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***Ecosystem based fisheries management  
in Western Australia***

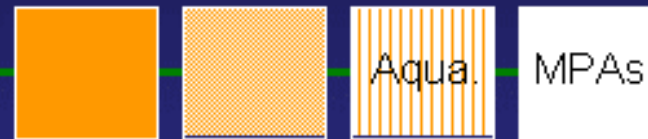
# Departmental and Government responsibilities

## National ESD Frameworks

1. Single fishery ESD



2. Multi-fishery  
Ecosystem Based  
Fisheries  
Management  
(EBFM)



Cumulative  
impacts, cross-  
fishery  
allocations,  
environment,  
social and  
economic  
implications

3. Ecosystem  
Based  
Management  
(EBM) – All  
sectors

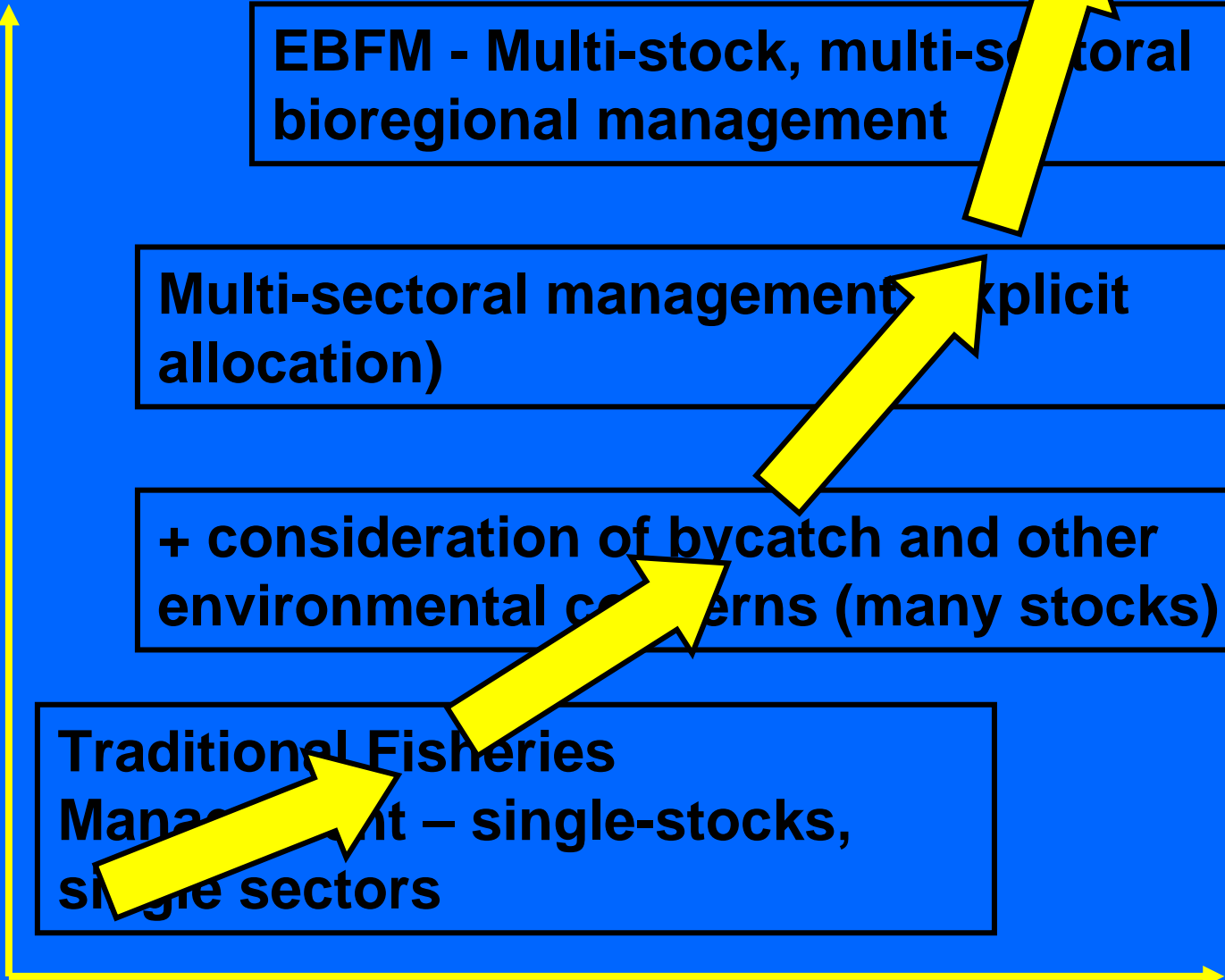


(External drivers)



