

# MODERN ARCHITECTURE INTO THE FUTURE 走向未来的现代建筑

刘谭春 吴圣明 主编



华中科技大学出版社

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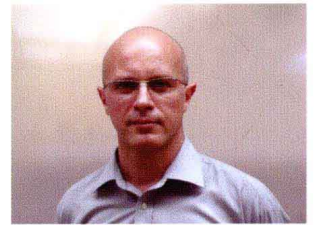
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# INTRODUCTION

## 走向未来的现代建筑 MODERN ARCHITECTURE INTO THE FUTURE



Martin P. Kostov, Ph. D.  
Associate / Urban Designer / Architect  
TOWNLAND Consultants Ltd.

Architects the World over have been a driving force in an era of rapid growth of our cities and are shaping our future through their contributions to a variety of projects on an unprecedented scale. It is undeniable that a generation of modern architectural design has witnessed the construction of a host of new architectural icons and the emergence of new and exciting design solutions.

We are now in a time of transition and architects are grappling with a need to meet the challenges of both the present and future. Such challenges are firmly centred on the rapid urbanization of our cities and an explosion of population growth that is overburdening our limited natural resources. At the forefront of our thinking is the need to balance what is ideal and what is real, to balance ego with eco.

Recognising an urgent need for sustainability in our built form, modern architecture has coupled with rapid advancements in available technology as a driving force, which is bringing about a fragile "victory" for our environment. Designers are embracing technology and coupling it with increasingly multi-disciplinary planning and design approaches and a deeper understanding of the diverse cultural contexts within which we live. We are increasingly embracing sustainability principles in the planning and design of new projects and are articulating new and compelling design languages which are grounded in a "marriage" of construction and technology and which set one project apart from the next.

Environment, technology, society and economy. All of these forces make up the dynamic equilibrium of our modern World, and are the forces that are shaping the substance of architectural projects into the future. In our built environment, architecture is at the cutting edge in responding to a major challenge. Consolidating, developing and enhancing what we already know and what we already have is necessary, but simply not enough. In a constant search for innovation, architects are striving to identify and understand what the next major technological breakthroughs will be. Although it is difficult to envisage the future, as technology advances quickly and future technologies are unimaginable now, as Architects, we must continue to push the boundaries for the benefit of our present and future generations.

The projects contained in this Book showcase a variety of architectural solutions which are often complex, dynamic and controversial but which demonstrate a commitment to embracing the environmental, social and economic challenges we are facing, and technological opportunity. Such designs range from approaches which are bold and imaginative to approaches which are sensitive and composed. What appears as fantasy today could well be the reality of tomorrow.

在城市发展突飞猛进的时代里，建筑师们成为了一支主导力量，以史无前例的创意为我们带来了千姿百态的建筑，共同塑造着我们的未来。无可置疑，从事现代建筑设计的这一代，见证了新的标志性建筑与振奋人心的建筑设计新方案的诞生。

我们现今仍然处在一个过渡期，建筑师们仍然在接受现在和未来的挑战。这些挑战紧扣着快速城市化问题和人口增长造成的资源短缺问题。我们放在首位思考的是如何在理想与现实之间、生态与自我之间找到平衡点。

认识到可持续性在建筑形式中的迫切需求，现代建筑运用了高科技作为强大动力，使我们的环境取得了小小的“胜利”。结合多领域规划设计方式与对我们居住的多元文化背景的深层理解，设计师们欣然采纳了科学技术。我们在规划与设计新项目中越来越多地采用了可持续性原则，清晰表达新颖而打动人的设计语言，在项目中将建筑物与科技紧密联系，使每一个项目与下一个项目都各有所别。

环境、科技、社会和经济，这些都是构成现代世界动态平衡的力量，也是将建筑项目实质推向未来的力量。在我们的建筑环境中，建筑正站在应对重大挑战的最前沿。巩固、提高和加强我们的知识与经验是必须的，而又远远不够的。在不断寻求创新中，建筑师正在努力确定和了解未来的重大技术突破。但是随着科技发展日新月异，未来科技的发展更加难以想像，未来也因此难以预测，作为建筑师的我们必须继续超越界限，为当代人与后代子孙造福。

这本书包含了一系列各具特色的建筑方案，它们往往是复杂的、动态的和有争议的，它们同时也证明了我们面对环境、社会和经济挑战的决心及高新科技产生的可能性。这本书从大胆、富有想象力的设计到敏感、沉着的设计——涵盖，尝试向我们表达，今天的幻想很可能成为明天的现实。

