





**滨海枢纽** 深汕海滨核心

#### The coastal Hub The Heart of Shenshan's Waterfront

"滨海枢纽"是深汕滨海区域的核心。作为宏大而慷慨的城市设计策略, 滨海枢纽将沿海的黄金位置向公共开放,打造为公共休闲场所。沿海枢纽 将连接并整合整个深汕海岸线,一切可能性都会在此发生。

滨海枢纽作为沿海地区的脊柱将覆盖深汕全部海岸线,形成强大而灵活的结构,成为深汕滨海区的核心。 沿长度方向,滨海枢纽将结合美丽的步道系统以及领先的智能交通系统,将人们引导到各个区域;沿宽度方向,它将生长并渗透到城市之中,丰富邻近的城市即理,并充分享受美丽的滨海环境。 作为远近游客的目的地,滨海枢纽将紧密地连接大陆和海洋。

At the heart of Shenshan coast we will grow the Coastal Hub. In a grand and generous urban gesture, the best part of the waterfront is designated for public recreation all along the coast.

The coastal hub will unite and connect all of Shenshan's coast as an elongated public realm where everything can happen. Where everything is possible.

The strong coastal spine will be spread along the sea front, creating a powerful and flexible structure as the core of the waterfront city. The new coastal hub will connect people to places lengthwise – with many beautiful walking routes combined with high level service of smart public transport, and width wise – it will grow its branches to enrich the adjacent urban fabric as well as enjoy the beautiful aquatic environment. Designed as a destination for visitors from close and afar, the hub will be inherently connected both to the land and to the sea.







#### 深汕滨海枢纽步道 Shenshan Coastal Hub Promenade

滨海枢纽长廊是沿海区域另一条主要路线。这条步道充满蜿蜒的步道,布满各种活动和丰富的景观 吸引人们沿海岸漫步,享受繁忙

都市之外的美丽自然的海景、树林。同时,滨海枢纽步道也保护城市免受海平面上升和海浪袭击的影 响。沿着滨海步道将设有海滩酒吧、海滩设施、安全和救生员服务

The Coastal Promenade will function as an alternative route. This Ine Coastal Promenade will function as an alternative route. Inis route carries the task of allowing movement along the coast in a meandering manner; a walk whose main purpose is the enjoyment of the sea scape, the groves, pockets of activities, the rich landscape — without immersing in the urban heatic adily life.

But the Hub has an additional role in keeping the city safe from sea

level rise and sea storms.

Along the Promenade will be situated beach bars, beach facilities, safety and life guard services etc.





#### 海滨森林 **The Coastal Forest**

海滨森林位于城市与海洋之间。这片重要的森林中拥 有蜿蜒的步道。天然雨水池塘,自然的泳池,并提供 各种京饪和文化体验。同时,这片人工森林及其中的 一些列水池系统也是抵御台风和洪水的无效屏障。 都市森林是休闲和享受自然的好去处。步行到海边沐 浴仿宋,在忙碌的都市生活中享受闲暇。 无论从酒店房间还是家门口出发,到海边的路途都是 令人兴奋的旅程。

The coastal forest lays between the city and the sea. This important forest features meandering footpaths, natural rainwater ponds, natural looking swimming ponds, and various culinary and cultural experiences. The artificially grown forest, along with a series of water ponds, also functions as a barrier against typhon gales and floods. The urban forest is the place to relax and enjoy nature, just a breeze from the busy city life. It is the way to walk to the sea for bathing and relaxing. The route to the sea becomes an exciting trip just outside your doorstep, be it the hotel room or your home.













# 海洋世界

# **Marine World**

海洋世界是一个庆祝海滩和海洋生物的户外博物馆,提供沉浸 式和互动性的独特教育体验。海洋世界将拥有研究和学术中心,领导区域和国家海洋科学工

作,探索海洋以及其中独特而神秘的生物。

拟建的博物馆将结合公众开放区域以及包含室内观察和游览的 商业功能。此外,海洋世界将当地渔民纳入研究,指导和帮助 当地渔业发展, 在海洋农业、海洋保护和物种保护之间取得平

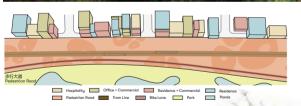
The Marine-World is an outdoor museum that celebrates beach and sea-life, offering a unique educationa experience, immersive and interactive; natural and sensorial.