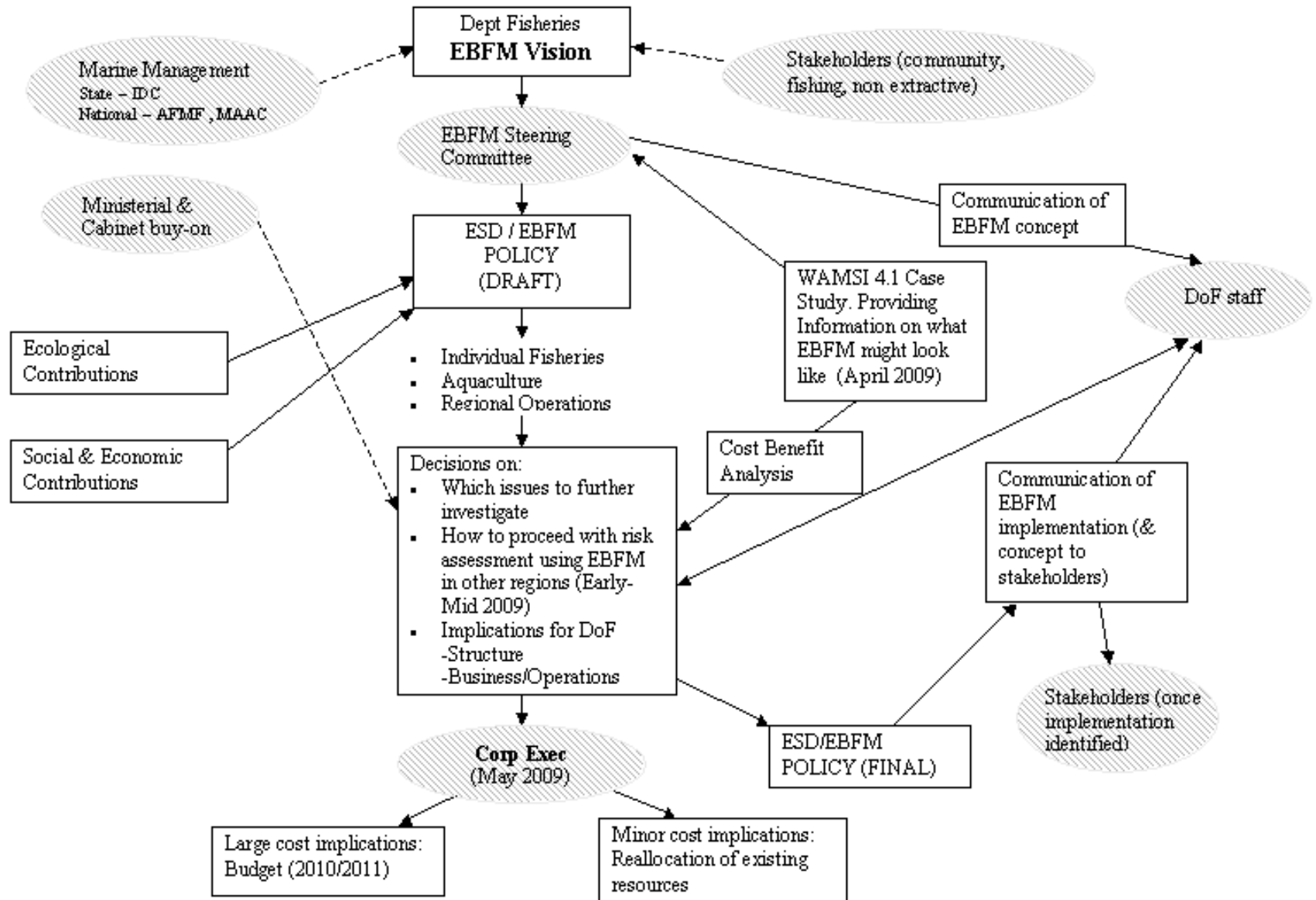


**Responsibility / Complexity**

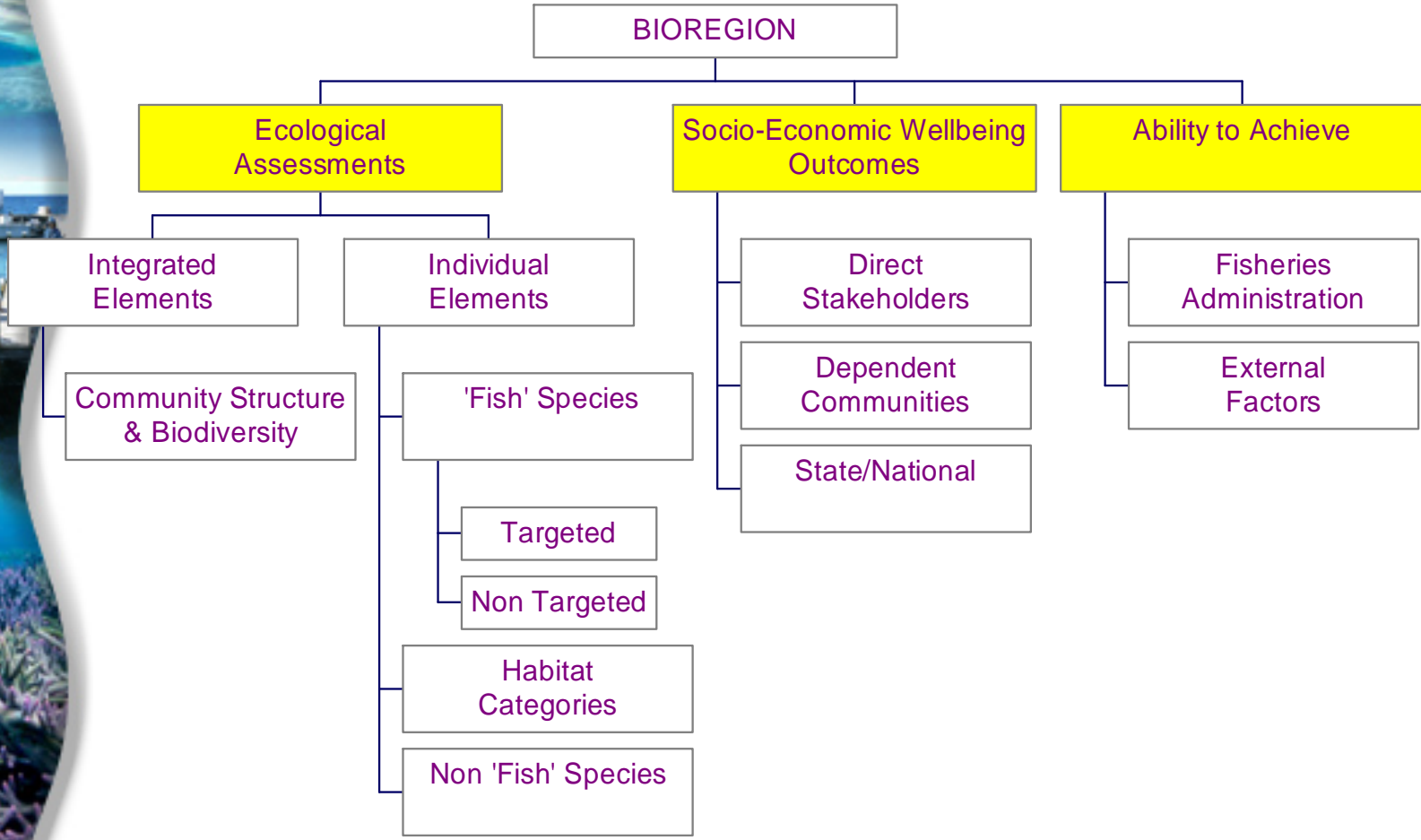


**TIME**

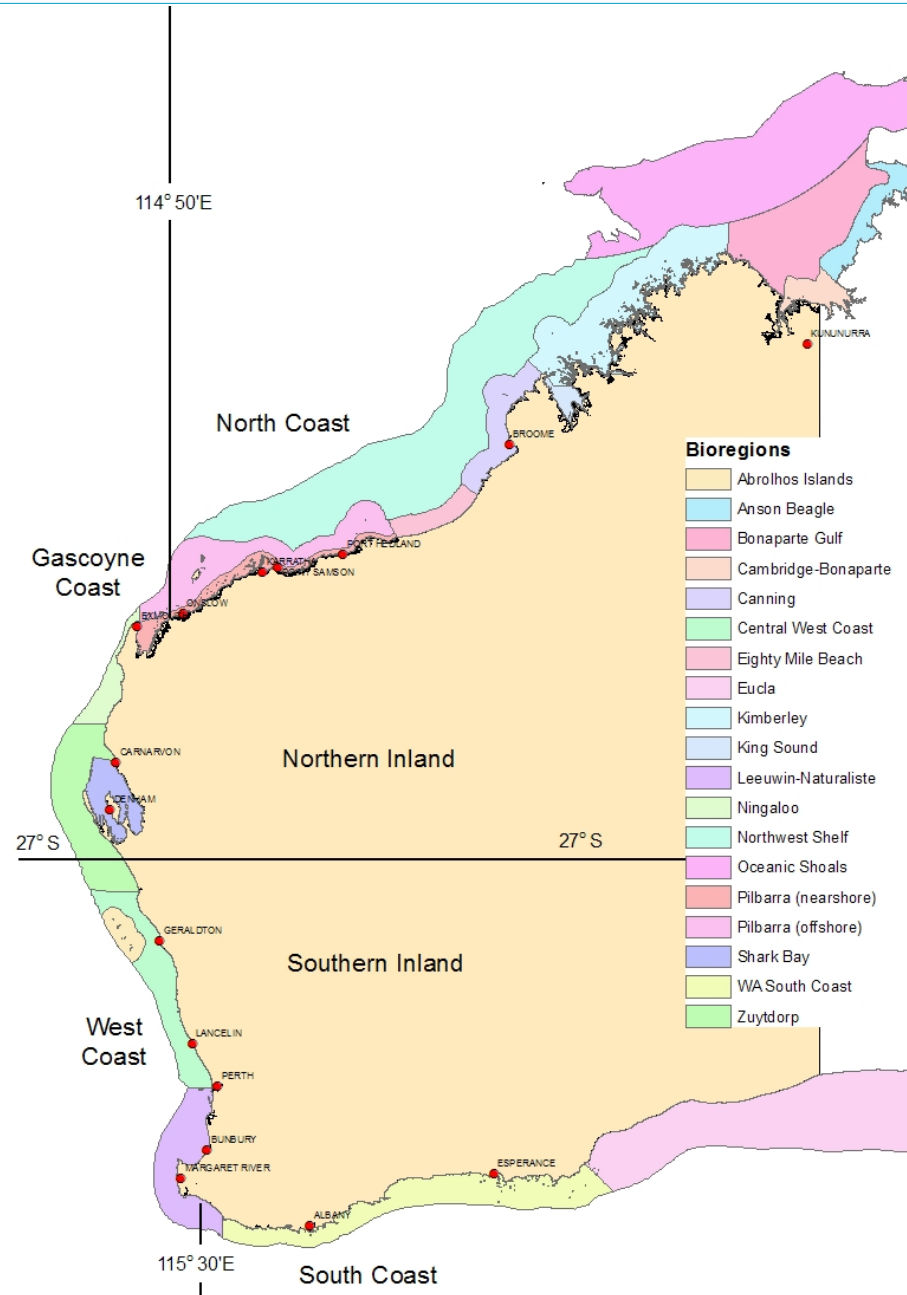
# Implications for Management: Departmental Planning



