## 出國報告(出國類別:其他)

## 出席第16屆「亞洲航線發展論壇 (Routes Asia 2018)」報告書

服務機關:桃園國際機場股份有限公司

姓名職稱:丁源宏 副處長

楊雅筑 業務員

派赴國家:澳洲 布里斯本

出國期間: 民國 107 年 3 月 16 日至 3 月 22 日

報告日期:民國107年6月12日

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#### 公務出國報告提要

出國目的:出席第 16 屆亞洲航線發展論壇(Routes Asia 2018)

主辦單位: UBM Information 公司

出國人員姓名:丁源宏、楊雅筑

服務機關: 桃園國際機場股份有限公司

職稱:副處長、業務員

出國類別:5.其他(參加國際會議)

**出國期間**: 民國 107 年 3 月 16 日至 3 月 22 日

分類號:目:

**關鍵字:**航線、航線發展論壇、航線發展策略、時間帶、Routes

#### 内容摘要:

本公司於 107 年 3 月 16 日至 3 月 22 日期間出席由英國 UBM 公司與布里斯本機場公司 (Brisbane Airport Corporation)、布里斯本行銷 (Brisbane Marketing)、昆士蘭州旅遊及活動推廣局(Tourism & Events Queensland)及澳洲觀光局 (Tourism Australia)主辦之第 16 屆亞洲航線發展論壇(Routes Asia 2018)。此次會議舉辦地點為澳洲布里斯本,近幾屆亞洲航線發展論壇,本公司均派員與會,主要為與目標航空公司或國際機場公司代表討論具備開航潛力之航線市場或交流管理機場行銷建設計畫。

透過與航空公司及機場公司代表的會談,歸納出航空公司主要關心的議題包括現有航約航班容量或未來增約可能性、市場運量預測及未來發展、是否提供獎勵計畫、機場設施容量現況及中長程發展規劃。本公司將持續與航空公司保持聯繫且提供機場重大計畫之進展和商業案例,以供航空公司評估開發新航點之參考。

#### 壹、目的

亞洲航線發展論壇為由英國 UBM Information 公司所舉辦之年度區域航空商業重要活動,本公司於 107年3月16日至3月22日期間出席第16屆亞洲航線發展論壇(Routes Asia 2018),此次會議舉辦地點為澳洲布里斯本,看好亞太地區航空市場的需求成長潛力,該論壇邀集眾多航空公司、機場公司管理代表、觀光旅遊業者與相關領域專家學者與會,提供一個拓展航線與促進網絡的多方交流平台。

本公司延續 106 年的航線發展策略,以發展成為東南亞-東北亞、東南亞-北美、大洋洲-歐洲間之樞紐地位為目標,並以航線發展研究計畫顧問團隊所進行的航線市場發展分析以及商業個案為基礎,分別針對參與會談的目標航空公司,提供目標航線市場現況、運量分析、運量預測、營運成本及三年獲利預測等資訊,以做為評估開發飛往桃園機場航線的決策輔助。

本公司在與航空公司及機場公司的會談,以及接受媒體採訪的過程中,主動 更新桃園機場目前正在進行之重大計畫最新進度,包含第二航廈擴建、第三航廈 已經進入細部設計階段且預定於 2020 年完工以及第三跑道的規劃;另外亦闡述 桃園機場近五年的航網拓展成果及未來的發展目標。2017 年桃園機場以 6.11%的 旅客成長率、逾 4,488 萬旅客人次體驗,在全球機場中獲得亮眼佳績。

隨著亞洲地區一、二線城市航空需求的蓬勃發展,及配合政府新南向政策的 推動,除了持續強化桃園機場在長程航線網絡的布局外,在此次論壇中亦積極與 各東南亞及紐、澳航空業者進行會談。

與鄰近機場相比,本機場的航空相關收費費率較具競爭力,希望藉此優勢, 說服外籍航空業者將桃園機場納入近期或未來拓展亞洲市場的選擇之一。近幾年 越來越多國際機場祭出獎勵計畫以吸引航空公司開闢新航線,而航空業者亦將此 視為評估開航的重要因素之一。為使桃園機場更具競爭力,本公司正著手擬定更 具彈性的收費方式,隨著新費率的啟用,期望會有更多航空業者對於開航桃園機 場更感興趣。

HOW WE HELP

NEWS > NETWORKS > AIRPORTS > TAIPEI TAOYUAN EYES MORE SE ASIA AND

### Taipei Taoyuan eyes more SE Asia and long-haul links

21 MARCH, 2018 | SOURCE: FLIGHT DASHBOARD | BY: ELLIS TAYLOR | BRISBANE

Taipei Taoyuan International airport is looking to open up new connections to secondary cities in Southeast Asia as it continues to focus on connecting passengers through to North America.

"For now, we want to see more second tier cities in the Asian market." explains senior manager business planning and marketing Ting Yuanhung.

These include cities such as Surabaya in Indonesia, which Ting says is its largest unserved market. Other cities in Malaysia and Thailand are also high on the agenda, as are links to more cities in India.

On the long-haul front, the airport has been pleased to welcome the return of United Airlines' services to San Francisco, and is hopeful that more US carriers will follow suit.

Other recent wins include Air France returning to Taipei from Paris Charles de Gaulle, while Air New Zealand will return in November, operating five weekly nonstop services to Auckland.

Ting says the airport would also like to host more European carriers, with more non-stop services to London seen as "the biggest potential underserved market for us."

China Airlines started services to London Gatwick in December 2017 following a five-year absence, while EVA Air also flies to London Heathrow via Bangkok.

Ting acknowledges however that European services are complicated by overflight issues through Russian and Chinese airspace, which make flightpaths longer and thus impact the viability of non-stop services in particular.

In terms of facilities, the airport has a third terminal under construction that is set to be finished in 2020, which will take its handling capacity to 45 million passengers per annum.

Taoyuan is also planning to build a third parallel runway, targeted to open in 2025.

→FlightGlobal 於大會期間採訪本公司企劃暨行銷處丁副處長源宏

## 貳、過程及會談紀要

## 一、論壇行程

Saturday 17 March	h
12:00 - 15:00	Badge Collection  Location: Brisbane Convention and Exhibition Centre
All day	Complimentary Tours
Sunday 18 March	
12:30 - 17:15	Registration, Diary Advice and Networking Area Open
14:00 - 15:35	Face-to-Face Meetings Location: Airline Meeting Hall
14:00 - 16:50	Routes Asia Conference Programme
15:35 - 16.05	Refreshment Break Location: Networking Area
16:05 - 17:15	Face-to-Face Meetings Location: Airline Meeting Hall
17:30 - 19:30	Welcome Reception  Location: South Bank next to the Brisbane sign
Monday 19 March	
07:30	Registration, Diary Advice and Networking Area Open
08:30 - 10:55	Face-to-Face Meetings Location: Airline Meeting Hall
08:55 - 16:50	Routes Asia Conference Programme
10:55 - 11:25	Refreshment Break Location: Networking Area

