DPIF Wild Fishery Management/Marine Farm Management (1).

Service Providers - DPIF Research (2), DPIF Export Market and Industry Development (1), University of Tasmania (2), CSIRO Division of Fisheries (1).

Other - TasFRAB Chair (1), Facilitator (1).

Each workshop would have a similar program. For the initial workshops the format was:

| _   | 1 |
|-----|---|
| 120 |   |
| Day | 1 |

6.30-7.30 pm Introduction and expectations. Workshop objectives.

8.00-9.30 pm Identify potential and barriers for the industry.

Day 2

8.30-12.00 am Identify vision of the industry in the next decade.

1.00-4.00 pm Identify and prioritise the strategy and pathways to achieve that

vision.

4.30-6.00 pm Identify the implementation process and the people responsible.

The workshops were to be followed by a number of small *ad hoc* working groups charged with developing detailed action plans for each aspect of the strategy for achieving the vision. This in turn was concluded by a one day workshop to finalise plans and to cement on-going commitment to the process.

These workshops would have the following agenda:

9.30-10.00 am Confirmation of vision and strategy.

10.00-12.00 am Presentation of action plans by convenors of working groups. 1.00-4.00 pm Prioritise and ratify action plans. Plan implementation and

determine on-going commitment.

The outputs from the workshop were to develop a set of simple vision statements and prioritised development plans covering the R&D, planning and strategic linkages that need to be developed to support the vision.

#### 9. Results and Discussion

#### 9.1 Aquaculture Strategic Plan

The first workshop to develop a vision and industry development plan for the Tasmanian aquaculture industry was held in February 1996. Thirteen industry leaders and 5 senior state government officials attended this workshop. The outcome of this workshop is summarised in Attachment 1 – TASMANIAN AQUACULTURE INDUSTRY STRATEGIC PLAN 1996-2006.

The workshop gave rise to four tactical planning working groups aimed at progressing specific issues including:

- industry profitability
- sustainability and security
- R&D, and
- innovation and leadership.

This was followed by a second workshop to develop an industry development plan in April 1996. The outcome of this workshop is summarised in Attachment 2 - TASMANIAN AQUACULTURE INDUSTRY ACTION PLAN 1996-2006.

### 9.2 Wild Harvest Fishing Industry Strategic Plan

The first workshop to develop a vision and industry development plan for the Tasmanian wildfisheries industry was held over two days in March 1997. Eleven industry leaders and 8 senior state government officials attended this workshop. The outcome of this workshop is summarised in Attachment 3 – TASMANIA'S WILD HARVEST FISHING INDUSTRY STRATEGIC PLAN 1996-2006.

The workshop gave rise to three tactical planning working groups aimed at progressing specific issues for the second workshop including:

- industry profitability,
- industry development, and
- resource sustainability.

This was followed by a second workshop to develop an industry development plan in June 1996. The outcome of this workshop is summarised in Attachment 4 – TASMANIA'S WILD HARVEST FISHING INDUSTRY ACTION PLAN 1996-2006.

## **9.3** Tasmanian Fisheries and Aquaculture Five Year Strategic Research Plans 1999-2004

In July1998 the State Government of Tasmania and the University of Tasmania entered into a joint venture partnership agreement to form the Tasmanian Aquaculture and Fisheries Institute (TAFI). Industry peak bodies, such as the Tasmanian Aquaculture Council saw this development as a direct outcome of the discussions developed though

the Vision project, recognising the opportunity and benefits that would flow from the partnership.

A key component of the TAFI partnership was the formal inclusion of the RAG structure into the research planning and review process. Two additional RAGs were developed including Marine Environment and Aquaculture. In addition, the Rock Lobster RAG was expanded to include giant crab and renamed the Crustacean RAG and the Jack Mackerel RAG was discontinued as a result of the OCS.

An important aspect of the RAGs is the fact that they have a broad representation including Government (DPIWE), Industry (all sectors), Community (Local Government and NGOs) and Research Providers (TAFI, CSIRO, AMC). The deliberations and outputs are therefore representative of all Tasmanian stakeholders.

The terms of reference of the RAGs are:

- 1. To compile a list of research and investigation needs required to improve understanding and management of the resource.
- 2. To develop research plans (strategic and tactical) to meet the needs identified.
- 3. To facilitate industry participation in the formulation and execution of research plans.
- 4. To foster the co-ordination and collaboration of the research effort of the various research institutions in meeting research plans.
- 5. To provide advice to the Tasmanian Fisheries Research Advisory Board with regard to:
  - the evaluation of relevant proposals,
  - the priority of individual research projects assessed against the research plans, and
  - the work of the Group over the past year and the progress of research towards the objectives of the research plans.
- 6. To assist in the dissemination of research findings.
- 7. To respond to requests from the respective management liaison committee on matters relating to the need for further research.

Following the formation of TAFI the FRDC agreed that a Tasmanian Fisheries and Aquaculture Strategic Research Plan be developed through the RAG process. Plans were produced for each of the following 6 areas:

- Abalone Fisheries
- Crustacean Fisheries
- Scalefishery
- Aquaculture
- Marine Environment
- Recreational Fisheries

The plan covers a period of 5 years and it is intended to review the plans on an annual basis to assess the priorities, but to also undertake a major review in 2003.

The outcome of this process is provided in Attachment 5.

#### 10. Benefits

The beneficiaries of the project include the aquaculture and wild harvest industry sectors, recreational fishing, state government, research providers and the general community. The project was a catalyst for improving industry and government communication, and raised the awareness of the priorities within different sectors.

The strategic plans served to focus resources on high priority issues and assisted the various stakeholders to co-ordinate their activities and promote collaborative linkages. In particular the R&D plan served to identify priorities, partnerships and potential funding sources, and has resulted in significantly increased levels of funding especially from Federal initiatives.

The Action plans helped to focus the issues in the aquaculture and wild harvest sectors and in many cases this work has been continued well after the completion of the specified tasks. For example, transport issues for the fresh and live fish export industry was progressed through Tasmanian Department of State Development input. Clarification of legislative and regulatory issues is currently being progressed through a number of consultative processes via the DPIWE.

## 11. Further Development

The Research Advisory Groups convened by TAFI review strategic research needs on an annual basis. A major review of the R&D Plan will be conducted in 2003.