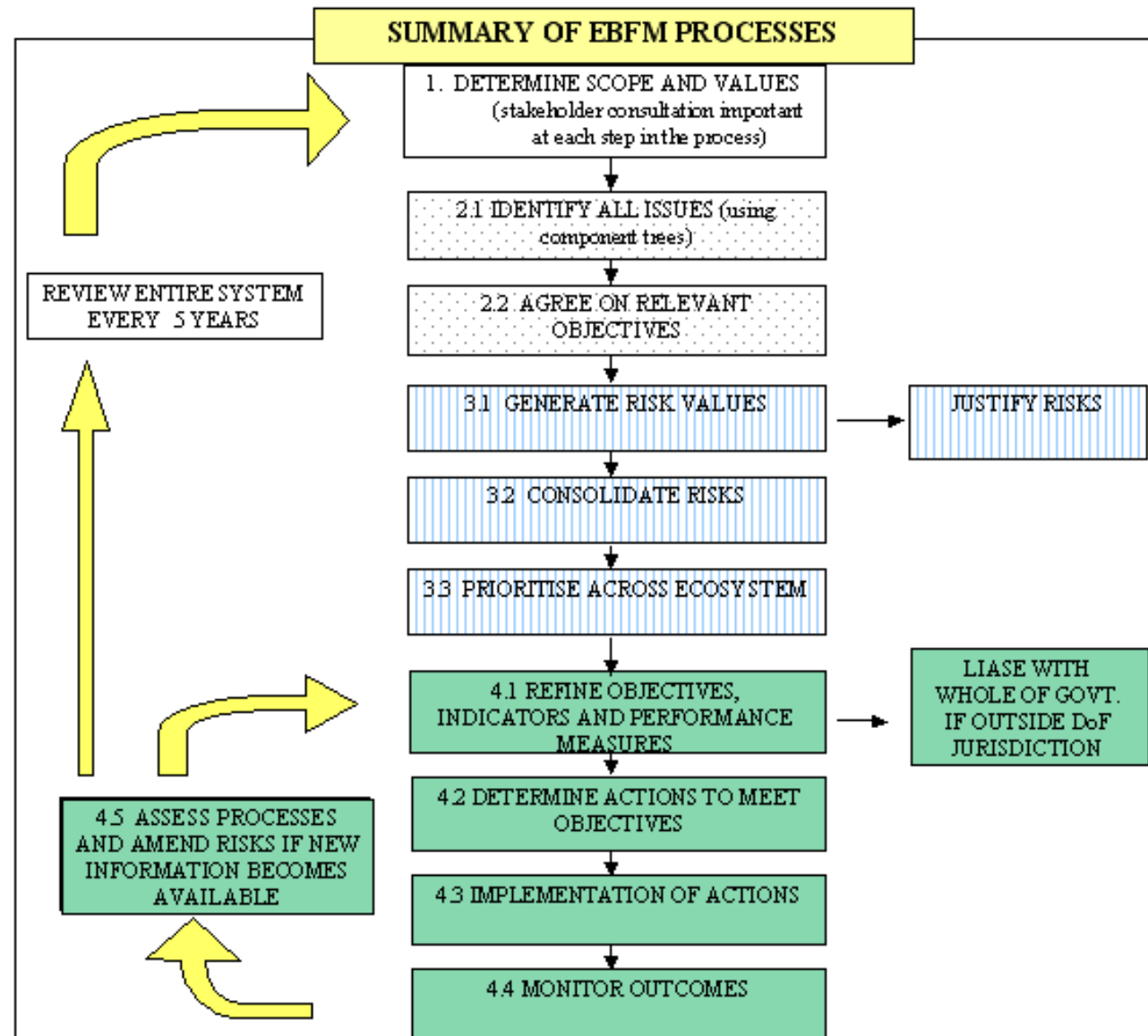
# EBFM FRAMEWORK



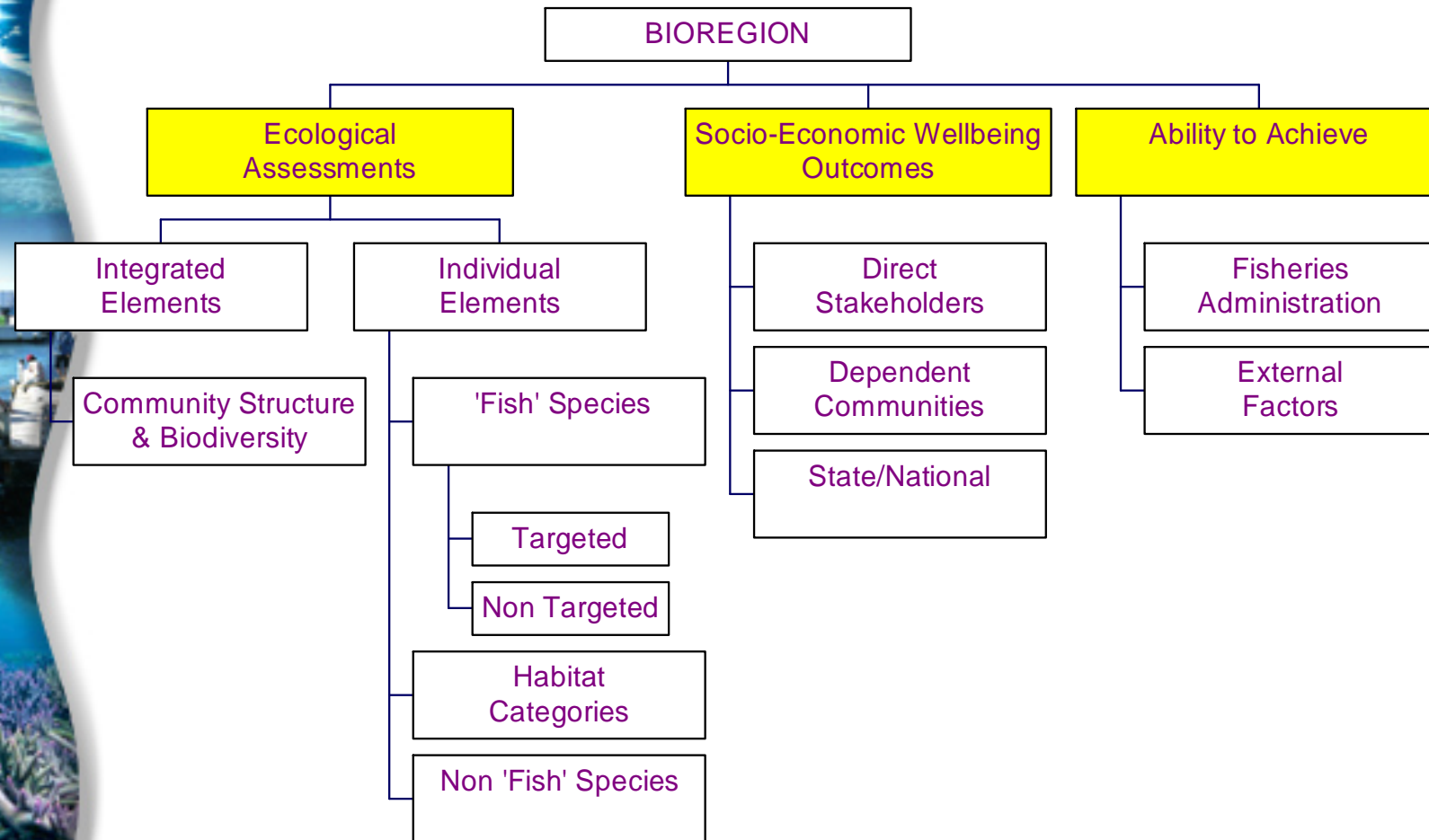
# Spatial Boundaries



# Summary of EBFM process



# EBFM FRAMEWORK



*Prioritise to a level that can be managed & communicated*