11:25 - 12:35	Face-to-Face Meetings Location: Airline Meeting Hall							
12:35 - 14:00	Networking Lunch							
14:00 - 14:45	Face-to-Face Meetings Location: Airline Meeting Hall							
14:50 - 15:35	Fast Track Location: Airline Meeting Hall							
15:35 - 16:05	Refreshment Break Location: Networking Area							
16:05 - 17:40	Face-to-Face Meetings Location: Airline Meeting Hall							
19:00 - 23:30	Networking Evening and Routes Asia 2018 Marketing Awards							
Tuesday 20 March								
08:00	Registration, Diary Advice and Networking Area Open							
08:30 - 10:55	Face-to-Face Meetings Location: Airline Meeting Hall							
09:45 - 12:00	Routes Asia Conference Programme							
10:55 - 11:25	Refreshment Break Location: Networking Area							
11:25 - 12:35	Face-to-Face Meetings Location: Airline Meeting Hall							
12:35 - 14:00	Lunch hosted by Routes Asia 2019 Host and Handover Ceremony							
14:00 - 15:35	Face-to-Face Meetings Location: Airline Meeting Hall							
15:35 - 16:05	Refreshment Break Location: Networking Area							
16:05 - 17:15	Face-to-Face Meetings Location: Airline Meeting Hall							
17:40	Event Closes							

## 二、本公司會談配對時間表

	Yuan-Hung Ting	Meeting Hall	View Profile	Table 2	Meeting Hall	View Profile	Yuan-Hung Ting	Meeting Hall	View Profile	Yuan-Hung Ting	Diary Advice Desk	View Profile	Yuan-Hung Ting	Meeting Hall	View Profile	Yuan-Hung Ting	Meeting Hall	View Profile			Table 1	Meeting Hall	View Profile
Chubu Centrair Intl Airport(NGO) - Taoyuan Intl Airport	Requested By:	Venue:	Malaysia Airlines	Requested By:	Venue:	Vietnam Airlines	Requested By:	Venue:	IndiGo	Requested By:	Venue:	Mumbai International Airport Pvt Ltd	Requested By:	Venue:	Philippine Airlines	Requested By:	Venue:	Qatar Airways	Incheon intl Airport - Taoyuan intl Airport	Sendai Intl Airport Co., Ltd Taoyuan Intl Airport	Requested By:	Venue:	Lufthansa Group
08:30 - 08:50 20 Minutes	09:45 -	10:05 20 Minutes		10:10 -	10:30 20 Minutes		10:35 -	10:55 20 Minutes		10:55 -	11:25 20 Minutes		11:25 -	11:45 20 Minutes		12:15 -	12:35 20 Minutes		14:00 - 14:20 20 Minutes	16:05 - 16:25 20 Minutes	17:20 -	17:40 20 Minutes	

V14 Routes	
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Tuesday 20 Mar 2018	Mar 2018	08:30 - 17:15	50 M
Meetings		/\ Meeting times to be confirmed	
08:30 -	Requested By:	Yuan-Hung Ting	15:15
20 Minutes	Venue:	Meeting Hall	20 M
	Bangkok Airways	View Profile	
08:55 -	Requested By:	Table 1	15:36
09:15 20 Minutes	Venue:	Meeting Hall	20 M
	StarFlyer	View Profile	16:01
09:20 -	Requested By:		20 M
09:40 20 Minutes	Venue:	Meeting Hall	
	Yakutia Airlines	View Profile	16:51
09:45 -	Requested By:	Table 2	20 N
10:05 20 Minutes	Venue:	Meeting Hall	
	Jetstar Group	View Profile	Ö
10:10 -	Requested By:	Table 1	Mess
10:30 20 Minutes	Venue:	Meeting Hall	
	Thai AirAsia	View Profile	
10:35 - 10:55 20 Minutes	Cambodia Airports / VINCI Airports - Taoyuan Intl Airport	+	
11:25 - 11:45 20 Minutes	Brussels Airport - Taoyuan Intl Airport		
12:15 - 12:35 20 Minutes	Kansai Airports/VINCi Airports - Taoyuan Intl Airport		BRISBAN
14:00 -	Requested By:	Table 1	
14:20 20 Minutes	Venue:	Meeting Hall	
	British Airways	View Profile	
14:25 -	Requested By:	Yuan-Hung Ting	

Meeting Hall Yuan-Hung Ting Meeting Hall Meeting Hall Incentives View Profile Narita Intl Airport Corporation - Taoyuan Intl Airport Routes Rome FCO Airport - Taoyuan Intl Airport Air New Zealand Requested By: Requested By: AirAsia Group Venue: Vanilla Air Minutes Venue: Venue: 6:55 -7:15 0 Minutes 5:15 -5:35 0 Minutes 5:35 -5:05 0 Minutes 6:05 -6:25 0 Minutes

# ontact Routes

ssage to Routes





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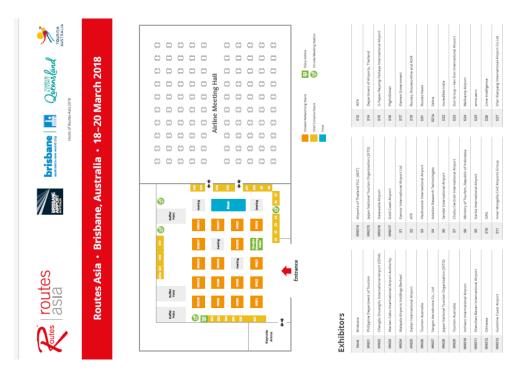
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#### 三、展區配置及參展單位

本次論壇共有超過 100 間航空公司、200 間機場公司代表以及約 30 間觀光 旅遊業者與會,且超過 800 名航空專業人士出席。會議進行方式為機場公司及航空公司提出會談需求,再經由主辦單位配對會談時間,雙方可於會談桌進行 20分鐘的一對一的面對面討論,本次會議共進行 2000 場一對一會談。此外,現場參展單位除了吉隆坡機場、宿霧機場、紐卡索機場、緬甸機場、仁川機場、泰國機場公司等機場管理單位外,亦有菲律賓觀光部、沖繩觀光局、日本觀光局、澳洲觀光局等觀光發展單位,亦有民航運輸發展、航線網絡研究或航空數據資料庫之業者,例如 Sabre、IATA、OAG、ASM、Flightglobal、anna aero等出席與會。



