

Overview

- New Zealand; background
- New Zealand fisheries: key features
- Quota Management System
- Catch balancing system
- Commercial stakeholder organisations
- Future directions
- Lesson learned
- Resources





New Zealand: Background

- Small, developed, multi-cultural country in the south west Pacific.
- Population of 4.2 million (66% European descent /15% Maori)
- "Westminster" (British) form of parliamentary democracy
- Independent judiciary based on British legal system/common law
- Strong public and private institutions
- Open market economy:
 - o GDP: \$US70 billion
 - o Per capita income: \$US25,000
- Maori have a long history of fishing but commercial industry relatively recent



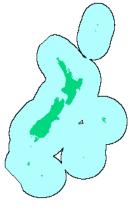


Perspective!

- EEZ & Territorial Sea
 - o 4.4 million sq km (world's 5th largest)
 - o 15 times land mass
 - o 72% below 1000 m



3,781,000 sq km



4,363,000 sq km

Coast line:

- o 15,000 kilometres
- Many outlying islands
- Climate: sub-tropical to sub-Antarctic
- Diverse range of eco-systems
 - o 16,000+ marine species
 - o 1,300 fish species
 - Fishery productivity: medium

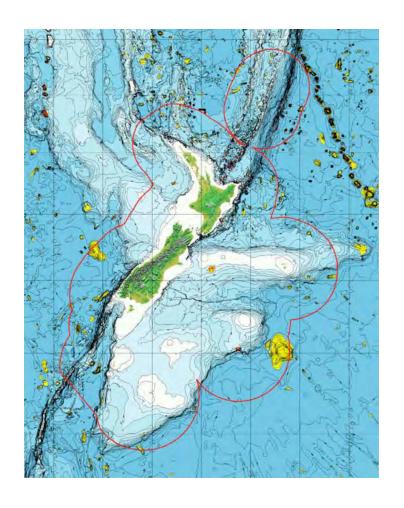


7,956,000 sq km



New Zealand Fisheries; Key features

- Species commercially fished: 130
- Current status information available on 65% of stocks
- 85% of these at or near target size
- Recreational fisheries:
 - Estimated participation: 31% of population
 - Estimated annual take: 25,000 tonnes
 - Managed by effort controls
- Maori involvement in fishing:
 - Non-commercial customary fisheries management devolved to hapu
 - Customary take provided for: 4,800 t
 - lwi own approx 30% of commercial quota





Commercial Fisheries

- Total Catches: 441,000 tonnes
- Total quota value: \$3.97 billion
- Fish Exports:
 - o Approx 90% of total production
 - o 2007 Value: NZ\$ 1.3 billion
- Hoki has MSC environmental certification; others fisheries being assessed
- 1,316 fishing vessels
- 1,592 quota owners
- 229 fish processors & traders
- 7,155 directly employed:
- Aquaculture species: mussels; oysters; salmon
- Direct subsidies: Nil





Fisheries issues (early 1980s)

Inshore

- Over-fished / depleted stocks
- Commercial fisheries:
 - o over-capitalised
 - unprofitable / uncompetitive / subsidised
- Declining Recreational fisheries

Deepwater

- New 200 NM EEZ
- "New Zealandisation"; reduce foreign licence fishing;
- Risk of over-capitalisation





Development of Quota Management System

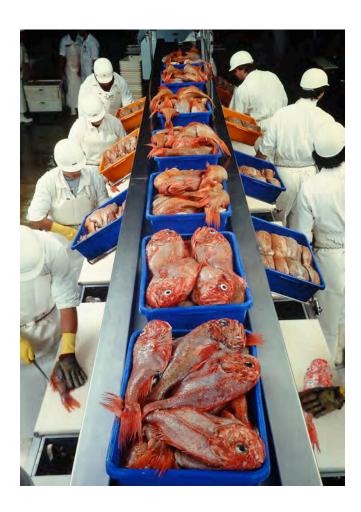
- 1982 Part time fishers excluded
- 1983 Deepwater transferable enterprise allocations
- 1986 QMS Implemented
- Initially 26 species; 156 stocks
- Initial Govt buy-back of inshore catching rights (15,800 tonnes; NZ \$42.5M)