The Marine world will host a research and academic center and will lead regional and national scientific work that will explore the sea and the unique and mysterious life in it.

The proposed Museum will combine an area that is open to the public as well as a indoor observations and guided tours.

Moreover, this institute will incorporate local fishermen in research, guidance and information, in order to help local fishery balance between sea agriculture, marine conservation and species protection. The Marine World will also take part in the monitoring and prediction of weather and sea changes, as well





#### 友好的沿海交通与连接 Friendly Coastal Mobility & Connectivity

任何新建城市的主要成功因素之一都是通过友好、智能和灵活的基础设施而实现自由高效的连通、深汕沿海地区是打造终极海滨连通体验的推得机会。与许多现有沿海城市被基础设施与海滩阻隔不同、深汕的海岸应用理想但高效的连接性原则,将清晰的路线与简单的步行街网络相结合,打造键

The freedom to move efficiently in a human friendly, smart and flexible infrastructure is a major factor in any successful new urban fabric. Shenshan's coastal area creates a rare opportunity to form the ultimate waterfront connectivity experience. Unlike many coastal cities in which existing infrastructure blocks the natural free flow to the beach, Shenshan's coast is the place to apply the ideal, yet simplest, connectivity principles. Combining a clear continuous route with a simple perpendicular network of walkable streets, is the best tool for a healthy urban waterfront.

The Car Free Coastal Hub - The 15 km park will allow endless options for walking, cycling, running and resting, connecting the rich chain of activities within the coastal park. Stretched all along the coast it creates continuous flows and supreme accessibility to the beach from every

along the coast it creates continuous flows and supreme accessibility to the beach from every point in the city.

• The Walkable Strip - The organically grown mixed use urban fabric is juxtaposed with a clear network of perpendicular streets which create open views to the sea and lead to the coastal hub. The streets combine pedestrian flow with vehicles, cyclist, and light public transit solutions, in a highly walkable street section.

• The Pedestrian Road - The Hub's pedestrian road connects the coastal strip from end-to-end. The generous space for pedestrians is integrated with a public transport infrastructure that combines trams and light shuttles with bicycle lanes. Its location connects between the rich blend of commercial spaces, hotels, workspaces, dwelling, and institutes to the adjacent wild nature.





# 海边音乐厅 Music Hall

深汕音乐厅融合了海洋和城市生活,是海上文化

深汕首外打戰首,海洋和城市生活,是海上又化的独特地际, 音乐厅位于海洋边缘,其特殊的地理位置位置将 音乐厅与海滩运动景密联系,并创造出令人耳目 一新的多元文化融合方式。 音乐厅以及滨海枢纽中其他公共建筑将具有非凡 的特色。与滨海枢纽相邻的大多数城市用地都比 较紧凑和经济,但音乐厅将成为深汕公共空间以

从四比土活的重要标志。由于音乐厅的滨海位置,我们建议采用源自海洋生物的有机形态,将尖端技术与天然有机形式融合为一个新的"超-自然"形态。 及市民生活的重要标志。

The Shenshan Music Hall offers a rich blend of sea and city life, creating a unique landmark of culture on the sea. Its exceptional positioning on the coast edge will connect it to beach activities and will create a surprising and refreshing mix of diverse cultures, merging into a new type of local culture. One that lives round-the-clock, day or night, weekdays or weekends. The architecture of the Music hall, as well as other buildings in the Hub, will be of exceptional character. While most of the urban fabric adjacent to the Hub will be compact, functional and economic in land use, the Music Hall will become an icon of Shenshan public domain and its importance to the life of this city.

As these buildings' setting borders the edge of the water, it is suggested to study and adopt biological morphologic forms stemming from marine life, thus merging cutting edge engineering with natural organic forms into a new reality, SuperNature, as we phrase it.