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Full Asset list







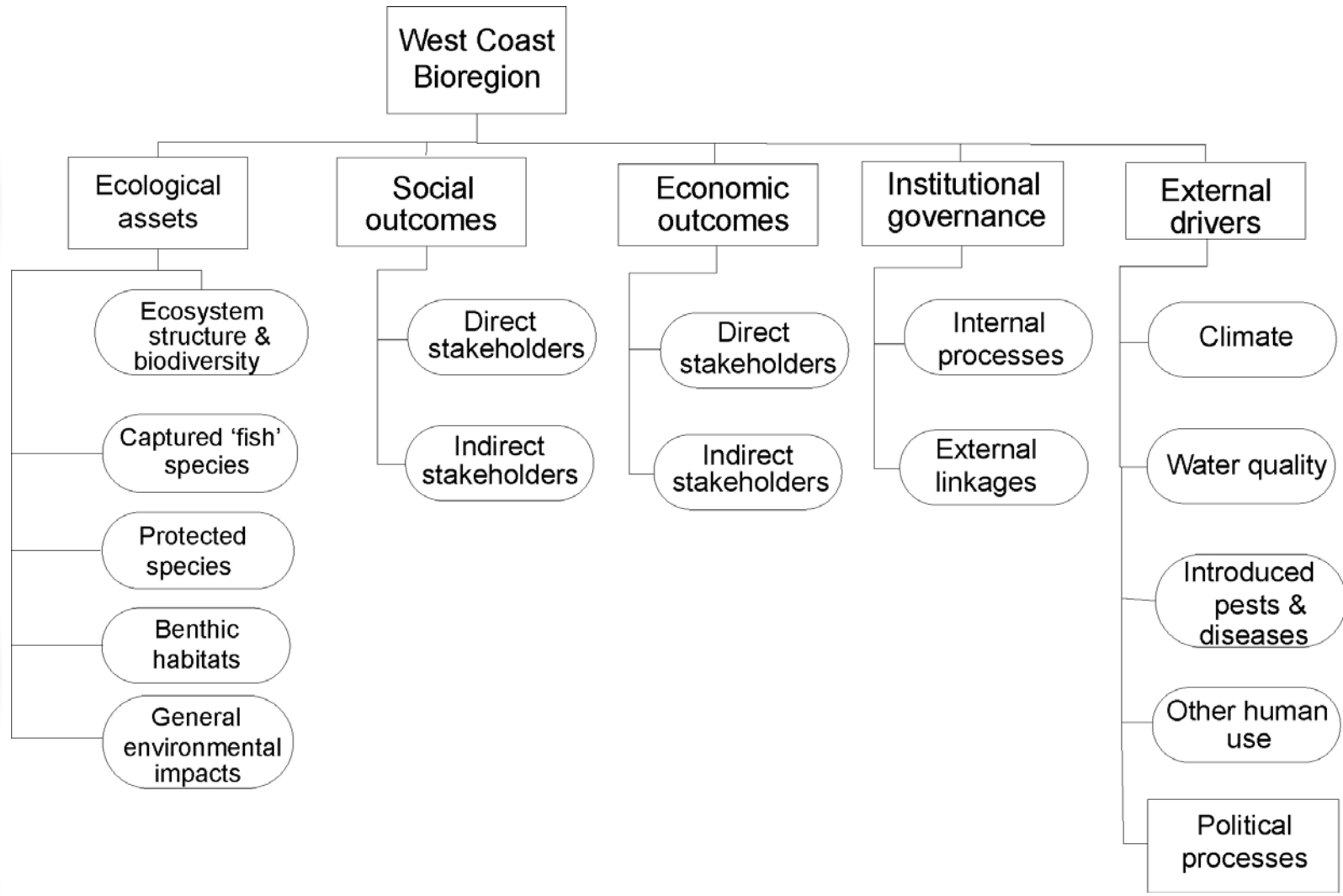
Managed list

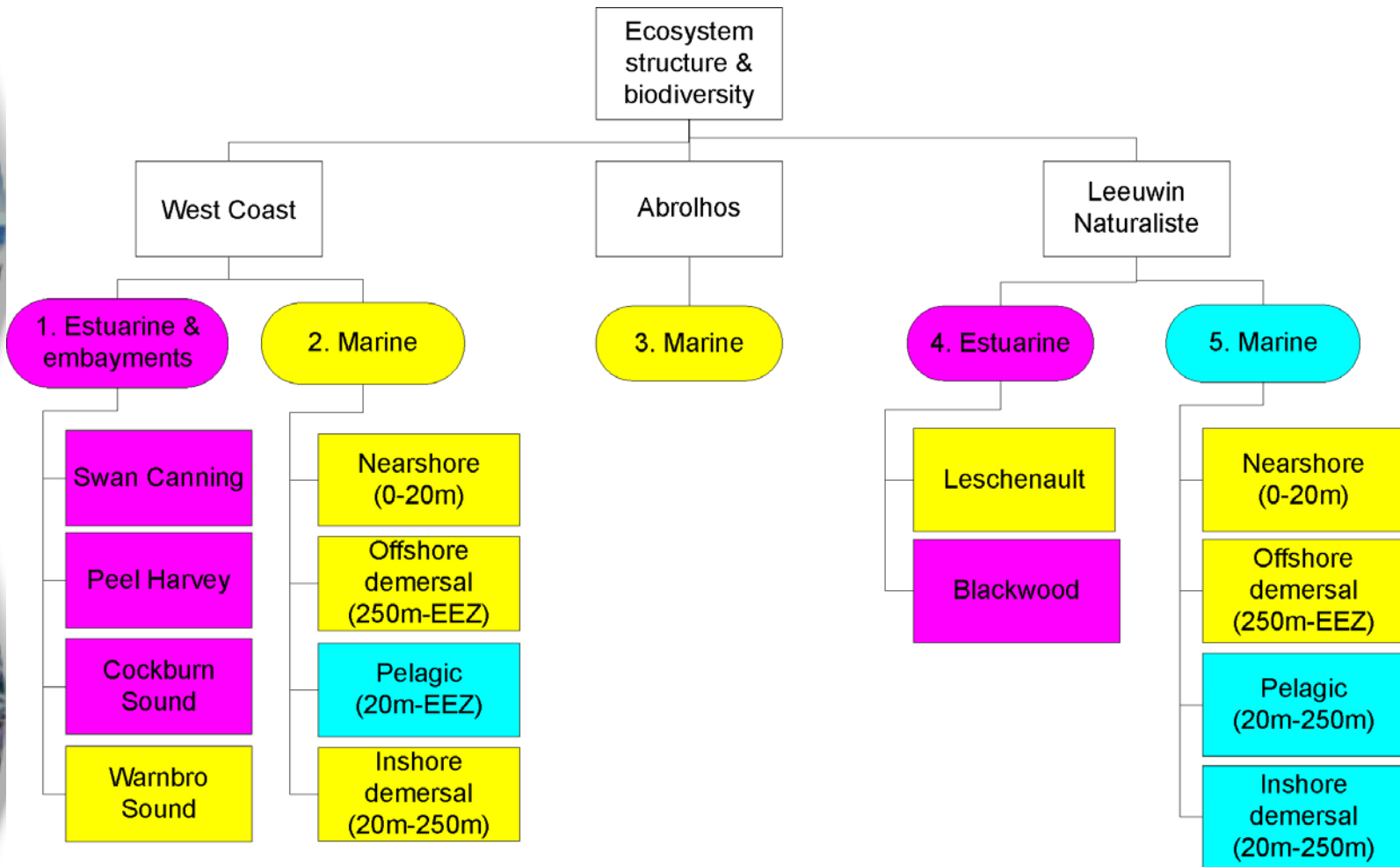
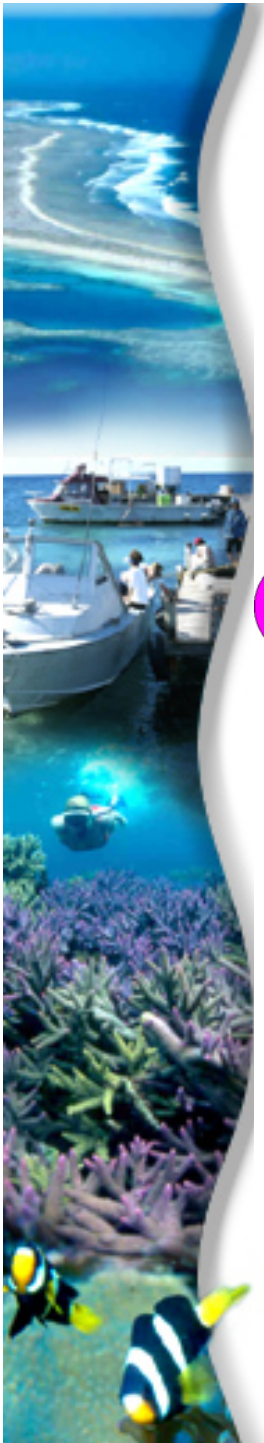
## Risk categories