→論壇展場入□



→展區配置及參展單位

#### 四、特色機場主題展區



+主辦單位展區:澳洲觀光局



→主辦單位展區:澳洲布里斯本知名景點宣傳



+主辦單位展區:澳洲布里斯本機場



→参展單位攤位:韓國仁川機場,與 LINE 聯名推廣。



+參展單位攤位:澳洲陽光海岸機場



→參展單位攤位:日本觀光局與多間日本機場聯合攤位



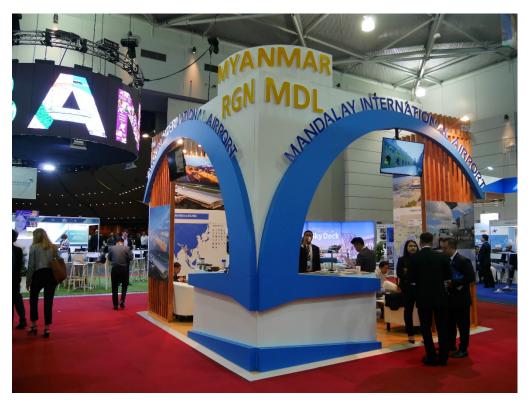
+ 參展單位攤位:日本沖繩觀光局



→參展單位攤位:澳洲紐卡索機場



+參展單位攤位:馬來西亞吉隆坡機場



**→**參展單位攤位:緬甸機場聯合攤位



**→**參展單位攤位:菲律賓觀光部



+參展單位攤位:泰國機場公司



→下屆 Routes Asia 主辦單位攤位:菲律賓宿霧機場



→本公司宣傳廣告旗幟

#### 五、會談紀要

本公司與會人員針對參與會談的航空公司與機場公司,除介紹臺灣知名觀光 景點特色、強調出國旅遊及來台觀光人數逐年成長趨勢,提供桃園機場客運量統 計與各區域運量消長分析,並提供機場現況及中、長期規劃發展;另外亦與國外 航線專業顧問合作,針對桃園機場目前缺口市場及目標航空公司製作航線商業個 案分析簡報,提供目標航空公司在評估開航時的決策參考資料。

關於桃園機場現況及未來發展,介紹概述如下:

- 1. 近年桃園機場各項重大計畫陸續展開,我們主動於會談中說明機場各項計畫 最新狀況,第二航廈擴建計畫預計今年年底前全部完工;第三航廈已經進入細部 設計階段,預計於 2020 年完成航廈主體工程。
- 2. 2017年桃園機場的旅客總人次超過4,480萬,成長率為6.11%。主要運量成

長由東南亞地區 16.3%、北美地區 13.8%及歐洲及中東區地區 30.5%的成長率帶動。在新闢航點方面,2017年加拿大航空復飛台北-溫哥華及中華航空開航台北-倫敦蓋威克;2018年則有中華航空開航台北-安大略、法國航空復飛台北-巴黎、長榮航空開航台北-清邁及紐西蘭航空將於 11 月復飛台北-奧克蘭。

此次與本公司進行會談的航空公司有 17 家、機場管理單位 10 家,分別為亞洲航空、挪威航空、馬來西亞航空、越南航空、靛藍航空、菲律賓航空、曼谷航空、漢莎航空、星悅航空、Yakutia 航空、捷星航空、泰國亞洲航空、英國航空、紐西蘭航空、香草航空、卡達航空、春秋航空、樟宜機場、達拉斯福沃斯機場、阿姆斯特丹史基浦機場、名古屋中部機場、仁川機場、仙台機場、吳哥窟機場、布魯塞爾機場、羅馬機場、東京成田機場。

#### 會談重點歸納如下:

- (1)台灣經濟發展簡介
- (2)臺灣觀光旅遊發展及國人出國旅遊成長趨勢
- (3)桃園機場近五年運量數據及各區域運量成長
- (4)分析目標航線市場並提供3年運量及獲利預測分析
- (5)提供桃園機場最新營運資訊與未來建設計畫進程
- (6)與會談航空公司及機場代表交流航空產業訊息,如機隊規劃、航線布局 及機場重大建設計畫等。

#### 會談照片

會談照片	
會談對象	照片
樟宜機場	
Changi	
Airport	30
亞洲航空集團	
AirAsia	
Group	
阿姆斯特丹機	
場	
Amsterdam	
Airport	
Schiphol	70

挪威人航空 Norwegian



名古屋中部

機場

Nagoya

Centrair

Airport

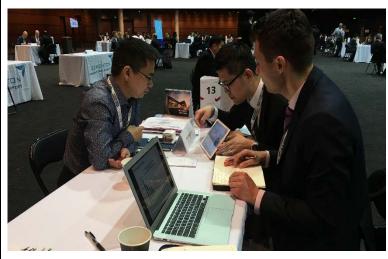


馬來西亞航空 Malaysia

Airlines



越南航空 Vietnam Airlines



靛藍航空 Indigo



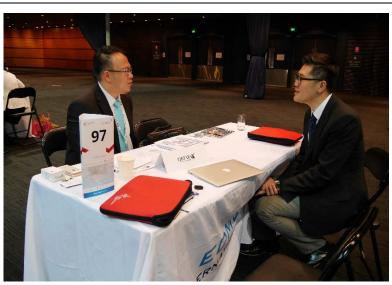
菲律賓航空 Philippines Airlines



仁川機場 Incheon Airport



卡達航空 Qatar Airways



仙台機場 Sendai Airport



漢莎航空 Lufthansa



星悅航空 Starflyer



泰國亞洲航空 Thai AirAsia



吳哥窟機場 Siem Reap-Angkor Airport



布魯塞爾機場 Brussels Airport



英國航空 British Airways



紐西蘭航空 Air New Zealand



關西機場 Kansai Airport



#### 參、心得與建議

#### 一、會談成果

本次會談與17家來自全球各地之航空公司代表進行會談,及10家國際機場代表進行交流。部分目前已在桃園機場營運的航空公司,表示有增開新航點或是增班之規劃;尚未開航的航空公司普遍認為臺灣航空市場尚未完全飽和,長程航線之發展具備高度發展潛力,將持續關注市場發展情況;另部分航空公司已將桃園機場列入其主要評估開航名單中,惟仍有航權、領空飛渡權或機隊規劃等相關議題待解決。與個別航空公司或機場代表會談紀錄因涉及各公司航網及機隊規劃,無法列入本報告中,已於本公司內部另行陳報。

#### 二、議題彙整

- (1) 航權航約類:歐洲航空業者主要受限於俄羅斯領空飛渡權的次數限制, 導致其在亞洲區域的發展備受侷限;另外台灣目前與部分歐洲及中東地 區國家尚未簽屬航約,或所簽屬之航約有航點及航班數量之限制,部分 航空業者表示,希望雙方民航局能盡快展開協商。
- (2) 市場運量預測:本公司委託國際航線顧問團隊針對桃園機場航網缺口市場,開發具發展潛力之航點與目標航空公司,再利用 QSI 模型模擬及預測各目標航線 3 年客運量及獲利數字,提供航空公司內部評估開航使用。航空業者代表對此作法均持正面評價,希望本公司可持續提供相關數據。
- (3) 獎勵計畫:本公司目前提供之方案分為兩類,一為降落費補助,一為 行銷露出補助。補助對象為新進駐航空公司或新開航定期航線之航空

公司,補助期間為一年。為提升國際競爭力,並有效吸引各國際航空公司開航桃園機場或新航點,將參考各國際標竿機場作法,定期調整方案內容與期間,以達到最大效益。

(4) 時間帶容量及過夜機坪:目前桃園機場尖峰時段的時間帶多已達上限, 為有效紓緩尖峰時段航廈設施容量不足問題,本公司鼓勵航空業者使用 紅眼時段,並提供降落費折扣優惠;針對過夜機坪不足之問題,本公司 鼓勵航空業者縮短地停時間,同時獎勵計畫亦配合祭出於紅眼時段提供 空橋使用費折扣優惠。

#### 三、建議事項

桃園機場目前約有9成運量來自亞洲地區,為讓航網組成更加多元,且不過度依賴單一區域運量消長變化,應持續與各國際航空業者建立及維持聯繫管道順暢,留意其機隊規劃、航網布局及營運狀況,且持續更新本公司重大計畫進度,以利未來開發新航線機會。

因航空業者進行內部開航評估時,多有大量運量資料需求,本公司除了與國外航線顧問團隊合作外,建議可針對自身需求採購國際客運資料庫,以開發更多潛力市場,強化及擴大桃園機場航線網絡。

在與航空公司一對一會談中,多間航空公司提及本公司所推出之新航點激勵 方案的優惠幅度及期間,與其他機場相比仍有調整空間,然因激勵方案的施行需 考慮本公司之財務狀況,建議可整合相關單位意見,並將航空公司意見納入考量 後,進行檢討與調整。

#### 肆、附錄

檢附本屆會議主要設定之目標航線簡報(IndiGo「孟買-桃園」及長榮航空-「慕尼黑-桃園」)。





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## Why Munich?

