SCIENCE ISLAND
科學島

SCIENCE ISLAND

We envision the Science Island as a new public platform. A series of draped canopies effortlessly stitch this public platform with the surrounding urban landscape and river views, fostering a web of daily life crisscrossing the river banks.

The resulting architectural gesture creates a constantly changing landscape along the skyline, like a floating cloud, a new beacon for science, technology, innovation, and ecology on Nemunas Island. At the same time, these wave-like forms are excavated into the ground to control views and are punctuated with internal courtyards for passive cooling, heating, and ventilation. In section, the interconnected pavilions and floor-plates gently warp to connect inside to out, breaking down the barriers between the curatorial space of the galleries and the social space of the city.

Our proposal is conceived as a new strategic bridge spanning and connecting north/south, from the historic downtown to the proposed convention site, and east/west to the arena. By locating the new science center at the intersection of these two poles of natural leisure and cultural activities, our proposed new public platform catapults an enduring relationship with science and innovation for Kaunas. The contours of our immediate site are pulled and pushed to control views and passive solar heating and cooling, while maintaining the integrity of the existing tree groves and meadows.

Inside, the draped canopies above and the open plan below gently gather and organize the internal activities. This horizontal strata encourages the maximum interaction between visitors while providing curatorial flexibility. Entering from the east entrance, the main exhibition hall houses the permanent and temporary galleries and a series of courtyards that disperse and flock in plan with perimeter circulation. The roof canopies are conceived as a hybrid structural system: each anticlastic catenary roof canopy is formed by a draped thin tensile steel plate, sandwiched between cross laminated wood structurally insulated panels (SIPs).

科學島

我們設想科學島是一個新的公共平台。一系列懸垂的篷蓬將這個公共平台與周圍的城市景觀和河流景觀巧妙地聯繫在一起，促進了日常生活網絡與河岸互動。

由此產生的建築創造了一個沿天際線不斷變化的景觀，像一個浮雲，一個新的科學，技術，創新和Nemunas島的生態燈塔。同時，這些波狀形式被應用于地面以控制視線，也被用於被動冷卻，加熱和通風的內部庭院。局部相互連接的亭閣和地板輕輕地扭曲連接內部到外面，打破了畫廊的策展空間和城市的社會空間之間的阻隔。

我們的設計期望成為一個連接南北的橋樑，從歷史的市中心到擬議的會議站點，以及從東到西的競技場。通過將新的科學中心定位在自然休閒和文化活動的這兩個極點的交叉點，我們提出的新的公共平台與考納斯的科學和創新發生持久的關係。我們的直接的形態輪廓被拉和推動以控制景觀視線和被動太陽能加熱和冷卻系統，同時保持現有的樹林和草地的完整性。

內部，上面的披風篷和下面的開放平面輕輕地收集和組織內部活動。這個水平層鼓勵訪客之間的最大化交流，同時提供展覽空間的靈活性。從東入口進入，主要展覽廳，臨時畫廊和一系列的庭院根據流線被四散佈置。屋頂天棚被設想為混合結構系統：每個抗碎屑懸鍊式屋頂蓋由夾在薄的交叉層壓木結構絕緣板（SIP）之間的薄的拉伸鋼板形成。

PROJECT

Contemporary science and technology museum, auditorium, black box theater, offices, cafe, store, restaurant,

TYPE

Competition

SIZE

11,117 m² (119,662 ft2)

CLIENT

Kaunas City Municipality

LOCATION

Kaunas, Lithuania

VALUE

$25 million

KEY PERSON

Andrew Heid

TEAM

Mel Loyola Agosto, Yan Chen, Naifei Liu, Shuying Mi, Peter Park, Gosia Pawlowska, Gaby
San Roman Bustinza

項目

當代科技館，禮堂，黑箱劇院，辦公室，咖啡廳，商店，餐廳，

類型

競爭

尺寸

11,117平方米（119,662平方英尺）

客戶

考納斯市市

位置

考納斯，立陶宛

值

2500萬美元

關鍵人物

安德魯·海德

團隊

Mel Loyola Agosto，Yan Chen，Naifei Liu，Shuying Mi，Peter Park，Gosia Pawlowska，Gaby
聖羅馬Bustinza

1. View towards entrance. 2. Galleries with internal courtyards. *1.* 往入口的看法。 *2.* 畫廊與內部庭院。