# THE CHINESE UNIVERSITY OF HONG KONG VORLD CLASS CAMPUS THAT WILL ATTRACT AND RETAIN RIGH-CLASS STUDENT LECTURERS AND RESEARCHES FROM DIFFERENT EDUCATIONAL AND ETHNIC BACKGROUNDS. 香港中文大學校閱設計必須達到世界級一流水平,以吸引不問背景, 民族最優秀之教研人材 香港中文大學 PRELIMINARY CAMPUS MASTER PLANNING PROPUSAL初步校園發展計劃 BUILDING FOOTPRINT AND THE OVERALL CUHK SITE WILL REMAIN CLOSE TO THE EXISTING RATIO. THIS IS TO PRESERVE THE NATURAL ENVIRONMENT, MINIMIZE COST, AND KEEP THE AESTHETIC AND VISUAL IMPACT OF THE CAMPUS INTACT. Internal and external relationships and links; Active public pedestrian street; Opportunities to enhance existing building identity 盡量減少建築物對地面空間的影響。保證新增之建築物不會影響整體 校園的級化率。以保護天然環境及現有校廳之美期。 Accessibility and movement – public transport connections, cycle and pedestrian provision, car parking strategy, servicing arrangements; • Public realm guidelines for hard and soft landscape GROWTH OF FLOOR AREA OVER TIME 建築物之增長 treatments including the continued use of local tree species and intensity zoning; GATEWAY (OPTION 1) 入口門廊 (方案一) • 加強建築物個性 ·可達性及流動性 — 與公共交通之連接,單車及行人系 統,停車場及公共建設 ・舗地及緑化盡量使用原有風 CREATING COMFORTABLE AND EXCITING PEDESTRIAN ROUTES FOR A WALKABLE AND VEHICLE-FREE CAMPUS LIFESTYLE THAT IS SEAMLESS AND BARRIER-FREE. THIS IS CRITICAL NOT ONLY FOR SUSTAINABLE PRINCIPLES BUT ALSO FOR PROMOTING INTERACTION BETWEEN PEOPLE WHICH DEVELOPS A STRONG 从步行為主的校園 校課設計應備有部渡及精彩的步行系統。 這方面對選換保護, 節能及增進學生互動尤為重要。 EENING OVER ROOFTOPS FOR ENERGY COOLING AND INFORCING THE GREEN AESTHETIC VIEW. THE PLAN AIMS EEP EMISSIONS FROM BUILDINGS LOW AS WELL AS ODUCE GREENING BUILDING TECHNOLOGIES FOR NEW 提升,保護現有之線化及生態環境。與此局時增加線化天台及完善線 化景觀。減少新建築之有害物質排放,在現有之建築物上增加各種線 Exiting building 現有總字 GATEWAY (OPTION 2) 入□門廊(方案二) **CONSERVATION OF ECOLOGICAL CONDITIONS** OSTERING MORE SPACES FOR CASUAL INTERACTION MONGST A DIVERSE GROUP OF STUDENTS BY DESIGNING ICTIVATED PUBLIC OPEN SPACES AND LINKING THESE SPACES WITH STRONG PEDESTRIAN PATHS. THESE TOWN SQUARES HELP PROMOTE OPEN SPACES LEARNING AND FURTHER SOLIDIFIES THE IDENTITY OF EACH COLLEGE WITH ACTIVE 孕育校萬空間成為一個重學生討論交流的廣場,再配合完善的步行系 統,這些校園廣場設計不但增進學生之間的交流及學習氣氛,也大大 加強了不同書院的獨特個性。 and with the addition of pathways and furniture. All MULDING NEW BUILDINGS AN THE STATE OF THE STATE OF MAKE SURE THE SPACES CAN BE FLEXIBLE AND ADAPT FOR EXPANSION AND FURTHER SERVICING FOR FUTURE NEEDS AND PLANNING INFRASTRUCTURE. BECAUSE THE USES OF BUILDINGS CAN CHANGE OVER TIME. THIS FLEXIBLE CONCEPT IS INTEGRAL TO KEEP A CAMPUS VITAL AND DYNAMIC FOR MASTER LAYOUT PLAN

# THE CHINESE UNIVERSITY OF HO 香港中文大學

PRELIMINARY CAMPUS MASTER PLANNING PROPO 初步校園發展計劃

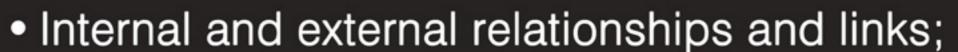






# ING KONG

# **SAL**



- Active public pedestrian street;
- Opportunities to enhance existing building identity and character;
- Accessibility and movement public transport connections, cycle and pedestrian provision, car parking strategy, servicing arrangements;
- Public realm guidelines for hard and soft landscape treatments including the continued use of local tree species and intensity zoning;

