

Chair Report on ISP Meeting 22: 14 February 2017

The objectives of the meeting were to provide ISP members with a report on GHHP activities, and to review progress against the GHHP Science program milestones. In addition the ISP discussed issues relating to the development of the Fish Health Indicator, the Gladstone Harbour model, secondary data sources for the Social and Economic components, presentation of environmental scores in the report card, and broader issues relating to priorities for further investment and future program review.

The Science Program is on target to deliver the required science inputs into the 2016-2017 Report Card, with a number of activities already contracted or in the process of being contracted. Reporting for many of the sub-components is now becoming more routine, and efforts are being made to organize contracts earlier than in previous years.

Specific issues and items of note covered in the meeting included:

- **Mudcrabs:** The revised call for Mudcrabs has been issued, and depending on interest, there may be opportunities for pilot collection of data before the end of June.
- **Mangroves:** The ERMP project on mapping mangroves in the Gladstone Harbour (run by Norm Duke at JCU) is expected to generate baseline data by mid-2017. There is potential for a Mangrove indicator to be based on this but little can be done to advance it until the ERMP data becomes available.
- **Gladstone Harbour (Seaview) Model:** While a draft final report has been provided for this project, some further work remains to complete the website and improve the usability of the project. There are still some indicators (social, cultural and economic) to be added to the website, and the interface needs to be improved. The ISP noted that the Seaview site tends to have a technical focus, and recommended some additional effort be made to:
 - Consolidate some outputs measures into summary measures to improve communication and limit the potential for inconsistencies in the results
 - Make the interface more user-friendly and improve interpretative material
 - Identify data and other gaps that limit the accuracy of the model.
- **Social, Economic and Cultural (Sense of Place):** The project team (CQU) has identified a number of small adjustments in the R-scripts, secondary data sources and data management that will be addressed in the current year. Opportunities to improve measures of the Tourism sector (in the Economic Performance section) and Economic Stimulus will also be considered.
- A revised Fish Health scope of works is being negotiated with the Fish Research and Development Corporation (FRDC). Compared to the previous versions, the revised scope of works is more focused on the Gladstone Harbour and takes better account of the potential for different data collection methods, data referencing and indicator development. The

intent of the project remains the same: to test potential options for an indicator(s) for Fish Health with Gladstone as a case study focus. The arrangements for funding support and project management are still to be negotiated with the FRDC.

- Cultural Heritage: Terra Rosa are being contracted to repeat the Cultural Heritage project in 2017. There will be more emphasis on engagement with traditional groups and more accurate measures of Spiritual and Social values. An expert in indigenous engagement (Professor Bronwyn Fredericks) has been invited to review the project.
- Report Card presentation: There was discussion about the GHHP Report Card and the elements of the (GBR) Reef 2050 Sustainability Plan, noting that:
 - Seven of the eight elements of the 2050 Plan correspond closely with the GHHP RC components and sub-components
 - There is ongoing interest from Government in ensuring that report cards become better aligned
 - There is potential for better alignment of the GHHP RC with the Reef 2050 Plan through
 - (a) Reporting Environmental results by Sub-Components
 - Water and Sediment
 - Habitats
 - Fish and Crabs
 - (b) Some changes to nomenclature
 - Habitats to 'Ecosystem Health'
 - Fish & Crabs to 'Biodiversity'
 - (c) Adding Governance to the Report Card.

The ISP considered option (a) or variants of it to have some potential, and recommended that the views of the Management Committee be sought. The ISP recommended that no decisions on options (b) or (c) be pursued until there are clearer directions from Government about report cards.

- Internal review: Arrangements for the internal review to be conducted by Nathan Johnston and Nicole Flint are being finalized.
- Web-based data mapping: The ISP reviewed the potential for mechanisms to collect community values and represent them in geographic terms to (a) increase interaction with the community (b) provide more spatial context around existing indicators and (c) collect additional raw data. The views of the ISP members were that there were other areas that had greater priority, but that some review work to explore the potential of web-based data mapping may be worthwhile.

- Extending PCIMP data: The ISP discussed options to improve the usefulness of PCIMP data prior to meeting with the PCIMP group:
 - Improving laboratory analysis to deal with Limits of Reporting issues
 - Conducting additional sampling over time at one or more sites to assess temporal variability
 - Conducting additional parallel sampling at one or more sites to assess spatial variability
- The ISP discussed priorities for further research and investment, including:
 - Additional work on the Seaview model and site
 - (a) Develop summary output measures
 - (b) Make the interface more user-friendly
 - (c) Scenario testing with domain experts
 - (d) Gaps in primary data
 - (e) Bottlenecks in modelling
 - Sediment mapping
 - (a) Source modelling for sediments
 - (b) Link sediment mapping into CONNIE model
 - Nutrient mapping
 - New indicator for Economic Stimulus
 - Validation/improvement of water quality measures