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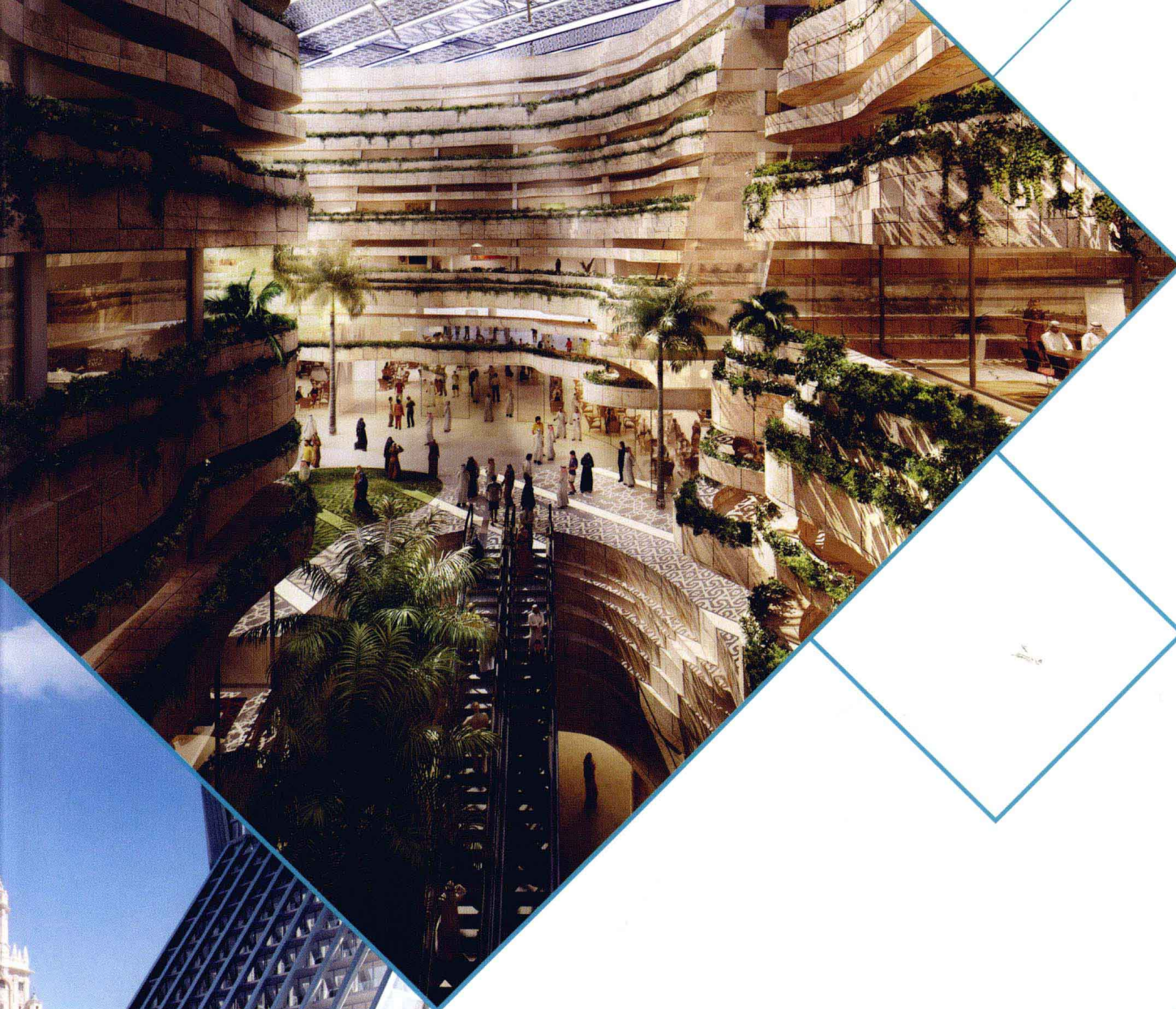
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商业空间

COMMERCIAL  
SPACE





# MASDAR PLAZA, OASIS OF THE FUTURE

## 马斯达广场，未来的绿洲

设计机构：Laboratory for Visionary Architecture [LAVA]

项目地址：阿拉伯联合酋长国马斯达

客户：马斯达未来能源公司

Architects: Laboratory for Visionary Architecture [LAVA]

