VELÓDROMO

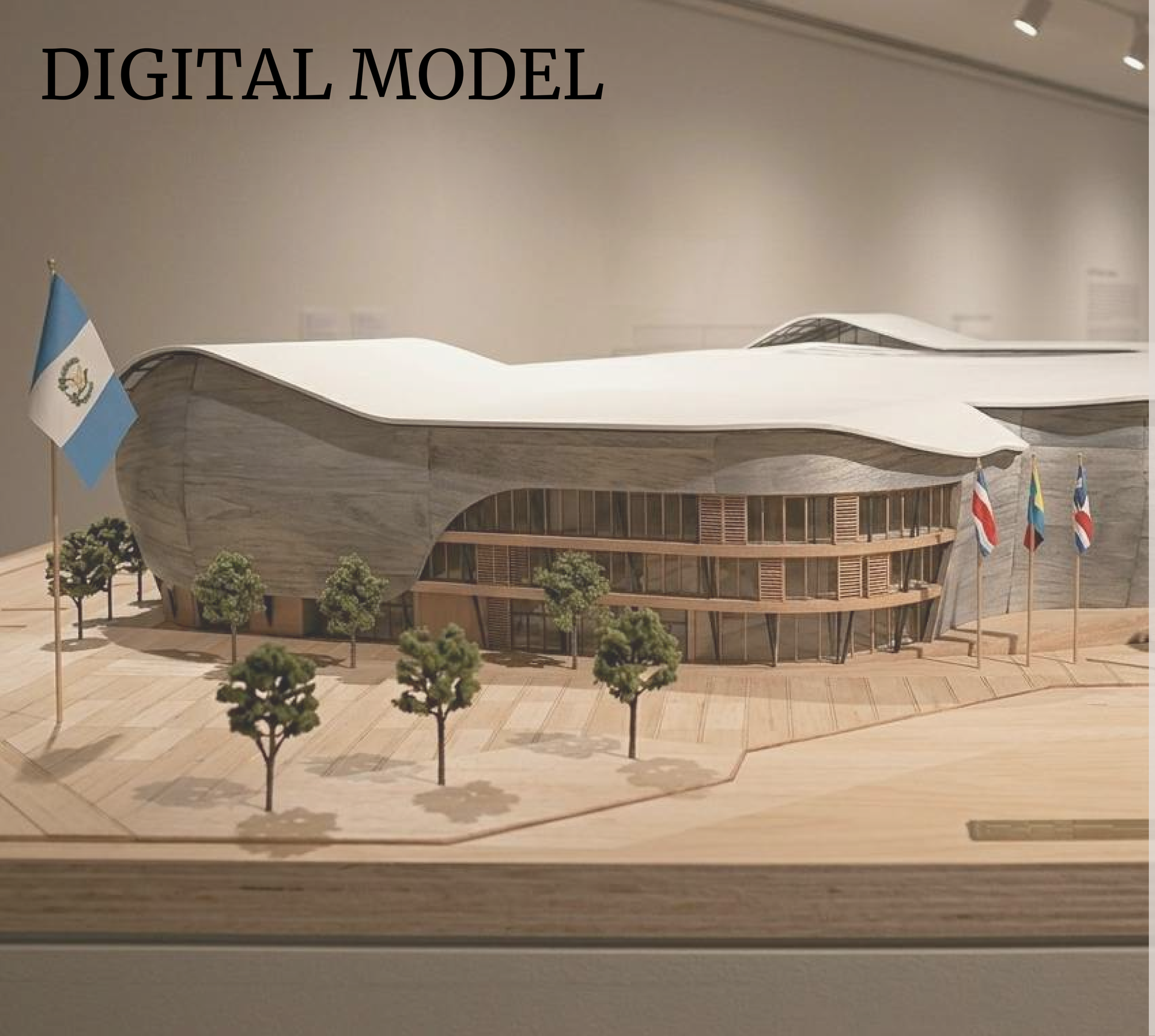
CIUDAD DE GUATEMALA

AUREOM
ARQUITECTURA

GUATEMALA NATIONAL VELODROME