EVA Air is a leading **5 star** airline that is well placed to exploit the Munich market

- MUC is ideally located as a transfer hub for EVA Air service
  - to Western and Eastern Europe
- Substantial indirect demand beyond Munich from Taipei to Europe 775,300
- Substantial demand beyond Taipei from Munich to SE/NE Asia 763,200
- **66,000 Germans** visit Taiwan annually and **96,000 Taiwanese** visit Germany
- Established and strong Munich-Taiwan links
  - trade & investment, technology, research & development, tourism and education
- Germany is Taiwan's #1 European trading partner and #2 foreign investor
- 250 German companies have activities in Taiwan
- Both Munich and Taipei are global Tech Cities
- TPE Award winning airport customer service and range of facilities
- High volume and premium market between Taipei and Europe









# Opportunity for Eva Air Summary of Route Forecast



Connecting market potential beyond Munich

1,547,900

Munich

Point to point market

33,400

Connecting market potential beyond **Taipei** 

1,133,800

Schedule: B787-9

Sector	Dep. Time	Arr. Time	Op. Days	Aircraft	Seats	Annual Seats	Annual Pax	Seat Factor
TPE-MUC	23:00	05:35	1 345	B787-9	270	112720	97,990	07 20/
MUC-TPE	09:35	05:10	2 456	B787-9	270	112,320	97,990	87.2%

Note: AviaSolutions analysis. Source for aircraft configuration is EVA Air's website

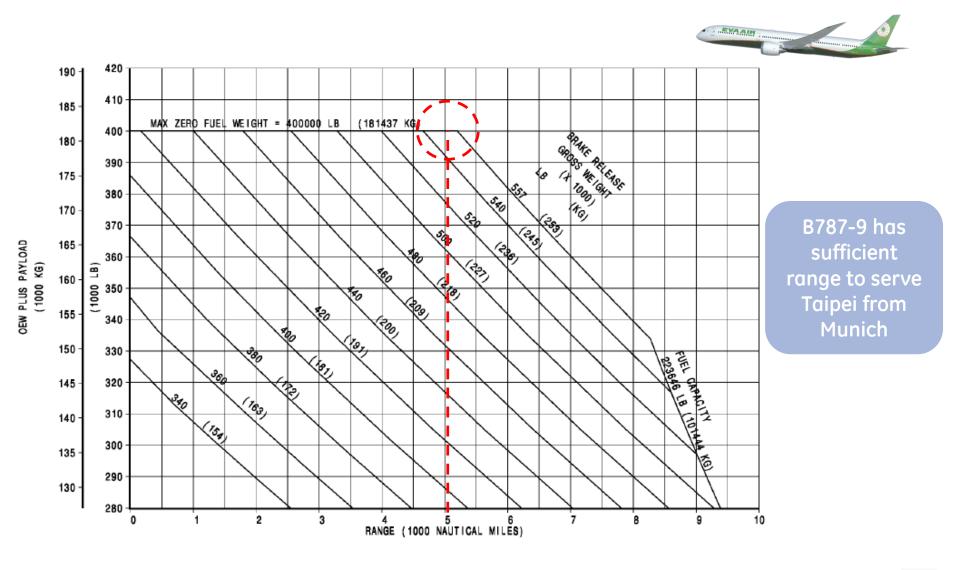


Taipei

## **B787-9 Performance**

B787-9 range allows a direct connection between MUC-TPE







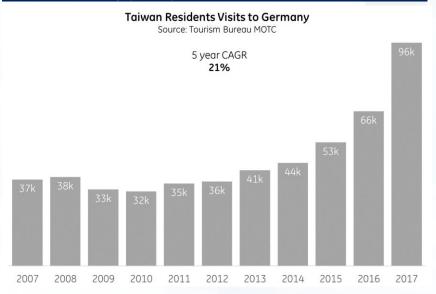
## **Market Fundamentals**

Established Business and Tourism Market for EVA Air to Serve

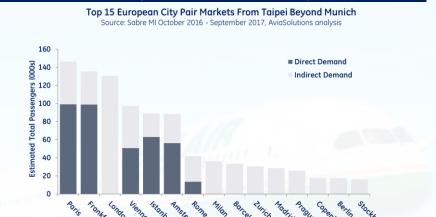
#### **Demand and Trends**

- Connecting demand beyond MUC Europe: 775,300
- High volume and premium market between Taipei and Western Europe / North America
- High average one-way net business fares of \$1,714
- Strong fit with BR premium customers

#### **Increasingly Popular Tourist Destination**



### Strong Demand to Europe



#### **Established Germany-Taiwan Links**

- US\$14.5bn bilateral trade (2016)
- Germany is Taiwan's #1 European trading partner
- More than 230 German businesses have activities in Taiwan
- Over **1,600** German citizens live in Taiwan
- 96,000 Taiwanese visit Germany (2017)
- Taiwan-Germany long-term cooperation agreement on productivity to assist Taiwan manufacturing industry with German expertise

# Munich and Bavaria are Leading Tourism Destinations



Increasing numbers of visitors every year from around the globe come to Munich for its museums, beer halls, shopping, castles and dramatic scenery

Numerous festivals throughout the year, including **Oktoberfest** and the **Munich Film Festival**. **58** theatres and **90** cinemas.

