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The Impacts of Civil Airport layout to Yunnan Local Tourism Industry

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Abstract

Under the new-type urbanization background, the rich tourism resources and the relatively well-developed civil aviation airport system make the civil aviation to overcome the time and space barrier, and promote the development of Yunnan's tourism urbanization. The tourism value of scenic resources and on air transport high accessibility, attracting more tourists, tourism related industry and practitioners, facilities, capital in tourism destination aggregation, forming urban tourism economy of scale and increasing marginal benefit, to promote the development of "Enclave cities and towns". In the empirical study of Yunnan, based on correlation analysis, coupled coordination degree analysis, GIS spatial analysis method, it is found that civil aviation and the development of Yunnan tourism and urban development are highly positive correlation. By the local airport hub and spoke system structure and non-balanced spatial distribution characteristics influence, it formed three-level tourism town system in Yunnan. Finally the paper proposed suggestions on coordinating the development of aviation and tourism industry.

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Keywords: Civil aviation, Tourism, Accessibility, Hub and spoke, Enclave cities and towns;

1. Introduction

Tourism now has played an important role for the economic development. According to the World Tourism Council (WTTC) statistics, the tourism revenue in 2013 accounted for 9% of global GDP, creating a global 9% jobs. The World Tourism Organization (UNWTO) statistics shows that the tourism industry can affect the development of the...
110 related industries, $1 increasing in value of tourism can bring to $4.3 wealth for the community. Every time tourism industry increase 10 percentage, will promote the growth of 0.8 percentage of GDP. Tourism development in China has great potential. In 2012, the total number of inbound tourists were 132,405,300 passengers, ranked third in the world. Tourism foreign exchange revenue were $50,028,000,000, ranked fourth in the world.

Fig. 1. Year2006-2013 contribution of tourism and travel to the global GDP

Fig. 2. Year 2012 part of the global country's inbound overnight tourists and the tourism revenue

Yunnan is a big tourism province which located in the southwest of China, with total population of 4,596 million in 2010, and a total territorial area of about 394,000 square kilometers, where plain area only accounts for about 6% of the Territorial area, while mountainous area accounts for about 94%. Thanks for the mountainous geography Yunnan has a good natural environment and rich tourism resources. However the development of tourism can’t be separated from the support of convenient traffic conditions. Being an inland province, the development of tourism in Yunnan has faced long-term constraints due to the poor ground transportation condition. Meanwhile Yunnan civil aviation in China has a long history. It founded in 1922, the Wujiaba Airport in Kunming is the second airport in China. During World War II, Yunnan built totally 55 military airports as the main Hump route bases for Chennault's Flying Tigers. By 2014, Yunnan have total of 12 civil aviation airports, including 1 hub airport, 2 medium airports, 9 regional airports. Airport density is 3.0/100,000 km², significantly higher than the national level of 1.9/100,000 km². It roughly formed a hub-spoke airport system. Kunming Changshui International Airport locates in the international route A599, A581, G212 intersection point, in 2014, the opening of 367 routes, including 50 international routes. Navigable City 137, in which the international navigable City 34, is the shortest route from Chinese eastern city to South Asia, West Asia, Europe. Yunnan civil aviation passenger volume growth in the first place in the country for many years. In 2014 air passengers arrived more than 40,000,000, ranked fourth in the China and first in the Chinese western provinces. While Kunming airport passenger throughput was over 30,000,000 passengers, ranked seventh in China. It formed a network with Kunming airport as the core, 400 km radius of the regional distribution of regional airports, the airport density of the western region of Yunnan province is higher, and more than 95% of the province's air travel is from Kunming airport to this area.

Fig. 3. Airport routes and passenger volume distribution in Yunnan Province in the year 2012

The reform of airport localization in 1994 promoted the integration of aviation industry and local tourism development. With the operation of Kunming Changshui International Airport in 2012 and continuous upgrading of other branch airports, Yunnan has established a relatively well developed "hub–spoke" civil aviation airport system which has great advantage and potential for the development of local tourism. This paper is attempted to discuss the relationship between airport layout and the development of Yunnan tourism.

2. Literature review
2.1. The relationship between civil aviation and tourism development
Lewis Mumford (1946) believes that garden city with airplane is the two great inventions during human civilization from the 19th century to the 20th century forward. Kasarda (1991) proposed the economic development "fifth wave theory". He believes that the aviation industry in twenty-first Century following hundreds years of the sea, canals and waterways, railways, highways, is becoming the fifth wave of global urban and economic development. Airport will

3. Hub spoke model refers to the radiation of each site through the hub, make the whole system more efficient transportation. The concept of the first by the United States Delta (Delta Air Lines Inc.) in 1955 founded. In the 70s of the 20th century by Federal Express (FedEx) carry forward
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