AIRPORT INFRASTRUCTURE
Its Decentralized Growth

by

KANG FONG ING
HT00-4019E

Submitted to Department of Architecture
on December 14, 2001 in Partial Fulfillment of the
Requirements for the Degree of
Master of Architecture

Abstract

This paper studies the development of airports and whether there is a future complimentary way to the current development that benefits the end user. The study will consider the trend and evolution from the past and present to indicate what this future complimentary way of development might be. This development will guide the infrastructure of airports to a direction where it keeps with the demand from the growing rate of air travel. The parameters of the study will be the region of South East Asia, with regards to Singapore and the target end user will be the business traveler.

Chapter 1.0 introduces the significance of air travel today and its supporting infrastructure, the airport. A hypothesis on airport development is introduced as a challenge to the assumption of today.

Chapter 2.0 presents issues that concern business travelers. These are the government regulations, business flights and aircraft capabilities that will affect or supply the demand of business travelers.

Chapter 3.0 studies the evolution of air travel and airports to guide the forecast that leads to the hypothesis. It includes a study of airport evolution in relation to air travel patterns’ changes. In this chapter, history is used as a prediction tool on how far we can foresee the future.

Chapter 4.0 is a trend analysis of relevant issues that may be applied to the development of airports. Such analysis serves as a directional tool on the forecast that has so far been extracted from the evolution study in Chapter 3.0

Chapter 5.0 studies the relevance of the hypothesis to the Singapore context and how it can help the development of airports here.

Chapter 6.0 concludes the paper.

Dissertation Supervisor: Hans Brouwer
Title: Adjunct Senior Fellow