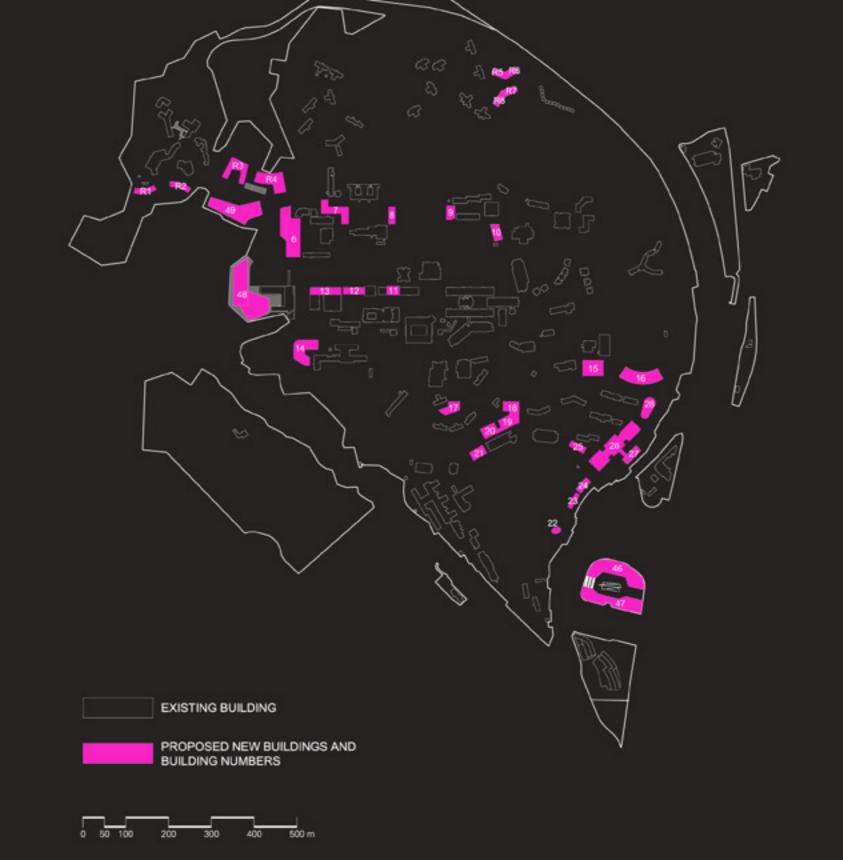


- 動感公共行人通道
- 加強建築物個性
- •可達性及流動性 與公共交通之連接,單車及行人系統, 停車場及公共建設
- 舖地及綠化盡量使用原有風



BUILDING NO.	NO, OF STOREY		
Phase A	Phase A		
2	8		
3	8		
13	10		
17	8		
18	6		
19	7.5		





22	24	
Phase B  1	26	
Phase B  1	Phase B  1	
Phase B  1	Phase B  1	
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podium car park 1	46 3 47 3	
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THE CUHK CAMPUS MASTERPLAN HAS BEEN DESIGNED AS A WORLD CLASS CAMPUS THAT WILL ATTRACT AND RETAIN HIGH-CLASS STUDENT LECTURERS AND RESEARCHES FROM DIFFERENT EDUCATIONAL AND ETHNIC BACKGROUNDS.

香港中文大學校園設計必須達到世界級一流水平,以吸引不同背景, 民族最優秀之教研人材

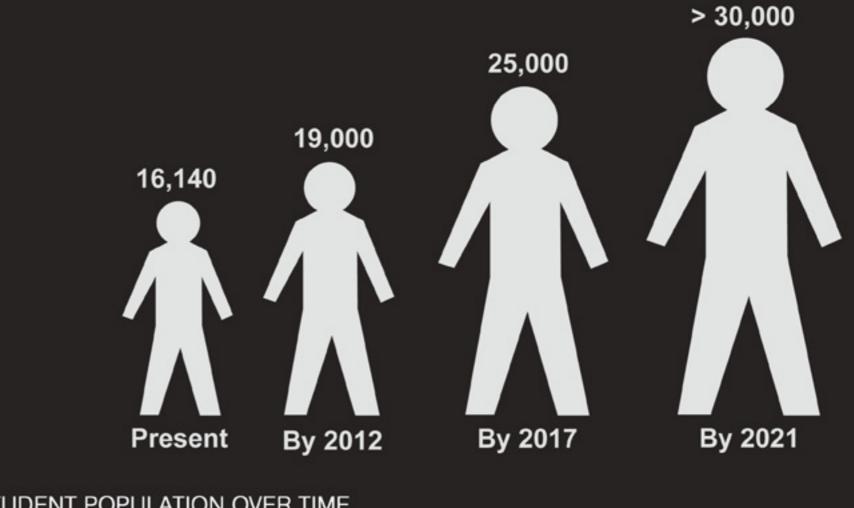












STUDENT POPULATION OVER TIME 學生人數之增長





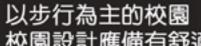
GROWTH OF FLOOR AREA OVER TIME 建築物之增長

## WORLD CLASS UNIVERSITY 世界級校園





CREATING COMFORTABLE AND EXCITING PEDESTRIAN ROUTES FOR A WALKABLE AND VEHICLE-FREE CAMPUS LIFESTYLE THAT IS SEAMLESS AND BARRIER-FREE. THIS IS CRITICAL NOT ONLY FOR SUSTAINABLE PRINCIPLES BUT ALSO FOR PROMOTING INTERACTION BETWEEN PEOPLE WHICH DEVELOPS A STRONG AND HEALTHY CAMPUS COMMUNITY.





