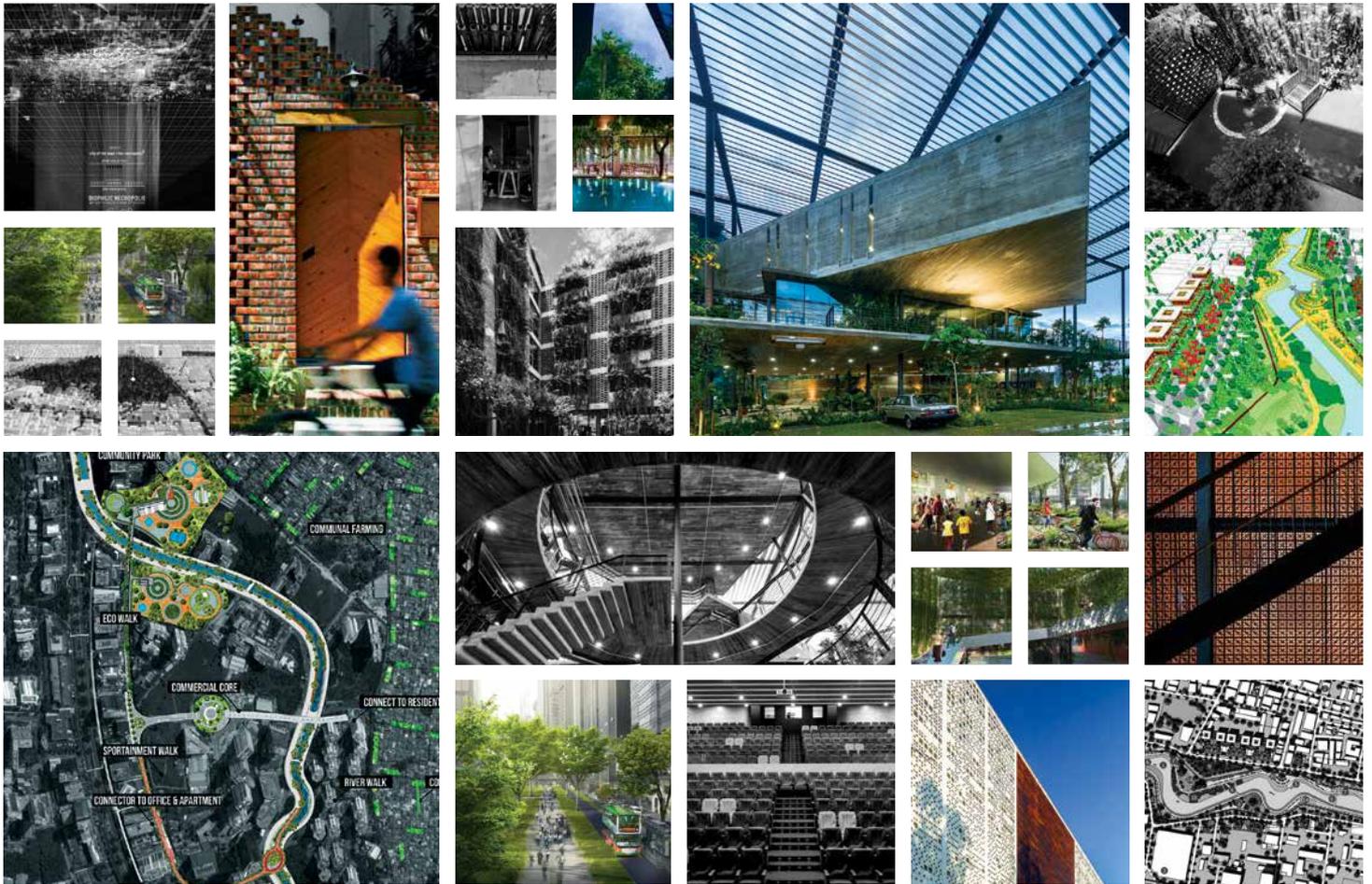


FUTURARC

The Voice of Green Architecture in Asia-Pacific



May-Jun 2018 | volume 60

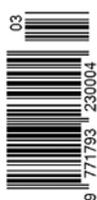
GREEN AWARDS

Inside: FuturArc Prize and FuturArc Green Leadership Award 2018; see the winners | Works of Hong Kong Housing Authority, Morphogenesis, Vo Trong Nghia Architects | Rahul Srivastava and Matias Echanove; founders of urbz | Special Supplement; winning entries of FuturArc Prize and FuturArc Green Leadership Award 2018

With projects from Hong Kong, India, Indonesia, Malaysia and Vietnam

Hong Kong HKD72 RMB80 Indonesia IDR83,000 Malaysia MYR39 Philippines PHP500 Singapore SGD15 Thailand THB290 Vietnam 190,000

MCI (P) 007/11/2017 PPS 1786/04/2013(022947)



Letter from the editor

Dear *FuturArc* Readers,

FuturArc Green Leadership Award (FGLA) and FuturArc Prize (FAP) are peeks into the realms of practice and imagination. This is what we do in the name of Green, what we would like to do, were constraints lifted.