#### 12. Planned Outcomes

The project outputs, Strategic and Action Plans for the Aquaculture and Wild Harvest Sectors, provided the impetus for a greater collaboration between all stakeholders. In the opinion of Industry the development of TAFI was a direct outcome of this heightened discussion. In turn, the formation of Research Advisory Groups, bringing together all stakeholders to review and plan research, has continued the participation of all groups in the strategic research development of both sectors.

#### 13. Conclusion

In summary the project addressed and met all of its objectives. These included:

- the development a ten year vision for Tasmania's aquaculture and fishing industries,
- the identification of strategic developments and pathways required for that vision, and

- the development of strategic plans for realising the vision through R&D, regulatory changes and better links between the public and private sectors.

These were all articulated in documentation that was circulated to Industry. Unfortunately, the committee structures set up to progress the key issues associated with Industry development were discontinued.

On a more positive note, the establishment of a major collaborative research partnership between the State Government and the University of Tasmania provided a forum through which the third objective was realised. This has seen a greater participation by Industry, Government, Community and Research Providers in the strategic planning and review of research in Tasmania. The key outcome of this is a greater focus on Industry needs in the research program.

## 14. Intellectual Property

The distribution of the IP associated with this project is as follows:

- 1. FRDC 52%
- 2. University of Tasmania 48%

#### 15. Staff

The project staff and duration included:

Principal Investigators:

Mr Ken Lawrie – TasFRAB Chair (1996)

Dr Howell Williams – Manager Research and Assessment DPIF (1996-98)

Prof Colin Buxton – Director TAFI (1998-2000)

Co-investigators:

Dr Howel Williams – Manager Research and Assessment DPIF (1996)

Mr Geoff Pickard – TasFRAB Chair (1997-98) and Tasmanian Aquaculture Council (1997-2000)

## 16. Appendices

- Appendix 1 Tasmanian Aquaculture Industry Action Plan 1996-
- **Appendix 2 Tasmanian Aquaculture Industry Strategic Plan 1996-2006**
- Appendix 3 Tasmania's Wild Harvest Fishing Industry Action Plan 1997
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## Appendix 1

## TASMANIAN AQUACULTURE INDUSTRY

## **ACTION PLAN**

# TASMANIAN AQUACULTURE INDUSTRY

**ACTION PLAN** 

1996-2006

## TASMANIAN AQUACULTURE INDUSTRY

## **ACTION PLAN**

## 1996

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## LIST OF PARTICIPANTS

PARTICIPANT SECTOR

Barry Ryan Oysters
Nick Bally Mussels

Derek Cropp Abalone Farming

Trevor Dix Salmon

Michael Cameron Flounder

Richard Roff Scallops

Ross Heather Other finfish

Colin Dyke Other species

Peter Shelley Product development and marketing
Geoff Pickard Marine farm planning legislation

Ken Lawrie Chairman, TasFRAB

Pheroze Jungalwalla TasFRAB Howel Williams TasFRAB

Ian Neeland Tasmania development and resources

Kim Evans A/Secretary, DPIF

Alex Schaap Marine Resources Division, DPIF

Hayden Hodges Export Market and Industry Development

Division, DPIF

Richard McLoughlin Marine Resources Division, DPIF

**Assistants:** 

Peter Banks Export Market and Industry Development

Division, DPIF

Kathy Brown DPIF
Gaye Oldham DPIF

**Apologies:** 

Colin Sumner Research & Development

Owen Carrington-Smith Other finfish

#### INTRODUCTION

The Aquaculture Industry Development Planning Steering Committee has ratified a Strategic Plan for the period 1996-2006.

This plan identifies:

- a **Vision** for the industry;
- a number of Goals, which, if achieved, will contribute to that Vision; and
- a set of **Strategies** to pursue these Goals.

This document summarises the **Action** developed by the Working Groups and considered by the Steering Committee. It also highlights those actions which were of the highest priority.

The Working Groups will drive the priority actions to completion. The Working Groups will report to an Executive Group with the following terms of reference.

- To oversee operations of the Working Groups.
- To keep the Steering Committee informed of progress towards the implementation of the Strategic Plan.
- To communicate with industry stakeholders.
- To secure financial and human resources necessary for the implementation of the Strategic Plan.
- To ensure that the Working Group and the strategic planning process meet relevant time frames and deadlines.
- To make the necessary horizontal industry connections eg. To the wild fisheries industry development plan etc.
- To work with the Working Groups to set their objectives, terms of reference etc. subject to the endorsement of the Steering Committee.

Mr Richard McLoughlin agreed to be the Convenor

## **ACTION PLANNING WORKING GROUPS**

## **TERMS OF REFERENCE:**

Develop tactical plans to implement the strategies and achieve outcomes.

Tactical plans should address what will be done, who will do it, what physical and financial resources are required.

## INDUSTRY PROFITABILITY

| Growth consistent with stakeholders | h maximising returns to  | World competitive in product cost and quality | Development of new profitable products and opportunities |
|-------------------------------------|--|---|--|
| Convenor:                           | Peter Shelley  |   |  |
| Support:                            | TDR  |   |  |
| Core Membership                     | Michael Cameron, Ian Neeland, Hayden Hodges, Peter Shelley, Ken Lawrie |   |  |
| Recommendations:                    |  |   |  |

## SUSTAINABILITY AND SECURITY

| Sensitive & sustainable environment | e use of the coastal   | Simple, secure, legislative framework for industry management development | Favourable community acceptance of aquaculture |
|-------------------------------------|--|---|--|
| Convenor:                           | Colin Dyke   |   |  |
| Support:                            | DPIF   |   |  |
| Core Membership                     | Colin Dyke, Geoff Pickard, Tro   | evor Dix, Richard McLoughlin, Alex Schaap                                 |  |
| Recommendations:                    | <ul><li>Legislative and Administ</li><li>Technical Environmental</li><li>Public Relations Group.</li></ul> | rative Review Committee.<br>Group.  |  |