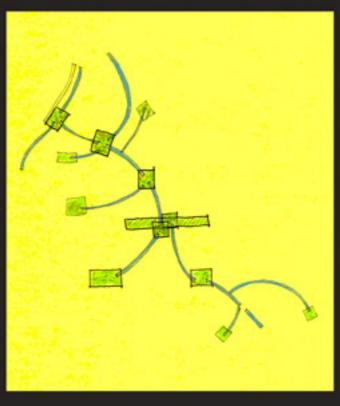


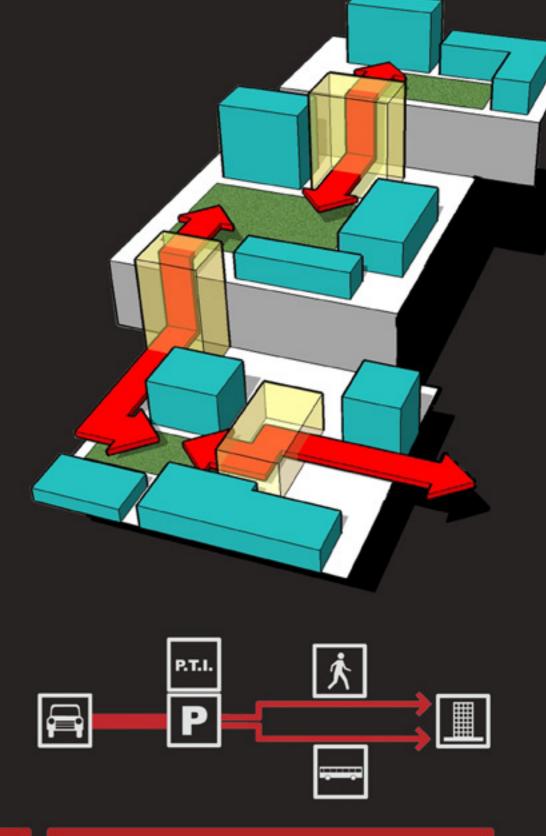
















# PEDESTRIAN FRIENDLY 以步行為主的校園







FOSTERING MORE SPACES FOR CASUAL INTERACTION AMONGST A DIVERSE GROUP OF STUDENTS BY DESIGNING ACTIVATED PUBLIC OPEN SPACES AND LINKING THESE SPACES WITH STRONG PEDESTRIAN PATHS. THESE TOWN SQUARES HELP PROMOTE OPEN SPACES LEARNING AND FURTHER SOLIDIFIES THE IDENTITY OF EACH COLLEGE WITH ACTIVE STUDENT LIFE.

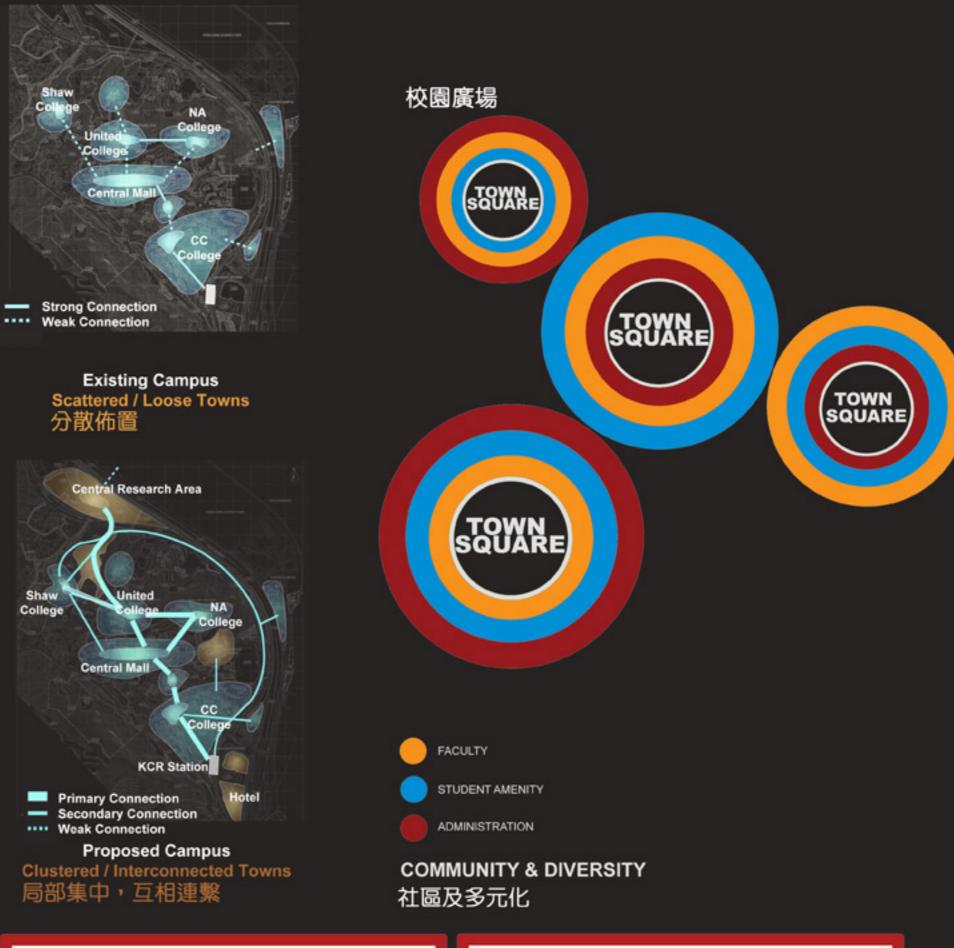


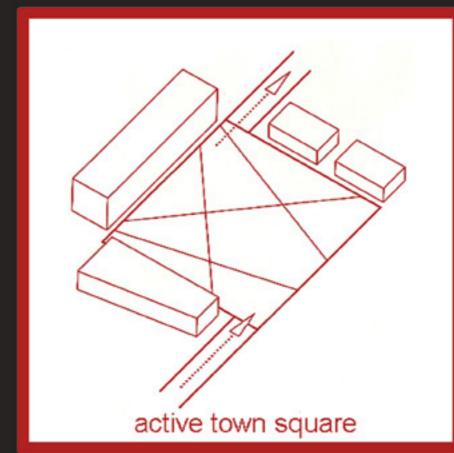
孕育校園空間成為一個讓學生討論交流的廣場,再配合完善的步行系統,這些校園廣場設計不但增進學生之間的交流及學習氣氛,也大大加強了不同書院的獨特個性。