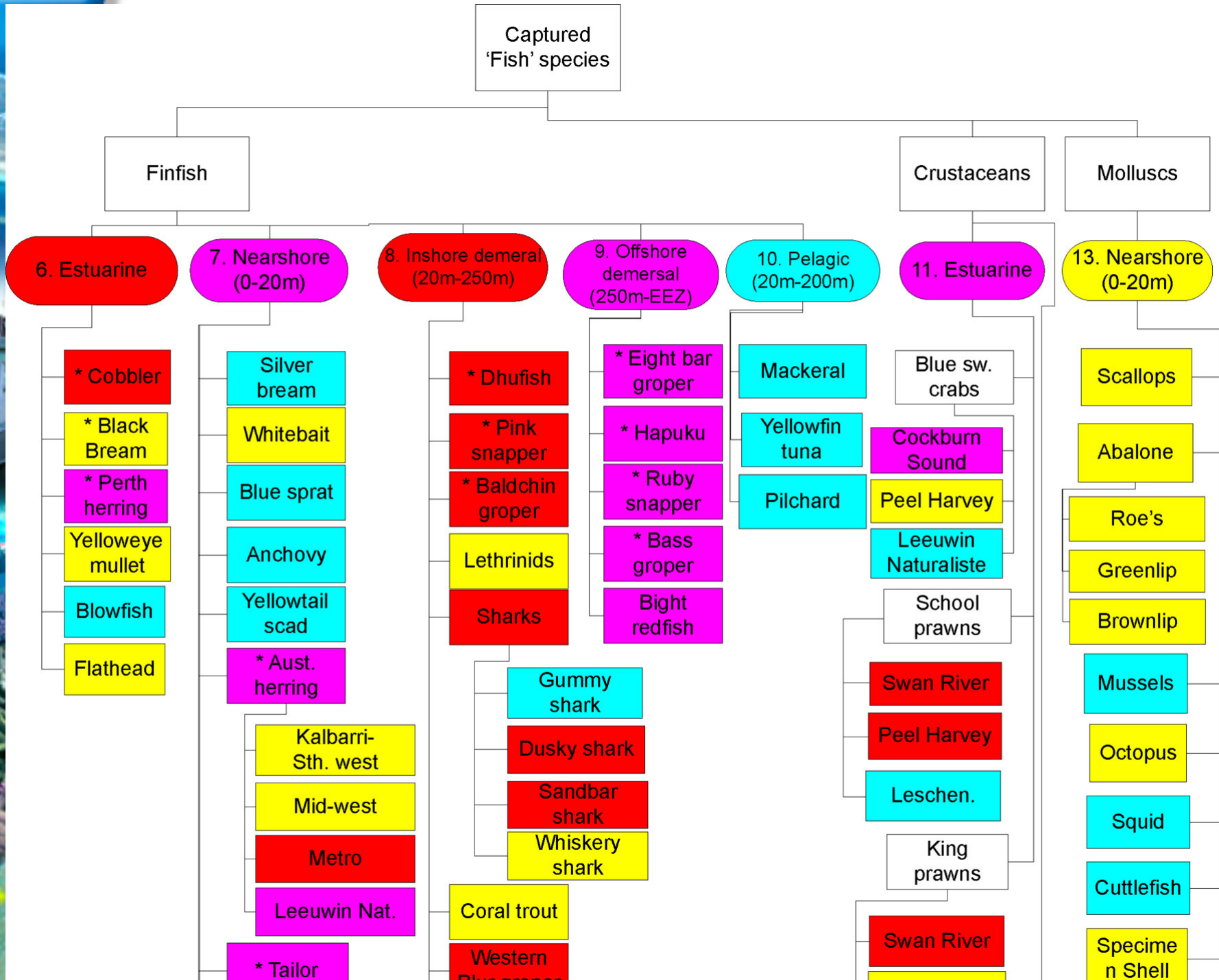
Risk Category	Risk value	Description	Likely Reporting Requirements	Likely Management Response
Negligible	1 - 2	Not an issue	Minimal	Nil
Low	3 - 4	Acceptable; no specific control measures needed	Justification required	None specific
Medium	6 - 8	Acceptable; with current risk control measures in place (no new management required)	Full performance report	Specific management and/or monitoring required
High	9	Not desirable; continue strong management actions OR new and/or further risk control measures to be introduced in near future	Full performance report	Increases to management activities needed
Severe	12 - 16	Unacceptable; major changes required to management in immediate future	Full performance report	Increases to management activities needed urgently