DESIGNED BY SALVADOR PADILLA| UNIVERSIDAD MARIANO GÁLVEZ DE GUATEMALA

DIGITAL MODEL



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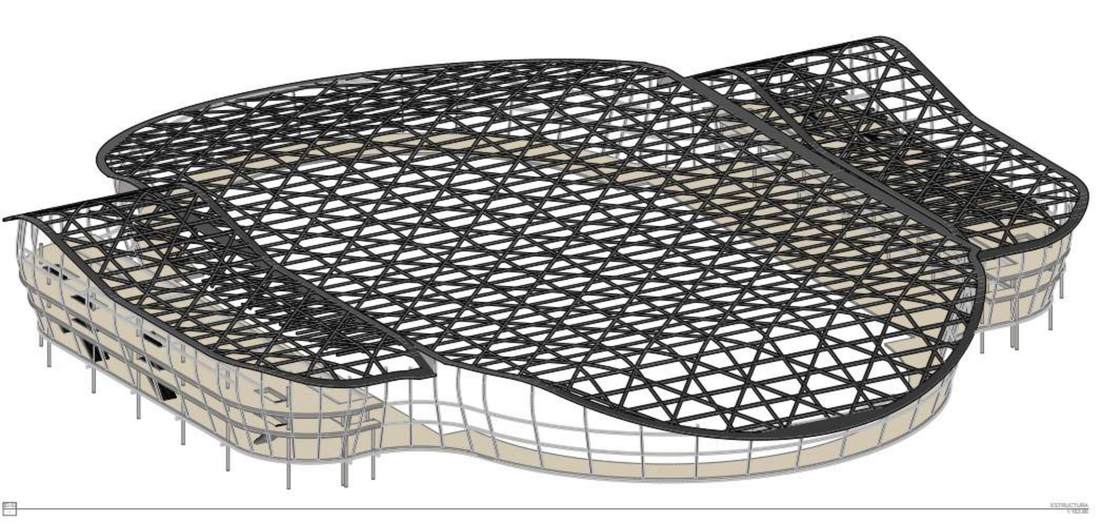
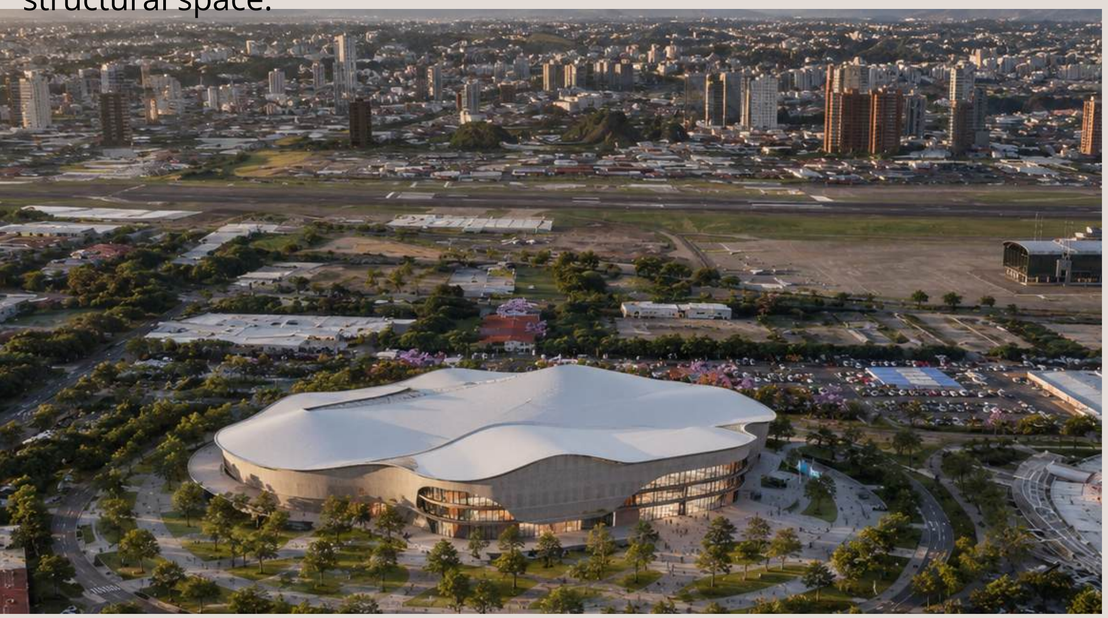
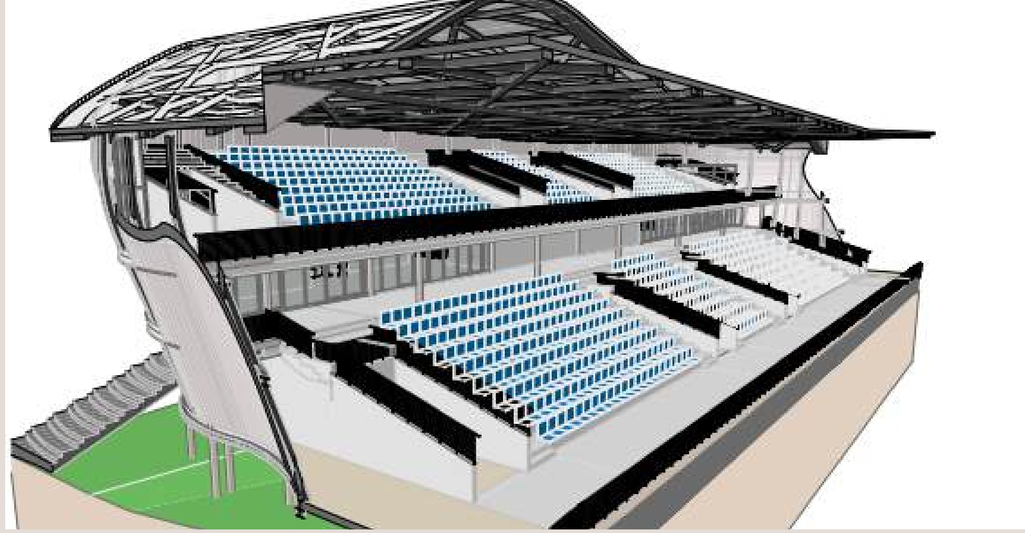