Key Developments since 1986

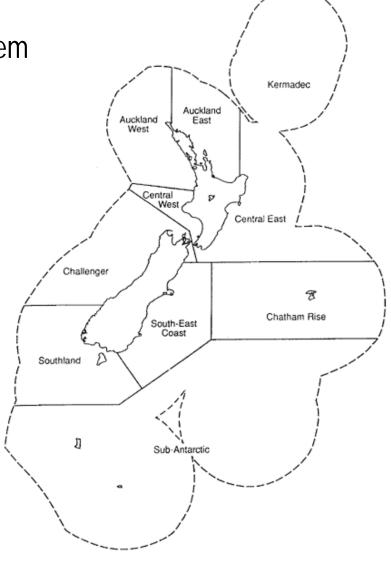
- 1990 ITQs changed: kgs to shares
- 1992 Settlement of Maori fisheries claims
- 1994 Cost recovery implemented
- 1996 Stronger environmental protection provisions
- 1999 Fisheries Amendment Act
 - Provision for devolution of fisheries services
 - Long-term and within-year rights separated; Annual Catch Entitlement (ACE)
 - New mechanism for managing fish bycatch in multi-species fisheries
- 2001-05 Major increase in # species in OMS
- 2009 97 species; 632 stocks in QMS





Key features: Quota Management System

- Quota Management Areas for species based on combination of Fishery Management Areas
- ITQs in perpetuity
- ITQ allocation based on catch history (with comprehensive appeal provisions)
- Appeal provisions later reduced
- Quota consolidation limits: 10 35%
- 2009: Nearly all major commercial fisheries in QMS



New Zealand Government



How it works

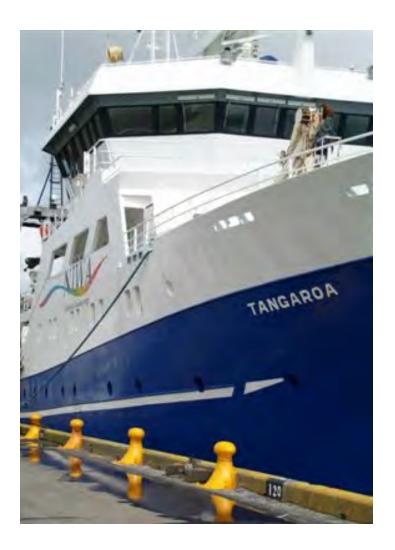
- TAC set for each species in each QMA (i.e. 632 TACs) based on maintaining stocks at B_{MSY}
- A Total Allowable Commercial Catch (TACC) set after allowing for recreational and non-commercial customary fishers, and other sources of fisheries related mortality
- ITQ allocated as a share of the TACC (100 million shares in each fish stock)
- Industry-owned company operates quota registry (<u>www.fisherve.co.nz</u>)
- ITQ generates annual catch entitlement (ACE) (in kgs)
- Open ITQ and ACE markets
 - Government guarantee
 - Confidence of bankers
- ITQ owners pay government management costs (approx NZ\$30M per year)





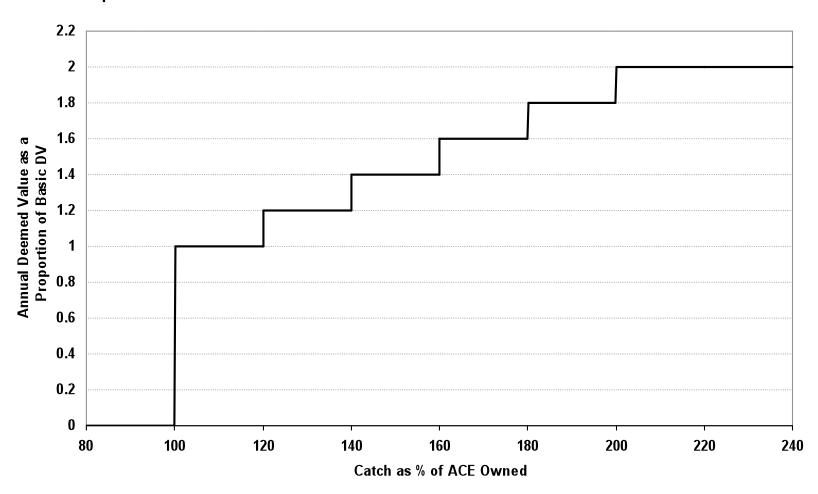
How it works (2)