	Low
	Medium
	High
	Severe

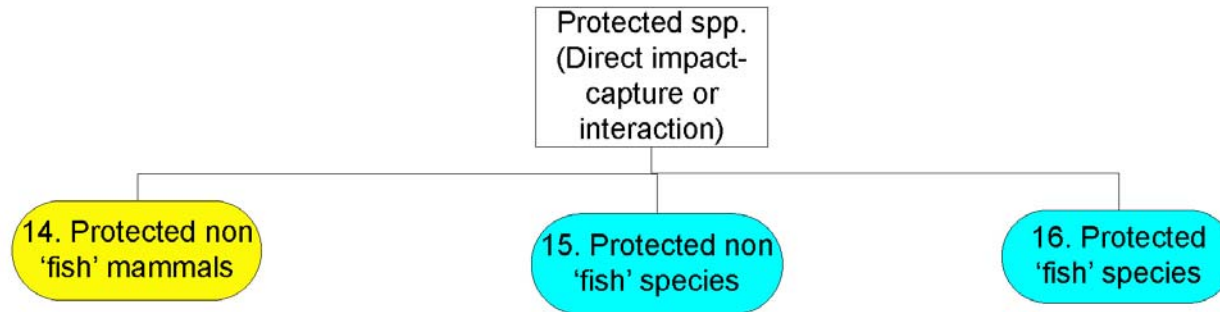




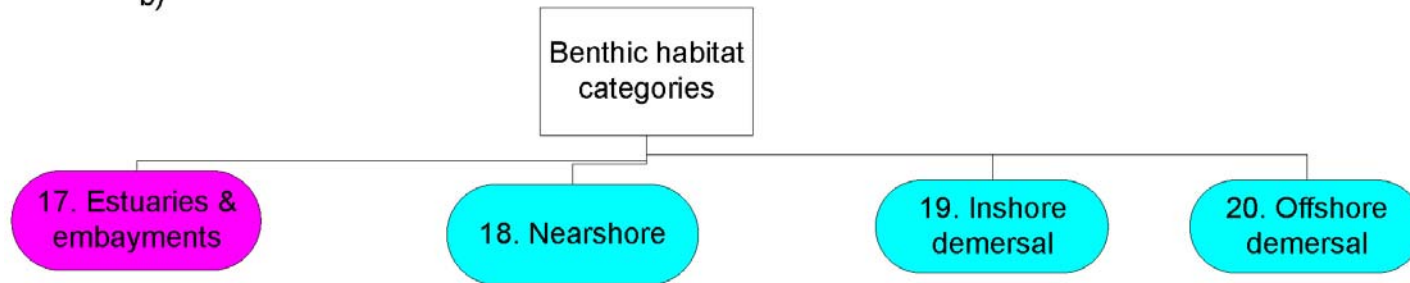




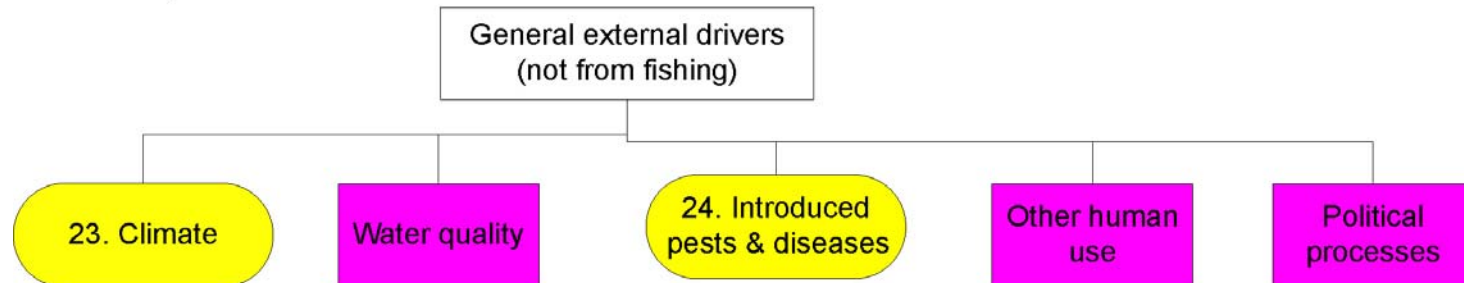
a)



b)