FIRMITAS: The project embodies Firmitas through a tubular steel grid-shell roof and three-dimensional connection nodes. Its self-supporting geometry takes advantage of double curvature to work primarily in compression. This optimizes material usage, eliminates intermediate supports, and creates a continuous, lightweight, and highly efficient structural space.

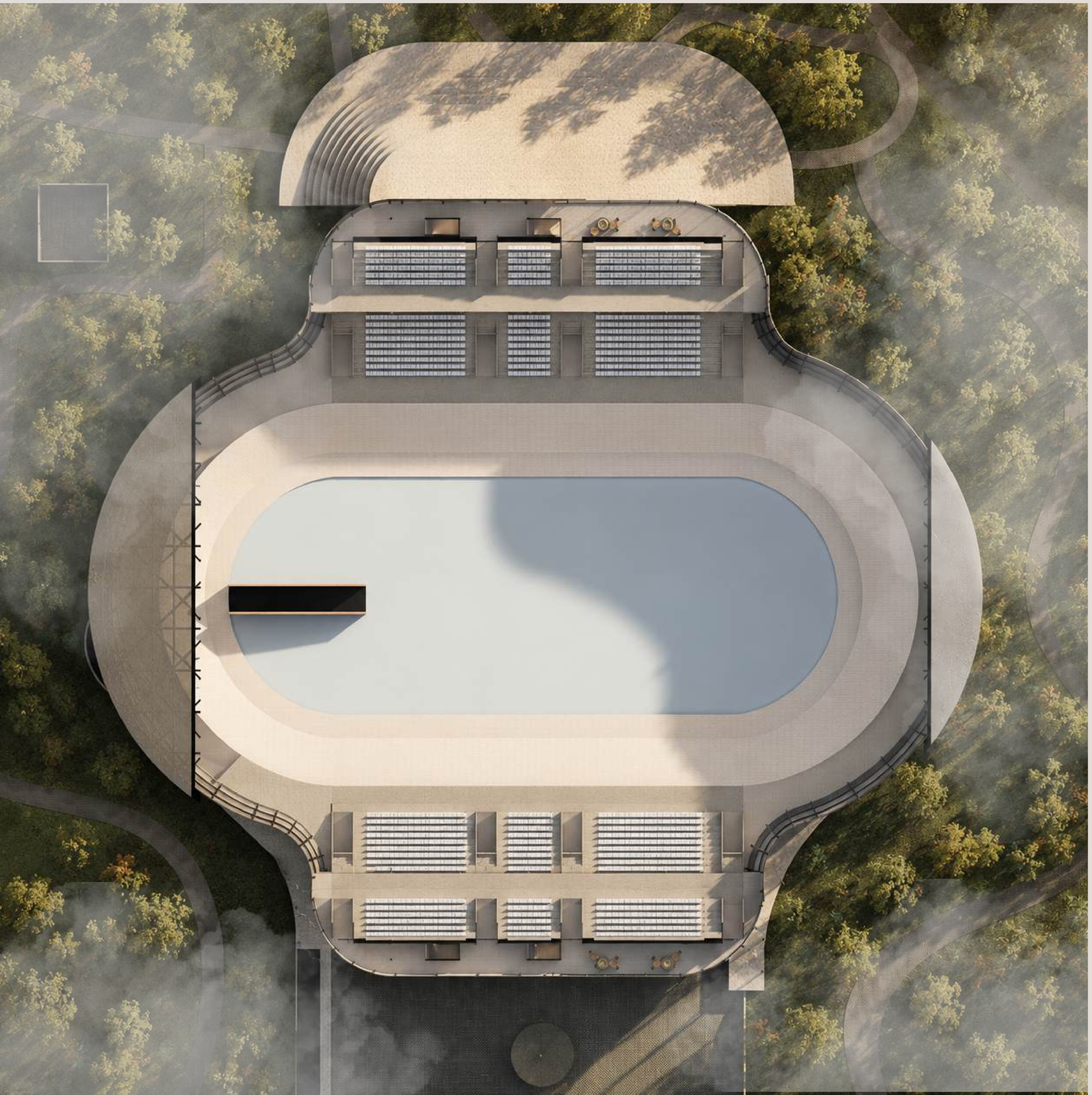


VENUSTAS: It is expressed through the creation of a new urban landmark in Guatemala City, where the bold geometry of the grid-shell roof engages in a dialogue with both the landscape and the city skyline. The lightness of the steel structure and the transparency of the envelope generate a dynamic interplay of light and shadow, enhancing the quality of the surrounding public space. In this way, the structure transcends its purely technical function to become a habitable sculpture and a contemporary symbol of architectural innovation for the city.



UTILITAS: The principle of Utilitas is expressed through a highly efficient circulation system that prioritizes life safety. The project strategically incorporates vomitories and emergency staircases, carefully distributed to ensure the rapid evacuation of users in the event of an emergency. This direct-exit circulation design minimizes congestion points, optimizes travel times, and ensures a smooth and safe transition from areas of high occupancy to designated outdoor assembly points.

SANITAS: The principle of Sanitas is integrated through the incorporation of green spaces designed to encourage direct interaction with nature during physical activity. These areas seamlessly combine vegetation and exercise zones, promoting overall health, environmental comfort, and the psychological well-being of users. By embracing biophilic design, the project not only enhances the quality of its immediate surroundings but also transforms sports facilities into urban oases that reduce stress, improve air quality, and encourage an active and healthy lifestyle.



NIVEL 1

The Metropolitan Velodrome is conceived as a sports and urban facility aimed at strengthening the infrastructure for high-performance cycling in Guatemala while creating a new gathering space for the city. Located within the Cultural District of Zone 13, the project seeks to integrate with its surroundings through a direct relationship between architecture, landscape, and public space.

