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# LIFE TEOPSCA

Hotel

Office

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Shopping Mall

Convention

**Apartment** 





香港理工国际出版社 编著

**Apartment** 

## 域市综合体HOPSCA

Shopping Mall

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大洋大学出版社 TIANJIN UNIVERSITY PRESS

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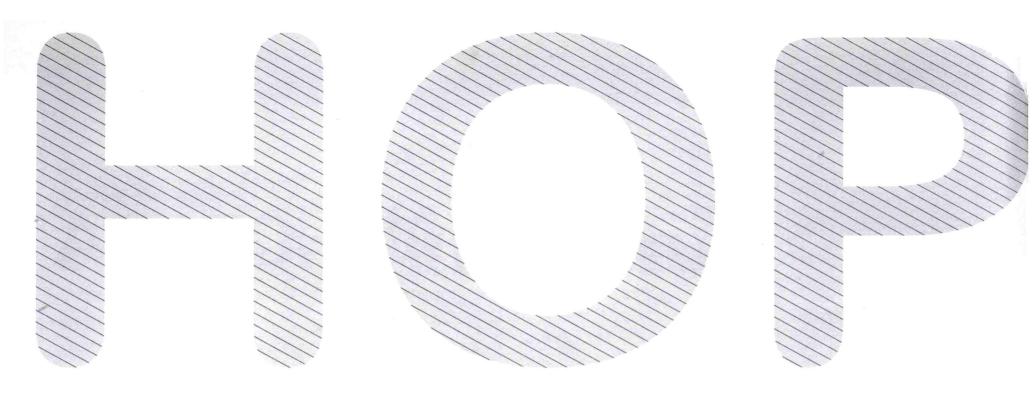
Office

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### Imagination of Future City, Stage for World Civilization

— for Expo Shanghai 2010

"Better City, Better Life". It is the first time that Expo has focusded on the theme of city. Expo Shanghai 2010 sufficiently expresses the people's pursuit of new mode, environment-friendly and humanized city. Since city formed, life has changed; ideology crash became more intensive; even the Expo itself is the result of city development.

The Expo in large scale gives us an inspiration of how to plan future city, how to explore a complete new mode of habitation, life and working in new century, how to provide an evidence of creating eco-environmental and harmony society and sustainable development to human kind. It also looks like a competitive arena, where promotes plenty of new architecture modes and ideas. When all the functions gather in one place, the life begins in city. Urbban complex (HOPSCA) occurring exactly bases on the ideology of "city" and "life", which presents a brand new lifestyle. It highly focuses on urban economy, financial power, and its unique economic charming even influences the future of one city.

For Expo Shanghai 2010, it is not only the imagination of future city, but a big stage for world civilization.

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### The Definition of HOPSCA

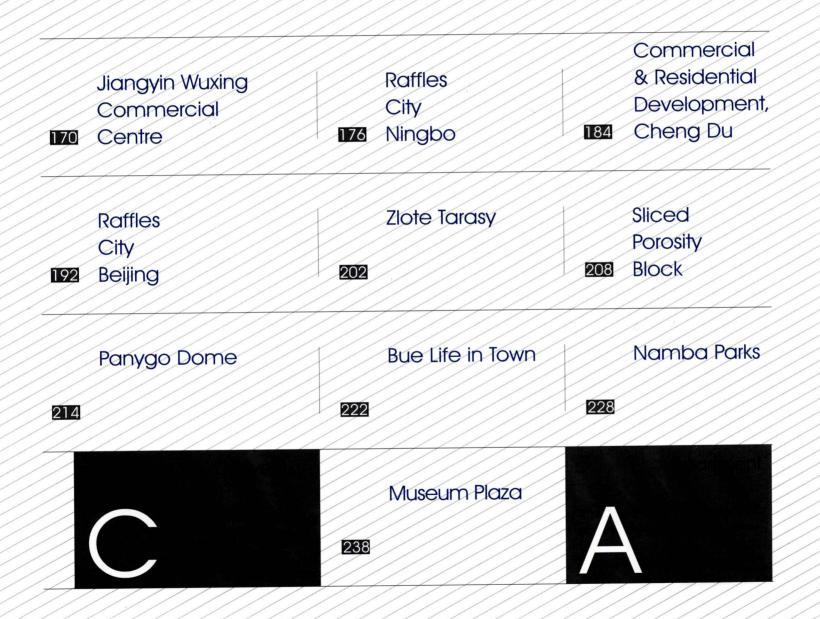
Nowadays, there should be a spirit leader, a value-added real estate model which can make all resources integrate in order to be better utilized. In such a condition, HOPSCA becomes the corollary due to the interactions and organic connections among economies in the contemporary society. In 1970s, the planning for the urban core area of HOPSCA was born in La Défense, Paris, featuring overall unity, functional composite, land-use balance and spatial continuity and rapidly swept the global. Only existing in the urban areas or new city centres, it is the economic engine of modern life as well as a strong magnet field which integrates and condenses all kinds of resources. The development of HOPSCA was gradually perfected in Manhattan, New York and Roppongi Hills, Tokyo.

