The Neglected Georesources: Their past, current and future value to sustainable socioeconomic development in the Pacific Islands"

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Stones do have Value in the Pacific

Georesources, put crudely
 "Stones" do have value
 in the Pacific and it all
 depends on their origin,
 mineralogy and chemistry.

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If it is not coral limestone as "Rai" in Yap it may be andesite or basalt for the "Lovo" in Fiji.



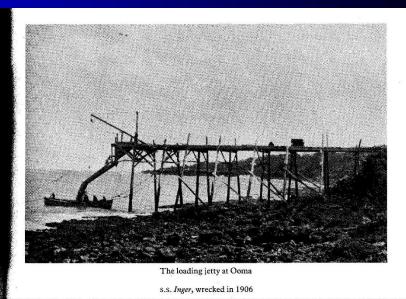
National Needs....Lack of Capacity

- Support for countries to develop and implement geoscience input to National Sustainable Development Strategies
- Establish national pilot/demonstration projects
- Facilitate and support establishment of open source National Resource Information Systems developed using high resolution satellite and air photo imagery and seabed mapping
- Facilitate establishment of real time monitoring
- Develop new partnerships to deliver at the village and community level



First Discoveries in the Region

- Gold in Fiji, 1868
- Gold in PNG, 1878
- Nickel in New Caledonia, 1864
- Phosphate on Ocean
 Island, 1900 and Nauru, 1907
- Hydrocarbons in PNG, 1911
- Export v Local Use
 Sand and Gravel
 Mineral Water





Sand and Gravel

 The labelling of sand and gravel as a "low value, high volume" resource must be reviewed as it is evident that the export of sand and gravel and value added products such as concrete blocks is now taking place in increasing instances and volumes in the region.

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Past, Present and Future

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 The sustainable future use of georesources in the region given traditional/cultural historic and current uses and future resource availability and demand.



Are We Doing Better... or Not • The environmental issues versus development demand and resource location, quarries, river beds, beaches, reef flats and lagoon dredging. Inevitably... is there a vulnerability issue here in regard to climate change and sealevel rise.??

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Current and Future

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 Importance of sand and gravel to island economies given the expected growth in demand to support development and limited legislative and regulatory capacity.



Urgent Need for Capacity Building

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 Particularly education at the technical level to ensure the future development of the sand and gravel sector and georesources generally are well managed.

Certificate in Geology, Mining and Quarrying for Fiji

Quarter	Units					
First	Earth, its	Computer	Fundamentals	Occupational	Technical	Preliminary
	origin and	Use and	of Ethics	Health and	Communication	Mathematics
	structure	Applications		Safety 1		
Second	Earth	Basic	Legislation	Engineering	Engineering	Basic Science
	Materials 1	Surveying		for Quarrying	Communication	
					and Practice **	
Third	Earth	Map Making	Occupational	Environment	Mineral	Earth Surface
	Materials 2	and GIS	Health and	and Social	Resources	Processes
			Safety 2 **	Aspects		
Fourth	Field Study	Land	Project	Quarrying	Mineral	Entrepreneurship
		Management	Planning	Technology	Economics	
				and		
				Equipment		