## R&D

| An R & D capability directed to developing and sustaining aquaculture industries |   |  |  |  |
|--|---|--|--|--|
| Convenor:  | Pheroze Jungalwalla   |  |  |  |
| Support:   | SALTAS  |  |  |  |
| Core Membership  | Pheroze Jungalwalla, Derek Cropp, Howel Williams  |  |  |  |
| Recommendations:   | <ul> <li>Collaboration issues to be resolved.</li> <li>Composition of research guidance body (strategic and advocacy role).</li> <li>Develop rigorous priority setting process.</li> <li>Agenda to include R&amp;D into "non-production" issues.</li> <li>Commitment by Government (etc.) providers to put resources and effort "on the table".</li> <li>Industry steering and investing in R&amp;D.</li> <li>R&amp;D will require real dollars.</li> </ul> |  |  |  |

### INNOVATION AND LEADERSHIP

| Industry culture of innovation and leadership |   |  |  |
|---|---|--|--|
| Convenor:                                     | Barry Ryan  |  |  |
| Support:                                      | DPIF  |  |  |
| Core Membership                               | Barry Ryan, Kim Evans, Nick Bailey, Richard Roff, Ross Heather  |  |  |
| Recommendations:                              | <ul> <li>Conduct review into industry representation structures, functions and funding.</li> <li>Establish a body to seek and capture funding opportunities.</li> </ul> |  |  |

## AGREED PRIORITY ACTIONS AND IMPLEMENTATION GROUPS

The Aquaculture Industry Development Steering Committee determined that the following activities were the most strategic, and therefore worthy of priority attention at this time.

| GOAL GROUP                  | ENTRY POINT<br>ACTIONS  | SUPPLEMENTARY<br>ACTIONS  | WORKING GROUP CORE MEMBERS (others may contribute  |
|-----------------------------|---|---|--|
| Industry Profitability      | Benchmarking  | Industry growth plan targets. GAP analysis and strategies development. Research market trends and product development | Peter Shelley (Convenor) Ian Neeland Michael Cameron Hayden Hodges   |
| Sustainability and Security | Technical Environmental Group   | Public relations Group. Legislative and Administrative Review Committee.  | Colin Dyke (Convenor) Trevor Dix Geoff Pickard Richard McLoughlin Simon Stanley Nick Bailey                |
| Research & Development      | Composition of research guidance body   | Develop rigorous priority setting process   | Pheroze Jungalwalla (Convenor) Howell Williams Derek Cropp Andrew Osborne Peter Montague Peter Rothlisberg |
| Innovation & Leadership     | Conduct review into industry representation structures, functions and funding |   | Barry Ryan (Convenor) Alex Schaap Bob Lister David Forest Owen Carrington Smith or Richard Doedens         |

## Appendix 2

# TASMANIAN AQUACULTURE INDUSTRY

## STRATEGIC PLAN

1996-2006

# TASMANIAN AQUACULTURE INDUSTRY

STRATEGIC PLAN

1996-2006

## TASMANIAN AQUACULTURE INDUSTRY

## STRATEGIC PLAN

## 1996-

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| Key Outcomes for the next 10 years      |
| Relationship of Key Outcomes            |
| Strategies needed to achieve outcomes   |
| Resolutions                             |

### INTRODUCTION

A strategic planning forum for the Tasmanian Aquaculture Industry was held at the Pines Resort, Hobart, on 19-20 February 1996. The aims of the forum were:

- To allow the major stakeholders to map out their desired future for the industry over the next 10 years.
- To set in motion a framework for action implementation to ensure that future is achieved.

The planning forum followed a Workshop Technique to:

- Identify the events and trends impacting upon the aquaculture industry;
- Identify the key outcomes desired for the aquaculture industry in the next ten years;
- Identify and prioritise the key strategies needed to achieve the outcomes desired; and
- Identify the implementation process and organisational arrangements necessary to implement the Strategic Plan.

Working Groups were formed to achieve the strategies identified at the forum. These groups reported to a second planning forum, which was conducted at Rydges Hotel, Hobart on 18 April 1996.

The planning forum assessed the actions, ranked them according to their strategic priority ad assigned tasks to Working Groups to progress.

A small Executive Group was formed to oversee the implementation of the actions.

This report details the strategic plan developed and ratified at the planning forums.

## LIST OF CONTRIBUTORS

PARTICIPANT SECTOR

Barry Ryan Oysters
Nick Bally Mussels

Derek Cropp Abalone Farming

Trevor Dix Salmon
Michael Cameron Flounder
Richard Roff Scallops

Ross Heather Other finfish
Colin Dyke Other species

Colin Sumner Research & Development

Owen Carrington-Smith Other finfish

Peter Shelley Product development and marketing
Geoff Pickard Marine farm planning legislation

Ken Lawrie Chairman, TasFRAB

Pheroze Jungalwalla TasFRAB Howel Williams TasFRAB

Ian Neeland Tasmania development and resources

Kim Evans A/Secretary, DPIF

Alex Schaap Marine Resources Division, DPIF

Hayden Hodges Export Market and Industry Development

Division, DPIF

Richard McLoughlin Marine Resources Division, DPIF

**Assistants:** 

Peter Banks Export Market and Industry Development

Division, DPIF

Kethy Brown DPIF
Gaye Oldham DPIF

### THE VISION

- Effective aquaculture is predicted on the sensitive and sustainable use of the coastal environment.
- The future depends on:
  - A proper identification and understanding of the role of aquaculture and its place in the sustainable use of coastal water:
  - A legislative and administrative framework that balances aquaculture's need for security of tenure with appropriate community confidence in the industry's commitment to sustainable development.
- Tasmanian aquaculture will be world competitive in product, cost and quality.
- The profitability of the industry requires a commitment to continuous improvement in standards of training, management, production, marketing and distribution.
- This commitment will ensure the reliable delivery of a quality product in quantities which match the needs of the world market.
- The aquaculture industry will be supported by an R&D capability directed at marketing and management as well as production.
- The real needs of industry will determine the research undertaken and maximum possible funding will be sought from both industry and government sources.
- A vibrant aquaculture industry will foster cooperation and leadership, and encourage innovation to promote continuing improvement.
- Enterprise and initiative will be nurtured to produce a climate which is focussed on the future.