Location: Masdar, UAE

Client: Masdar Future Energy Company

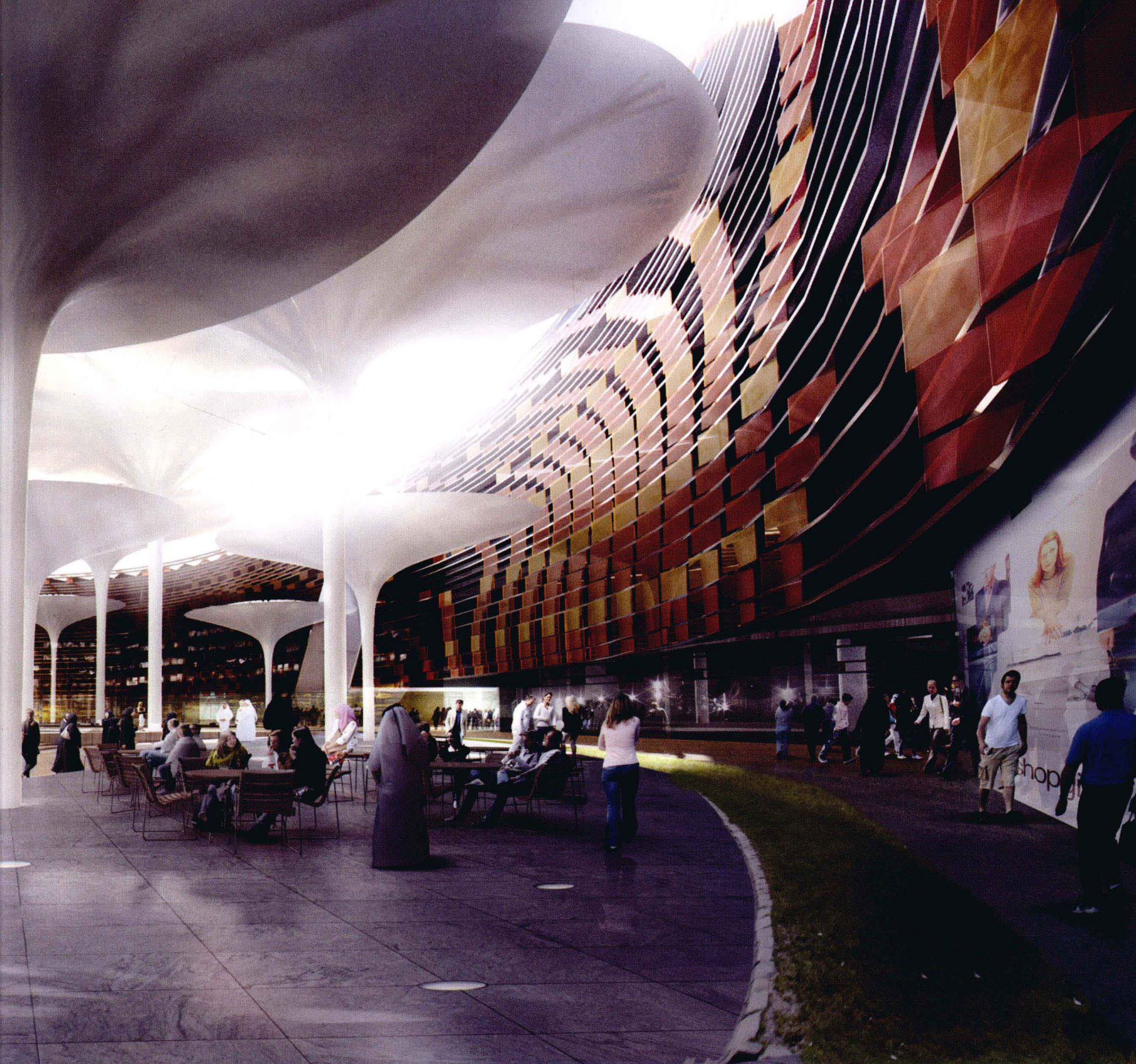
▶ 全球城市未来的幸福都取决于人类发展和整合可持续技术的能力。

马斯达市是未来的城市，定位于将可持续技术和现代技术设计相结合的前沿。在像罗马、雅典、佛罗伦萨等具有重要历史意义的城市中心，都设有广场、集会场所或者方形广场，人们的活力、价值、理想和幻想都在此产生。同样，马斯达市中心也要有这样一个标志性建筑，将全世界的目光集中到可持续技术上来。