In the world of what we do, FGLA offers us a sampling of built projects, architects pushing the boundaries of Green and interpreting it from a designer's viewpoint. We see interest in materiality and climate. Brick and wood, air and light are the tools of the trade. In some projects we see innovation of form, new ways of connecting inside and outside, public and private space. Architects, working with a tight budget, are able to craft in-between spaces for life and living.

In the world we imagine, the brief for FAP this year asked for a biophilic city. Anyone familiar with biophilia knows what to expect here: plants and water overlaid onto the grey of buildings and roads. In the submissions that were received, the jury saw what this might mean to Asia.

Nature, in Asia, is linked to culture and memory. A park is a place to remember the dead. A canal is a way to remember a past when water was central to the life of a city. In some projects, we see a peeling back of layers and new layers introduced. An urban precinct is reconstituted, so to speak. This is implicitly critical of the dominance of the car, the loss of public space and pedestrian pathways. Biophilic design here is not a surface application of blue and green; it is a rethink of urban morphology.

Between FAP and FGLA, we see a gulf between vision and action. We know how to fix things; why then are we so conservative? It's tempting to say this is a problem of governance or market dynamics (it is, to a degree). The reality is also that we are comfortable with the boxes we make. *A house is a home; a hotel is all about guests; a factory is production process.* The boxes get better, more efficient, and even beautiful. From this, impact is inferred. *It symbolises connection with nature; it experiments with local materials; it reduces emissions.* Meanwhile, the neighbourhood around the box is a slum or a car park.

FAP winners tell us that there are connections between things. Design is about reshaping relations, not simply making objects. In an interview with Heather Banerd, Rahul Srivastava and Matias Echanove (page 38) talk about the morphology of the slum; how the edges between the street and home, working and living, inside and outside, are never clear. This, in turn, permits connections between social and economic, human and natural. Sadly, the slum is called a slum, and implicitly, without redemption or lessons learnt.

We hope this issue will be food for thought. In years to come, it will remind us of where we were in 2018, when *sustainability* was a hot-button topic but we didn't know how to move fast enough.

