



# TAIPEI TAOYUAN INTERNATIONAL AIRPORT

Taipei, Taiwan

## Terminal 1 Expansion Project

Taoyuan International Airport Company | 2015 – 2019

BNP has been engaged by Taoyuan International Airport Company to provide consulting services to upgrade Terminal 1 as part of Taoyuan International Airport expansion plans. BNP has been contracted for concept design, development of concept design, preparation of contract document and tender evaluation for the BHS.

The newly upgraded BHS is designed to handle 5000 bags per hour. The upgraded baggage handling system consists of a loop of ICS running along the length of the bag room. In the single loop of ICS, there are two logical sort loops that sorts bags to thirteen make-up carousels. The design of two logical loops reduces the in-system time of baggage. Originating Bags from check-in have the unique capability of feeding bags to one of the ICS sorters or direct to the existing six make-up carousel as a fallback feature.

The upgrading added six more make-up carousels by optimizing the arrival loading lines. At least 100 make-up positions capacity was added, doubled the current capacity.

The manual early bag storage was replaced with an automated early bag storage system that utilizes random access methodology with stacker cranes. Baggage is stored with the ICS trays in the racks, which offer approximately 400 storage positions.

The system is designed to be able to transfer baggage between Terminal 2 and the new Terminal 3 regardless of technology.



ASSOCIATES, INC.

### BNP PROJECT TEAM

Damien Breier, Principal  
Ben Oon, Project Director

### BHS CONSTRUCTION AMOUNT

US \$28.5 million

### REFERENCE

Mr. Frank Chen Jin Zhong  
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airport.com

### SCOPE OF SERVICES

Conceptual Design  
Design Development  
Contract Documentation  
Bidding and Procurement