## KEY HISTORIC EVENTS IMPACTING ON THE AQUACULTURE INDUSTRY

| 1975  | 1980  | 1985  | 1990  | 1996   |
|---|---|---|---|--|
| Ban of imports of salmonoids into<br>Australia for quarantine reasons | Longline culture of pacific oysters                   | TFDA imports into Tasmania (1984)                                     | Marine farming legislation "bogged down" 1989                 | Formation of Tasmanian Aquaculture<br>Council                        |
| Spat failures in the Tamar River – oysters                            | Oyster hatcheries dream to reality 79-85              | TFDA to Dept Sea Fisheries. Change form development to administration | Salmon industry falters 1989                                  | Formation of CRC for Aquaculture                                     |
| Aquaculture industry virtually non existent                           | Hatchery development for oysters                      |   | Salmon production in Tasmania increases fivefold. Price crash | Hatchery spawning of mussles   |
|   | Establishment of shellfish culture                    | Structured training programs in Uni for aquaculture 1985              | Emergence and recognition of competing interests              | Court decision on wider range of objections to marine farming leases |
|   | Progression of mussel culture from rafts to longlines | Establishment of Saltas   | "Production driven" to "market driven"                        | Development of a new Marine Farming<br>Act                           |
|   | Norwegian interests in salmon industry of Tasmania    | Biotoxics detected followed by other exotic diseases                  | Moratorium of new aquaculture laws                            | Establishment of TAC   |
|   | Entrepreneurs – financial investment in aquaculture   | Self sufficiency of Tasmanian salmon industry                         | Implications of GATT on overseas exports                      | Saltas monopolies ends in terms of smolt production                  |
|   | Marine farming legislation (1983)                     | Closure of wild scallop fisheries                                     | Emergence of greens as political farce                        | Harvesting of reseeded spat  |
|   | Inefficiency in management of industry                | Salmon production in Tasmania increased fivefold                      | Moratorium of aquaculture                                     | Development of new Act   |
|   |   | Development of Tasmanian QA program for shellfish                     | First commercial hatchery produced abalone                    | Market access to Japan for oysters                                   |
|   |   | Reduction of Wild Fisheries offset by                                 | Air freight problems  | Value of MF product exceeds wild                                     |

| aquaculture   |  | fisheries |
|---|--|-----------|
| Australian stock market collapse  | Industrial awards for shellfish and finfish  |           |
| Establishment of 1st aquaculture section to SFDA – Marine Farming Section | Early 90's small fish competing in big pond  |           |
| Internal Government budget for aquaculture exceeds wild fisheries         | Interest in new finfish species  |           |
| Joint OFCF Tasmanian government scallop reseeding program                 | Reconstruction of nearly bankrupt<br>salmon industry biology in commercial<br>review |           |
|   | Quarantine threats – ballast water   |           |
|   | Concerns re <i>Listeria</i> in marine farmed products                                |           |
|   | Ecologically sustainable development a legislative requirement in 1994               |           |

# KEY TURNING POINTS, LEVERAGES AND TRENDS IN THE AQUACULTURE INDUSTRY

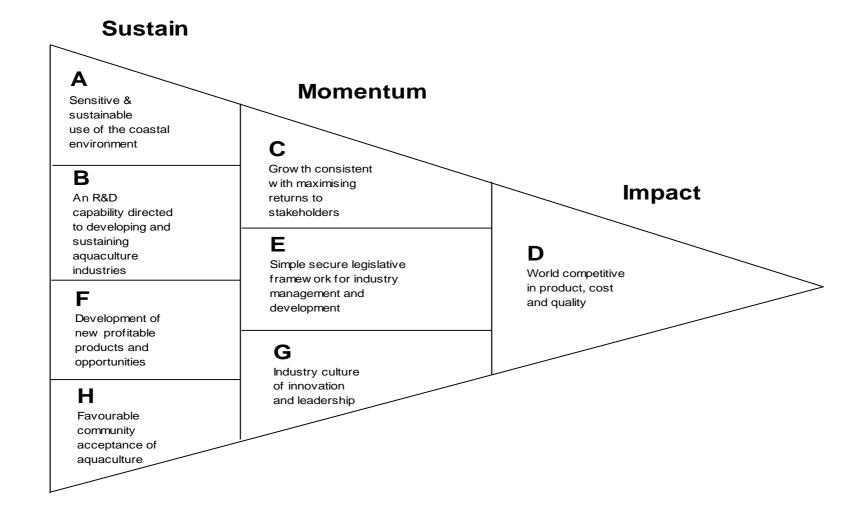
| KEY TURNING POINTS   | LEVERAGE POINTS                                      | TRENDS TOWARDS                                   |
|--|--|--|
| Sustainable production of juveniles in farm hatcheries in commercial terms | Refinement of industry representation                | Increased production                             |
| Legislative structure for the industry community attitudes                 | Technological development                            | More Government involvement regulation           |
| Development of industry bodies   | Secure investment climate                            | Opposition to the industry (community attitudes) |
| Recognition of quality produced in Tasmanian market acceptance             | Security and tenure                                  | Increased organisation within industry           |
| Interest in and provision of Research and Development                      | Cooperation both within industry and with Government | Development of new products/species              |
| Industry funded research and development                                   | Return on funds employed                             | Diminishing returns on capital investment        |
| Innovation creates commercial viability                                    | Single regulatory responsibility                     | Need to diversify into other native species      |
|  |  | Clean pure image recognition of quality          |
|  |  | Globalisation of Industry                        |
|  |  | -Market access                                   |
|  |  | -Technology                                      |
|  |  | More people and/or groups                        |
|  |  | wanting to have a say                            |