**#4 city worldwide for quality of life**Mercer Quality of Living Ranking, 2016

**#7 Global City**AT Kearney's Global Cities, 2017

**#1 airport in Europe - Munich Airport**Skytrax, 2017





# **Entertainment, Shopping and Sightseeing**







# **Established Links With Germany**

Taiwan and Germany enjoy frequent and close exchange in trade and investment, technology, culture, tourism and education



## Public and Private Bodies Facilitate Bilateral Relations

**Taiwan External Trade Development Council** (TAITRA) is the main non-profit trade promotion organisation in Taiwan. Jointly sponsored by the government, industry associations and commercial organisations – with an active **Munich office** 



Other German institutions in Taiwan are **the Goethe Institute Taipei**, the **German Trade Office Taipei** run by the Association of German Chambers of Industry and Commerce (DIHT) and a **Germany Trade & Invest** office







Deutsches Wirtschaftsbüro German Trade Office Taipei 徳 國 經 藩 軸 車 處







German interests in Taipei are managed by the **German Institute Taipei** 

Deutsches Institut Taipei 德國在台協會

German companies are active in virtually all sectors in Taiwan

Taiwan is highly interested in Germany's evolving energy policy and the accompanying development of green technologies

**5,400** secondary school students learning German in Taiwan, making German #4 foreign language taught after English, Japanese and French

**German courses** are offered at many universities and private language schools including the Goethe Institute Taipei

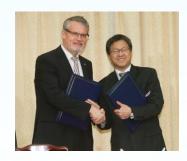
A Taiwan-Germany working holiday program was inaugurated in 2010 – promoting international exchange and developing Taiwan's tourism industry by granting visas without the need for work permits

# Taiwan is an Important Research Hub for German Firms

**February 2018** – German utility firm **EnBW** acquired stakes in three offshore wind projects in Taiwan, its first outside Europe







December 2016 – a major **Taiwan- Germany agreement** was signed– **The Joint Declaration of Intent on Cooperation in the Field of Energy Transition** – focussing on renewable and green energy initiatives

The world's largest supplier of automotive components,
Robert Bosch GmbH, currently has four business
operations in Taiwan, including Robert Bosch Taiwan Co.
Ltd., Bosch Rexroth Co. Ltd., Unipoint Electric MFG. Co. Ltd.,
and BSH Home Appliances Private Ltd
Over 1 000 employees in Taiwan

BOSCH

Over **1,000** employees in Taiwan

Taiwan is one of only three countries worldwide where **Manz Group** (Germany) is pursuing R&D activities;

 Manz acquired Taiwan's Intech in 2008 for US\$55.8m







In 2012, Germany's **Evonik Industries**, a global leader in specialty chemicals, opened its **first Advanced Project House** "Light & Electronics" at one of **Taiwan's leading research institutes** – the Industrial

Technology and Research Institute in Hsinchu



German pharmaceutical and chemical company

Merck, a leader in the field of performance materials

with more than 2,500 patents, opened its New

Business R&D and Application Lab in Taiwan in 2013



2016 - Germany's **Linde Group**, the world's largest industrial gas supplier by market share, invested more than **US\$5.5m** in a **new research facility located in Taiwan** 

# **Growing Cooperation Between Germany/Taiwan**

**January 2017** – Germany government officials held industry talks in Taiwan

Discussed **bilateral green energy** and **industry 4.0 cooperation**, as well as various other related issues



ROC Deputy Minister of Economic Affairs received Dr. Eckhard Franz, director-general for Extended Economic Policy at the German Federal Ministry for Economic Affairs and Energy (12 January, 2017)

Taiwan has the **world's highest density cluster of machine tool industries** concentrated along the Dadu Plateau, christened the 'Golden Valley'

The region has over 1,000 precision machinery manufacturers and over 10,000 downstream suppliers

3,00,000 jobs creating \$3bn revenue

Car components for several **German** manufacturers are made here

The Industrial Development Bureau (IDB) under the Ministry of Economic Affairs will establish a long-term cooperation between Germany and Taiwan to assist Taiwanese companies embracing Productivity 4.0

The **Taiwan-Germany Productivity/Industry 4.0 Forum** was held in NTUH International Convention Centre in 2016

Major German corporations were invited to collaborate with Taiwanese companies, developing relationships between Germany and Taiwan's leading precision manufacturing industries

September 2015 – the ROC Ministry of Education and the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany signed a letter of intent on increasing cooperation in education

October 2015 – the ROC Food and Drug Administration signed a joint declaration with the German Federal Institute for Drugs and Medical Devices to enhance bilateral cooperation involving drugs and medical equipment

March 2016 – Germany / Taiwan governments agreed to expand each side's annual quota for the bilateral youth working holiday program from 300 to 500 persons

September 2016 – Germany / Taiwan governments signed a letter of intent enhancing bilateral cooperation in high tech-related fields

## Munich, Bavaria – Biotech and Pharma Cluster



- Innovations- und Gründerzentrum
- Max-Planck-Institut für Biochemie
- Max-Planck-Institut für Neurobiologie
- Biozentrum der LMU
- Universitätsklinikum Großhadern, LMU
- Departments für Chemie und Pharmazie der LMU
- 7 ZNS-Forschungszentrum
- Hämatologikum, Helmholtz Zentrum München
- Institut für Neuropathologie
- Genzentrum, LMU
- Biomedizinisches Zentrum, geplant 2014
- Forschungzentrum Demenz, geplant
- Biotech-Unternehmen

Quelle: Innovations- und Gründerzentrum Martinsried GmbH

# Shared Interests – Munich and Taipei are Tech Cities

Munich, Bavaria – A European Silicon Valley



# Taiwan Tech – The Asian Silicon Valley

Globally recognised brands contribute to a \$130bn tech sector



**Tech sector**contributes over **20%**to Taiwan's GDP

Taiwan's National
Development Fund and
Ministry of Science and
Technology are
funding \$120m
venture capital for
tech start-ups





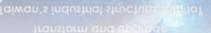


# Hsinchu Science and Industrial Park

One of the oldest tech industry parks in Asia generates **\$31bn** per year

### **Taoyuan Start-Up Hub**

Helps start-ups with existing R&D and manufacturing capabilities



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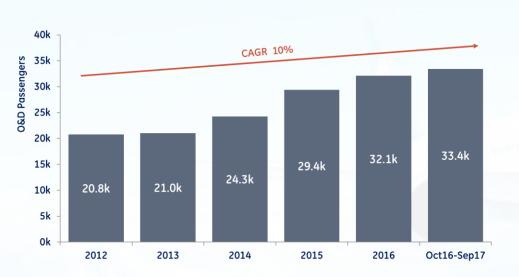




### Point to Point Traffic

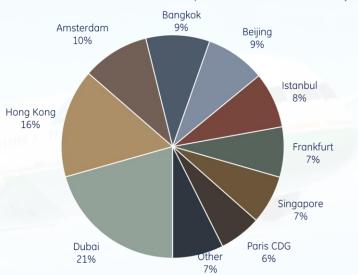
#### Munich - Taipei Point to Point Indirect Traffic 2012-2017

Source: Sabre MI 2012-September 2017, AviaSolutions analysis



## Major Connecting Points for Demand Between Munich and Taipei

Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis



Indirect traffic increased by 10.0% CAGR since

**33.4k** passengers flew indirectly between Taipei and Munich (Sabre MI data October 2016–September 2017)

Several hubs share indirect traffic connecting Taipei and Munich

**Dubai (21%)** provided the most connections followed by **Hong Kong (16%)** and **Amsterdam (10%)** 

### Point to Point Fares



Average O&D one way net fares between Taipei and Munich declined from **\$978** in 2012 to **\$631** in 2017 (Sabre MI data October 2016-September 2017)

Increased competition over hubs with lower fares has led to increased demand

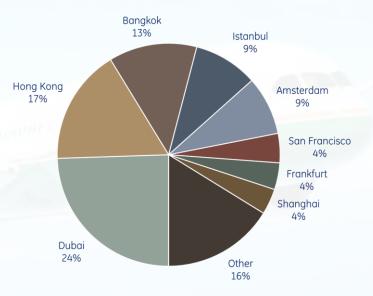
Average O&D one way net fares between Taipei and Munich show low fares in Coach (\$360) and high fares in Business (\$1,714)