- Commercial fishers must have fishing permit and registered fishing vessel
- Commercial fishers must record & report catch & land fish to licensed fish receiver (documentary produce flow control system)
- Catch must be covered by ACE or pay a deemed value
- Fishers pay refundable deemed value to government for over-catch; provides incentive to cover catch with ACE
- Failure to record/report catch or pay deemed value is major offence with draconian penalties
- Input controls to deal with environmental and allocation externalities





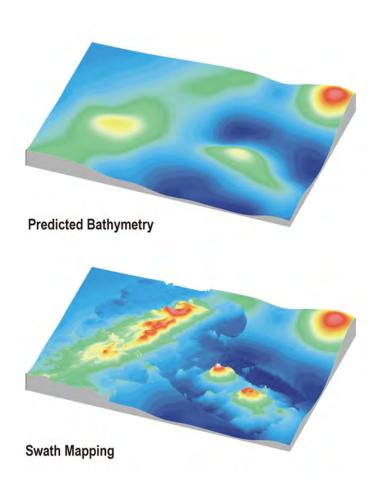
Example of Deemed Values





Catch Shares Encourage Cooperation

- Common long-term interest
- Development of Commercial Stakeholder Organisations (CSOs)
- CSOs undertake variety of activities:
 - Represent quota owners
 - o Contract scientists, Research surveys
 - Fisheries management
 - Manage voluntary agreements e.g.: Environmental codes of practice; Area management of TACCs
 - Developing mitigation measures
 - Establishing benthic protection areas over 30% of EEZ
 - Applying for environmental certification
- Some companies now catching ACE on behalf of others
- Improved cooperation between CSOs and Government





Future Directions

- Changing roles of government and rights holders
 - o Government governance
 - o Rights holders management
- Collective management arrangements
 - Enabling rights holders to manage and be held accountable
- Increasing environmental standards / performance
 - o changing societal values
 - market requirements
- Enhanced transparency and accountability
- Market driven catch documentation and independent monitoring systems





Lessons learned

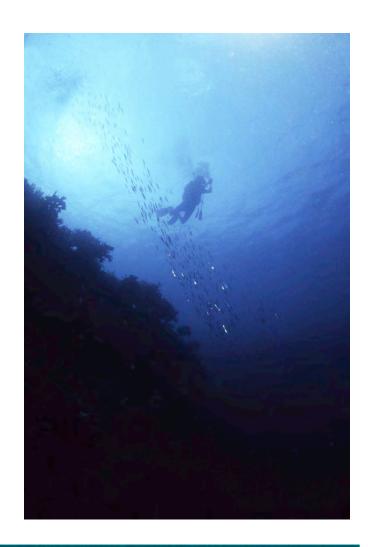
- Successful implementation of catch shares needs:
 - Sufficient support from fishers
 - Continued investment in fisheries governance and management
 - Strict enforcement of the rules (system integrity)
 - Flexibility to adapt to changing environmental, social and economic conditions
 - Enough time and money for development and transition
 - Strong political will
- A holistic approach is important (review registry, compliance, penalty, observer, data collection, & science systems)
- Allocation of shares will not please everyone!





And if we could do it all again:

- We probably would not have excluded part-time fishers in 1982
- We would have addressed Maori fisheries issues sooner
- We would have moved directly to proportional shares rather than quota in kgs.
- We would have narrowed the appeal process earlier
- We would have considered how to retain stronger links between quota ownership and fishers
- We would have considered moving more quickly to allocation of shares in a collective management group rather than rights to fish





Resources

- www.fish.govt.nz and http://fs.fish.govt.nz
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