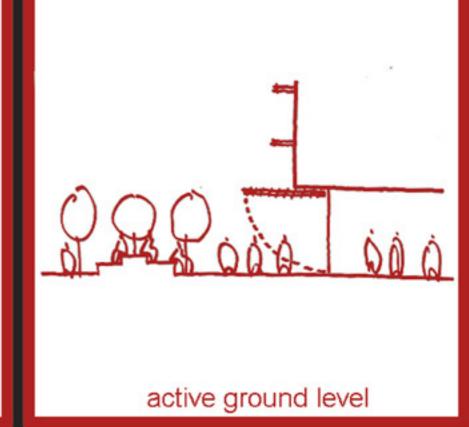




ACTIVE TOWN SQUARE 富動感的校園廣場















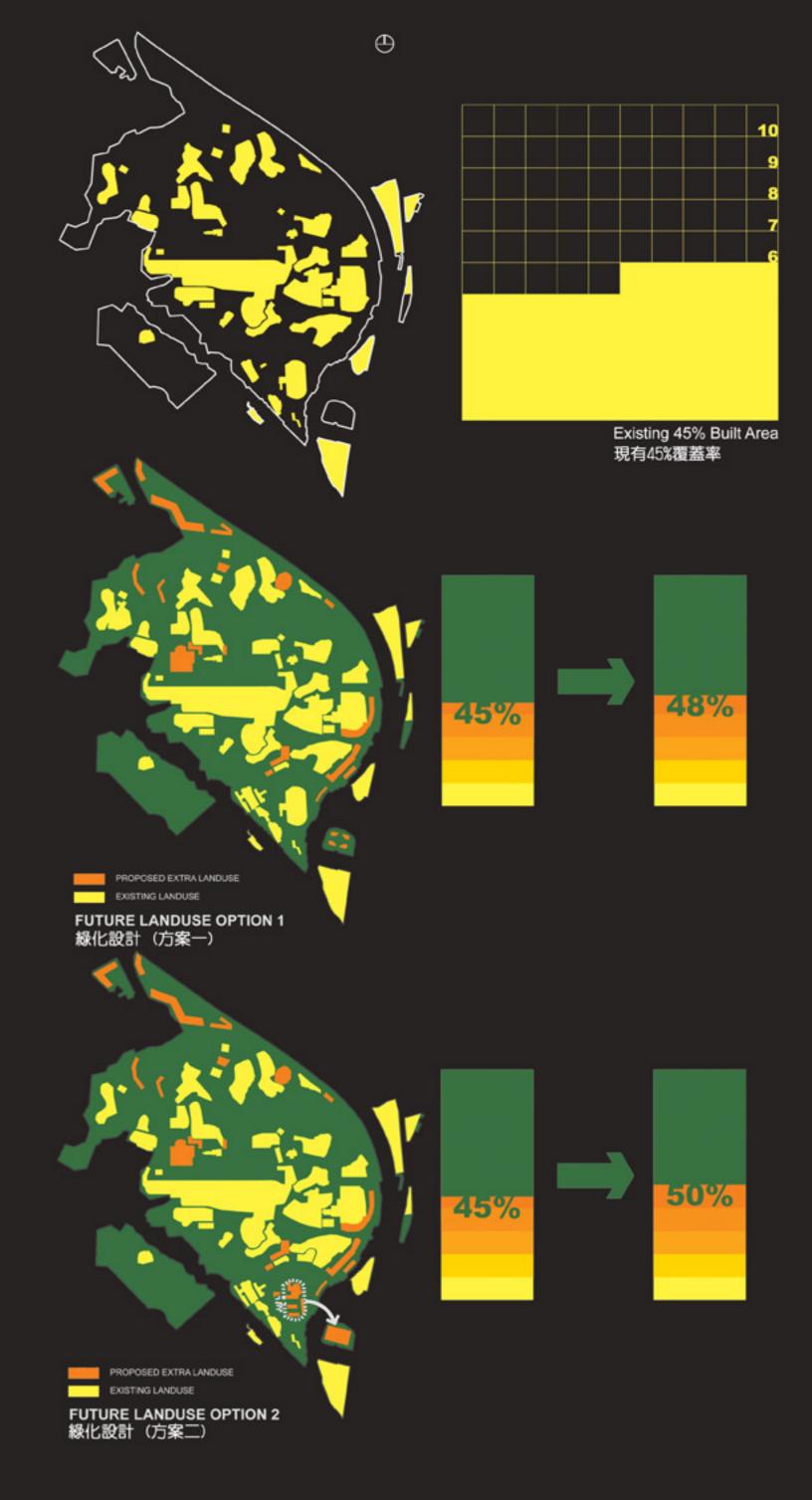
MINIMIZE FURTHER IMPACT ON LAND BY BUILDING ON EXISTING FOOTPRINTS. BUILDING ADDITIONS WILL TRY TO AVOID EXTENDING TOO FAR BEYOND THE BUILDING ENVELOPE. OUR ZONING STUDIES HAVE SHOWN THAT THE RATIO BETWEEN THE BUILDING FOOTPRINT AND THE OVERALL CUHK SITE WILL REMAIN CLOSE TO THE EXISTING RATIO. THIS IS TO PRESERVE THE NATURAL ENVIRONMENT, MINIMIZE COST, AND KEEP THE AESTHETIC AND VISUAL IMPACT OF THE CAMPUS INTACT.