#### "国家公园城市"策略

#### The "National Park City" Approach

"超-自然"城市基于现有的自然景观及其动态流动而生成空间布局。新的沿海地区保护自然生态系统,并对城市居民开放。当下在全球范围内的紧迫任务是减少碳排放足迹,将自然引入我们的日常城市与生活中,这也是所有城市居民的共同需求,同时也是生态保护工具,提高人们对环境价值的认识。本着这种精神,海洋和陆地景观与城市设计交织,与自然基础设施一起成长,保护各种栖息地,并使自然成为新滨水文化的一部 分。伦敦之类的老城区已转变为"国家公园之城"以应对当前环境危机,而深汕将与丰富的周围环境进行最大程度的融合,提出一种新的滨水亲生物都市主义。

The SuperNature city takes the existing natural landscapes and its dynamic flows as the predominate generator of its layout. The new coastal area is built to support and preserve the natural ecosystem, and at the same time to make it accessible to city dwellers. Our global and urgent mission to leave minimal foot print is combined with the quest to bring nature to our dailly urban life, a quest which is seen as a major need of all urbanites, but also a protective tool which builds awareness to its value. In this spirit, aquatic and terrestrial landscapes are intervoven in the urban design which grows together with the natural infrastructure systems, protects the various habitats and makes nature part of the new waterfront culture. While old cities like London are turning these days into a "National Park City" in order to deal with the current environmental crisis, Shenshan is designed in maximal integration with its rich surrounding landscapes to propose a new biophilic urbanism on the waterfront.





多样性是任何目的地域市的成功关键。尤其对于新建城市,实现多样性是一个巨大的挑战,需要一套清晰的城市设计原则和工具,新的沿海枢纽将成为城市即理的丰富混合体,从总体市局到区域特征都发挥积极作用,从总体上看,该规划将将不同城市加速有机混合,从高密度城市到零星散落的建筑。在此过程中,丰富多样且特定加速与传统用地加速创度融合。以实现多样丰富的现代城市的有机发展。

Diversity is a key to any successful urban destination. However, achieving it in a newly built city is a real challenge and requires an articulate set of urban design tools. The new coastal hub is designed as a rich mixture of urban environments which works in all aspects - from the general layout and unto the specific characterization of each area. In the overall scale, the plan offers a diverse combination of very different urban environments; From high density urban ones to the most sporadially built ones. Along this move, the particular different fobrics are all designed to statutorically allow creative combinations of traditional uses in order to enable an organic growth of a multifaceted rich and contemporary urban fabric.





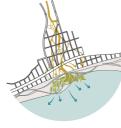
















### 深汕城市三角洲 Shenshan's Urban Delta

深汕城市三角洲将高密度城市和林立的摩天大楼,与野生自然融合,创造自然与人工之间的有机协调。 大人、车辆和水系混合成一个整体,共同通向大海。在深汕城市与海洋的交汇处,我们设计了具有生态修复功能的三角洲区域,不仅能过滤域市雨水排放,还邀请游客和居民在茂密的植被和湿地公园中畅游。





# 百安生态旅游区

# Bayan Eco Tourism Zone

百安半岛拥有迷人的日落景色,是生态旅游的理想目的地。 生态 The beautiful Bayan Peninsula, with its mesmerizing sunsets, is an ideal destination for ecotourism — 度假村嵌入于自然环境中,通过狭窄的小路将游客引向解静的框 where ecological resorts are embedded in the natural surroundings, connected by narrow paths that lead visitors to secluded rocky beaches.

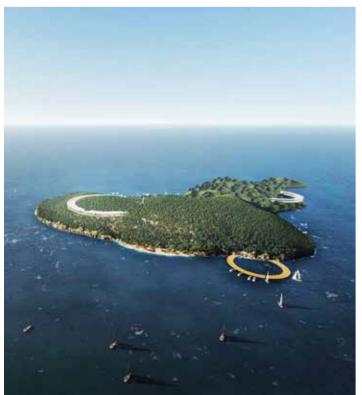




# 芒屿岛生态圏地标

#### Mangyu Island **Ecosphere Landmark**

位于海湾的中心的芒屿岛是深汕可持续发展的地际。它的自然风 光和显著位置使该岛成为深汕海湾的 "绿色灯塔",并成为各种 生态提议的中心。 它与世隔绝的生态系统形成了一个独特的性 整整。 生态圈博物馆位于岛的北坡,是一个独特的圆形地际,可以欣赏 土部丽景色。 从沿海的每一个角度看,它对游客和国民都具有相 当的吸引力,其启发性的展览揭示了绿色地球的未来潜力。 爬上岛顶种楼的游客都尽低深汕湾的美景。





















