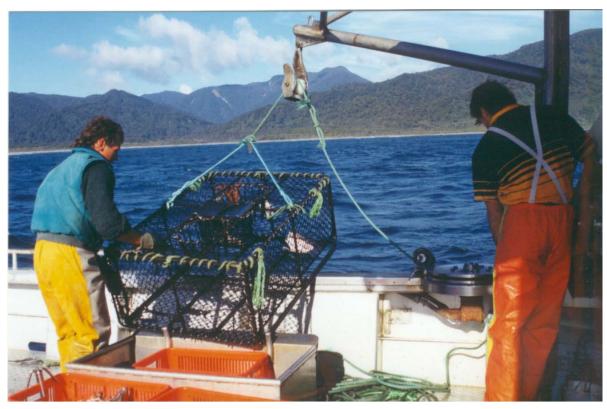
Lessons Learned about Property Rights and Institutional Design from the New Zealand Rock Lobster Experience



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The Plan ...

- ▲ Fishery Description
- Historical Overview
- ▲ Current Management
- ▲ Tools for thinking about the case
- ▲Lessons Learned
- Concluding Thoughts

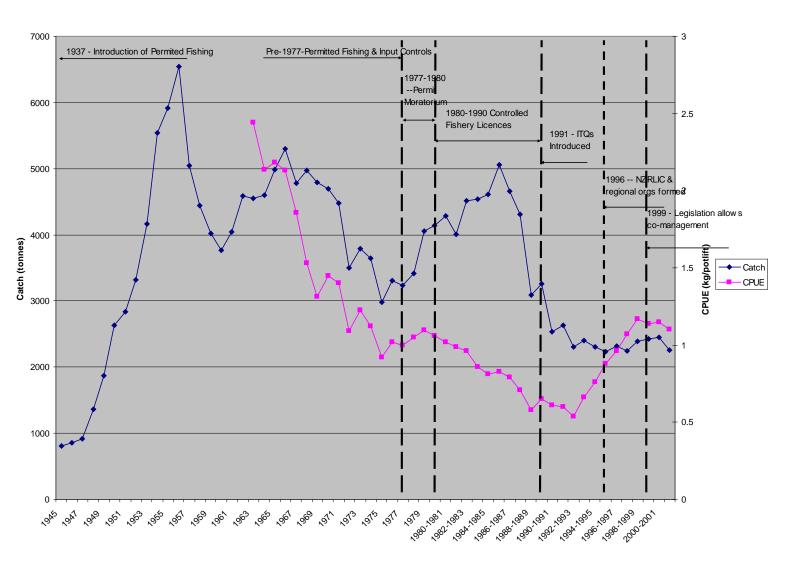


Fishery Description

- Small vessels (potting) fishing into large processing & export companies
- ▲ 2nd largest seafood export (NZ\$180m in 2007, TAC = 2981 metric tons
- ITQ management supplemented with comanagement
- Most regional stocks stable or increasing biomass



History: Catch & CPUE





History: Rock Lobster Regulatory Summary

Regulatory Dullinary				
Event	Description	S.		
1980 –1990: Controlled Fishery	Licences and vessel authorities required to fish	ି		
1986: Fisheries Amendment Act	ITQs introduced in most fisheries (not Rock Lobster)	6		
1990: Rock Lobster Enters QMS	Rock lobster enters QMS	- PR		
	Government stops entering market to			
1990: Switch from Tonnage to	change TACC.	B		
Proportional Allocation		6		
1992: Treaty of Waitangi Settlement	Maori granted 10% of allocated quota; plus half of Sealord Products; plus 20% of all future stocks brought into QMS.			
1994: Switch from resource rentals to cost recovery	Quota owners pay for part of the cost of management rather than a "rental fee" for fishing in .	<i>\$11)</i>		
1996: Fisheries Amendment Act	More explicitly defined ITQs, encouraged loans on ITQs	and and a		
1999: Fisheries Amendment Act	Legislation allows MFish to delegate			
	some management powers to CSOs.	- 'A ??		

Current Management

 ITQs (defined as a proportion of TAC)
Significant ITQ leasing
Supplemental gear and size limits
Industry participation in fishery management



Challenges to Current Management

- ▲Leasing Quota
 - ▲ Short-term
 - ▲ Long-term
- ▲ Sectoral Conflict
- ▲ Spatial Conflict



Thinking about Property Rights: Ostrom & Schlager's (1996) Property Rights Bundle

	Owner	Proprietor	Claimant	Auth. User	Auth. Entrant
Access	X	X	X	X	X
Withdrawal	X	X	X	X	
Management	X	X	X		
Exclusion	X	X			
Alienation	X				

Thinking about Property Rights: Property Rights Dimension

- ▲ Temporal
- ▲ Spatial
- ▲ Quantitative

These can be used in combination with property rights bundle to systematically analyze property rights distribution.



