







Missed Opportunity for a Golden Handshake? Why Did So Many Fishers Stay After the Introduction of ITQs?







Katell Hamon, Stewart Frusher, Rich Little, Olivier Thebaud









Outline

- The Tasmanian rock lobster fishery
- Modelling the fleet
- Modelled vs real response
- Why the difference?
- Conclusion

The Tasmanian rock lobster fishery

Coastal fishery targeting single species Jasus edwardsii

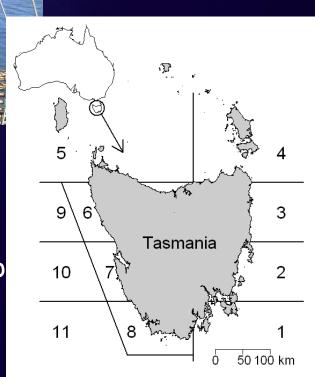
215 vessels fishing with baited traps

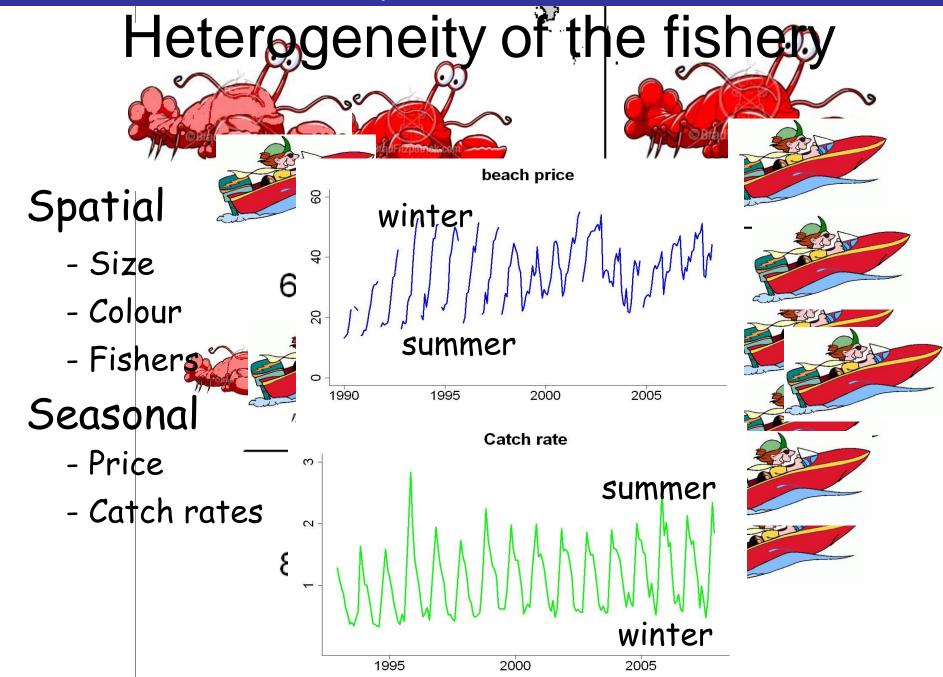
AUD \$60 million return per year

75% landings exported

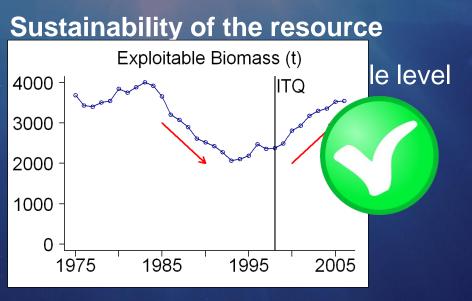
ITQs introduced in 1998

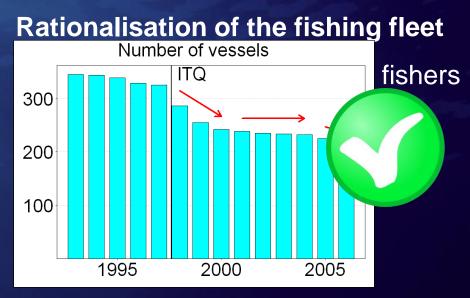
- > Cap on quota ownership (<2%)
- > Restrictive TAC
- > Initial allocation based on trap ownership