## THE KEY OUTCOMES DESIRED FOR THE NEXT TEN YEARS

| B:  AN R&D CAPABILITY DIRECTED TO DEVELOPING AND SUSTAINING AQUACULTURE INDUSTRIES        | C: GROWTH CONSISTENT WITH MAXIMISING RETURNS TO STAKEHOLDERS  | D: WORLD COMPETITIVE IN PRODUCT, COST AND QUALITY   | E: SIMPLE, SECURE LEGISLATIVE FRAMEWORK FOR INDUSTRY MANAGEMENT AND DEVELOPMENT   | F:  DEVELOPMENT OF NEW PROFITABLE PRODUCTS AND OPPORTUNITIES   | G: INDUSTRY CULTURE OF INNOVATION AND LEADERSHIP   | H: FAVOURABLE COMMUNITY ACCEPTANCE OF AQUACULTURE   |
|---|---|---|---|--|--|---|
|   |   |   |   |  |  |   |
| Appropriate capability<br>for R&D meeting the<br>needs of industry                        | Climate in which 10% after tax return expected  | Cost efficient<br>production and<br>marketing (Best<br>Practice) to meet<br>competition   | Legislative base for industry development with community support  | Value added product<br>representing 50% of all<br>marine farm input  | Maintain a philosophy of innovation and continuous improvement   | Acceptance of industry as good corporate citizen  |
| Govt/industry research<br>funding of<br>\$20M/annum in present<br>day money terms         | Maximise growth consistent with commercial reality  | Recognition and<br>production of high<br>quality product based<br>on QM systems   | Single Government<br>body with total<br>development authority<br>to achieve sustainable<br>development of<br>aquaculture  | New food products and concepts   | I<br>ndustry Leadership  |   |
| Research focus on<br>reliable juvenile<br>production in line with<br>species market wants | Output value of \$300M<br>per annum at farm gate<br>in present day money<br>terms   | Educate workforce in<br>Best Practice and<br>technology   |   |  |  |   |
|   | AN R&D CAPABILITY DIRECTED TO DEVELOPING AND SUSTAINING AQUACULTURE INDUSTRIES  Appropriate capability for R&D meeting the needs of industry  Govt/industry research funding of \$20M/annum in present day money terms  Research focus on reliable juvenile production in line with | AN R&D CAPABILITY DIRECTED TO DEVELOPING AND SUSTAINING AQUACULTURE INDUSTRIES  Appropriate capability for R&D meeting the needs of industry  Climate in which 10% after tax return expected  Maximise growth consistent with consistent with after tax return expected  Maximise growth consistent with commercial reality  Output value of \$300M per annum at farm gate in present day money | AN R&D CAPABILITY DIRECTED TO DEVELOPING AND SUSTAINING AQUACULTURE INDUSTRIES  Climate in which 10% after tax return expected  Cost efficient production and marketing (Best Practice) to meet competition  Cost efficient production and marketing (Best Practice) to meet competition  Research focus on reliable juvenile production in line with  Consistent with commercial reality  Cost efficient production and marketing (Best Practice) to meet competition  Recognition and production of high quality product based on QM systems  Educate workforce in Best Practice and technology | AN R&D CAPABILITY DIRECTED TO DEVELOPING AND SUSTAINING AQUACULTURE INDUSTRIES  Climate in which 10% after tax return expected  Cost efficient production and marketing (Best Practice) to meet competition  Cost efficient production and marketing (Best Practice) to meet competition  Cost efficient production and production of high quality product based on QM systems  Simple, Secure Legislative Framework for industry  Legislative base for industry development with community support  Single Government body with total development authority to achieve sustainable development of aquaculture  Educate workforce in Best Practice and to achieve sustainable development of aquaculture | Appropriate capability for R&D meeting the needs of industry  Govt/industry research funding of \$20M/annum in present day money terms  Apsearch focus on reliable juvenile production in line with  Research focus on reliable juvenile production in line with  Research focus on reliable juvenile production in line with  AN R&D COMPETITIVE IN PRODUCT, COST AND QUALITY  SIMPLE, SECURE LEGISLATIVE FRAMEWORK FOR INDUSTRY MANAGEMENT AND DEVELOPMENT  SIMPLE, SECURE LEGISLATIVE FRAMEWORK FOR INDUSTRY MANAGEMENT AND DEVELOPMENT  Competition  Cost efficient production and marketing (Best Practice) to meet competition  Cost efficient production and marketing (Best Practice) to meet competition  Cost efficient production and marketing (Best Practice) to meet competition  Single Government body with total development authority to achieve sustainable development of aquaculture  New food products and concepts  New food products and concepts  Best Practice and production in line with | AN R&D CAPABILITY DIRECTED TO DEVELOPING AND SUSTAINING AQUACULTURE INDUSTRIES  Climate in which 10% after tax return expected  Covt/industry research funding of \$20M/annum in present day money terms  Consistent with commercial reality  Constitute PRODUCT, COST AND QUALITY  SIMPLE, SECURE LEGISLATIVE FRAMEWORK FOR INDUSTRY LEGISLATIVE FRAMEWORK FOR INDUSTRY CULTURE OF INNOVATION AND LEADERSHIP  Legislative base for industry development with community support  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  Value added product representing 50% of all marine farm input  New food products and concepts  N |

| Industry committed to<br>ecological sustained<br>development as a<br>principle | Research focus on<br>reliable production in<br>line with species market<br>wants | 80% utilisation of water<br>available under marine<br>farm zoning process | Freight system to<br>permit satisfactory<br>product distribution   |
|--|--|---|--|
|  |  | More diverse range of viable aquaculture species                          | Appropriate methods<br>for dealing/prevention<br>of disease        |
|  |  |   | Reliable/profitable<br>world markets based on<br>consistent supply |

# **RELATIONSHIP OF KEY OUTCOMES**



#### THE STRATEGIES NEEDED TO ACHIEVE THE OUTCOMES

#### INDUSTRY PROFITABILITY

| Growth consistent with maximising returns to stakeholders | World competitive in product cost and quality | Development of new profitable products and opportunities |
|---|---|--|
|   |   |  |

- Industry growth plan and investment attraction strategy reviewed yearly (S)
- Benchmarking (by segment; quality, costs, competitor strategies, outlook, skills) (S)
- Research market trends and product development (S)
- Market strategy development and establish R&D priorities (S)
- GAP analysis and strategies development to overcome weaknesses and maximise strengths (S)
- Market research for new species in line with opportunities identified eg. squid, ice pearls (M)
- Implementation of opportunities identified in GAP analysis eg. expansion, further value-adding, cost efficiencies, distribution systems etc. (M)
- Off-shore expansion utilising high tech and skills developed in Tasmania eg. mainland, o/s, different species (L)
- Network for processing, value-adding, marketing, distribution other food products from Tasmania (L)

