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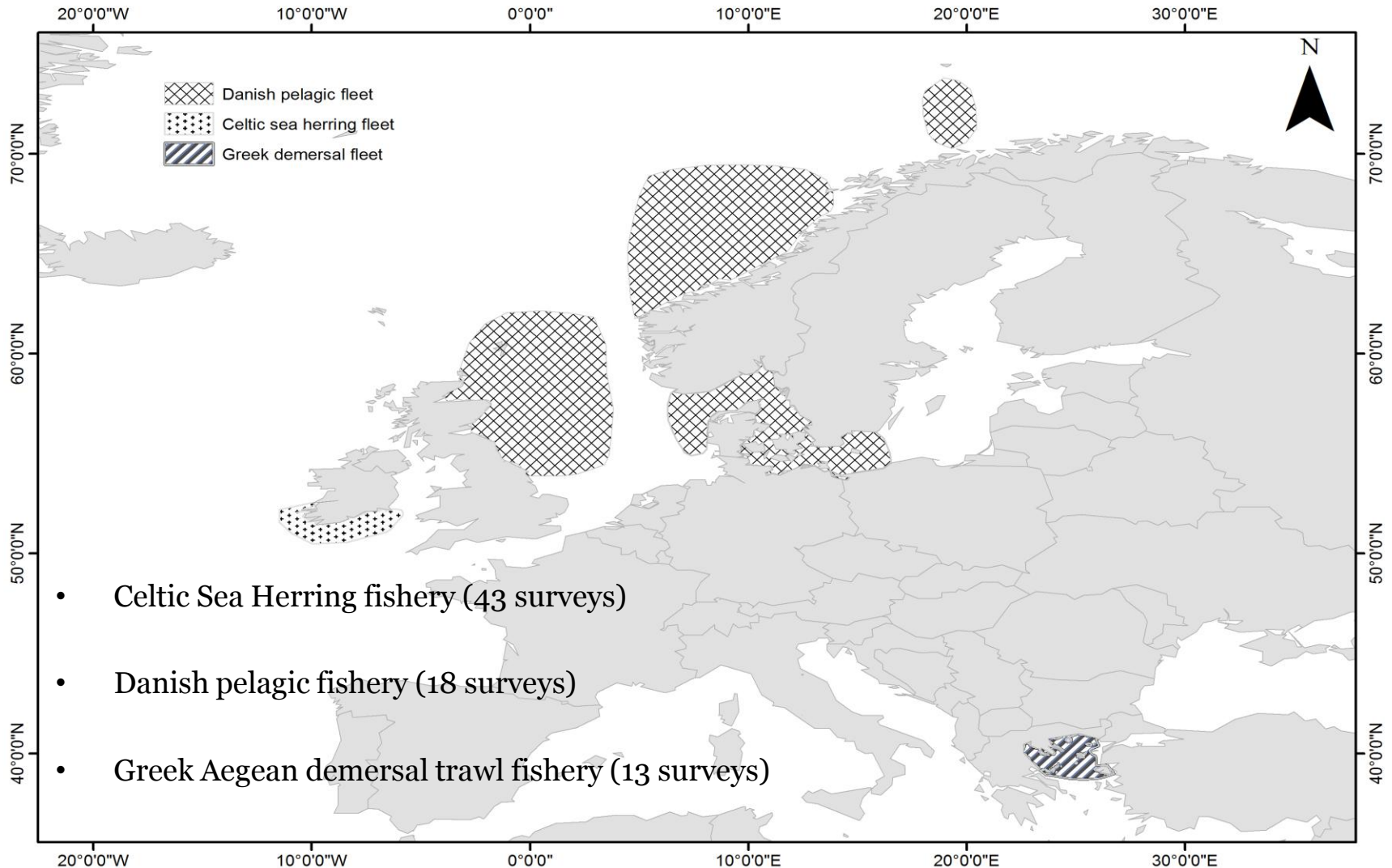
SEMURU
Socio-Economic Marine Research Unit

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Avoiding unintended consequences of fisheries governance: Fisher's preferences and trade-offs between management options

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Choice Experiments

- Define management options in terms of their characteristics
- Get people to make choices between alternative “bundles” of these characteristics and a price tag
- Observe how respondents make trade-offs in selecting attributes at varying levels
- Reveals value (WTP) people place on policies that change these characteristics
- Increasing use in environmental field
- Very little application in fisheries

