



TAICHUNG CITY CULTURAL CENTER 台中市文化中心

← 114 樹林 Shulin
→ 台中市文化中心 Taichung City Cultural Center
↻ 110 桃園 Taoyuan
→ 圖書館 Library
↻ 陶瓷老街 Ceramics Old Street
↑ 鶯歌車站 Yingge Station

國盛街

TAICHUNG CITY CULTURAL CENTER

Can the contemporary city be conceived as more than a collection of iconic nature parks and cultural centers. . . more than the proliferation of feudal master plans and suburban hamlets?

Situated on the northern edge of the Taichung Gateway Master Plan, the proposed Taichung City Cultural Center is positioned to radically reinvent Taichung urbanism. To complement the master plan and increase the iconic value of the proposed cultural center, we propose to lift the 62,996 m² museum of fine arts and library into three interconnected Floating Green Lanterns.

The proposed Taichung Gateway Park slips through and up into the floating lanterns, connecting park to cultural activity. Like a stack of weightless boxes, the cultural center is conceived as a collection of Floating Green Lanterns tethered by three separate structural cores, creating a dense network of museum, library, and amenity spaces. In contrast to conventional cultural centers, which often proliferate into series of isolated objects, the Floating Green Lanterns bridge the two cultural entities with a cascading series of interconnected roof gardens. At strategic moments, these roof gardens connect, sponsoring the building's collective and ecological activities—and at the same time, structurally resisting seismic loads like a tripod.

At the heart of the Floating Green Lanterns is a 3-dimensional matrix of stepped boxes that shift in plan and section to maximize porosity and natural ventilation. Above, a web of stepped roof gardens connect into a “living machine,” which filters and cleans the building's gray and black water usage as well as houses on-site composting. Like a three-dimensional feng shui plan, the volumes connect internally to create a natural ventilation stack effect, while the sectional and urban deployment of the lanterns enhances prevailing breezes and reduces humidity. The building is situated to take advantage of solar absorption chillers to cool and de-humidify the conditioned spaces.

台中市文化中心

當代城市是否可以超越這些概念：一系列標誌性的自然公園和文化中心的組合？·傳統的城市-小村莊式的佈局的擴展？

台中市文化中心位於台中網關總體規劃的北邊，旨在徹底改造台中城市面貌。為了配合總體規劃，提高文化中心的標誌性，我們建議將62,996平方米的美術和圖書館博物館設計為三個相互連接的浮動燈籠。

台中航空公園穿過浮動燈籠，使得文化活動與公園發生聯繫。類似於一堆無重量的盒子，文化中心被設想為是由三個獨立的結構核心拴住的浮動綠燈籠的一個集合，創造一個密集的博物館、圖書館和美化空間的網絡。與傳統的文化中心相比，這種文化中心通常會擴散成一系列孤立的物體，浮動的綠燈籠將兩個文化實體橋接在一起，形成一系列相互連接的屋頂花園。在特定時刻，這些屋頂花園連接，為建築的集體和生態活動提供場所，同時，在結構上行成的三腳架結構承受地震的荷載。

浮動綠燈的核心是一個三維矩陣的階梯盒，在平面和截面移動，實現最大化孔隙率和自然通風。上面，一個階梯式屋頂花園網連接成一個“活的機器”，過濾和清潔建築物的污水並被用作房屋現場堆肥。實現風水概念應用於三維，這些空間在內部連接以產生自然通風堆疊效應，而燈籠的分段和城市部署增強了主要的通風並降低了內部濕度。該建築位於利用太陽能吸收式冷卻器來冷卻和減濕空調空間。

PROJECT

Fine Arts Museum, library

SIZE

62,720m² (675,000 ft²)

CLIENT

Construction Bureau, Taichung City Government

LOCATION

Taichung City, Taiwan

COLLABORATION

ARIAL 10, Buro Happold

VALUE

\$81 million

KEY PERSON

Andrew Heid

TEAM

Lourenço Rebelo de Andrade, Daniel van Dyk, Nicolas Hannequin, Tomas Janka, Katerina Paitazoglou, Christopher Purpura, Marta Rodrigues, Joey Yeh

