



Gladstone Healthy
Harbour Partnership



Social and Cultural Indicators in Annual Gladstone Harbour Report Card

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(GHHP Science Team)

Four components of the report card



ENVIRONMENTAL INDICATORS

Water quality
Habitats
Connectivity
Fish and crabs

SOCIAL INDICATORS

Harbour access
Liveability/wellbeing
Harbour usability

CULTURAL INDICATORS

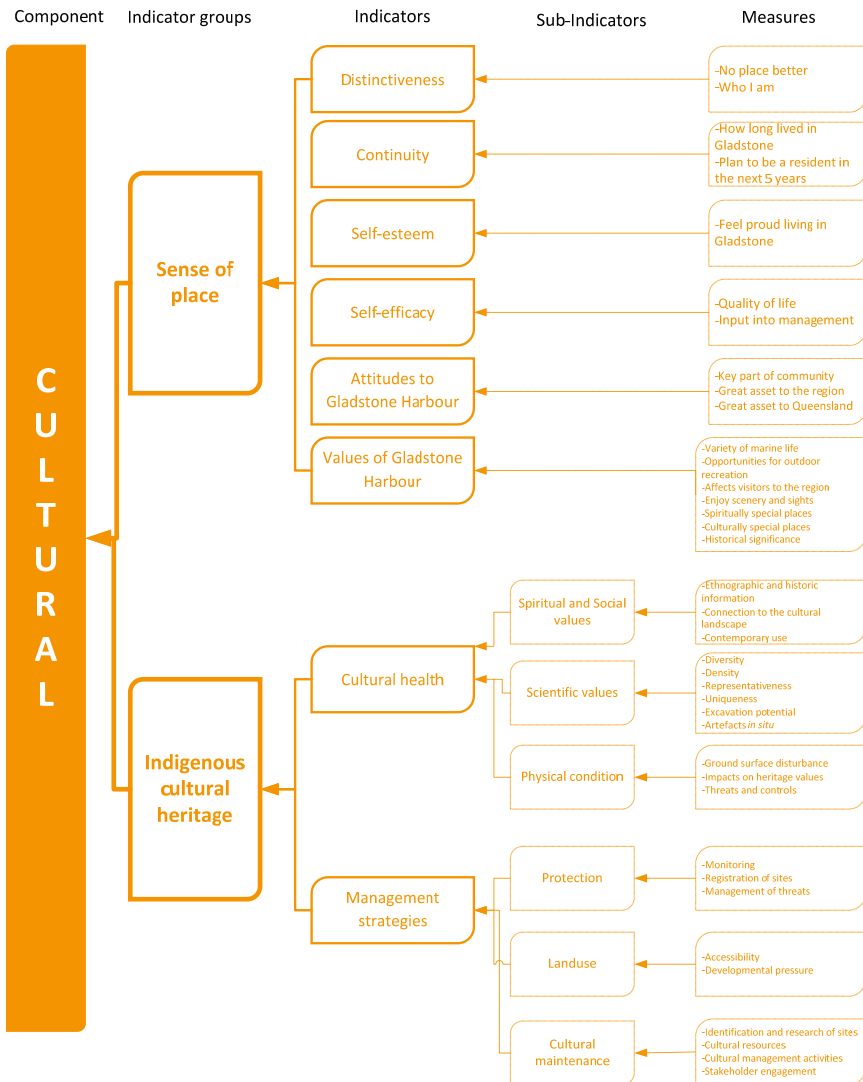
Sense of place
Cultural heritage

ECONOMIC INDICATORS

Economic values
Economic stimulus
Economic performance



Cultural component of the report card

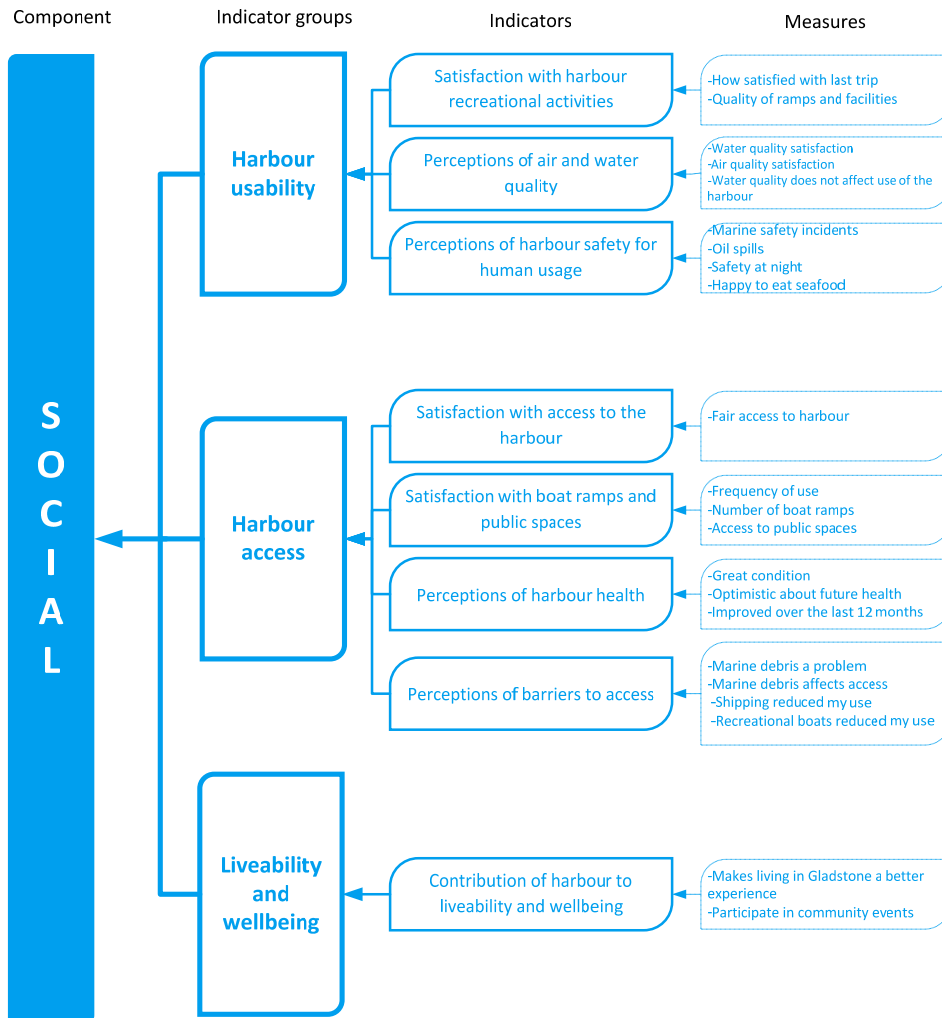


2 indicator groups

6 + 2 Indicators

Over 20 measures

Social component of the report card



3 indicator groups

8 Indicators

Over 22 measures

How did we begin the process?