盡量減少建築物對地面空間的影響。保證新增之建築物不會影響整體 校園的綠化率,以保護天然環境及現有校園之美態。



MINIMIZE BUILDING FOOTPRINT 減少建築佔地空間

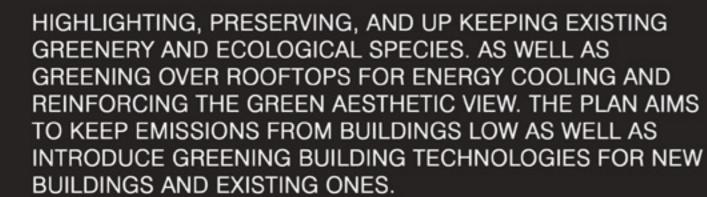






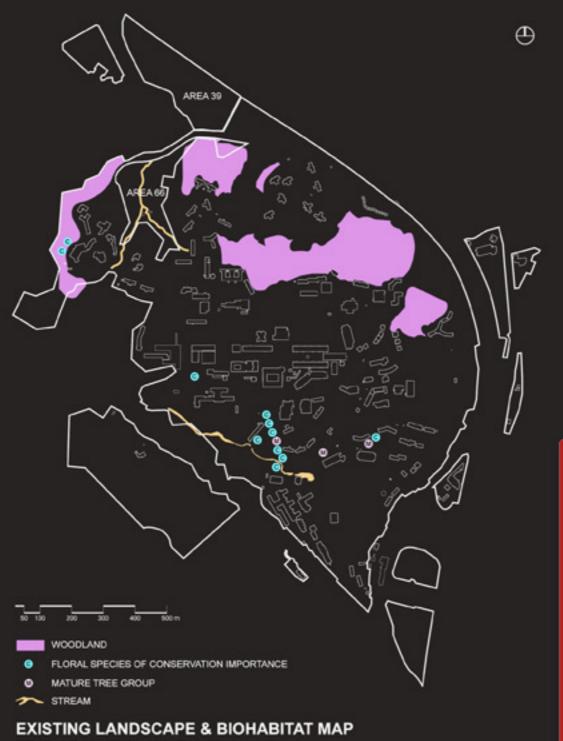








提升,保護現有之緣化及生態環境。與此同時增加緣化天台及完善緣 化景觀。減少新建築之有害物質排放,在現有之建築物上增加各種綠 化設施。

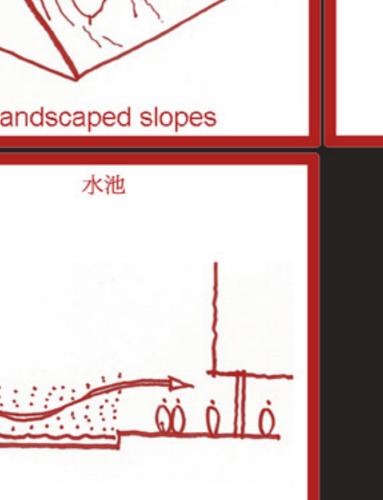


現有綠化及生態分析



水池

water pond



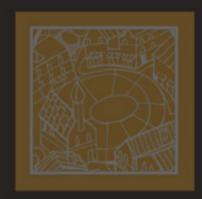


















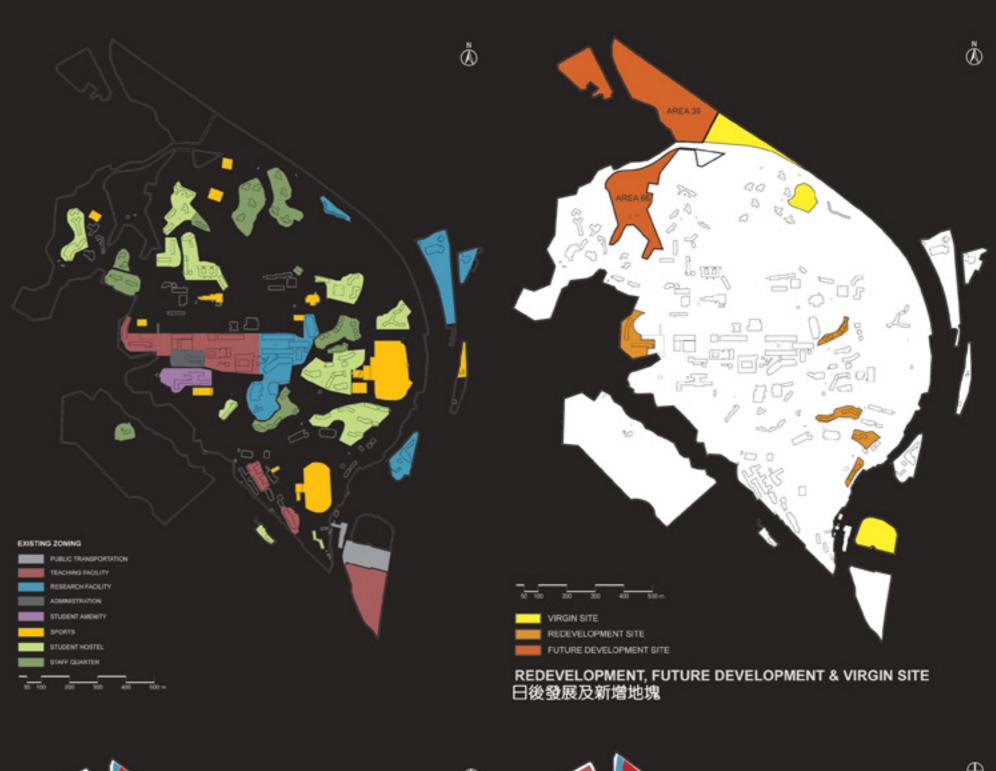




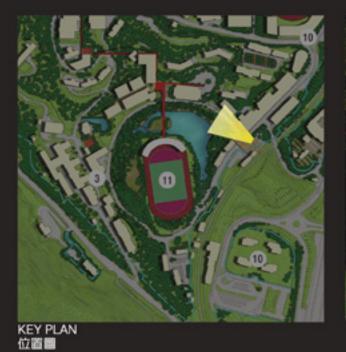
所有空間必須顧及日後發展及各種基礎建設之可容性,擴充性。由於 所有建築物之用途日後有機會更改,這種可容性設計使校園可因應時 間改變所迎合不同需求。

MAKE SURE THE SPACES CAN BE FLEXIBLE AND ADAPT FOR EXPANSION AND FURTHER SERVICING FOR FUTURE NEEDS AND PLANNING INFRASTRUCTURE. BECAUSE THE USES OF BUILDINGS CAN CHANGE OVER TIME, THIS FLEXIBLE CONCEPT IS INTEGRAL TO KEEP A CAMPUS VITAL AND DYNAMIC FOR MANY USERS.

# FLEXIBILITY FOR FUTURE GROWTH 日後發展之彈性











#### Gateway Option 1

This scheme maintains the existing pond and oval in their present state as much as possible. From this Gateway Town Square, students either continue into the newly proposed Integrated Teaching Buildings or turn left (West) to connect with the newly developed campus pedestrian system.



#### 入口門廊 (方案一)

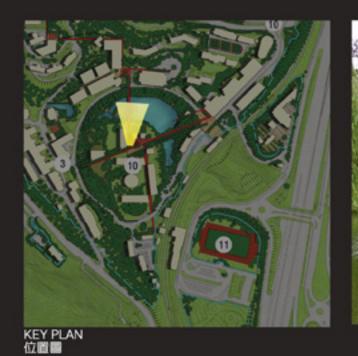
此方案盡量保持原有未園湖 及嶺南場之設計,從此門廊 學生可選擇進入右邊之綜合 教學大樓或轉左進入連接整 個校園之行人系統。







# GATEWAY (OPTION 1) 入口門廊(方案一)







The placement of a flat sports oval directly adjacent to the main entrance to the campus is an under-utilisation of highly valuable land. The scheme develops a direct covered link and new college building cluster that provides a new Town Square for the college on the foreshore of the pond.