#### SUSTAINABILITY AND SECURITY

| Sensitive & sustainable use of the coastal environment | Simple, secure, legislative framework for industry management development | Favourable community acceptance of aquaculture |
|--|---|--|
|  |   |  |

- Environmental management systems to be established by DPIF and industry sectors (S)
- Environmental systems to be "sold" to stakeholders, this is to include information kits (S-M)
- Environmental management systems subject to process of continuous review (M)
- Environmental systems to be used as a marketing point to customers (M)
- Industry and DPIF to promote the concept of one management authority (M-L)
- Relevant legislation to be subject to regular review (M-L)
- Information and expertise to be collected sufficient to provide a predictive capability if likely environmental effects of aquaculture (L)
- Industry and DPIF develop an information kit too help promote understanding of aquaculture
- Rationalise information fro coastal water quality monitoring systems, appropriate cost sharing and reduced the occurrence of extraneous pollution

#### R&D

#### An R & D capability directed to developing and sustaining aquaculture industries

- Developing, across all Tasmanian aquaculture industries, the process of:
  - Setting priorities
  - Funding
  - Collaboration
  - Proprietorship

#### INNOVATION AND LEADERSHIP

#### Industry culture of innovation and leadership

- \* Review and rationalise industry representative groups (state and federal) (S)
- Repeat industry strategic planning regularly, review goals and strategies and ensure implementation
- Formalise industry inputs (eg. create advisory/management bodies) to policy, management and R&D priority setting
- Develop award systems for achievement in leadership/innovation
- Develop communication and information sharing systems eg. Newsletters, aquaculture conference access to Internet, local search conferences, workshops
- Ensure training opportunities match industry needs
- Actively pursue funding for training/development of potential industry leaders and innovators eg. agribusiness marketing, rural industry leaders scholarship, exchange programs
- Provide policy legal and financial environment which provides incentives for experimentation innovation

#### KEY

- \* These strategies are PIVOTAL to the attainment of the goal
- (S) Short-term 1-2 years (M) Medium term 3-5 years (L) Long term 5-7 years

#### **RESOLUTIONS:**

The participants in the Industry Strategic Planning Forum resolves to formalise the group as the **Industry Development Planning Steering Committee** for the aquaculture industry.

Mr Ken Lawrie agreed to act as Chairperson.

Executive support will be provided by DPIF, Export Market & Industry Development Division.

The Industry Development Planning Steering Committee resolved to form an **Executive Group**:

- to oversee operations of the Working Groups;
- to keep the Steering Committee informed of progress towards the implementation of the Strategic Plan;
- to communicate with industry stakeholders;
- to secure financial and human resources necessary for the implementation of the Strategic Plan;
- to ensure that the Working Group and the strategic planning process meets relevant time frames and deadlines;
- to make the necessary horizontal industry connections eg. to the wild fisheries industry development plan etc.; and
- to work with the Working Groups to set their objectives, terms of reference etc.-subject to the endorsement of the Steering Committee.

Mr Richard McLoughlin agreed to be the Convenor.

# Appendix 3

# TASMANIAN'S WILD HARVEST FISHING INDUSTRY

# **ACTION PLAN**

1997

# TASMANIA'S

# WILD HARVEST FISHING INDUSTRY

**ACTION PLAN** 

1997

### TASMANIAN WILD HARVEST FISHING INDUSTRY

## **ACTION PLAN**

## 1997

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## LIST OF CONTRIBUTORS

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Mr Rory Byrne Training

Mr Kim Evans Government (DPIF)

Mr Brian Franklin Processing/Marketing

Mr Alan Garcia Government Policy (TDR)

Mr Steve Gasparinatos Industry (TFIC)

Mr Al Hansen Processing/Marketing

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**FACILITATORS** 

Mr Kevin Balm Integra Pty Ltd

Mr Peter Banks Integra Pty Ltd

ASSISTANT

Ms Rosie Duggan DPIF

## KEY ACTION PROJECTS/STRATEGIES TO ACHIEVE THE DESIRED OUTCOMES

The 10 outcomes were grouped into three categories, with working groups formed to facilitate the development of action projects and strategies. These are detailed on the following pages.

The facilitator pointed out Einstein's thoughts that:

the problems we are facing today cannot be solved by the same level of thinking that generated them.

He challenged the participants to address the action categories with this frame of mind, while ensuring that the projects they proposed were targeted at addressing the key outcomes the industry wanted to achieve over the next ten years.

| PROFITABILITY A: Maximised Market Opportunities C: Cost Effective Fisheries Administration E: Optimised Returns consistent with sustainability Sustainable Resources |  |
|--|--|
|--|--|

#### **TASK GROUP:**

**Greg Reynolds** 

**Alex Schaap** 

**Brian Bailey** 

Al Hansen

**Dean Lisson - Convenor** 

**Brian Franklin** 

#### **ACTION PROJECTS:**

- \*1. Meaningful management plans and effective admin of plans through advisory committees leads to sustainable fishery
- \*2. Advisory committees trained to assist them to carry out their functions
- \*3. Advisory committees ensuring that decisions on management take account of cost impacts
- **4.** Industry body running market development co-ordination and industry awareness project including identifying trends in domestic fish consumption
- 5. Quality Assurance

#### **George Mure**

- regulation and enforcement
- industry awareness codes of practice

#### **ADMIN SUPPORT:**

- buyers hard nosed

#### **Mures Fish Centre**

\*6. Advisory committees ensuring that government expenditure is transparent and accountable

7. TDR to investigate responsibility of attracting commercial (passenger) carrier to provide wide body freight service to export destinations

#### **NEXT MEETING DATE:**

**8.** TDR facilitating identification of joint venture opportunities and potential joint venture partners

#### \* Pivotal Action Projects

# RESOURCE J: Ecologically & Economically sustainable fisheries B: Research characterised by: timely, co-operative, relevant, adequate

#### **TASK GROUP:**

#### **ACTION PROJECTS**

#### **Howel Williams**

\*1. Developing and agreeing ways that assessment results will be used in management to achieve objectives

#### **Dennis Witt**

- managers, industry, researchers

| <b>Geoff Pickard - Conven</b> |
|-------------------------------|
|-------------------------------|