## Connecting Traffic from Taipei beyond Munich

Top 15 City Pair Markets From Taipei Beyond Munich Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis 250 ■ Direct Demand Estimated Total Passengers (000s) Indirect Demand 200 150 100 Frankfurt Washington Amsterdam Condon Vienno Stanbuj Pome Milan Toronto

Taipei to Cities beyond Munich - Major Connecting Points

Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis



Largest markets from Taipei beyond Munich are New York, Paris and Frankfurt

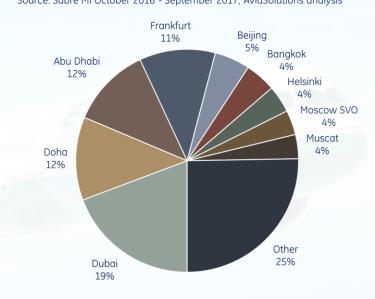
Several hubs share indirect traffic connecting Taipei with destinations beyond Munich

**Dubai (24%)** is the main connecting point followed by **Hong Kong (17%)** and **Bangkok (13%)** 

## Connecting Traffic from Munich beyond Taipei



#### Munich to Cities beyond Taipei - Major Connecting Points Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis



Largest markets from Munich beyond Taipei are **Bangkok, Tokyo** and **Tokyo** 

Several hubs share indirect traffic connecting Munich with destinations beyond Taipei

**Dubai (19%)** is the main connecting point followed by **Doha (12%)** and **Abu Dhabi (12%)** 



### **Contact**

#### Mr Tim Yuan-Hung Ting

Senior Manager Business Planning & Marketing Department
Taoyuan International Airport Corporation Ltd.
No.9, Hangzhan S. Rd., Dayuan Dist.,
Taoyuan City 33758, Taiwan R.O.C

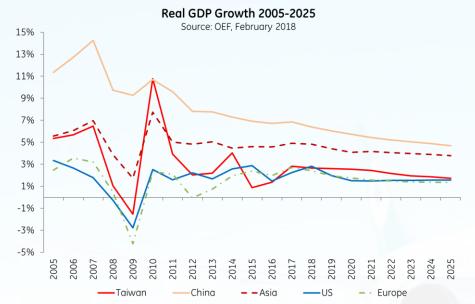
Tel: +886 3 273 5555

Email: yhting@mail.Taoyuan-airport.com

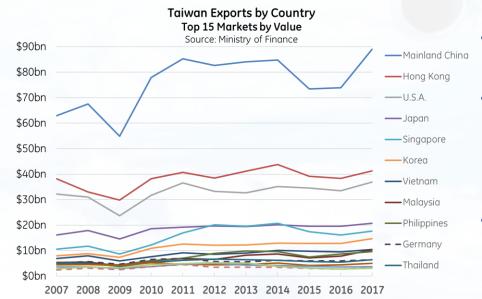




# Taiwan has a healthy economy and strong GDP growth



- The buoyant external backdrop should help maintain steady employment growth, solid levels of consumer confidence and rising wages – all supporting consumer spending.
- Economy remains on track for improved growth of 2.6% for 2018
- The outlook for Taiwan political stability for 2017-21 is good.



- Taiwan intends to become **less dependent on the Chinese market** for exports.
- Currently it exports twice as much to China than to its second-largest export market, the 6 core members of the Association of Southeast Asian Nations (ASEAN).
- Besides these economic drivers, stable political relations with China will be important for Taiwan's trade prospects, wider business confidence and tourism.

# **Expanding Tourism Market**



10.7m overseas visitors to Taiwan in 2017 (+8% 5yr CAGR)

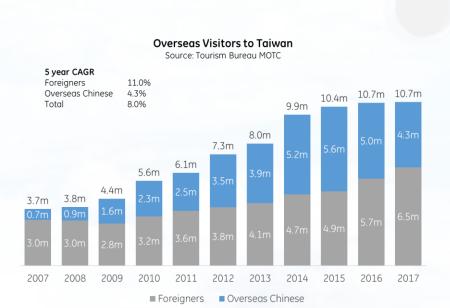
Foreign visitors to Taiwan grew +11% CAGR in the last 5 years

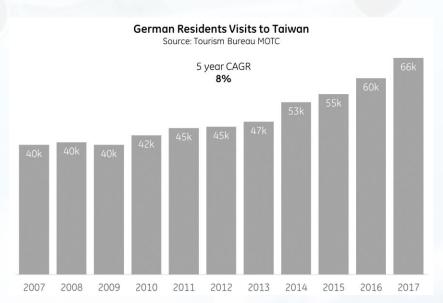
Of the top 12 countries for international tourist arrivals in North East and South East Asia, **Taiwan ranks #3 for the highest increase** in share of arrivals 2015 versus 2016 (+1.2%)

Conversely, China's share reduced from 31% to 23% over the same period

World Travel & Tourism Council forecast visitor growth to Taiwan (Foreigners + Chinese) of **4.1%** CAGR over the next 10 years

**66,000 German residents** visited Taiwan (2017), with **8%** CAGR growth over the last 5 years





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# Why Taipei?

IndiGo is a modern growing airline, well placed to serve the Taipei market

- TPE is ideally located as a point to point destination from Mumbai and a transfer hub
- Substantial connecting demand from Taipei beyond Mumbai:
  - to Europe: 209,700 India & Middle East: 83,300
- Substantial connecting demand from Mumbai beyond Taipei:
  - to N. America: **646,000** SE/NE Asia: **482,015**
- Over 35,000 Indians visit Taiwan annually and over 26,000 Taiwanese visit India
- Established and strong Mumbai-Taiwan links
  - trade & investment, technology, research & development, tourism and education
- Taiwan-India bilateral trade is predicted to nearly double in the next 5 years to US\$10BN
- 100+ Taiwanese companies have activities in India
- Both India and Taiwan are major global IT / Tech centres
- TPE Award winning airport customer service and range of facilities
- High volume and premium market between Taipei and India/Middle East