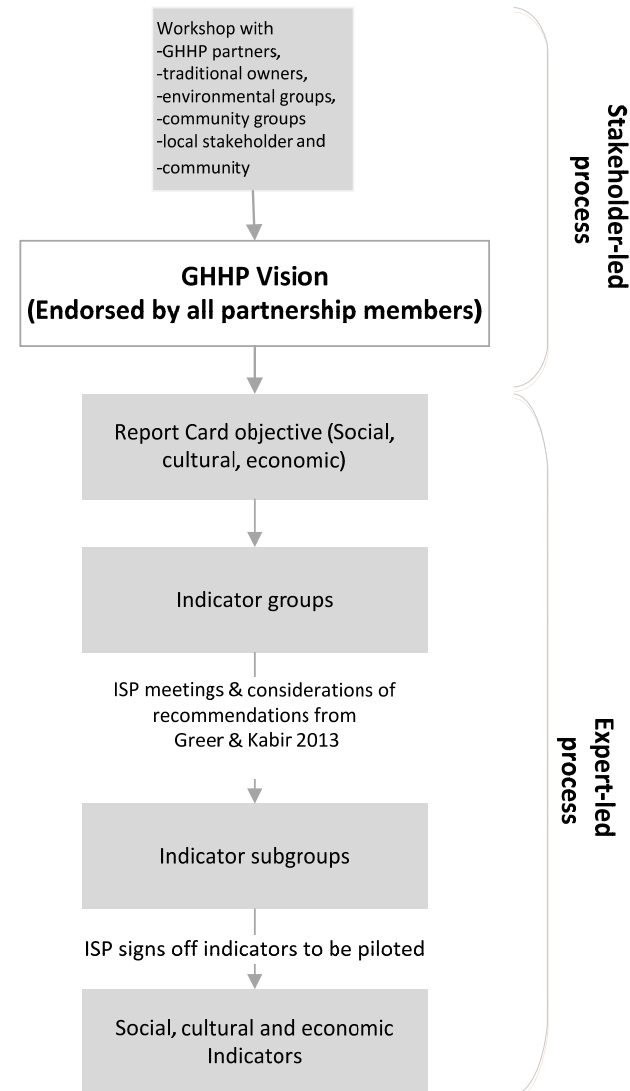
1. stakeholders in the region developed a vision for the future of Gladstone Harbour,

2. from this vision a series of specific objectives were developed,

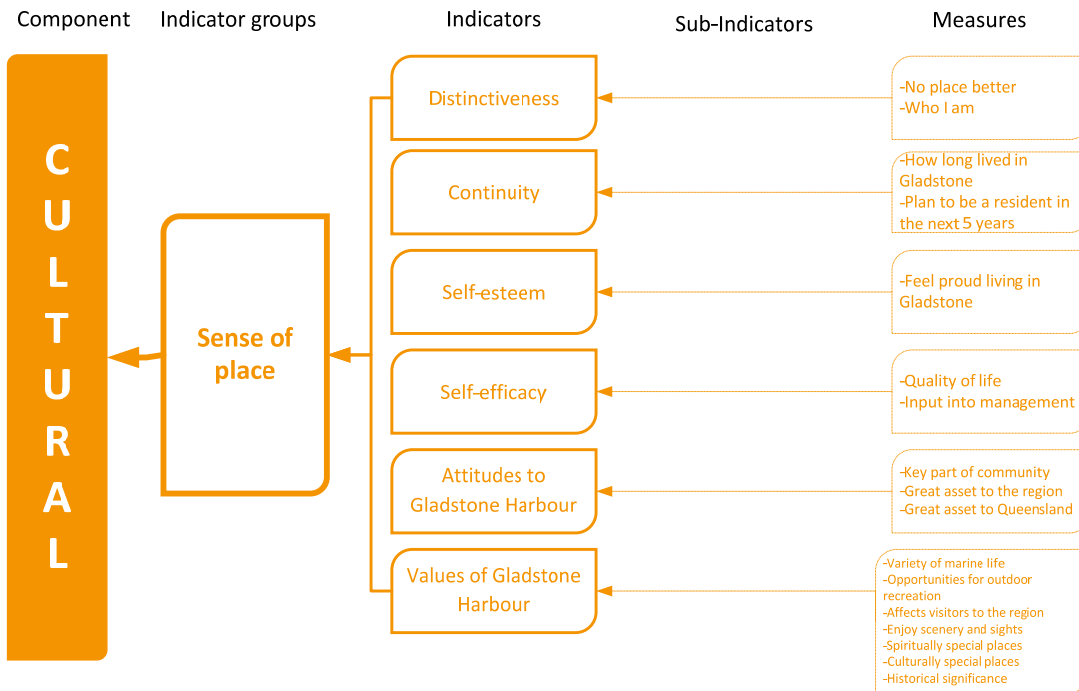
3. these were used to derive appropriate and measurable indicators, and

4. a geographically representative monitoring program was designed, resulting in

5. a series of scores which could be aggregated to overall indexes of harbour condition.