Attributes and levels

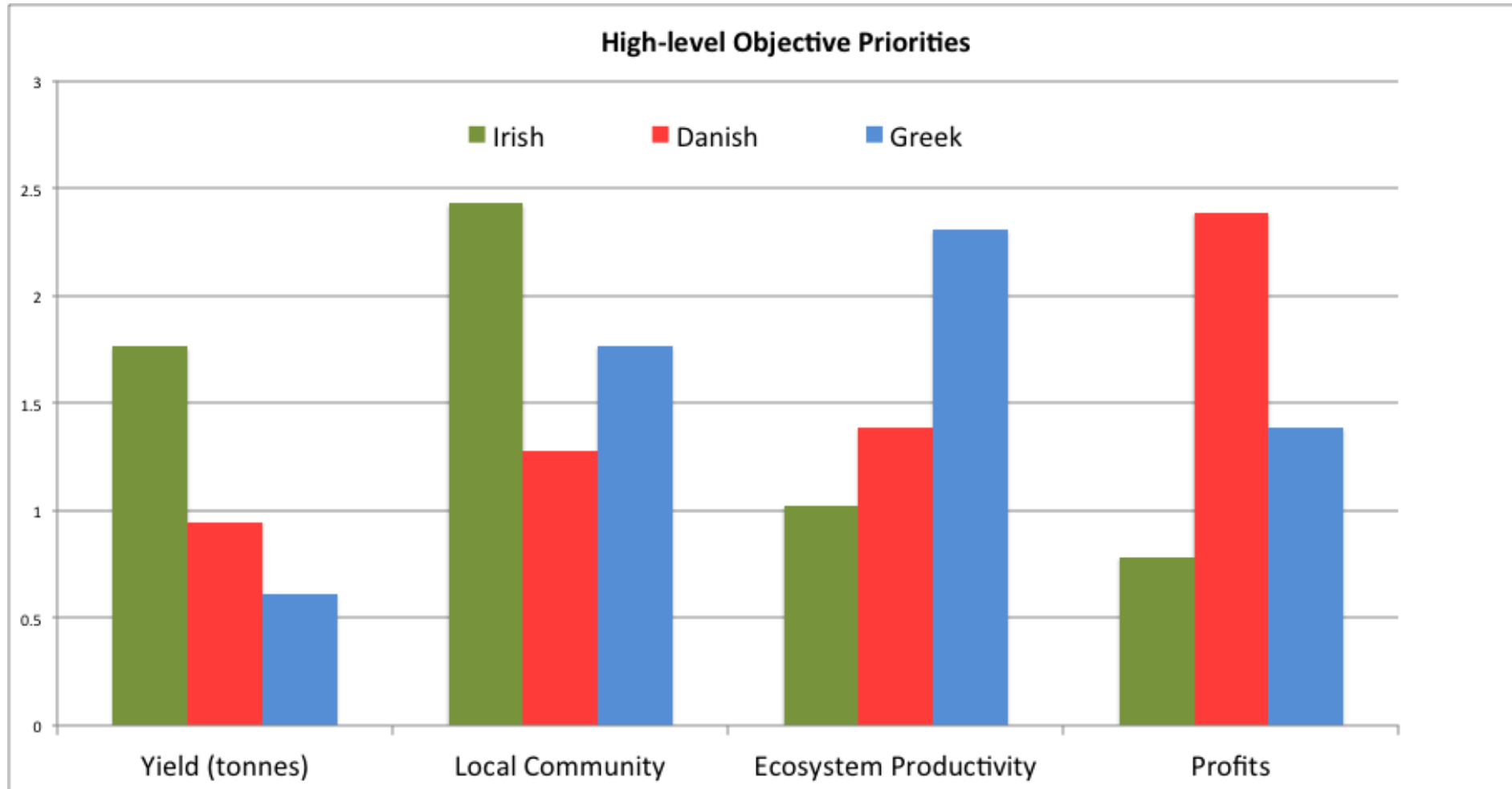
Attributes	Levels						
Long-term biological sustainability of the fishery	Medium to Poor			Good			
Management Scale	Central European Management	Regional Sea Management		National Management		Co-Management	
Fishing Community viability	Importance of fishing industry to local community maintained at current level		Decline in importance of fishing industry to local community (-20%)		Increase in importance of fishing industry to local community (+20%)		
Management measures (assumption that these are in addition to status quo mgmt measures)	Permanent area closures	Temporary area closures		Catch quota system		Effort control	
Access & quota allocation regime	Open to all current licensees and eligible new entrants		Limited access at vessel level based on track record in fishery		Nationally Tradable Transferable Fishing Concessions/TURFs		Internationally Tradable Transferable Fishing Concessions/TURFs
Increase in subscription to representative or management organisation	0	+10%	+20%	+35%	+50%	+75%	+100%

