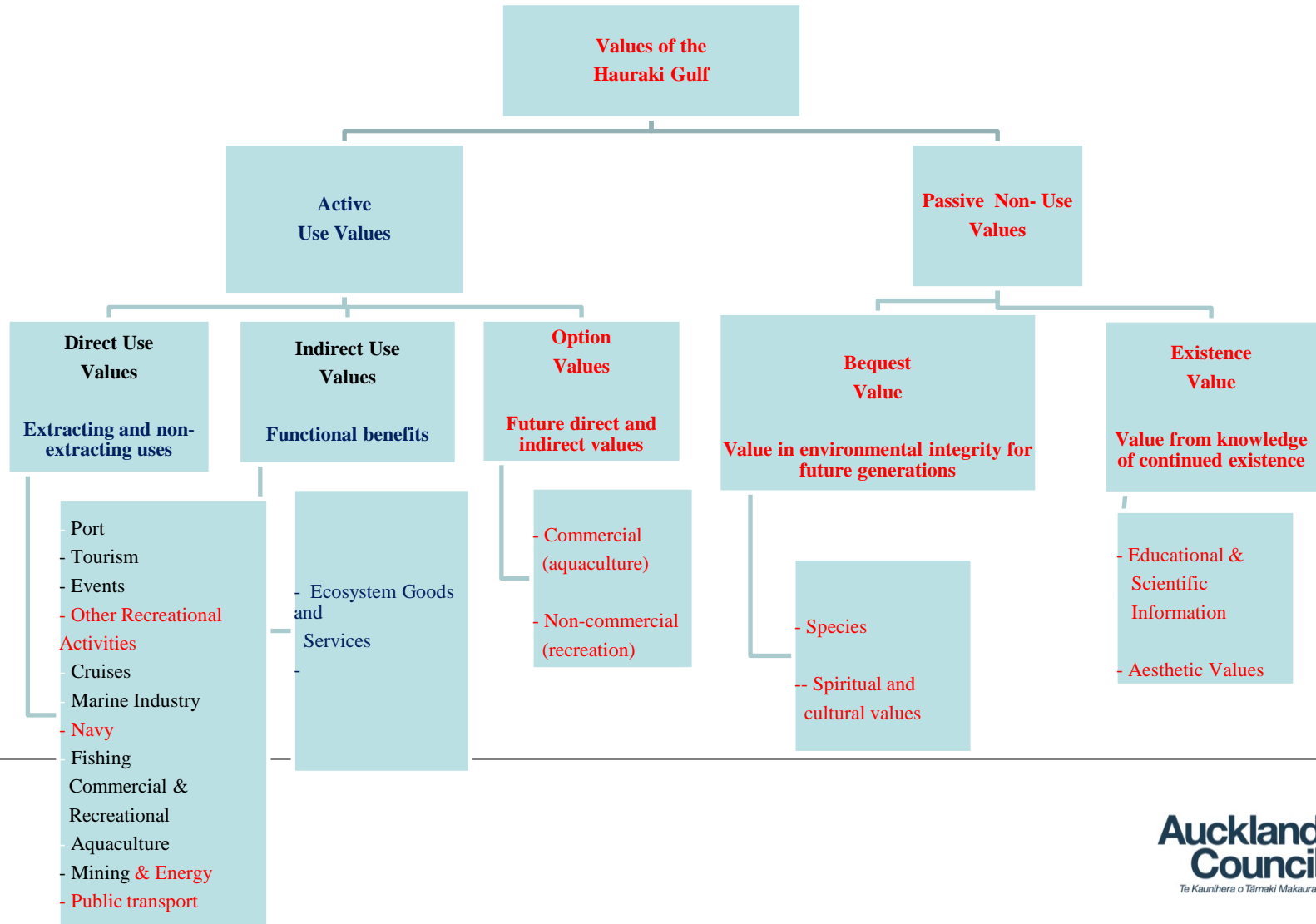


Towards a Total Economic Valuation of the Hauraki Gulf



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May 2016*

Total Economic Value Framework



Total Economic Value: values

Different kind of values

- 4-well-beings: Social, Cultural and Environmental
- As well Economic
- Market Values  Prices
 - Externalities (not priced) (e.g. Pollution, sediments)
- Non-market Values  Monetized and non-monetized

Total Economic Value: GDP

GROSS VALUE: = value added + cost of inputs

TYPE I MULTIPLIER:

- **Direct** GDP impact: value added within a sector
- **Indirect** GDP impacts: value added by suppliers to that sector (plus their suppliers and theirs ...)

TYPE II MULTIPLIER:

- **+Induced:** stimulus due to increased household spending from extra wages and employment

FLOW-ON IMPACTS = Indirect + Induced impacts

INPUT OUTPUT TABLES = multipliers for flow-on impacts

Tentative Valuation

	Year	Direct value added \$ ₂₀₁₁ million ¹	Indirect + induced value added \$ ₂₀₁₁ million ¹	Total value added \$ ₂₀₁₁ million ¹	Employment ²	
Tourism	2008	656	281	937	15,742	FTEs
Marine recreational ³	2008	na	na	550	5781	FTEs
Recreational fishing	2010	na	na	81	na	
Aquaculture ⁴	2008/2010	49	50	99	939	FTEs
Commercial fishing ⁵	2010	41	na	41	1183	FTEs
Ports of Auckland	2008	113	143	257	2027	ECs
Cruise industry	2009	35	34	69	928	ECs
Sand mining	2010	na	na	10	100	FTEs

Knowns and Unknowns

“Knowns”	Partially known	Unknowns/ Gaps
<ul style="list-style-type: none"> • Port • Cruise Industry • Recreational Marine Industry • Aquaculture • Fishing : <ul style="list-style-type: none"> commercial recreational customary (partially) • Tourism • Events • Marine Reserves (partially) • Mining 	<ul style="list-style-type: none"> • Boating • Marinas • Transport/Ferries • Property values 	<ul style="list-style-type: none"> • Navy • Environmental goods and services not yet accounted for <hr/> <p>Out of the Scope of Phase 1</p> <ul style="list-style-type: none"> • Option values • Existence values • Bequest Values • Cultural values • Social values • Spiritual values

Activity requirements

