Implications of reallocation: Examples from New Zealand

Nici Gibbs & Kevin Stokes
Focus of paper

- What is the role of inter-sector allocation in achieving management outcomes as fisheries change through time?
- How do allocation decisions affect incentives, science, management considerations etc?
- Two case studies –

SNA 8

CRA 3
Legislation: Fisheries Act 1996

- TAC = primary sustainability tool

- TAC is shared:
  - TACC
  - Recreational allowance
  - Customary allowance
  - Allowance for “other mortality”

- No statutory guidance on allocating the TAC
Allocation decisions

Proportional or reallocative?

- Proportional allocation:
  - “shared pain, shared gain”
  - favoured by commercial sector
  - opposed by some recreational groups
  - Maori views are mixed
  - Ministry of Fisheries “default approach”
### SNA 8 Case Study

<table>
<thead>
<tr>
<th></th>
<th>Before</th>
<th>After</th>
<th>Actual Catch</th>
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</thead>
<tbody>
<tr>
<td>TAC</td>
<td>2060 t</td>
<td>1785 t</td>
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<tr>
<td>TACC</td>
<td>1500</td>
<td>1300</td>
<td>✈️ ✈️</td>
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<tr>
<td>Rec.</td>
<td>360</td>
<td>312</td>
<td>✅</td>
</tr>
<tr>
<td>Cust.</td>
<td>50</td>
<td>43</td>
<td>✅</td>
</tr>
<tr>
<td>Other</td>
<td>150</td>
<td>130</td>
<td>✅</td>
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### CRA 3 case study

<table>
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<tr>
<th></th>
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<th>Actual catch</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>TAC</td>
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<td>319 t</td>
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<tr>
<td>Rec.</td>
<td>20</td>
<td>4.5%</td>
<td>20</td>
<td>6%</td>
<td>?</td>
</tr>
<tr>
<td>Cust.</td>
<td>20</td>
<td>4.5%</td>
<td>20</td>
<td>6%</td>
<td>?</td>
</tr>
<tr>
<td>Other</td>
<td>86</td>
<td>19%</td>
<td>89</td>
<td>28%</td>
<td>?</td>
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</tbody>
</table>
Implications for fisheries management (1)

- Allocation decisions affect uncertainty in stock assessments, forecasts & management advice
- Uncertainty in allocation leads to loss of value for all sectors:
  - Negative incentives for commercial investment
  - Direct and indirect effects on industry confidence
  - Recreational frustration
  - Tension between sectors
- “Spillover” – unresolved allocation problems affect cooperative fisheries management
Implications for fisheries management (2)

- For allocation decisions to contribute positively to fisheries management outcomes:
  - Clear allocation policy  
    (increase certainty, reduce tension)
  - Reliable catch information
  - Commitment & tools to manage catches within shares
  - Integrated consideration of sharing TAC, spatial access & stock management targets