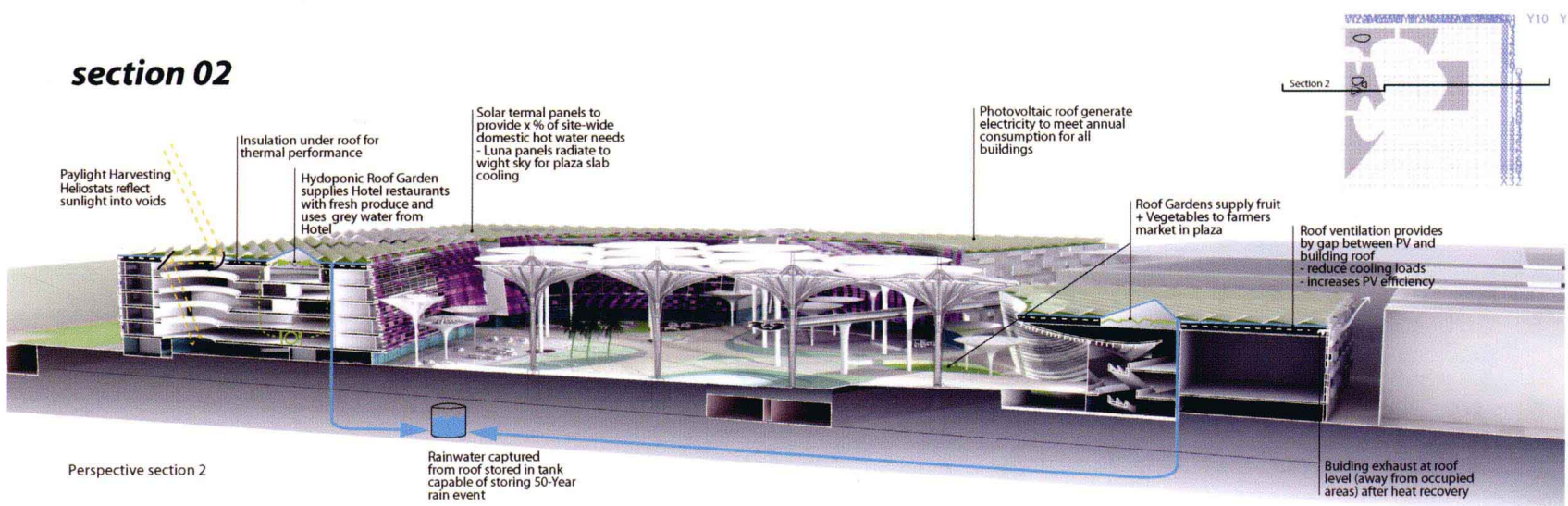


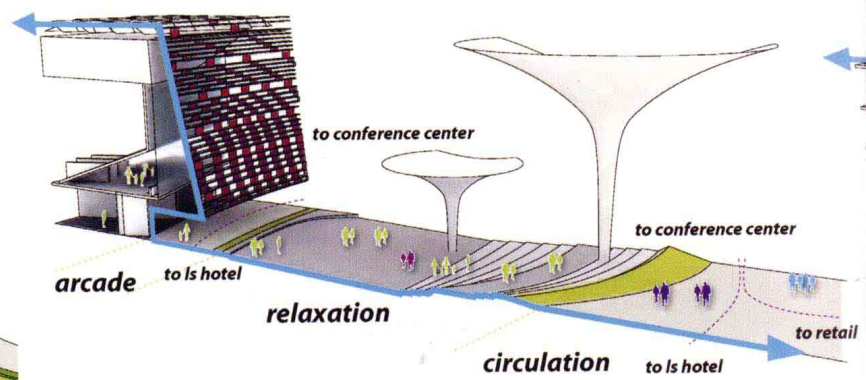
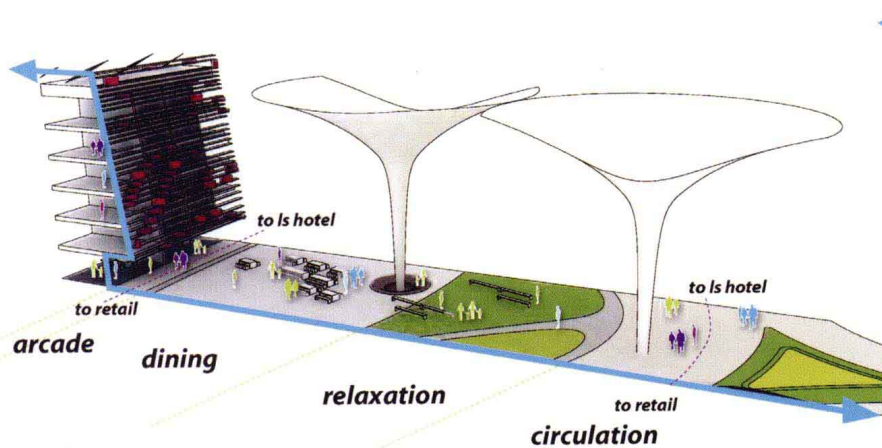
The future well being of cities around the globe depends on mankind's ability to develop and the sustainable technology.