Sense of place indicator group



Geographic location → Gladstone 4680 postal area

Data collection → CATI survey

Frequency → Annually

Participants → ~400

10 point agree disagree scale → Converted to A-E grades

Aggregation → Bayesian Belief Network

Weighted → Inputs from community and social scientists



Sense of place indicators

Distinctiveness

- assesses how the harbour provides an identity that is unique or distinct from other identities.

Continuity

- adds a temporal dimension to sense of place

Self-esteem

- assesses the pride in one's identity in relation to place.

Self-efficacy

- assesses the sense of 'feeling at home'

Attitudes to Gladstone Harbour

- assess the attitudes of people in Gladstone with particular emphasis on how they view its importance for the community and the economy.

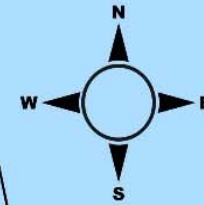
Values of Gladstone Harbour



- assesses how the community values key aspects of the harbour, including marine life, recreational and tourism activities, cultural, spiritual and historical significance of the harbour.

Geographic scope for Sense of place indicators



Gladstone LGA Boundary and Postcode Area

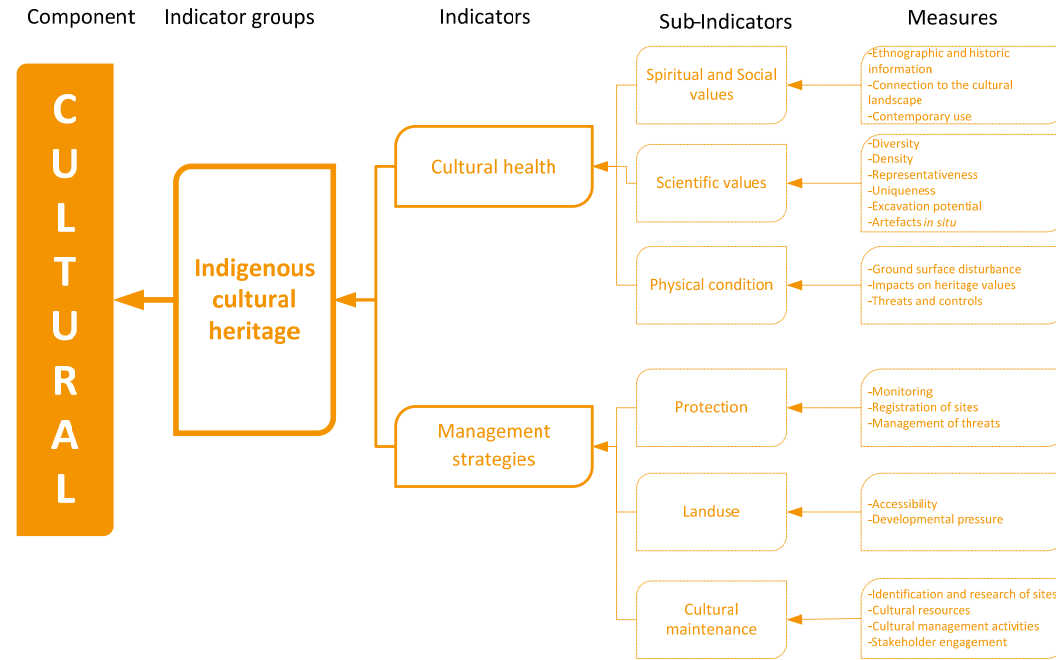


-  Gladstone LGA Boundary
-  Gladstone 4680 Postcode Area

0 25 50 75 100 km



Indigenous cultural heritage indicator group



Geographic location → 4 zones around Gladstone harbour (The Narrows, Facing island, Gladstone Central and Wild Cattle Ck)