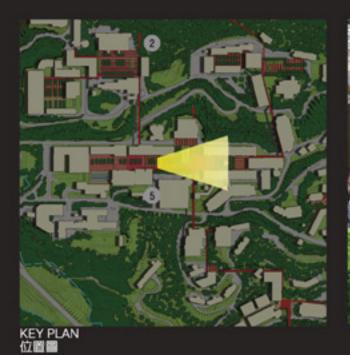
#### 入口門廊 (方案二)

現在的嶺南場設計是一個未 盡用土地資源的方案。此方 案以未園湖為背景將現在嶺 南場打造成新的校園廣場連 接新學院及行人系統。

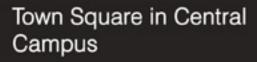




## GATEWAY (OPTION 2) 入口門廊(方案二)







The existing open space in the Central campus will be re-defined and renewed with new hardscape and soft-scaping designs. Edges of the space will be re-articulated with the architecture, and with the addition of pathways and furniture. All new buildings fronting onto the Central Campus shall have public activities located in their Ground Floor levels to create a lively space

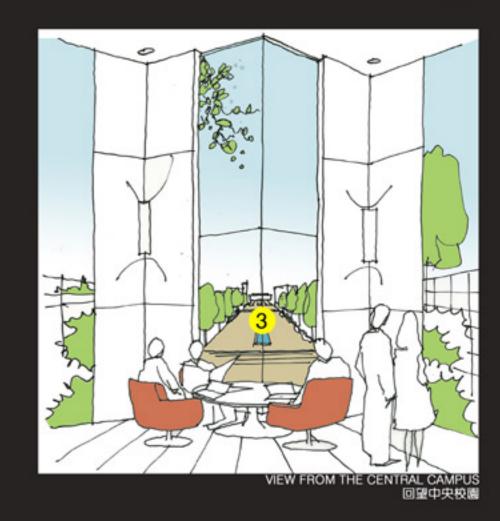
#### 中央校園廣場

現有中央校園百萬大道將以 嶄新的舖地及綠化重新規劃 及設計。廣場四邊的建築物 將重新構造,增加休息,清 閒之街道裝置。建築物首層 將更改為公共空間,務求將 中央廣場打造成一個有生氣 的廣場。

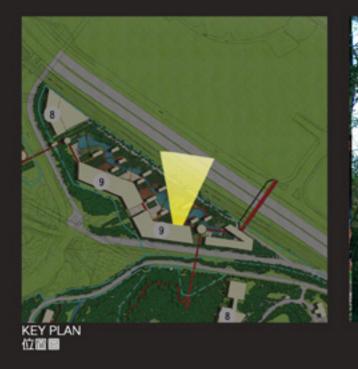


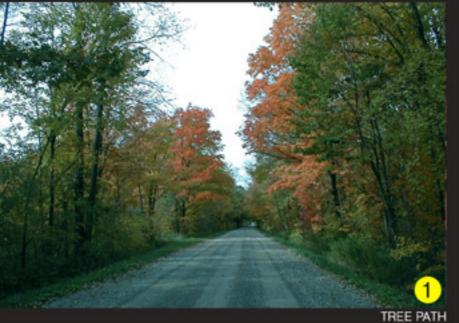


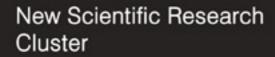




## CENTRAL CAMPUS 中央校園廣場







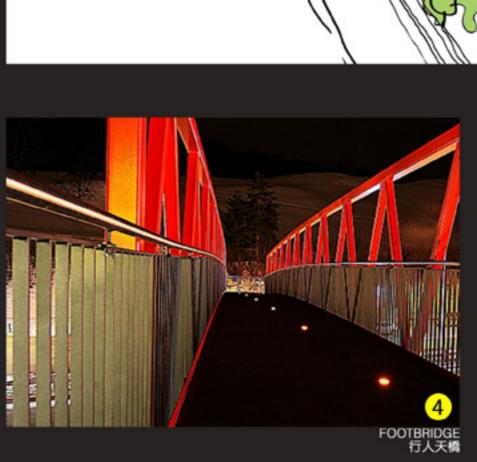
Area 39 will be redeveloped as an area that focuses strictly on scientific research with the appropriation of new Wet and Dry labs as well as teaching labs and classrooms related to scientific research and study. Due to its proximity to the new Hong Kong Science Park, a footbridge will link the two sites over the KCRC rail line.