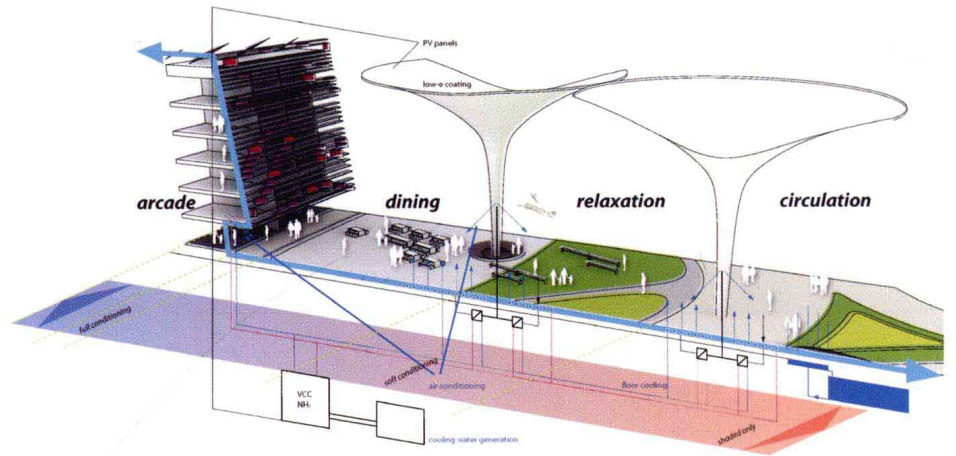
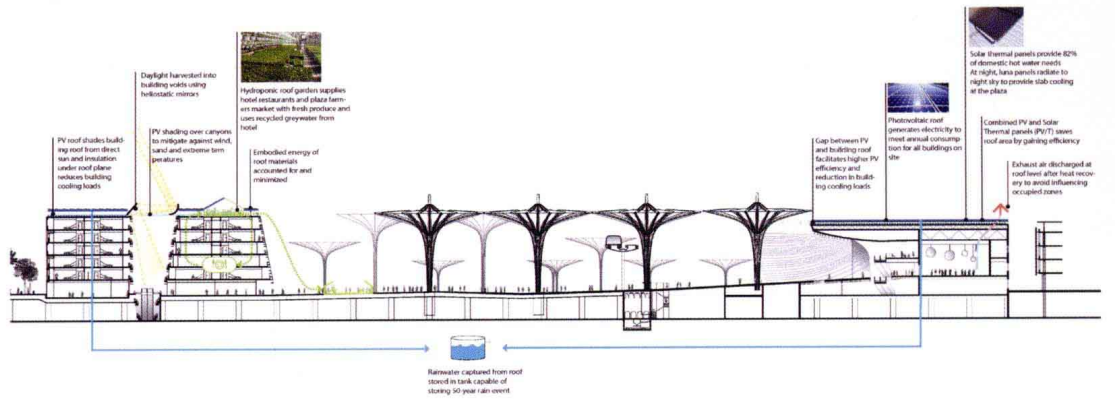
Masdar City is the city of the future; positioned at the forefront of integrating sustainable technology into modern architectural design. Rome, Athens, Florence, most great historical cities have had the plaza, forum, or square at their epicentre – where the life, values, ideals, and vision of the population evolved. Equally, the centre of Masdar must be an iconic beacon that attracts global attention to sustainable technology.



**section 02**







### 未来的绿洲

马斯达广场被看做是“未来的绿洲” – 拥有生动、活跃、舒适的环境，人们在此交流互动，使可持续技术的使用和益处更为突出。

因此，我们的设计方案集中于3个重要问题的解决：

1. 性能 说明在现代，有活力和形象建筑的环境下可持续技术的使用和益处。
2. 激活 一天24小时，一年365天，根据这一环境的功能性需要激活或操作可持续技术。
3. 互动 鼓励和刺激社会原动力，马斯达人民的活力、价值、理想和幻想都在此产生。

“未来的绿洲”营造了一个开放的空间，不管是旅馆、会议、购物或休闲时光，这里都能提供最高水准的室内外的舒适感和互动空间。

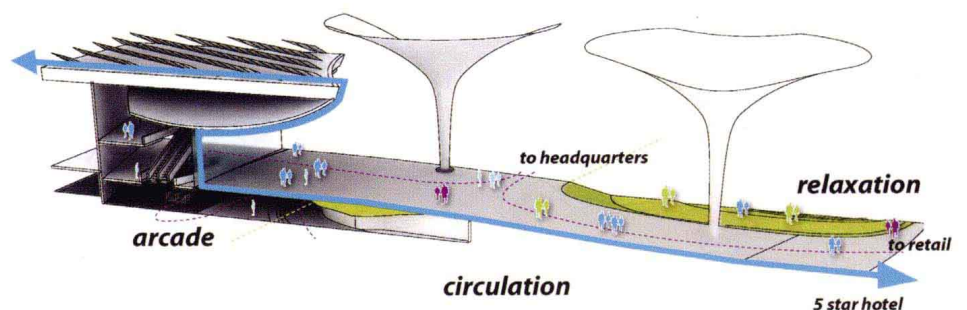
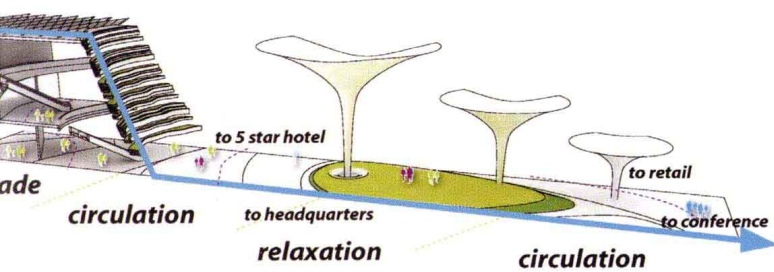
### Oasis of the Future

