



The Cook Islands Office of the Minister for Island Administration and the Atiu Island Council identified improved harbour facilities as one of the key elements to future development on the island of Atiu. ACCG undertook a comprehensive feasibility study for the proposed harbour development. The objectives of the harbour were to reduce the cost and risk of importing and exporting goods (and thus encourage development on the island) to allow the establishment of long-line tuna fishing and game fishing industries, to allow for visiting yachts and to encourage a cluster of supporting industries.

The concept proposed was to excavate out an area of reef flat and makatea cliff to create a harbour basin, with a new breakwater along the outer edge. The study considered size of vessel, harbour size and facilities, construction logistics and risks, types of breakwater design, environmental issues, and included cost estimates and a preliminary benefit cost analysis. The study also considered alternative locations and alternative design concepts. The study included interim solutions and discussed other shipping concepts that would meet some of the objectives of the new harbour.

Project Description

Project: Atiu Harbour Development,
Engineering Feasibility Study

Location: Cook Islands

Client: Office of the Minister for Islands
Administration

Total Project Value: US\$35,000

Start Date: January 2002

End Date: September 2002

Lead Company: AC Consulting Group

Associated Consultants: None

Key Features:

- Feasibility study for harbour development