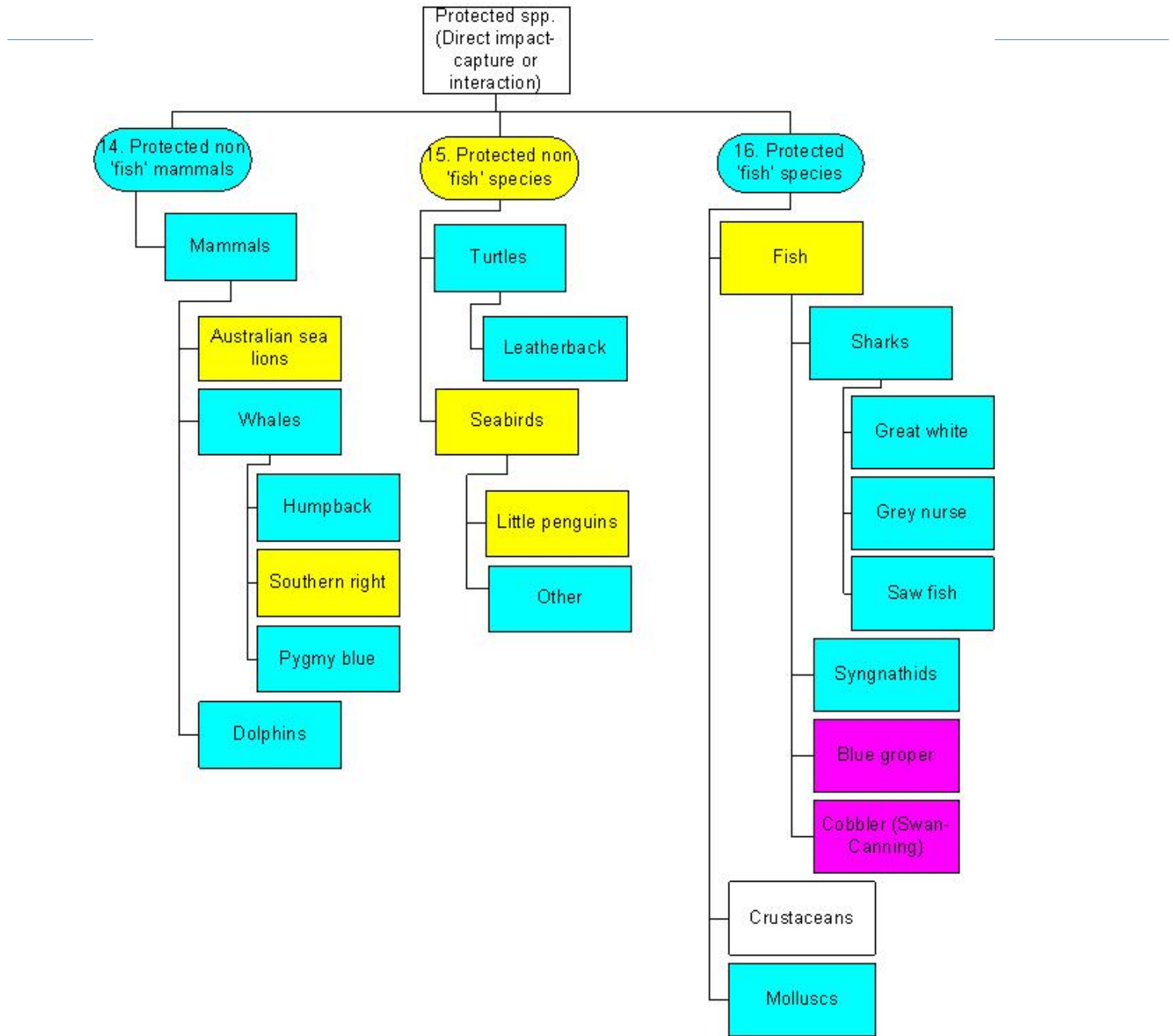


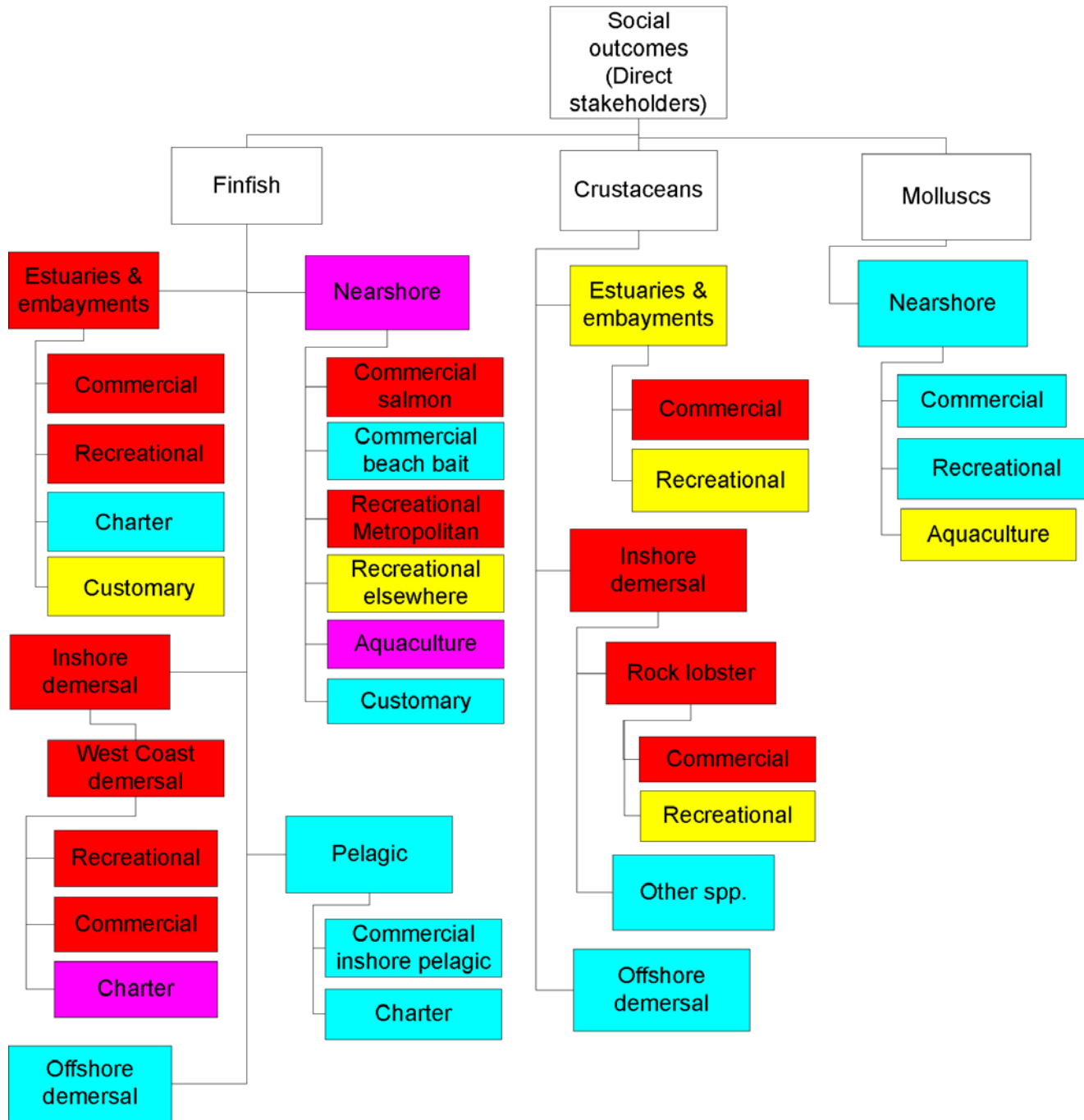
c)