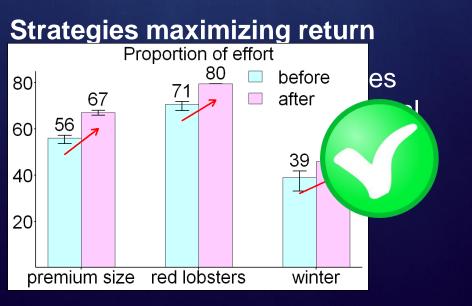


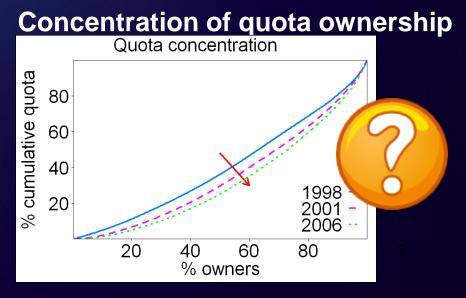


Expected vs Observed impacts of ITQ

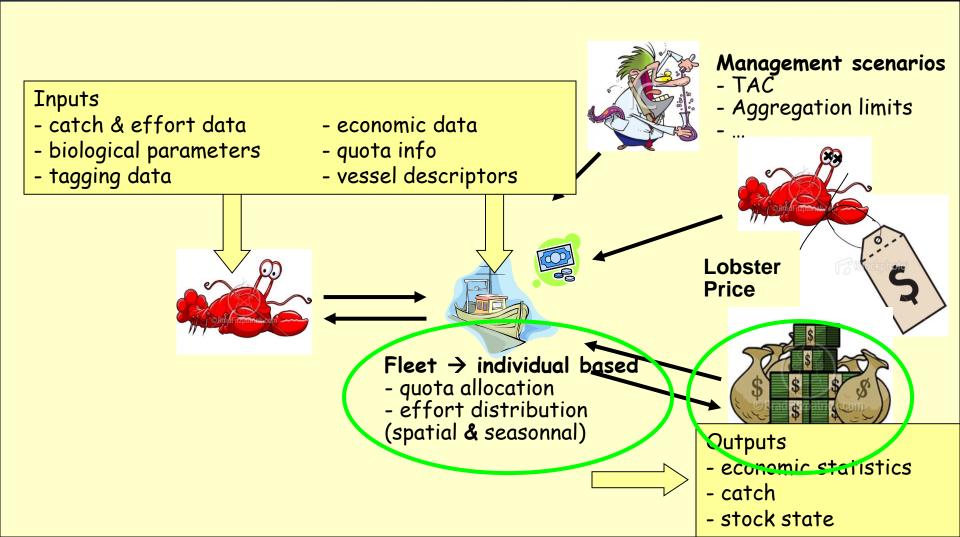


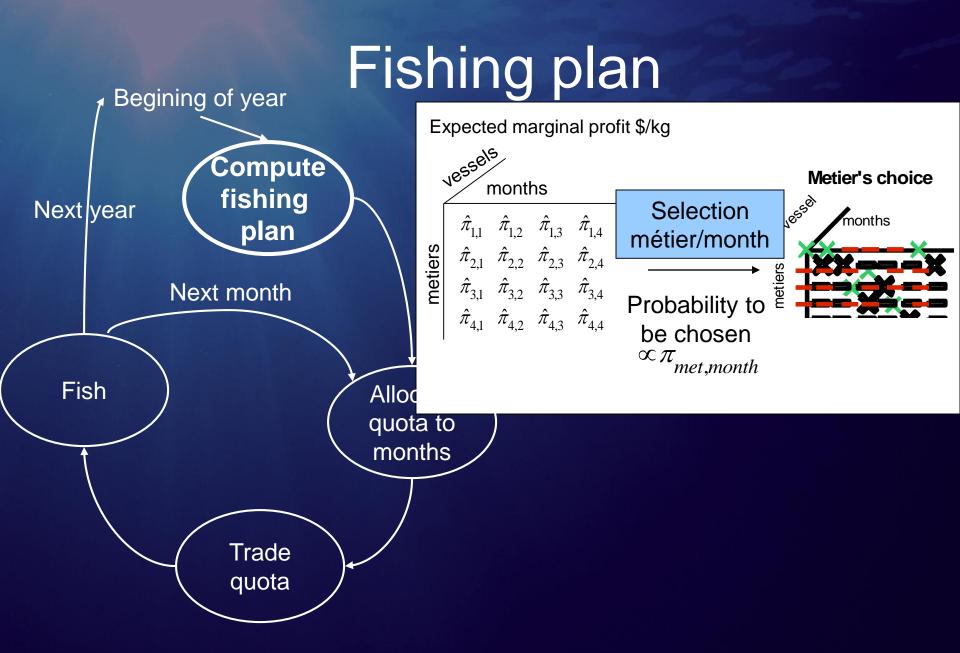




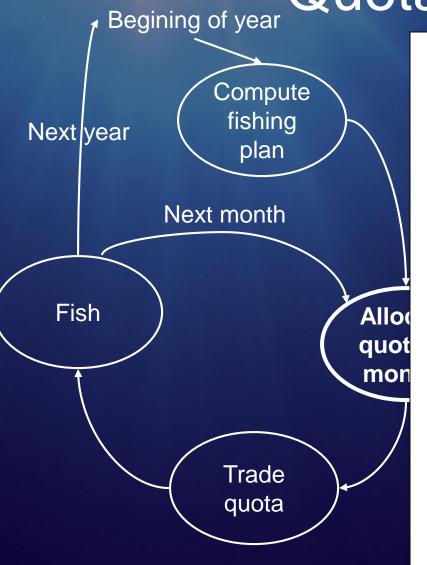


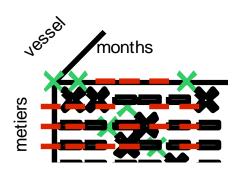
Modelling the fleet

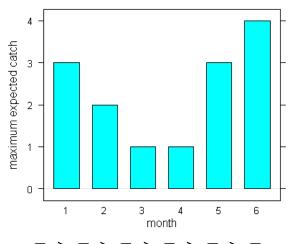




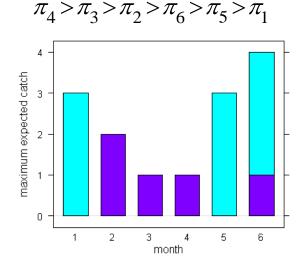
Quota allocation

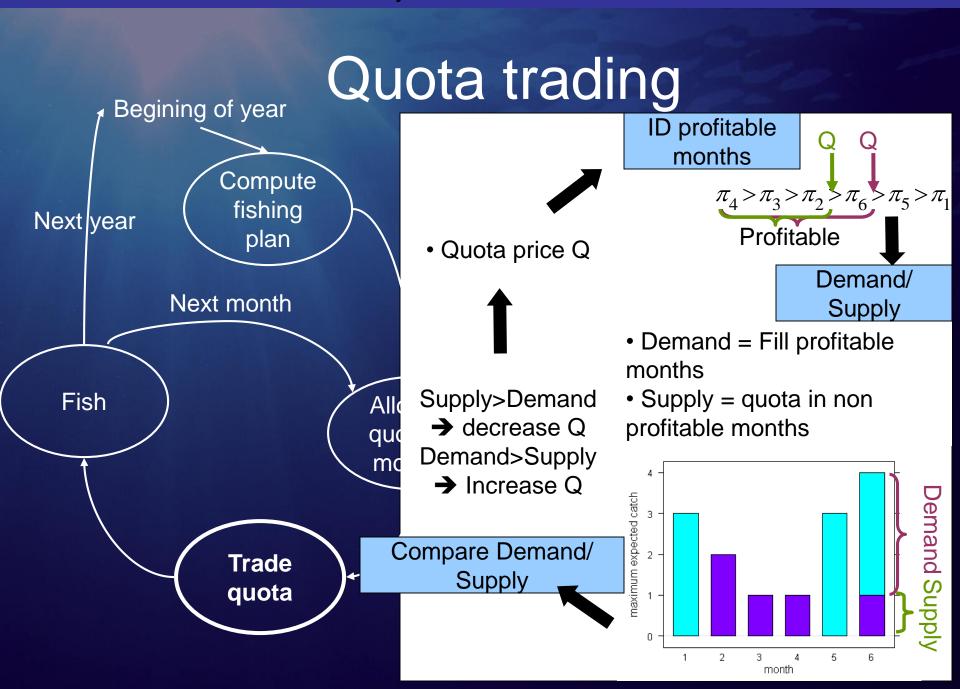


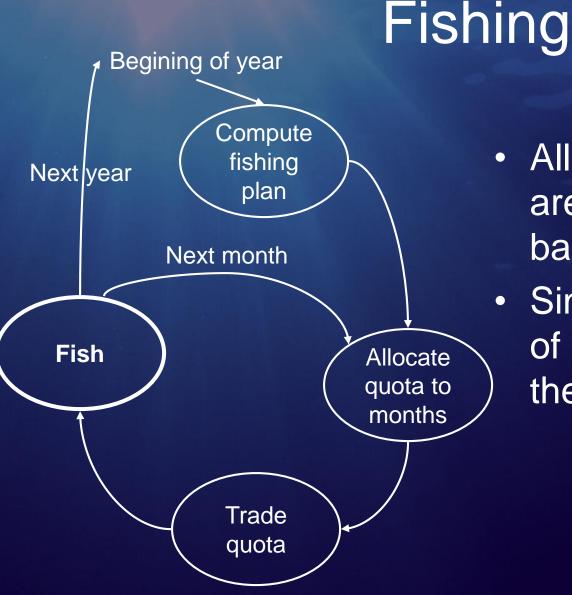




Total max catch:14 Quota owned: 5