Data collection → field visits, interviews

Frequency → Annually

5 point scale based on site assessments → Converted to A-E grades

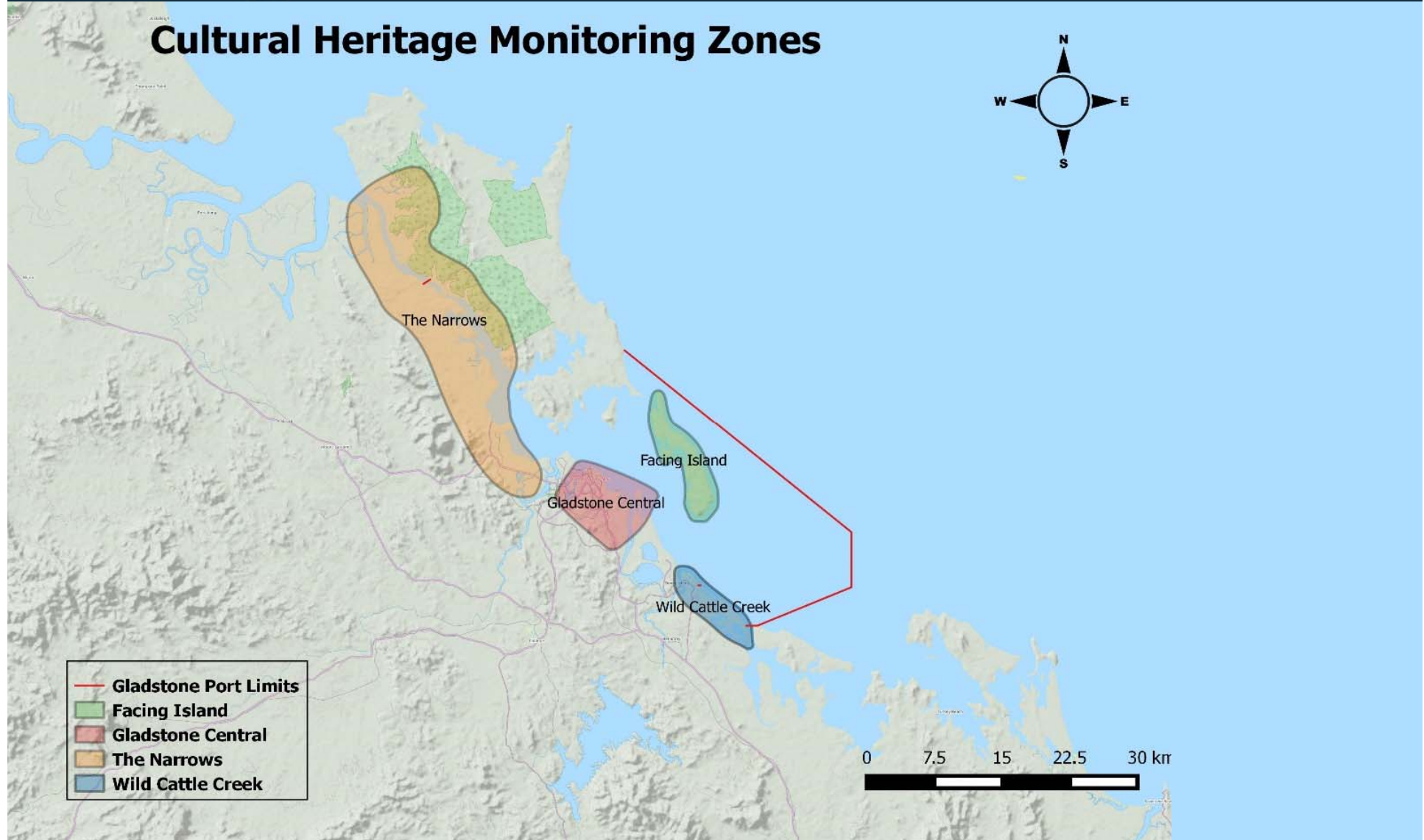
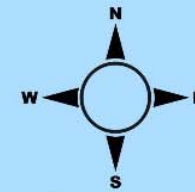
Aggregation → Bayesian Belief Network