Example Choice Card

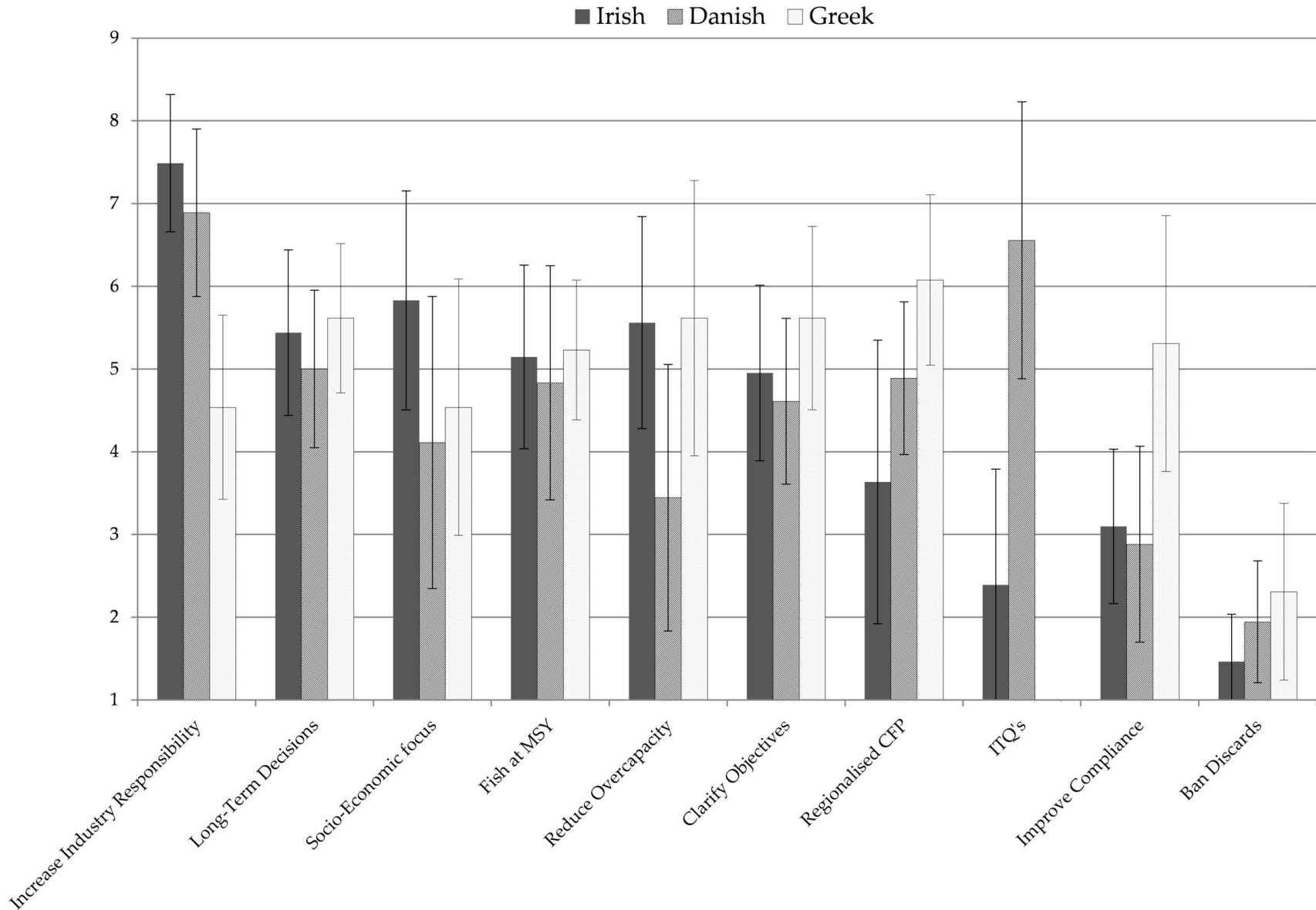
	Option A	Option B	Option C
Long-term biological outlook of the fishery	Moderate to poor	Good	Moderate to poor
Management Scale	Central European Management	Regional Sea Management	National Management
Fishing Community viability	Increase in importance of fishing industry to local community (+20%)	Decline in importance of fishing industry to local community (-20%)	Importance of fishing industry to local community maintained at current level
Management measures	Temporary area closures	Catch Quota system	Permanent area closures
Access & quota allocation regime	Limited access at vessel level based on track record in fishery	Nationally Tradable Transferable Fishing Concessions	Open access
Increase in subscription to representative or management organisation	+ 100%	+ 20%	0
Choice (TICK ONE OPTION)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RPL model results	Celtic Sea Herring	Greek Demersal	Danish Pelagic
Good biological outlook	++	S.D. significant	+
National Management	-		++
Regional Management	-		++
Central EU Management	-		-
Community importance of fishing maintained at current level	+	+	
20% increase in importance of fishing to local community	++		S.D. significant
Catch Quota system/Discard Ban	-	--	++
Temporary Area Closures			++
Permanent Area Closures		--	
Limited Access based on track record	+		
Nationally tradable quotas	-		++
Internationally tradable quotas	--	S.D. significant	++
Cost of management regime	-		

High level objective priorities



Management measure priorities



Main Findings

- Strong preference and value distinctions across and within pelagic, polyvalent and demersal fisheries.
- No measure with unanimous support or rejection – no “magic bullets”.
- Community importance of fishing emphasised across all three fisheries
 - further attention needed in assessing social impacts of management
 - what aspects of community wellbeing are respondents actually considering
- Significant negativity towards landings obligation but also willingness to trade-off in pelagic fisheries.
- Owners of larger vessels
 - significantly lower priority for community based measures
 - significantly greater preference for individual quota systems
 - influence of power asymmetries on policy making?
- These findings highlight the need for a more nuanced approach to fisheries management.

Thank you for your attention

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