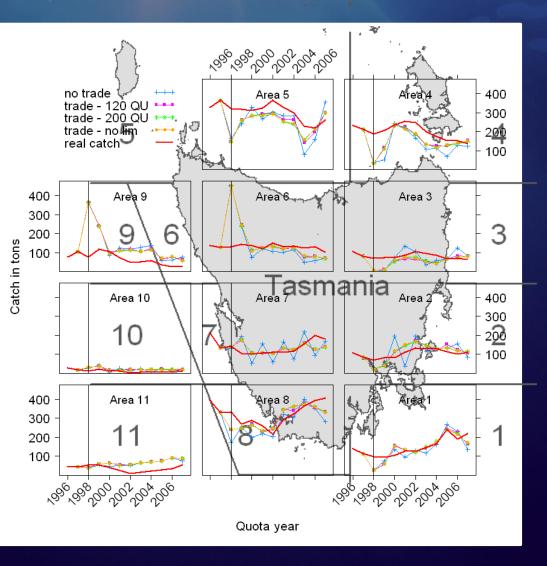






- Allocate effort to areas for the month based on métier
- Simultaneous catch of quota allocated to the month

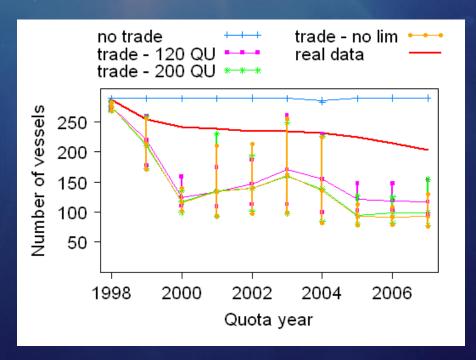
Modelled vs real response



Spatial distribution of catch:

- predictions close to reality
- anomalies in the western areas

Modelled vs real response



- Spatial distribution of catch:
 - predictions close to reality
 - anomalies in the western areas
- Vessel exit
 - Stronger decrease predicted than observed

Why the difference?

- Interviews with members of the industry
- Overestimation of fishing opportunities in some regions with high catch rates
 - Bad weather
- Market is less dynamic in reality
 - temporary transfers only → very flexible
 - only profit driven → higher demand
 - Perfect knowledge vs 1st hand information

Summary and Conclusion

- Fishery reacted as predicted in trend but not in intensity
- More inertia in the system than profit maximisation
- Non-economic factors influence decisions
 - Personal factors
 - Weather constraints
- Target "optimal" rather than "maximum" profit