Weighted → Inputs from community and social scientists, reference site

Geographic scope for Indigenous cultural Indicators



Cultural Heritage Monitoring Zones



Social indicators

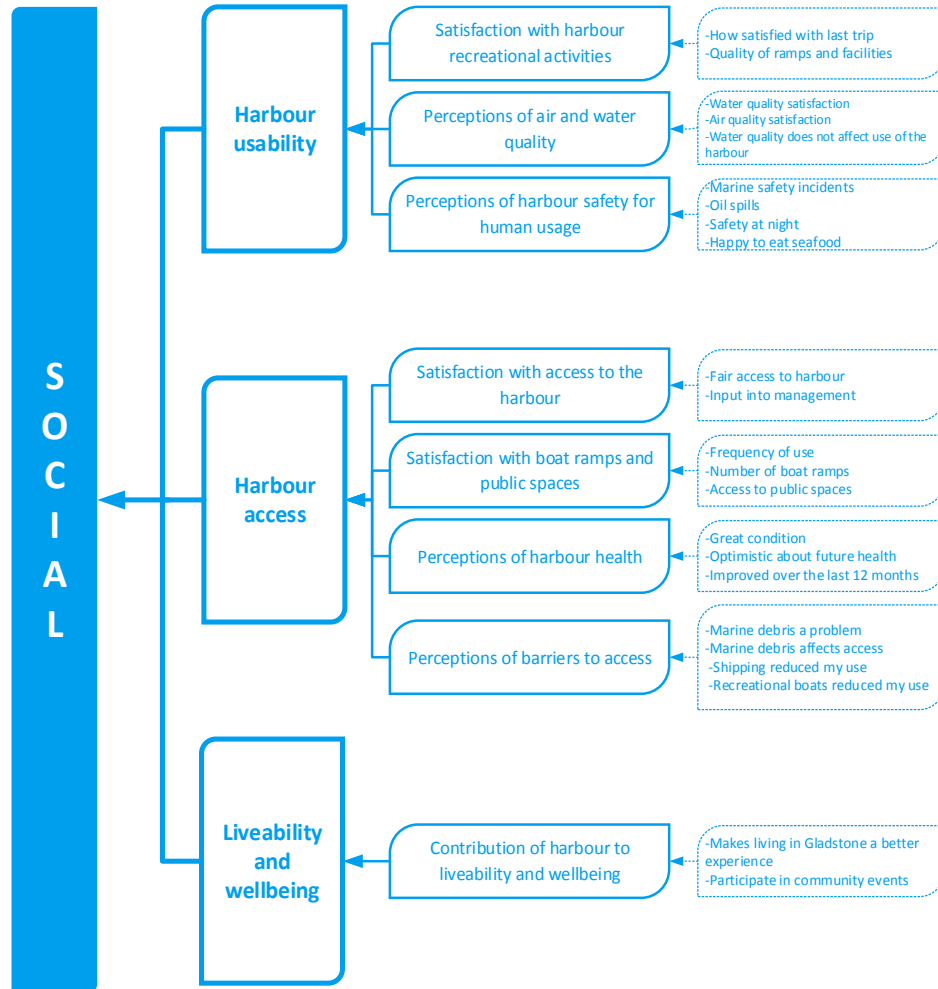


Component

Indicator groups

Indicators

Measures



Geographic location → Gladstone 4680 postal area

Data collection → CATI survey, secondary data sources

Frequency → Annually

10 point scale based on site assessments → Converted to A-E grades

Weighted → Inputs from community and social scientists

Aggregation → Bayesian Belief Network

Social indicators general structure



- **Four** levels of aggregation
- Measure level information includes data collected through a **survey** and **secondary data sources**.
- Indicators were **weighted** using inputs from community participants, community leaders, social scientists and economists.
- The appropriate measures and questions were developed by the project team, heavily based on those used within the **Social and Economic Long Term Monitoring Program** (SELTMP) for the Great Barrier Reef.