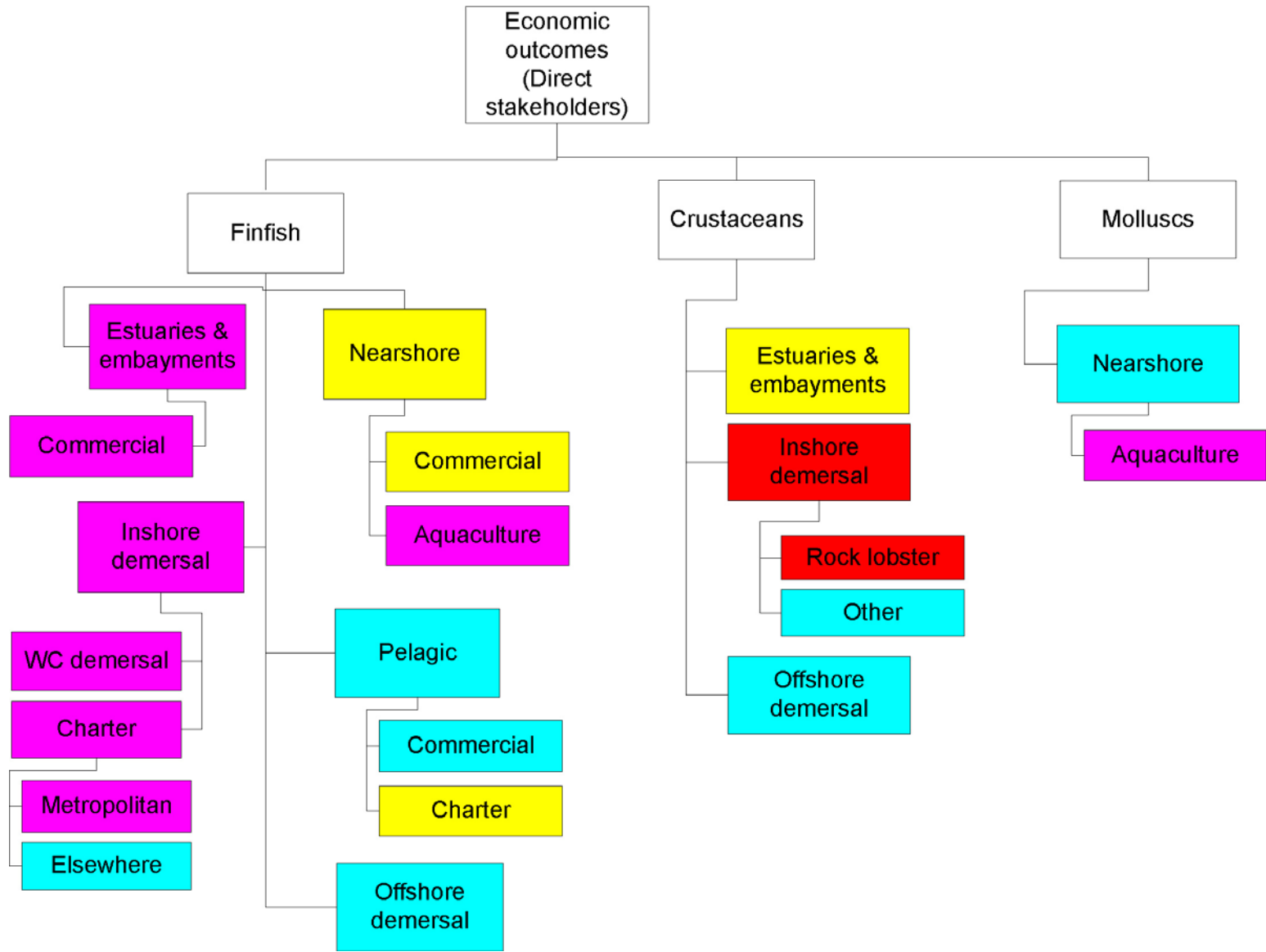


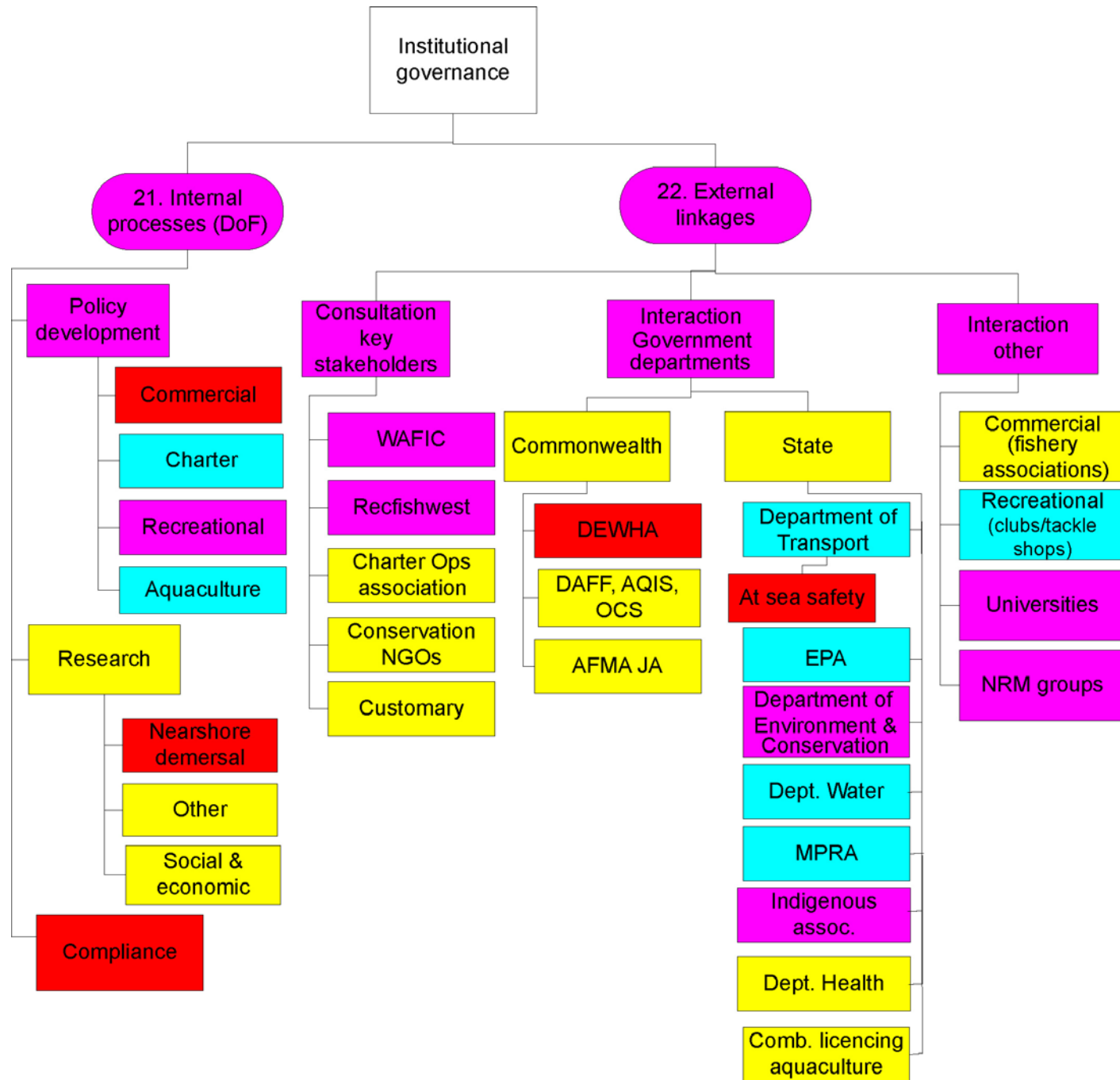


- Low
- Medium
- High
- Severe

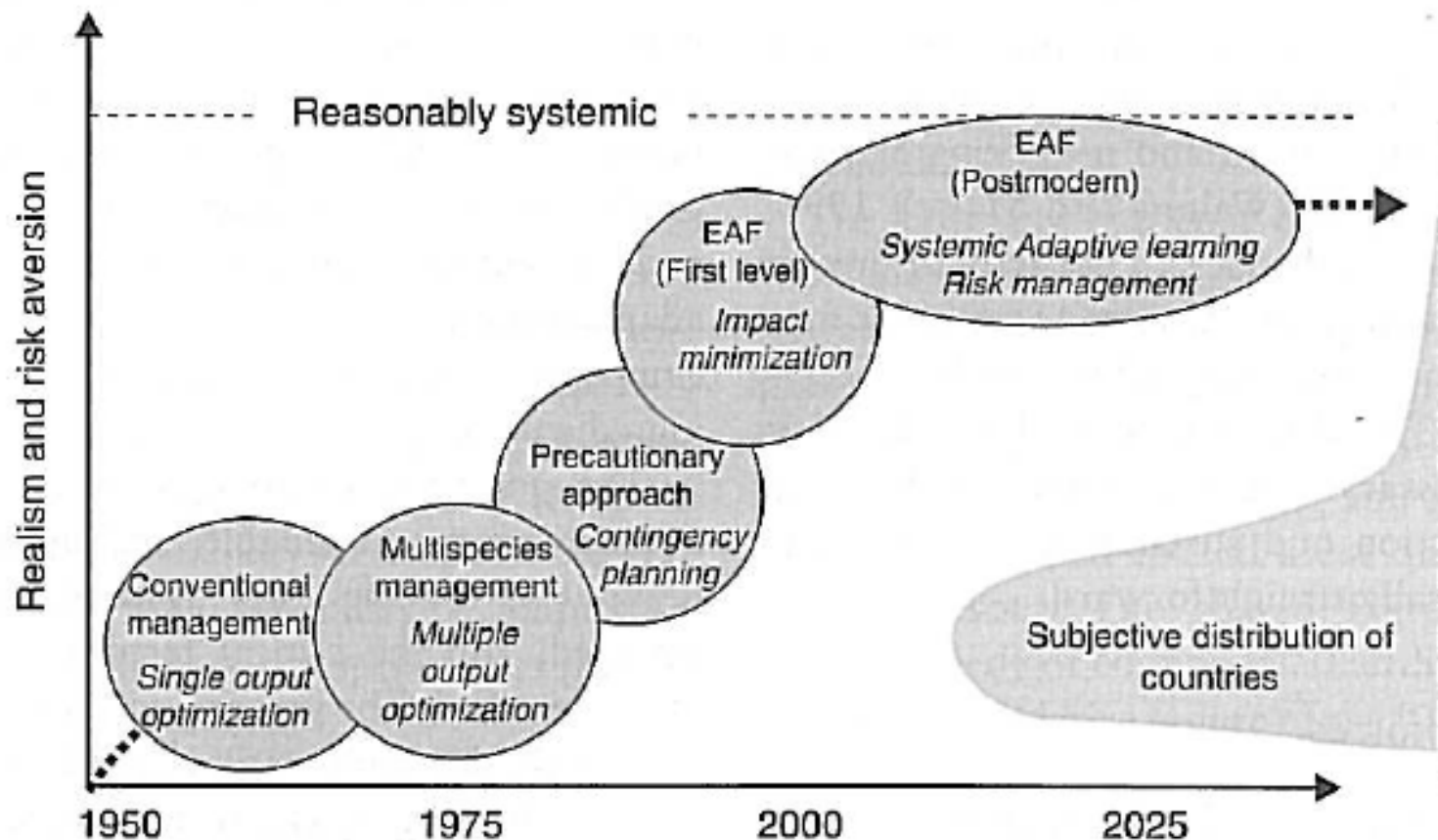








## Are we on track?



Garcia (2010). Governance, science and society: the ecosystem approach to fisheries. In: *Marine fisheries conservation and management*. RQ Grafton, R Hilborn, D Squires, M Tait, M Williams (eds.). New York: Oxford University Press.