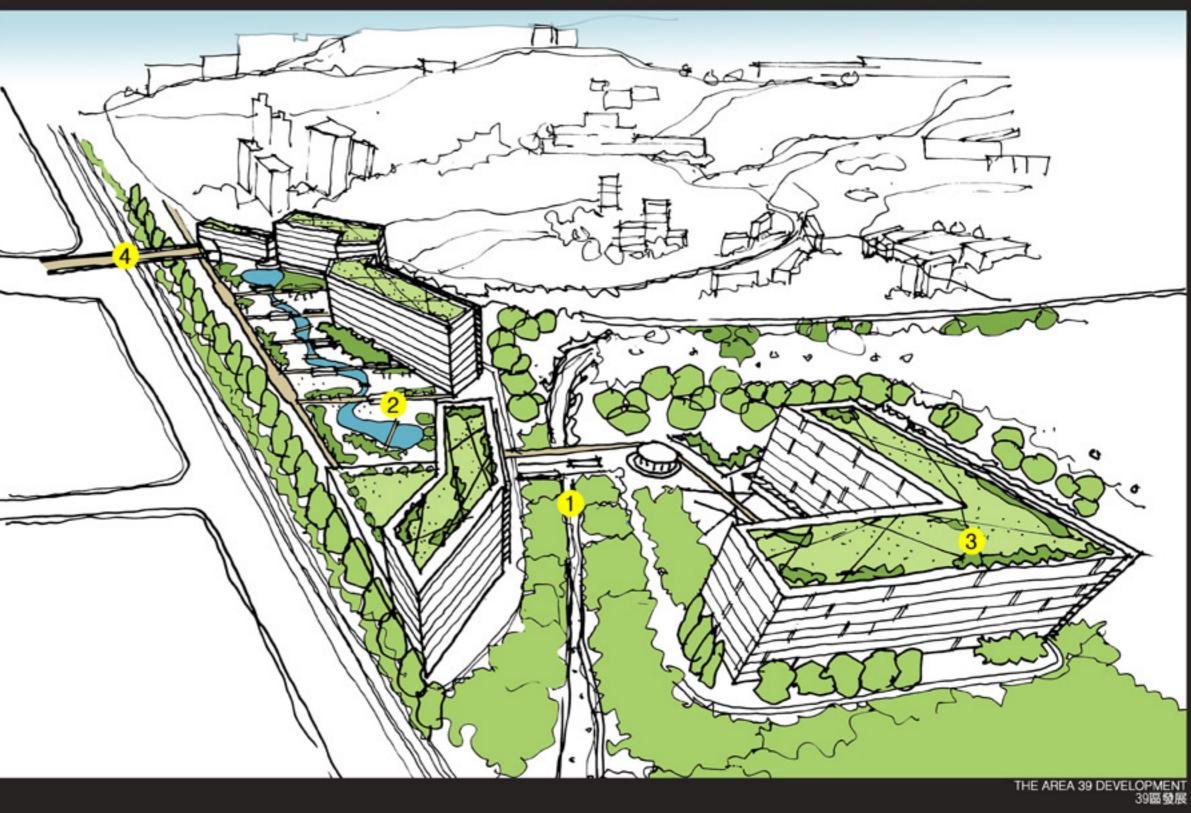


39區將發展為一個綜合科研區,備有各種研究實驗室, 教學實驗室及相關設施。將 設有行人天橋連接香港科技 園。











## AREA 39 DEVELOPMENT 39區新科研組群

#### FAUNA SPECIES 動植物品種 Ecological Habitats 生態環境 Incense Tree (Aguillarla Sinonsis) · Largely natural in 天然小河 · Native to HK • 香港原生植物 • 水質定時可以接受 · Vulnerable (VU) in the • 有大量水邊生長植物 IUCN Red List of • 鱼梨及烈吞植的工的椴 Threatened Species Status in China is herpetofaune %Hill/sti: Endangered (EN) Potential habitet for fish, macroinvertebrate protection (Class II) Nursery & breeding Lamb of Tartary (Cibotium Barometz) Native to HK • 香港原生動物 Protected under Cap. 586 。 信者緣法孫第五百八十六 中國世界馬島植物物 Wild plants are protocted 。由中国代表规则与由的 Secondary woodland NOTECHNIS Moderate diversity of plant species . Over 200 plant species recorded in CUIHK Support plant species of conservation interest, a.g. \* 有多配序有条管钮 Alanthus (Alanthus toroii), Incerse Tree (Aquilaria • 拉图形是我及影響的拉刀 · Native to HK Protocted under Cop. Se · 培養排放網路九十大專用 · Foraging and roosting site for various fauna, including woodland birds, mammals, herpefolauna, etc. • 高於十五末的成年個 Mature trees 8. • 香港原生植物 plantation with height •中国宣传局性制物 · Status in China is AGRITHM 洛香港法例第九十六级河 · Vulnorable (VU) Protected under Cap. 96 Hairy-fruited Ormosia A total of 131 bird • 中文人學紀錄中, 有額 (Ormosia Pachycarpa) species recorded in 過一百二十 移島県 四多物域形的核形块 CUHK Native plant with • 香港單生植物 Support ardeids, e.g. Little Egret, Night Status in China is Heron, Chinese Pond Endangered (EN) Little Swift (Apus Affinis) Common and