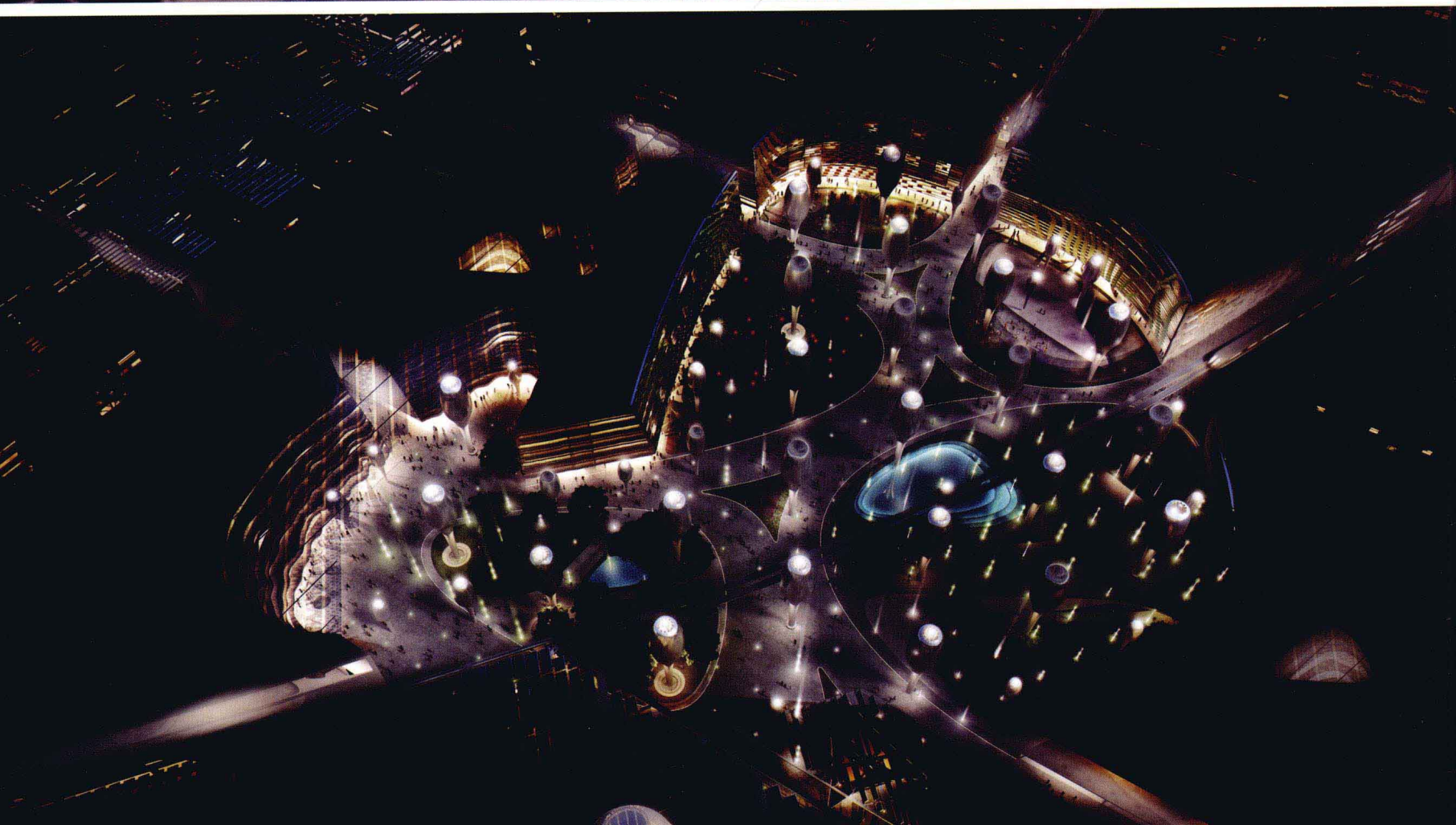
We see Masdar Plaza as "The Oasis of the Future": a living, breathing, active, adaptive environment; stimulated by the social interaction of people, and spotlighting the use and benefits of sustainable technology.

