

Client: TIB Development Bank Ltd

Value: US\$160,000

Services: Airport planning and design

Project Duration: Oct 2013 – July 2014

Tanzania Airport Upgrades

Feasibility Study for the Redevelopment of Arusha and Mwanza Airports

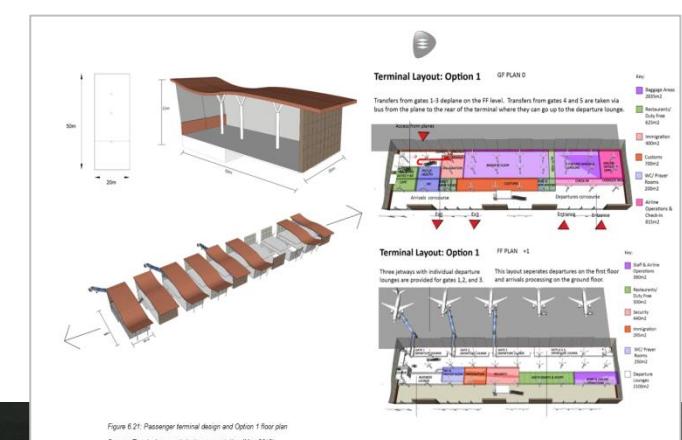
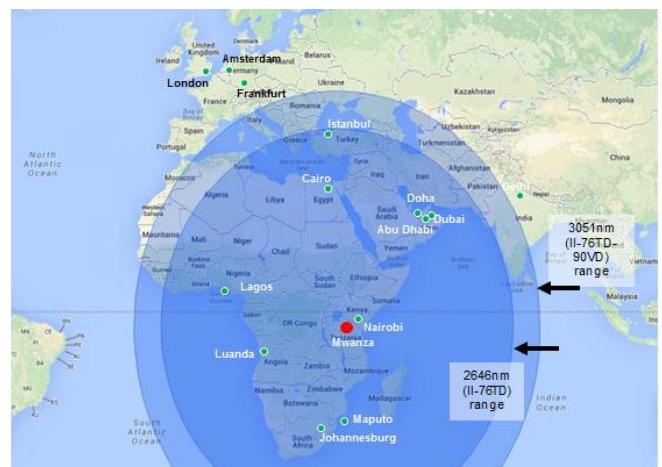
The Task

Gibb, together with Nurizon, was appointed to undertake a feasibility study for the redevelopment of Mwanza and Arusha airports in Tanzania. The objective of the study was to determine the technical, environmental and economic viability of existing airport development plans in relation to the forecasted demands for both airports. The two airports serve distinctive (and different) markets – Arusha caters for National Park tourism, with some scheduled traffic. Mwanza's economy, as a port city on the shores of Lake Victoria traditionally relied on fishing and agricultural industries, however fishing production and linked exports have declined significantly in recent years. Mwanza airport has scheduled flights from regional (international) destinations and tourist traffic for the Serengeti National Park.

A prior study by Sir Frederick Snow and Partners Ltd identified Arusha as a 'high-priority commercial airport requiring immediate improvement'. At the time of the FS publication, a 500m-long runway extension, cargo facility, dedicated cargo apron, and new ATC tower were being constructed at Mwanza.

Design Services

Previous studies, development plans) and traffic figures were reviewed for each airport. A market analysis exercise was undertaken to identify future traffic 'drivers' with development plans (short, medium and long-term) proposed for each airport to align with these forecasts. The feasibility study for Mwanza also focussed on the rationalisation and completeness of the projects which were underway at the airport, e.g. the specific driver/s for the cargo apron development and the aircraft used in the cargo apron's sizing; event,

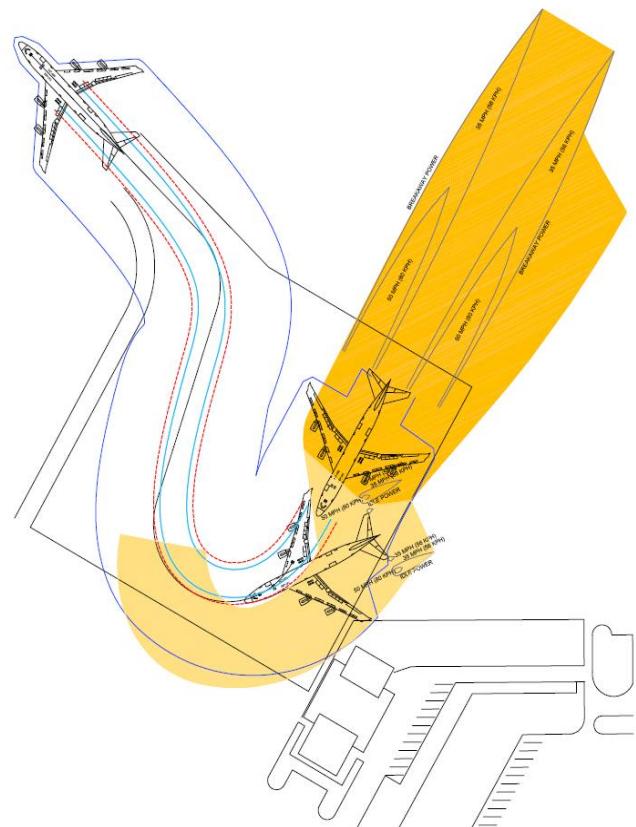


or aircraft which triggered the runway extension project at Mwanza; proposed terminal building sizing validation etc.

A financial model was developed to convert forecasted traffic movements (realistic, conservative and optimistic growth scenarios) and the proposed development plans into financial terms, and to evaluate the financial feasibility of each airport.

The Result

Significant upgrades were identified for Arusha airport in order for the airport to operate efficiently and accommodate future traffic, e.g. a larger aircraft apron to alleviate overcrowding and dedicated passenger terminal facility. Mwanza required a new terminal facility to accommodate peak passenger traffic as part of the short term development plan. In both cases the financial analysis revealed that a capital expenditure program could not be supported from normal operational revenues.



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