HOPSCA is a totally new city conformation which combines facilities like hotel style management, office, park, shopping, convention and apartment together. As the symbol of a high-level and magnificent lifestyle, HOPSCA is the result of comprehensive developing model which comes from the scientific features and ties of these six city resources —business, office, commerce, landscape, recreation and entertainment, and living. HOPSCA is becoming an ideal home in which the lifestyle could be freely switched among living, business and recreation and entertainment. Being multi-functional, HOPSCA manages to make the most benefits of the city. Meanwhile, by utilizing advanced high-technology in planning and design, it is able to be ecological, energy-saving, secure and quick information exchanging.

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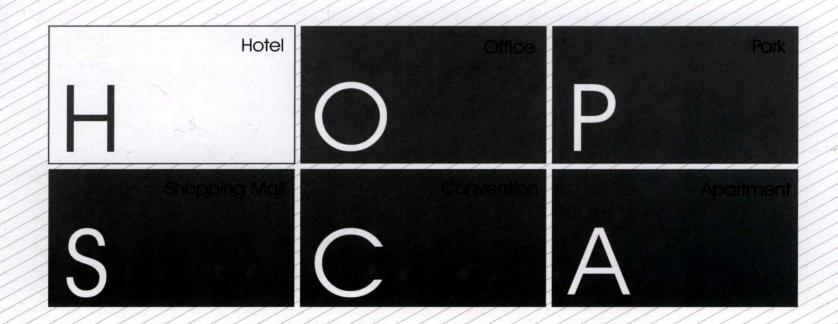