• 在圆書館的看下築桌的

常見水鳥

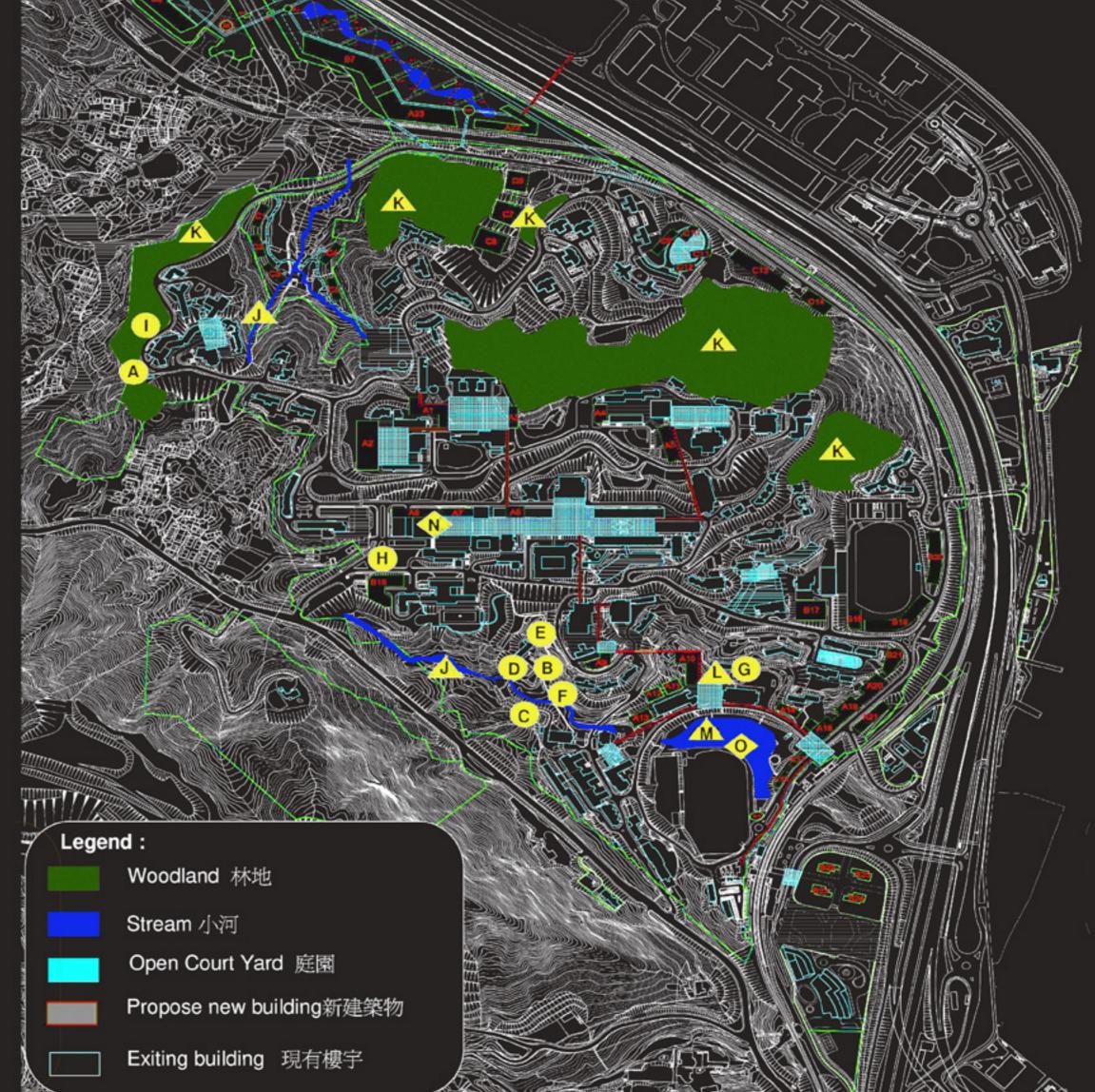
Little Swift 多過五百隻

Over 500 individuals

nesting under the eaves of University

Library

Little Egret (Egretta Garzetta)



## CONSERVATION OF ECOLOGICAL CONDITIONS 保護現布生態

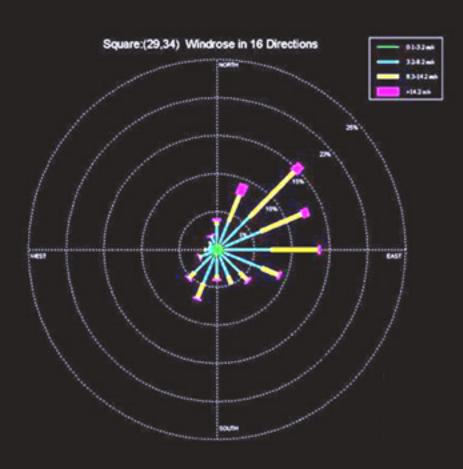
Protected under Cap. • 為香港法例第九十六章

Protected under Cap. 96 · 语语似生物初

Mountain Fig (Ficus aitissima) • Native to HK 及五百八十六京列男慎

• 将否在法例第九一六章

# AIR VENTILATION 空氣流動



#### SOLAR HEAT GAIN 太陽熱能吸收



Potential Problematic Pedestrian area due to barrier effects – detailed AVA studies

有屏風效應潛在問題的行人區 -需要作仔細的空氣波蓬湖試(AVA)

#### OPEN COURT YARDS 庭園

NORTH TO EAST PREVAILING

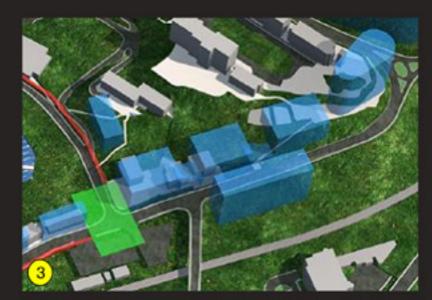
WINDS WHICH IMPACT ON SITE FOR OVER 50% OF TIME

EAST TO SOUTH PREVAILING

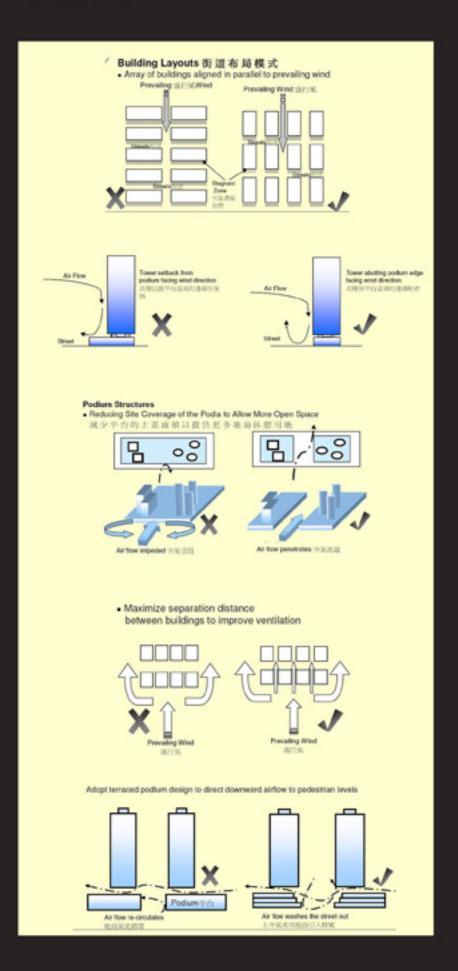
WIND WHICH IMPACT ON SITE FOR OVER 20% OF TIME







#### POSSIBLE SOLUTIONS 可行方案



# ENVIRONMENTAL/SUSTAINABILITY ISSUES CONDITIONS環保考慮因素的例子