Development of Indigenous cultural heritage indicators



1. Best practice review

- review of 'best practice' or 'current practice' of Indigenous cultural heritage protection and management in Australia and New Zealand
- what **standards** and **practices** currently exist or are being used, and for what purposes/outcomes (e.g. identification, protection, management).
- an assessment of **current or proposed approaches to be taken in the Great Barrier Reef World Heritage Area** including the Great Barrier Reef Marine Park.

Development of Indigenous cultural heritage indicators



2. Draft Indigenous Cultural Heritage Database (ICHD)

- Built on the information contained in the Queensland Government Aboriginal Cultural Heritage Database
- Database contained- **significance** of each site,
 - class of land** use at each site using the Australian Land Use and Management classification
 - an assessment of the likely **current state** of each site
 - the **current level of protection** for each site
 - any available historical or recent documents** relevant to the management of each site

Indigenous cultural heritage indicators

3. Field assessment

- Selected sites in each zone were assessed by the project team, an experienced anthropologist and Gidarjil rangers
- 360° panoramic imagery and drone footage



Quantitative assessment

3. Field assessment (quantitative)

Eg. **Accessibility measure**-relates to the percentage of sites within a zone that can be easily accessed for heritage management.

Grade	Criteria (all years)
A	80-100% of the sites within the zone are easily accessible for heritage management activities.
B	60-79% of the sites within the zone are easily accessible for heritage management activities.
C	40-59% of the sites within the zone are easily accessible for heritage management activities.
D	20-39% of the sites within the zone are easily accessible for heritage management activities.
E	0-19% of the sites within the zone are easily accessible for heritage management activities.

Qualitative assessment

3. Field assessment (qualitative)

Eg. Ethnographic and historic information measure-relates to the availability of such information (e.g. detailed written archaeological recording of site features and elements) significant to sites and awareness of Traditional Owners of such information.

Grade	Criteria (all years)
A	Desktop research continues to inform ethnographic and historical information about a site. Detailed archaeological recording of site features and elements continues to build an understanding of its previous use. The Traditional Owners are aware of this information and the growing narrative of the site.
B	Desktop research has informed the ethnographic and historical information about a site. Monitoring station/s have given an insight into its previous use. The Traditional Owners are aware of this information and the growing narrative of the site.
C	Desktop research has provided limited informed regarding the ethnographic and historical information about a site. Monitoring station/s provide limited insight into its previous use. The Traditional Owners are aware of limited information about the site.
D	The site or its type does not occur in the written record. Monitoring station/s provide minimal insight into the previous use of the site. Limited consultation with Traditional Owners has taken place.
E	No desktop research has occurred. The site has not been previously documented or recorded. No consultation has occurred with Traditional Owners about the site.



Challenges

Right combination of indicators → There are many potential indicators but the determination of right combination is always challenging

Engagement → Engagement with the indigenous groups is not easy especially on regular basis

Weightings → Determination of weightings needs careful consideration and should be based on meaningful criteria

Access → Difficulty in accessing sites due to natural (eg. tide) and anthropogenic (eg. obtaining permission from landowners) reasons

Tight timeframes → Considering the novel nature of the indicators, more time is required to properly establish the indicators before being communicated to the general public

Useful reports available on our website

Guidance for the selection of social, cultural and economic indicators for the development of the GHHP Report Card

Sense of place methods: Piloting of social, cultural and economic indicators for the Gladstone Healthy Harbour partnership report card

Indigenous cultural heritage indicators for Gladstone Harbour report Card

Aggregation of Sense of place indicators and Indigenous cultural heritage indicators





Acknowledgements

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Questions