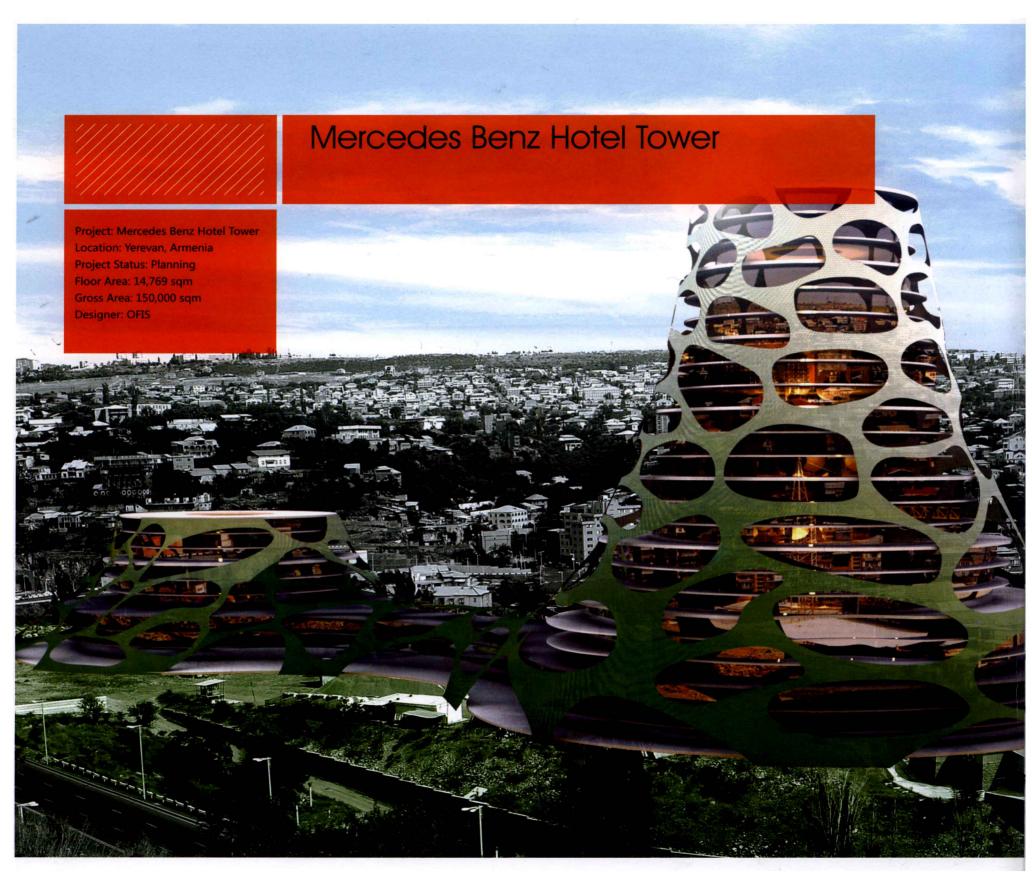


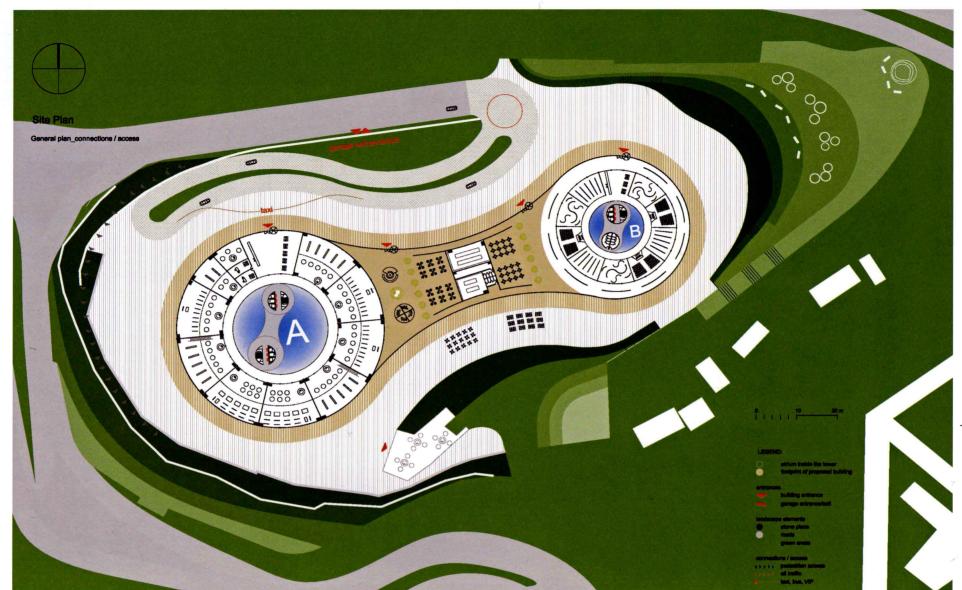
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## HOPSCA

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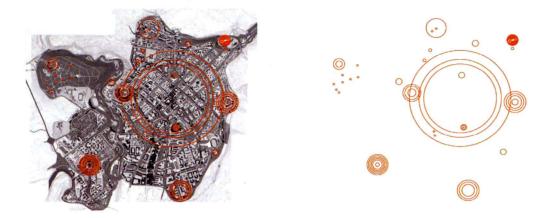




Site Plan

The prominent location and dominating position with biblical Mt. Ararat as background "wallpaper" represents a chance for unique rearrangement with its own identity and could become a symbol and landmark of contemporary architecture in the city of Yerevan. The mixture of programs and relations inside the program calls for complex organisation – both inside and outside.