- eg use of trigger points

**Neil Stump** 

- define adequate

**Keith Sainsbury** 

\*2. Identifying and collecting adequate data - fishery data and biological data

**Rob Milner** 

\*3. Doing adequate stock assessment

**Gary Sheedy** 

\*4. Evaluating ecosystem context of stock and fishery (eg habitat, by-catch, environment, other users)

5. Developing adequate review processes for stock assessment, industry stakeholder initiated review

**ADMIN SUPPORT:** 

**6.** Develop an effective verification method for data collection

**DPIF** Taroona

7. Develop effective teams of ensuring compliance with management measures - including education

**8.** Developing transparent, cooperative and timely process to deal with each of the above.

**NEXT MEETING DATE:** 

**9.** Choose 2 fishery examples (one with lots of information and focussed issues, and one with little data and diffuse issues) to 'test run' the above process

# \* Pivotal Action Projects

| INDUSTRY                   | G: Responsibilities   | H: Unified, involved,             | I: Highly skilled committed           | <b>F:</b> Effective partnerships b/w           |  |
|----------------------------|---|-----------------------------------|---------------------------------------|--|--|
| DEVELOPMENT                | Stewardship Image and Practice  | Proactive Industry                | informed industry participants        | industry and govt which recognises other users |  |
| TASK GROUP:                | ACTION PROJECTS   |                                   |                                       |  |  |
| Kim Evans                  | *1: Designing or reviewing an   | industry structure which is broad | lly representative of industry taking | g into account:                                |  |
| Bob Lister                 | - Funding issues (eg levies, subscriptions etc)                           |                                   |                                       |  |  |
| Steve Gasparinatos - Conv. | - Facilities  |                                   |                                       |  |  |
| Rory Byrne                 | - Communications  |                                   |                                       |  |  |
| Alan Garcia                | - Human resources/expertise   |                                   |                                       |  |  |
|                            | having regard to current sectoral structures and representation           |                                   |                                       |  |  |
| ADMIN SUPPORT:             | *2: Canvassing merits and disadvantages of developing peak body:          |                                   |                                       |  |  |
| TFIC                       | - Purpose/direction   |                                   |                                       |  |  |
|                            | - Advantages/disadvantage   | es                                |                                       |  |  |
| NEXT MEETING DATE:         | - Sectoral differences (we are doing OK on our own)                       |                                   |                                       |  |  |
|                            | 3. Developing a series of measures to improve the "image" of the industry |                                   |                                       |  |  |

- eg. Code of practice
- safety at sea short mandatory course
- fisherman certification
- development of leadership skills
- **4.** Highlighting good news issues
  - eg. Strapless bait box
  - manager of resource
  - innovative techniques/practices
- **5.** Identifying potential industry leaders, training requirements, other program to motivate involvement
- **6.** Investigating mechanisms/forums/communication channels which can bring commercial and other fisheries users closer.
- **7.** Practising sustainability
- **8.** Partnerships with industry and government

### \* Pivotal Action Projects

# TERMS OF REFERENCE FOR THE ACTION GROUPS

- **1.** Action groups are to meet on approximately 2 occasions for approx 4 hours each over the next 2-3 months.
- 2. Detail how the action projects will be undertaken, who will do the actions and some milestones and deadlines for the projects.
- **3.** Establish estimates of the costs of implementing the priority actions and the sources of funds.
- **4.** Identify the role of industry, government and others in implementing the priority actions.
- **5.** Prepare a report on the action project for presentation to the next meeting of the strategic planning forum.

# Appendix 4

# TASMANIAN'S WILD HARVEST FISHING INDUSTRY

# STRATEGIC PLAN

1997-2006

# TASMANIA'S

# WILD HARVEST FISHING INDUSTRY

# STRATEGIC PLAN

1997 - 2007

# TASMANIA'S WILD HARVEST FISHING INDUSTRY

### STRATEGIC PLAN

### 1997 - 2007

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Mr Peter Banks Integra Pty Ltd

ASSISTANT

Ms Rosie Duggan DPIF

# KEY EVENTS IMPACTING ON THE INDUSTRY

| D (01  | (0. 70)  |  | Wilson   | T 4 003                         | E 1 003                                   | N. T. 1 0.03   |
|--|--|--|--|---------------------------------|---|--|
| Pre 60's   | 60 - 70's  | Early 80's                                       | Mid 80's   | Late 80's                       | Early 90's                                | Mid 90's   |
| Management measures introduced late 1800's           | Fishing changes from, lifestyle change to commercial enterprises | Development of<br>global markets                 | **Collapse of<br>fisheries Aust &<br>international | Limit entry (Show cause)        | Over capitalisation in trawl fishery      | ** New fisheries<br>legislation                      |
| Development of reliable airfreight of seafood        | Globalization of markets   | Overfishing the resource                         | Intro of abalone quotas                            | Collapse of scallop fishery     | Ecological<br>sustainable<br>development  | Development of live markets                          |
| Transportation and storage of live and fresh produce | Increasing technology  | **Technology incl.<br>GPS plotters &<br>sounders | Exclusive economic zone                            | Diversification philosophy dead | ** New markets                            | Wallis lakes   |
|  | Computerisation information evolution                            |  | Latent effort                                      | Market access transport         | Premium prices for quality fish           | Tradeable nature of access rights                    |
|  | Technology improvement   |  | Value of access rights rising                      |                                 | New ranges of quality<br>fish (freshness) | Quality marketing<br>Uniformity of<br>product nature |
|  | Entry costs  |  | **Transport/ airfreight                            |                                 | User pays                                 | Health food gym<br>culture                           |

| Interaction between fishing and environmental issues | Real research results         | ** Owner operators<br>to investors |  |
|--|-------------------------------|------------------------------------|--|
|  | ** Spin-offs from aquaculture | Fresh is best perception           |  |
|  | Intro of GPS                  | Loss of access rights to SBT       |  |

<sup>\*\*</sup>Key Events of Significance to the Future of the Industry

## TRENDS OF CHANGE INFLUENCING THE INDUSTRY

This identifies the underlying patterns which are shaping the events that are seen on the surface of the industry.

| FROM                                     | ТО                                      |
|--|---|
|  |   |
| Cottage Industry                         | Commercial business                     |
| Satisfying domestic markets              | Satisfying dom & international markets  |
| Local                                    | Globalisation                           |
| Frozen Product                           | Fresh and live product                  |
| Fish as food                             | Fish as tradeable commodity             |
| Intuition                                | Science and technology                  |
| Under utilisation                        | Over utilisation                        |
| Rape and pillage                         | ESD                                     |
| High volume, low value, quantity         | Maximising yield and return             |
| Little regulation                        | More regulation                         |
| Low access cost                          | High access cost                        |
| Open slather                             | Restricted entry                        |
| Limited ad hoc crisis research           | Managed strategic research              |
| Exclusive use                            | Increasing role/conflict of user groups |
| Consolidated revenue funding of services | Cost recovery from users                |

## LEVERAGE POINTS

This identifies those planks on which the industry is standing which can be adjusted to have a significant impact on the future of the industry. It asks: "Which are the most effective buttons to push?"