# 鲘门镇片区 Houmen Town Area

我们认为现状渔村的文化价值与空间情感温度弥足珍贵,我们也因此贯彻一直以来所主张的和谐共生、有机更新的原则对村潜进行更新改造。在村落中我们总能发现人们对于大自然的吸导与尊重。富有海洋文化特色的习俗与生活方式以及邻里家族间的亲密互动。这些都是我们努力延续的文化遗产。

We believe that the cultural value and spatial emotional memory of the current fishing village are precious. Therefore, we have implemented the principle of harmonious symbiosis and organic renewal that we have always advocated to renovate the village. In the village, we can always find people's awe and respect for nature, customs and lifestyles rich in marine culture, and intimate interactions between families in the neighborhood. These are the cultural heritages we strive to continue.















# 鲘门站滨海片区 Houmen Station Area

新门站滨海片区的一个主要特点是其中轴绿道,是一条1公里长的立体街区,整合了所有的公共交通系统。创新的城市功能与滨海导现优势使深汕滨海片区成为一个有吸引力的目的地。 新门报纽站作为来访深汕的起点,立体街道通往山海的体验将带给人们难忘的空间印象。

乘坐高铁到达鲘门站,沿着绿色小道轻松漫步即可将 访客换成当地的公共交通或者出租车,沿着滨海步行 道乘坐轻轨电车观光海岸线其余部分。

A key feature of the Houmen Station Area is its central greenway, a 1 km long pathway that links together all of the wide ranging transportation options, landuse zones, and landscape features that make Shenshan such an attractive destination. As the entry point for many visitors to Shenshan, the breathtaking walk from the station down to the sea (or perhaps up to the mountains) will leave an unforgettable first impression.

After arriving by highspeed rail to Houman Station, an easy stroll down the greenway will quickly connect visitors to the rest of Shenshan via a local bus stop, a taxi ride down the regional road, or a scenic ride on the coastal tram.







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LIVING SHORELINE

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URBAN CENTERS

### 与自然共建

### **Building with Nature**

海滩保育 将赤石河的水流沿海岸转移,促使沉积物积聚,防 止海滩受到侵蚀,并为红树林的生长提供新的土 壤。生态海滩系统的加入进一步支持了海滩的保育 和增长,从而创造美丽、可持续的海滩,改善通往 大海的通道,并为旅游业发展创造机会。

红树林保护和湿地 红树林是独特的沿海生态系统,可提供重要的栖息 地、支持生物多样性,并为风暴新和波浪能提供天 统的缓冲、红树林通过蒸粉作用净处空"井湖市冰 位"。 改善居民的生活质量,创造出完美的生态旅游

海绵区域
在城市中设计绿色空间可以有效改善空气质量,创造绿化公园,并减少不透水的区域美面积。这些海缐定将吸收障碍径流,减减少流源溢流,预防破坏性的洪水或泥石流。在沿海地区种植耐盐植物,创造 可持续的环境,并允许适当的洪水发生。 高地地区 的树木、灌木和花卉的本地物种打造了城市森林。 将大自然引入城市。

生态防浪堤 在海湾内创建一系列人工岛屿,为体验自然环境的旅游业创造更多机会。同时人工岛屿能有效抵衡沿海风暴,海浪的冲击经过岛屿时会有效分散,从而 有效降低水位, 并分散可能会破坏海岸建筑和海滩 的能量。

架高的海滨长廊 滨海长廊将城市中心与沿海地区连接,沿着俯瞰大 海的沙滩创造轻松而活跃的场所,滨海长廊采用韧 性材料设计,并经过抬高以抵御轻型沿海洪水。

#### 滨海公园

滨海公园位于城市和海岸线之间的低洼地带,缓冲市区免受风和洪水的侵蚀。本地以及耐盐物种遍布 公园,为自然环境提供了长期复原和广袤生长空 间,同时成为游客和市民的目的地