Hence, our design proposal focuses on the delivery of three key issues:

1. Performance to demonstrate the use and benefits of sustainable technology in a modern, dynamic, iconic architectural environment.
2. Activation to activate or operate the sustainable technology in accordance with the functional needs of this environment, 24 hours a day, and 365 days of the year.
3. Interaction to encourage and stimulate a social dynamic where the life, values, ideals, and vision of the population of Masdar evolve.

The "Oasis of the Future" is conceived as an open spatial experience, whereby all features; whether hotel, conference, shopping, or leisure, offer the highest quality of indoor and outdoor comfort and interaction.







#### ▶ 旅馆

我们的五星级旅馆在“中心峡谷”周围，通过为零售提供场所的“峡谷”与延长停留时间的设施相连。中心峡谷是个深藏在建筑中仅白天开放的空间，连通旅馆的餐厅和舞厅与游客的文娱场所。

旅馆的入口和大厅位于中庭，为游客提供一个方向上的即时广场景色和另一方向上的公园绿地。

#### 会议中心

广场的西部边缘为会议中心提供了大片空地和进入大厅的捷径。我们所设计的会议中心大厅就像一座巨大的，浸在灯光里的大山洞，为会议设施提供了在背景中指定的广场。

流过广场边缘的建筑表面令人惊叹的“侵蚀作用”设计，由水文特征进行补充，也为第二讲台和零售许可提供场所。

这个壮观的会议设施有个巨大的洞穴环境，给所有的游客留下难忘的印象。

“马斯达广场，未来的绿洲”将在真正充满智慧的城市中创造出形象会场。

“马斯达广场，未来的绿洲”融汇了全球科学、技术和建筑方法中最高层次的知识。这是形象建筑特征，前沿的可持续设计和技术的智慧平衡。

#### ▶ Hotel

Our 5 Star Hotel is organised efficiently around a "Central Canyon" and is linked to the Extended Stay Facilities via a "gorge" housing Retail premises. The Central Canyon is a day - lit space deep within the building, connecting the hotel's restaurants and ballrooms to the guest amenities.

The hotel's entrance and lobby, located at the base of the atrium, offers guests an immediate view out onto the Plaza in one direction and the green of the park in another.

#### Convention Centre

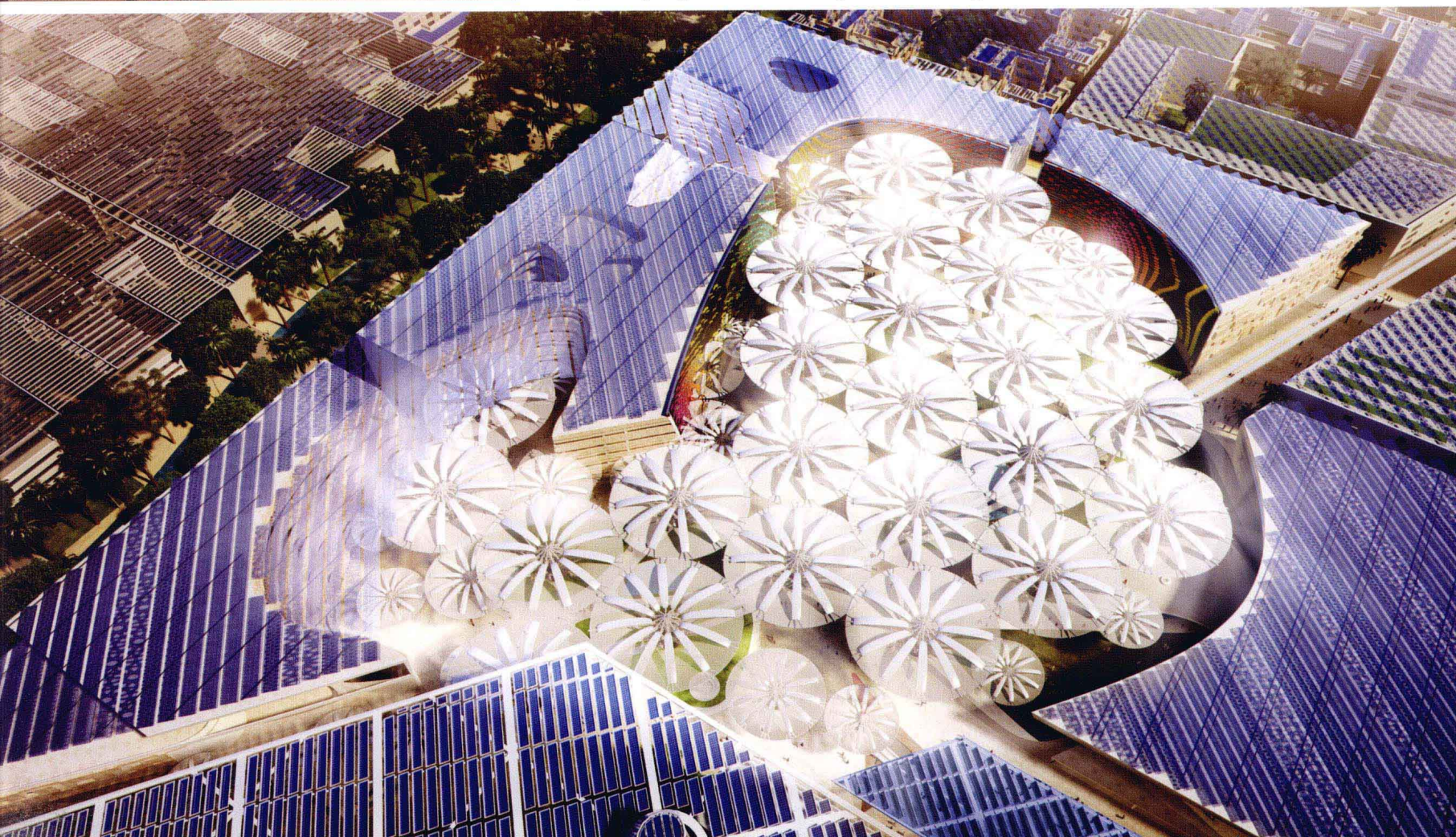
The western edge of the Plaza rises to create the Convention Centre forecourt and ascends as a continuous path into the lobby area. Our design of the Convention Centre Lobby resembles an enormous, light-soaked cavern, providing an enclosure for the conference facilities with the Plaza framed in the background.