Unity - within industry, between industry and government open transparent decision making process.

(Government politics, legislation) gaining stability in fisheries management.

PR - public perception re wild fisheries

Fisheries management planning process

Uniform Australia wide approach to health, (harvesting, processing, handling and transport)

Co operation between State and Commonwealth governments on management and enforcement Transportation, including wide body freight aircraft

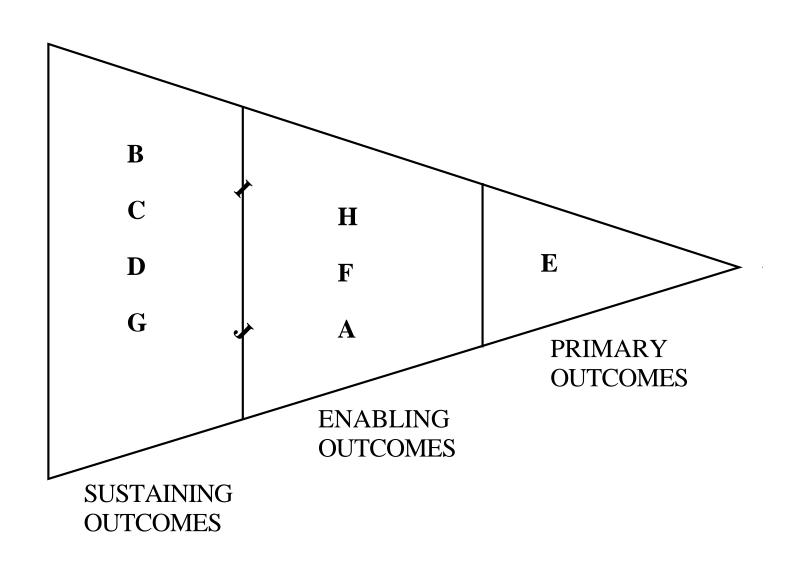
Money

# KEY INDUSTRY OUTCOMES DESIRED OVER THE NEXT 10 YEARS

| A  | В   | C   | D  | E   | F   | G   | Н   | I  | J  |
|--|---|---|--|---|---|---|---|--|--|
| Maximised<br>market<br>opportunities           | Research<br>Characterised by :<br>Timely, co-operative,<br>relevant, adequate | Cost Effective<br>Fisheries<br>Administration | Security of Access<br>to Sustainable<br>Resources  | Optimised<br>Returns<br>Consistent with<br>Sustainability       | Effective Partnerships between Industry & Govt which recognises other users | Responsible<br>Stewardship<br>Image and<br>Practice   | Unified,<br>Involved<br>Proactive<br>Industry | Highly Skilled,<br>Committed<br>Informed<br>Industry<br>Participants | Ecologically &<br>Economically<br>Sustainable<br>Fisheries |
| Stable, secure and expanding markets           | Ownership of<br>Research  | Good management practices                     | Security of industry investment  | Maximising of returns for/in effort/capital                     | Effective<br>partnership<br>between govt and<br>industry in<br>management   | Industry seen as a steward of the resource  | Being<br>proactive less<br>apathetic          | HR Develop<br>on-going   | Control of aquatic pests                                   |
| Aggressive<br>marketing -<br>retention and new | Focussed/relevant research  | Reduced overhead costs & administration       | Legislative<br>framework<br>providing for<br>security of access<br>to resource<br>(managing<br>sovereign risk) | Economical efficient industry                                   |   | Improve public profile - broader community appreciation of the fishing industry's commitment to ESD | Greater co-<br>operation by<br>all sectors    |  | Marine<br>environment<br>habitat<br>management             |
| Stream-lined access to markets                 | Industry driven<br>research and<br>development                                | Economic management of unified govt policy    | Security of access/stability   | Maximisation of production within constraints of sustainability |   | Tasmania as a<br>world leader in<br>fisheries   |   |  | Managing<br>species<br>sustainably                         |

| Develop high<br>quality, high priced<br>markets         | Fisheries development<br>under-utilised species<br>& stock enhancement | Secure Access<br>Rights |  | Capacity to measure & demonstrate world best practice |  | Predictable<br>harvest levels                       |
|---|--|-------------------------|--|---|--|---|
| Integration of catching and processing into the market  |  |                         | Sustain efficient<br>employment<br>levels                                      |   |  | Recognition of<br>social issues in<br>fisheries mgt |
| More co-operative<br>marketing and<br>generic promotion |  |                         | Fisheries<br>development -<br>under utilised<br>species & stock<br>enhancement |   |  |   |

# **RELATIONSHIPS BETWEEN KEY OUTCOMES**



The preceding graphic demonstrates that the industry sees that its main objective (its Primary Outcome) is to create an industry that, in ten years time, will have:

"optimised its returns, consistent with sustainability".

Achieving this objective is dependent upon the creation of a:

"unified, involved and proactive industry",

which is built on

"effective partnerships between industry and government, which recognises other users",

and which

"maximises market opportunities".

The structure and momentum of the industry in that form will be sustained by:

"highly skilled, committed and informed industry participants",

"ecologically and economically sustainable fisheries",

"research, characterised by being timely, co-operative, relevant and adequate",

"cost effective fisheries administration",

"security of access to sustainable resources"

"responsible stewardship in both image and practice"

# Appendix 5

Tasmanian Fisheries and Aquaculture Five Year Strategic Research Plan 1999-2004