Opportunity for IndiGo Summary of Traffic Demand

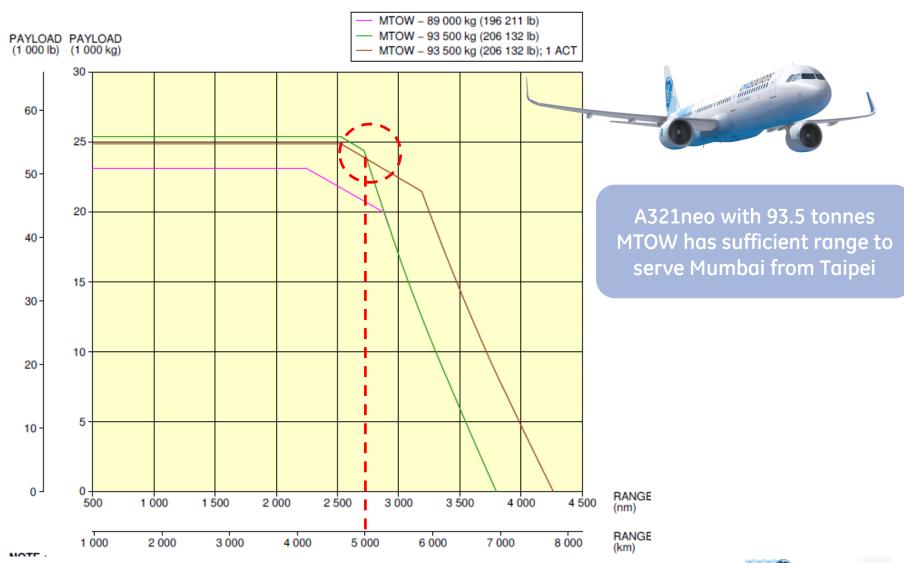




### A321neo Performance



A321neo range allows a direct connection between BOM and TPE





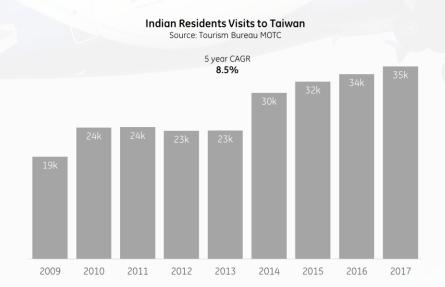
## **Market Fundamentals**

Established Business and Tourism Market for IndiGo to Serve

#### **Demand and Trends**

- High point to point demand 18.7k
- Connecting demand beyond BOM Europe 209,700; India & Middle East: 83,300
- High volume and premium market between Taipei and Western Europe and India
- High average 1-way net fares of \$509
- Strong fit with IndiGo customers

### **Increasingly Popular Visitor Destination**



### Strong Demand to India & Europe



### **Established India-Taiwan Links**

- US\$6.3BN bilateral trade (2017)
   Five fold increase since 2001; +20% 2017 v 2016
- Taiwan imports from India increased from US\$0.5BN in 2001 to US\$3.0BN in 2017
- 100+ Taiwanese companies have activities in India
- Taiwan's new Southbound Policy is targeting Asian countries, with focus on India
- Over 35,000 Indians visit Taiwan annually and over 26,000 Taiwanese visit India
- Over 3,000 Indian citizens live in Taiwan

## **Established Links With India**

India and Taiwan enjoy economic cooperation, cultural and educational exchange



# Shared Interests – Mumbai and Taipei are Tech Cities

India is the world's largest sourcing destination for the IT industry and represents huge opportunity for Taiwan IT / Tech firms



# Taiwan Tech – The Asian Silicon Valley

Globally recognised brands contribute to a \$130bn tech sector



**Tech sector**contributes over **20%**to Taiwan's GDP

Taiwan's National
Development Fund and
Ministry of Science and
Technology are
funding \$120m
venture capital for
tech start-ups





# Hsinchu Science and Industrial Park

One of the oldest tech industry parks in Asia generates **\$31bn** per year

### **Taoyuan Start-Up Hub**

Helps start-ups with existing R&D and manufacturing capabilities



Iranstorm and upgrade aiwan's industrial structure with IoT nnovation and entrepreneurship

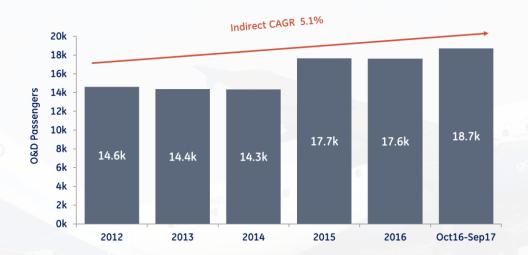




### Point to Point Traffic

#### Mumbai - Taipei Point to Point Indirect Traffic 2012-Sept2017

Source: Sabre MI 2012 - September 2017, AviaSolutions analysis

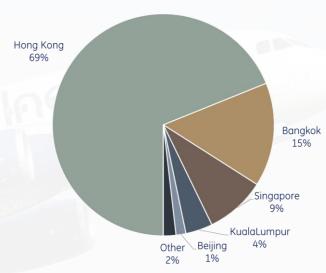


# Indirect traffic grew by **5.1%** CAGR between 2012 – September 2017

**18.7k** passengers flew indirectly between Taipei and Mumbai (Sabre MI data year ending September 2017)

## Major Connecting Points for Demand Between Mumbai and Taipei

Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis



Several hubs share indirect traffic connecting Taipei and Mumbai

Hong Kong **(69%)** provided the most connections followed by Bangkok **(15%)** and Singapore **(9%)** 

### Point to Point Fares

#### Mumbai - Taipei Point to Point Indirect Fares 2012 - Sept2017

Source: Sabre MI 2012 - September 2017, AviaSolutions analysis



#### Mumbai - Taipei Indirect Point to Point Fares by Class

Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis

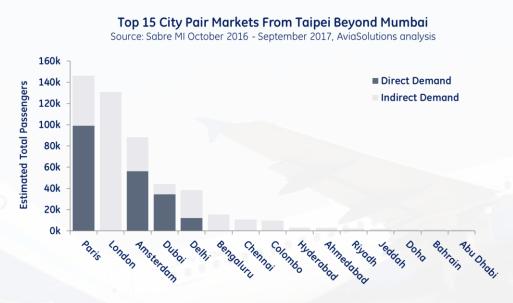


Stable average O&D one way net fares between Taipei and Mumbai at **circa \$509** in September 2017 (Sabre MI data year ending September 2017)

Increased competition over hubs with lower fares has led to increased demand

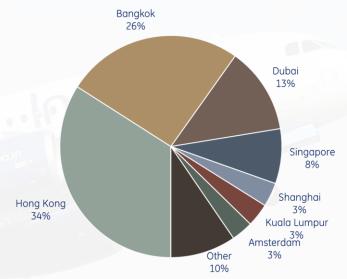
Average O&D one way net fares between Taipei and Mumbai show low fares in Coach (\$380) and high fares in Business (\$1,424)

## Connecting Traffic from Taipei beyond Mumbai



Largest markets from Taipei beyond Mumbai are to **European cities** i.e. Paris, Frankfurt, London, Amsterdam





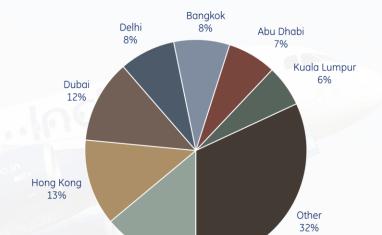
Several hubs share indirect traffic connecting Taipei with destinations beyond Mumbai

**Hong Kong (34%)** is the main connecting point followed by Bangkok **(26%)** and Dubai **(13%)** 

### Connecting Traffic from Mumbai beyond Taipei



#### Mumbai to Cities beyond Taipei - Major Connecting Points Source: Sabre MI October 2016 - September 2017, AviaSolutions analysis



The largest markets from Mumbai beyond Taipei are to **North America** (New York, San Francisco, Toronto) and **Hong Kong** 

Only 2 destinations to mainland China are among the top 15 – **Shanghai (#5)** and **Guangzhou (#13)** 

Several hubs share indirect traffic connecting Mumbai with destinations beyond Taipei