The awe-inspiring "erosion effect" design of the facade that flows across this edge of the Plaza is complemented by water features and also houses the sub - podium PRT and Retail concessions.

This spectacular conference facility, with its gigantic cavern atmosphere, will leave a lasting impression on all visitors.

"Masdar Plaza, The Oasis of the Future" will create an iconic venue within a truly visionary city.

"Masdar Plaza, The Oasis of the Future" incorporates the highest level of knowledge and expertise in science, technology, and construction methodology, globally. It is an intellectual balance between iconic architectural identity, cutting edge sustainable design and technology.











# PLANNING AND ARCHITECTURAL DESIGN COMPETITION OF CENTRAL BUSINESS AREA OF HULI TECHNOLOGY PARK, FUJIAN PROVINCE

## 厦门湖里高新技术园中心商务配套区规划与建筑设计

设计机构：城市规划顾问有限公司  
项目地点：福建省厦门市  
占地面积：22.37 公顷  
建筑面积：大于 50,000 平方米  
项目客户：厦门城市规划局，厦门市湖里区政府

Architects: TOWNLAND Consultants Limited  
Location: Xiamen, Fujian Province  
Site Area: 22.37 ha  
GFA: >50,000 square metres  
Client: Xiamen City Planning Bureau and Xiamen City, Huli District Government

厦门城市规划局和厦门市湖里区政府委托特伦承担湖里区科技园（22.37 公顷）中央商务区的规划和建筑设计。科技园位于厦门本岛东北部，北毗厦门高崎国际机场和现有的航空工业区，南接五缘湾，西邻火炬光电园，东近墩上海滨公寓。设计概念的灵感来自于中国传统戏曲中表演者优美的循环舞动。建筑物从会展中心的中央圆形空间呈放射状往外分布，这种运动形式使建筑物与景观形成了一种回波，也令会展中心成为了中央商务区的焦点。

TOWNLAND was commissioned by the Xiamen City Planning Bureau and the Xiamen City, Huli District Government to undertake the Planning and Architectural Design for the Central Business Area of Huli Technology Park (22.37ha). The Technology Park is located in the northeast of Xiamen Island and is surrounded by Gaoqi International Airport and an existing Aviation Industrial District to the north, the Wuyuan Bay Area to the south, the Huoju Guangdian Park to the west and the Dunshang Waterfront Residences to the east. The Park will operate as a centre for Research and Development in the City and will be supported by a Central Business Area. The main design concept was inspired by the graceful circular flow of a dancer's silk sleeves in traditional Chinese opera. This form of movement is echoed in the shape and form of the buildings and landscape as they radiate outwards from the central circular space of the Convention Centre which is the Central Business Area's focal point.