Lessons Learned:

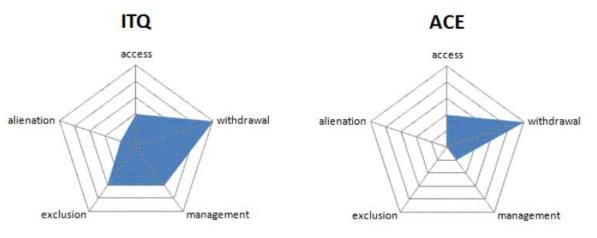
Why did rock lobster management evolve?

- ▲ Political Context
- ▲ Social Capital
- ▲ Growth of property rights

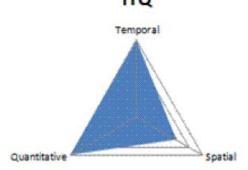
Event	Description	Rights held by Fishers	
1980 –1990: Controlled Fishery	Licences required to fish	Access, Withdrawal (poorly defined)	
1986: Fisheries Amdt Act	ITQs introduced in fiinfisheries (not RL)	Access, Withdrawal (poorly defined) - RL fishers observe effects of ITQs in finfisheries	
1990: ITQs in Rock Lobster	Rock lobster enters ITQ management	Access, Withdrawal, Limited Exclusion	
1990: ITQs defined Proportionally	Government stops entering ITQ market to change TACC.	Access, Withdrawal, Limited Exclusion - Fishers demand mgt rights after bearing costs.	
1992: Treaty of Waitangi Settlement	Maori granted portion of ITQs.	Access, Withdrawal, Limited Exclusion Confidence in ITQs grows - Fishers continue to demand mgt rights	
1994: Introduction of cost recovery			
1996: Fisheries Amdt. Act	More explicitly defined ITQs, easeir loans on ITQs	Access, Withdrawal, Limited Exclusion, de facto Limited Management	
1999: Fisheries Amdt. Act	Allows MFish to delegate some mgt powers to CSOs.	Access, Withdrawal, Limited Management, Limited Exclusion	

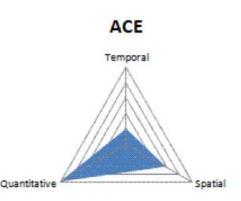
Lessons Learned: Why is there conflict between owners & leasers?

Property Rights Bundle



Property Rights Dimensions

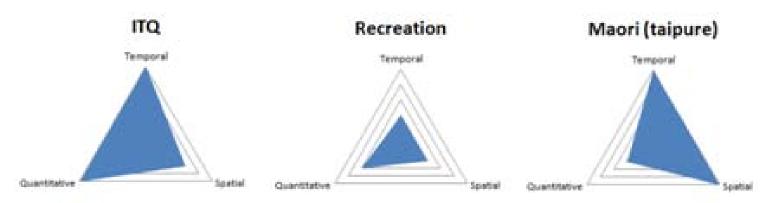




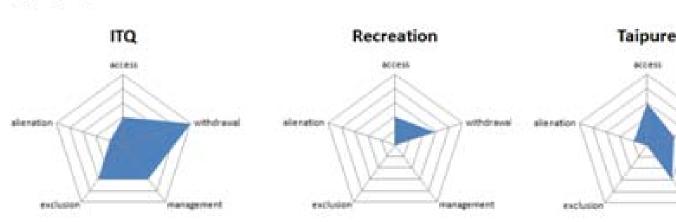


Lessons Learned: What role do property rights play in sectoral conflict?

Property Rights Dimensions



Property Rights Bundle



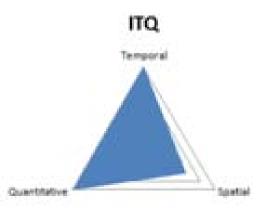
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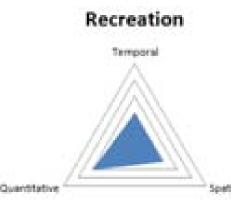
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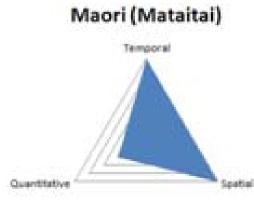
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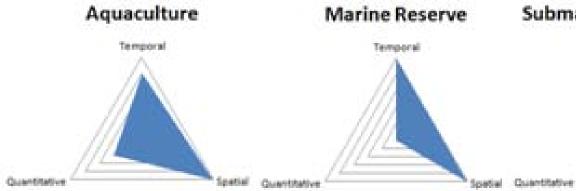
management.

Lessons Learned: What role do property rights play in spatial conflict?















Closing Thoughts

- ITQs (or catch shares) are a complex, dynamic set of property right
- ▲ ITQs fundamentally change the fishery
- ▲ Careful thought is needed on issues such as:
 - ▲ How are property rights presently distributed within and outside fishery?
 - ▲ How will distribution change this?
 - ▲ How will creating or changing property rights in other sectors influence fishery?
- ▲ By carefully addressing these issues up front there is a greater chance that institution will be designed to best meet all fishery needs.



Questions?