項目

美術博物館·圖書館

規模

62,720平方米 (675,000平方英尺)

客戶

建築局·台中市政府

位置

台中市

合作

ARIAL 10·Buro Happold

造價

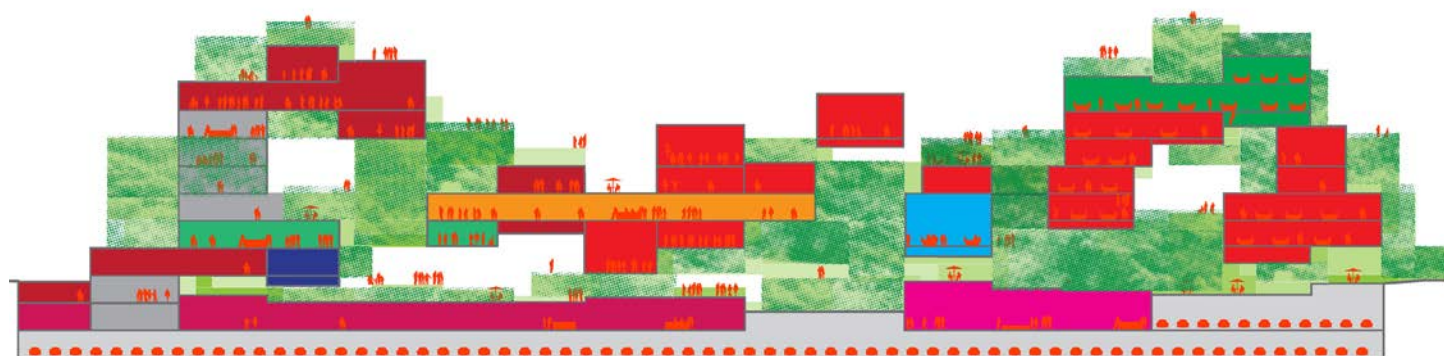
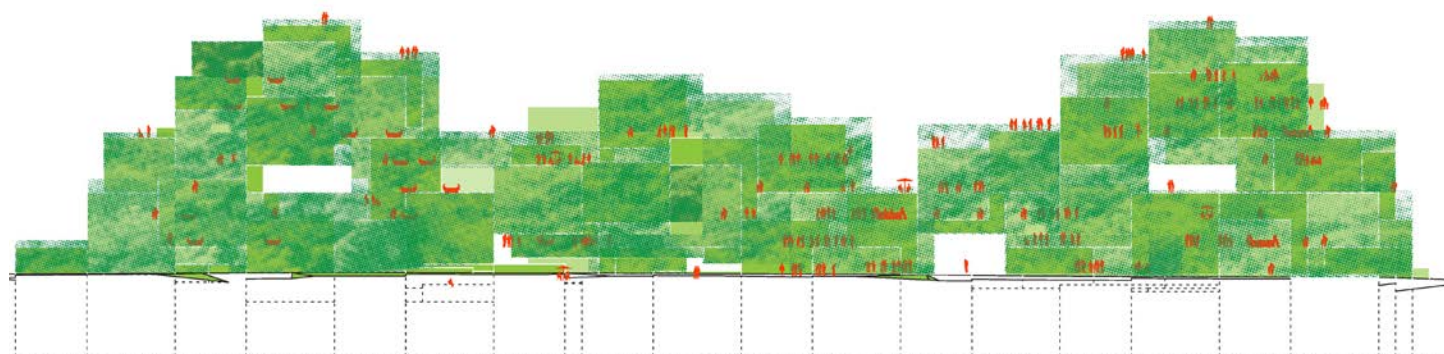
8100萬美元

關鍵人物

安德魯·海德

團隊

Lourenço Rebelo de Andrade · Daniel van Dyk · Nicolas Hannequin · Tomas Janka · Katerina Paitazoglou · Christopher Purpura · Marta Rodrigues · Joey Yeh



2

1. View towards entrance. 2. Elevation/section. 1. 往入口的看法。 2. 高程/剖面。

IMAGE: NO ARCHITECTURE