BEACH NOURISHMENT
Capturing flow from the Chishi River and diverting it along the shore allows for the accumulation of sediment, protecting against beach erosion and providing new land for mangrove growth. The addition of the Ecoplage system further supports the preservation and growth of the beaches. This creates a beautiful, sustainable beach, improving access to the sea and providing opportunities for tourism

#### MANGROVE PRESERVATION AND WETLAND AREAS

Mangrowe forests are unique coastal ecosystems that provide critical habitat, support biodiversity, and create a natural buffer against storm surge and wave energy. The mangrove trees purify or and mitigate water levels through evapotranspiration, improving the quality of life for residents and creating beautiful spaces perfect for

#### SPONGE 7ONES

SPONGE ZONES
Designing green, verdant spaces into the city improves the air quality, creates
park space for recreation, and reduces the impervious surface area. These sponge
zones absorb rainfall runoff, slowing down excess water that might otherwise cause
destructive flooding or mudslides. Planting salt-tolerant species along the coast
creates a sustainable environment that can be allowed to flood on occasion. Native
species of trees, shrubs, and flowering plants in the upland areas create urban
formet beliefing parture into the offit. forests, bringing nature into the city.

#### ISI AND WAVERDEAK

ISLAND WAYEBREAK

Creating a chain of artificial islands within the bay affers additional apportunities for experiencing the natural environment through tourism and creates a wavebreak to help protect against coastal storms. The wavebreak functions by creating friction at the bottom of the water column as the wave passes over, causing it to break or tip over. This reduces the effective water level by the height of the wave and dissipates wave energy that would otherwise cause destruction to shoreline structures and

RAISED PROMENADE

The One Mille Promenade connects the urban centers to the coast, providing a relaxing yet active space along the beach that looks out over the sea. The promenade is designed with resilient materials and is elevated to create a barrier against minor coastal flooding.

#### COASTAL PARK

CUBBINE PARK.
The coastal park occupies the low-lying land between the city and the shoreline, buffering the urban areas against winds and flood waters. Native and salt-tolerant species populate the park, providing long-term resilience and space to gather within nature. The park can be a destination for tourists and residents of the city



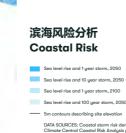


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#### 历史上的土地用途 **Historic Use of Land**

对现有农场和鱼塘的分析表明,它们位于水体和现状溪流附近。这表明最容易发生洪水的土地历史上已被用于农业和水产养殖。这些区域应尽可能保留为绿色海绵。区,其上建造的城市应结合绿色街道和其 他海绵策略, 以吸收高地的降雨径流。

An analusis of the existing farms and An analysis of the existing forms and fish pands shows that they are located near water bodies and existing streams, suggesting that the lowest lying land most prone to flooding has historically been used for agriculture and aquoculture. These areas should be preserved as green sponge zones where possible. Urban areas built on this land should incorporate gree









#### 滨海灾害与韧性生态框架 **Coastal Hazards and Resilience Framework**

设计从开始就充分考虑潜在的生态危害和风险,使设计能够在保障自然生 杰系统的同时, 将这些挑战转化为娱乐和投资的机会。由于风暴潮, 海平 面上升和降雨径流,深汕合作区有可能遭受洪水的侵袭。极端风暴引起的 强风和泥石流是另一个重要的考虑因素,同时必须防止沉积物侵蚀、城市热量以及自然生态栖息地的丧失。

营造健康自然环境的设计策略可以使城市变得更具韧性和乐趣。同时引导 经济投资用于负责任地人口增长,增强和恢复自然系统,修复自然资源, 支持当地环境和经济的共生经济。

Accounting for potential hazards and risks from the outset of the design process allows us to Accounting for potential nazaras and risks from the outset of the design process allows us to turn these challenges into opportunities for recreation and investment while supporting the natural ecosystem. The Shenzhen Shenshan Cooperative Zone is subject to potential flooding due to storm surge, sea level rise, and rainfall runoff. Strong winds and mudslides caused by extreme storms are another important consideration. Sediment erosion, urban heat, and the loss of natural ecological habitat must also be protected against.

Selecting solutions that foster a healthy natural environment leads to a more resilient and enjoyable city. Channeling economic investment to responsibly allow for population growth while enhancing and restoring natural systems creates a symbiotic environment in which the natural features support the local health and economy.