NIVEL 2

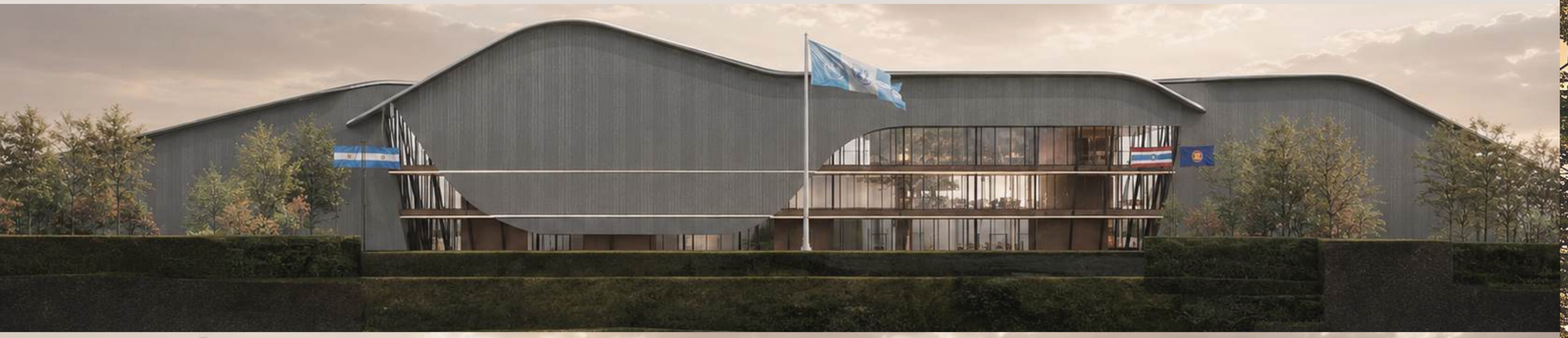
The architectural proposal draws inspiration from the continuous movement and speed inherent to cycling. This concept is materialized through a fluid and organic roof geometry that envelops the building, creating a dynamic and contemporary image that reflects the essence of the sport and establishes a distinctive visual landmark within the area.

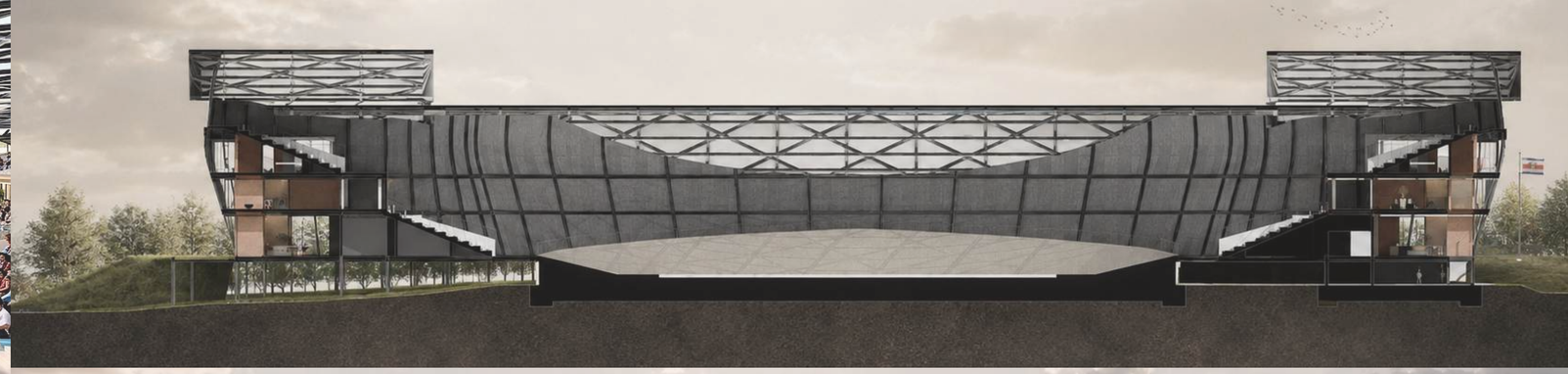
NIVEL 3

Beyond its sporting function, the project incorporates a public park surrounding the velodrome, fostering social interaction, recreation, and sustainable mobility. Pedestrian pathways, green areas, and gathering spaces ensure continuous activity throughout the complex, transforming it into an accessible destination for athletes, visitors, and everyday users alike.

TECHOS

The result is an architectural proposal that combines functional efficiency, urban identity, and spatial quality. Through its iconic design and strong connection to the public realm, the Metropolitan Velodrome aspires to establish itself as a new symbol of Guatemala City, promoting sports development while enriching the urban experience of Zone 13.





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