#### Analytical Drawing-1



The concept reinstates two terraced cylindrical towers connected in the ground floor embraced with green tent-shape layer.

Structural facade skin is covering the terraces of towers, creating openings and full-structural elements.

The facade is a metal mesh that represents landscape element that is rising from the Plato.

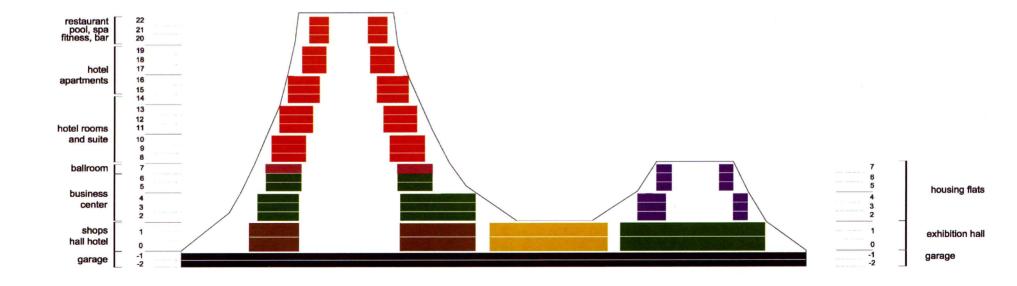
With its present also corresponds during the seasons:

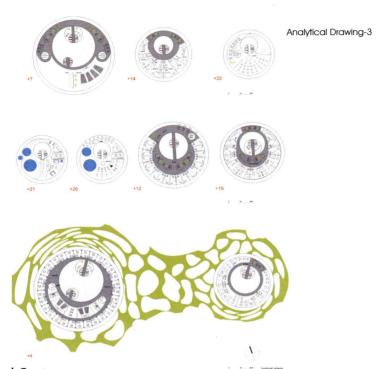
In summer the mesh is covered by greenery that is planted at the fence of the terraces.

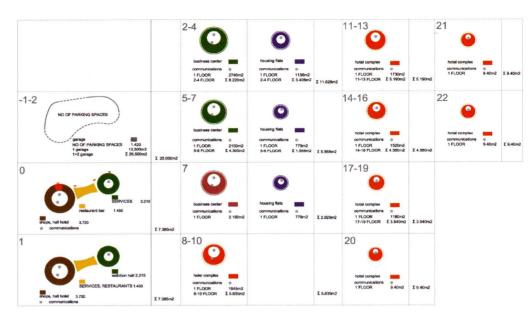
In winter it is white and partly covered with snow. In the garden cafe is located with sitting area. With lighted windows glowing from behind it gets festive look.

Circle towers correspond with round structures specific for Yerevan urban tissue.









Analytical Drawing-4

### Structural System

The main driver when choosing a suitable structural system for the building was safety during earthquakes, since the city of Yerevan is situated in a region prone to strong earthquakes, and flexibility of space. Therefore the vertical structure, which resists gravity load and forces resulting from earthquake action, was rationalized to reinforced concrete cores and composite columns. While two cores on the inner perimeter of the taller tower are required to ensure structural stability, one is sufficient in case of the lower one. At the base the outer walls of the cores are 160cm thick. Three concentric sets of composite columns (steel tubes filled with concrete) are foreseen. Due to the terraced shape of the building the columns on the outermost perimeter are inclined towards the centre of the building. Those on the innermost perimeter are inclined in 3D space to form a mesh. All columns have a maximum diameter of 130cm. The core wall thickness and column dimensions are reduced with the height of the building.