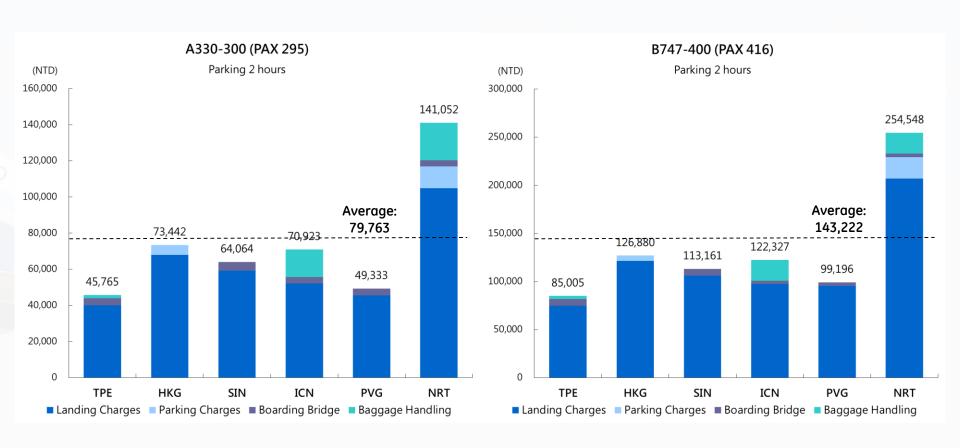
Singapore 14%

**Singapore (14%)** is the main connecting point followed by **Hong Kong (13%)** and **Dubai (12%)** 



# **TPE Airport Charges**

TPE Airport Charges do not exceed average charges of main East Asian airports



### **TPE Incentive Scheme**

Program aims to invite air carriers to operate and develop new routes at TTIA.

#### Applicable flights:

- scheduled direct flights

### Eligibility:

- New route for Taoyuan Airport (new routes should not have been opened for the last year before application date.)
- Flights must inaugurate within 3 months after TTIA has approved the application.

Incentive Scheme	Details	
Landing Fee	Qualified flights have landing fee <b>50% off</b> .	
Boarding Bridge Charge	Qualified flights arriving and departing between 0:00~04:59 a.m. (same day) and departing in 2 hours have boarding bridge charge <b>50% off</b> .	

TPE Incentive Scheme application deadline is **December 31, 2018.** All applications must be completed before the deadline.

# **TPE Marketing Support Program**

### TTIA New Airlines and Routes Promotion Incentive Programs

Program aims to invite new air carriers to operate and develop new routes at TTIA Candidates categories:

- Category 1 New air carrier entrant, operating regular flights from TTIA
- Category 2 Newly opened regular direct route to TTIA

**Category 1** should be air carriers that have not operated on any route at TPE.

Category 2 routes should not have been opened for the last two years before application.

Qualified candidates will obtain one-time FREE marketing exposure of TTIA New Airlines and Routes Marketing Support Program.

TTIA New Airlines and Routes - Promotion Incentives Program Taoyuan Airport Taiwan					
Media		Content	Times	Comments	
TPE Social Media	Facebook post	Chinese and English content + pictures	Once	1. Airlines should provide TIAC with marketing content upon application.	
	Instagram post	English content + pictures	Once	2. TIAC reserves the right to edit any submitted material.	
	Twitter post	English content (less than 140 words) + pictures	Once		
Other Channels (one option only)	Option I	Print media	Twice	1. Select one option only	
		Internet media	Once	2. All the media items including print media, internet media and outdoor media are selected from the attached list.	
	Option II	Print media	Once	3. Airline logo and city image of the new route should be submitted to TIAC in AI format for TIAC to complete the artwork production and arrange media exposures.	
		Internet media	Once	4. Airlines should provide TIAC with words, pictures and website link for internet media exposure.	
		Outdoor media	Once	5. No specified position and date should be appointed.	
	Option III	Print media	Once	6. TIAC reserves the right to revise the submitted materials.	
		Internet media	Twice		
	Option IV	Internet media	Triple		
	Option V	Internet media	Twice		
		Outdoor media	Once		

Candidates are required to submit a copy of Air Route Certificate issued by CAA and filled application form to TIAC no later than 45 days before inauguration.

# **TPE Incentive Scheme & Marketing Support Program**

**Application Procedure** 



IndiGo Route Certificate (issued

by CAA, MOTC)

**Application Forms** 

**Promotion Materials** 

Submission



# Business Planning and Marketing Department of TIAC

Incentive Scheme: emilyycyang@mail.taoyuan-airport.com Marketing Support: amanda0603@mail.taoyuanairport.com

Program expires on 31 December 2018.

TIAC will revise the budget execution and effectiveness to extend program.

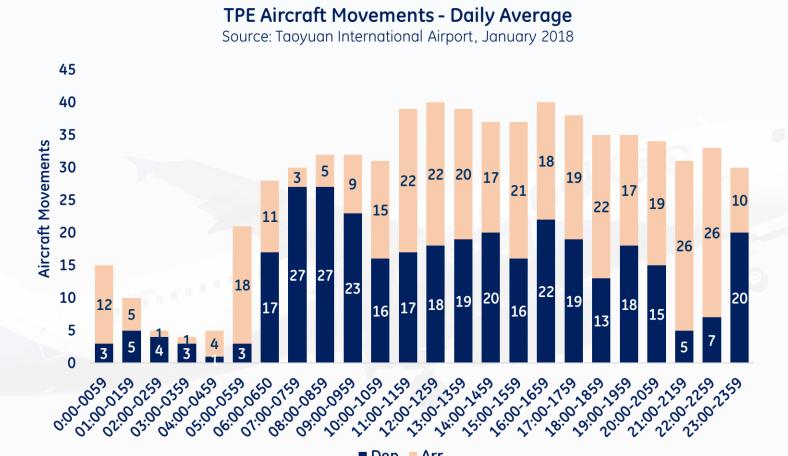
Program takes effect after official announcement.

TIAC has the right to extend, revise program.

Marketing evidence one month after promotion materials release



# **TPE Slot Availability**



Peak hours 11:00-14:00 and 16:00-18:00

Capacity of **50** movements per hour and **90** movements in **2** consecutive hours

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# **New TPE Terminal 3 under Construction**

A world class hub for East Asia



# Steps to Commence Operations at Taipei



Contact CAA for official permission to operate at TPE

# Application for IndiGo®

- Air Route Certificate
- Application for Station Manager
   Office, if applicable

Discuss operations with TIAC

### **Contact Person**

Mr. Tom Chen

TEL: +886-3-273-5333

FAX: +886-3-273-5322

Email: tomchen@mail.taoyuan-airport.com

### **Confirmation on**

- Terminal choice
- Check-in counter arrangement
- Boarding gate arrangement
  - IT & communication system
- Office rent agreement
- Other administration issues





### **Contact**

#### Mr Tim Yuan-Hung Ting

Senior Manager Business Planning & Marketing Department
Taoyuan International Airport Corporation Ltd.
No.9, Hangzhan S. Rd., Dayuan Dist.,
Taoyuan City 33758, Taiwan R.O.C

Tel: +886 3 273 5555

Email: yhting@mail.Taoyuan-airport.com