Dr Nirmal Kishnani

Editor-in-Chief

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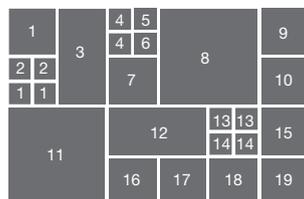
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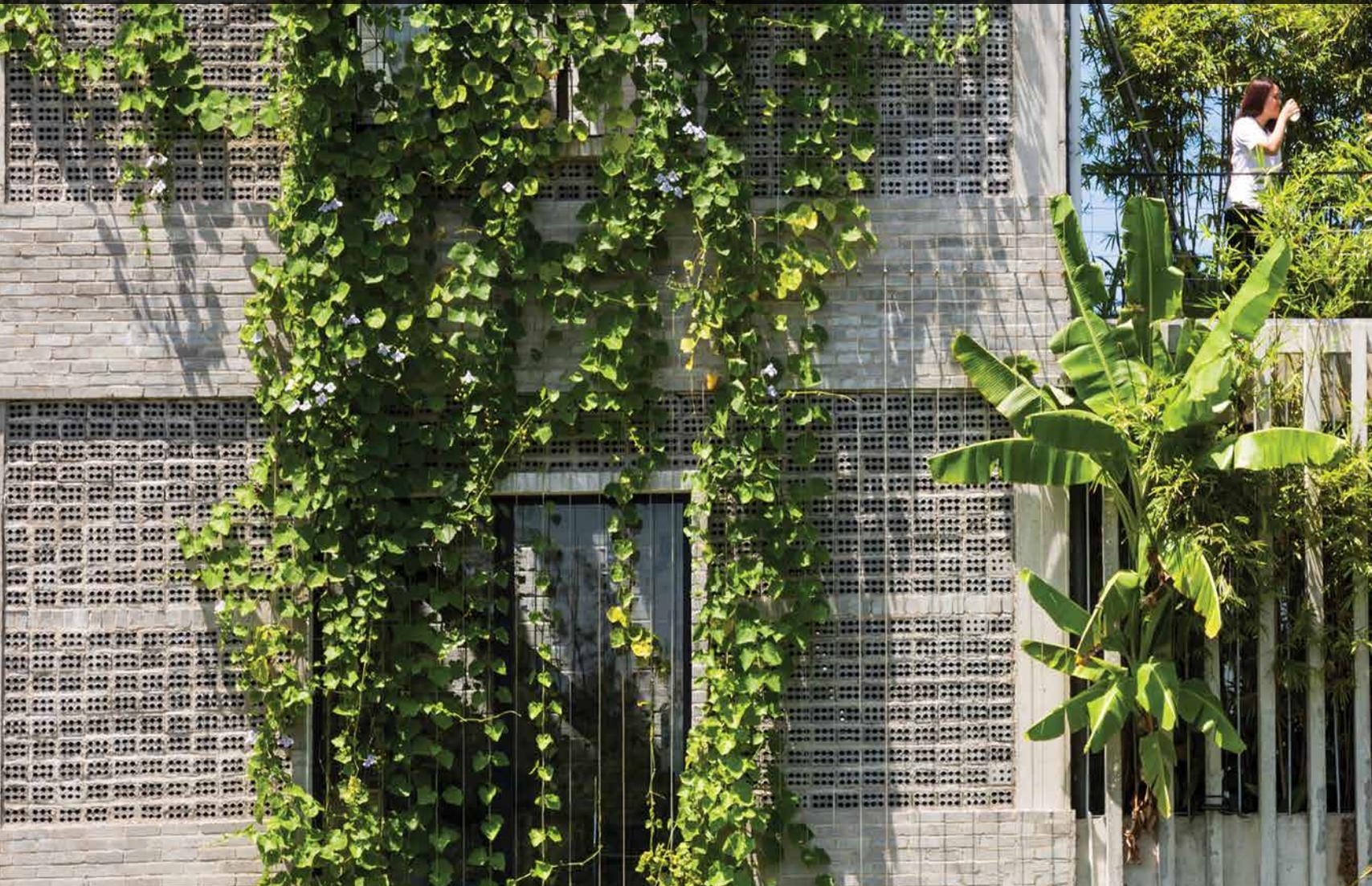
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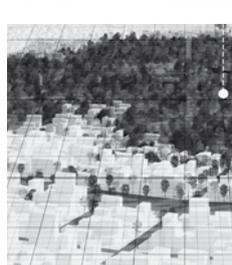
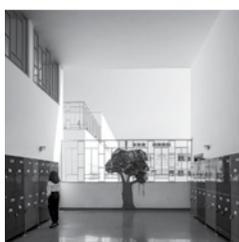
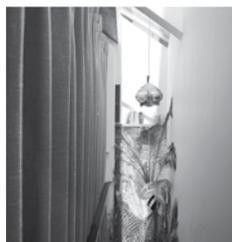
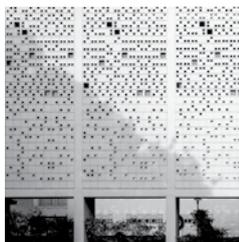
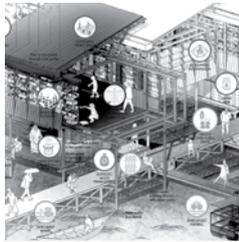
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FUTURARC
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GREEN
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AWARD **2018**
WINNERS

FUTURARC PRIZE 2018

PROFESSIONAL CATEGORY

FIRST PLACE



Anisa Yulia Rakhmanita, Eka Pradhisty Prasadhanta and Annisa Putri Cinderakasih graduated from the department of Architecture at Universitas Gadjah Mada, Indonesia. Now, they work as independent designers, focusing on architecture and humanity design. After meeting on several occasions, they decided to try collaborating for the first time in FuturArc Prize as a team with the same vision for a better city. They think that urban problems in most Asian countries need to deal with the sociocultural factors of the inhabitants. In this project, they wanted to revive the Asian culture of riverside communities in the Banjarmasin city through a multipronged approach related to the sociocultural, economic and environmental aspects.

REVIVING THE THOUSAND RIVERS

A city with whole systems and life inside is the same as the ecosystem in a forest. Biophilic concepts are supposed to retrieve and reinforce the symbiotic, interdependent relationships between the organisms and natural elements within the cities. Banjarmasin, the city of a thousand rivers, has undergone a major shift because of rapid development. The sociocultural interactions of the Banjar people and their rivers, which have been coexisting for decades, are gradually perishing. The goal of this project is to revive the rivers as an important part of the urban ecosystem in the city's sociocultural and economic contexts, to embrace notions of socio-biodiversity as an urban 'wildlife' ecosystem in Banjarmasin.

JURORS' COMMENTS

Dr Nirmal Kishnani: *This restoration of river networks in South Borneo tackles the question of riparian edges. It proposes a new network of dwellings and waterfront activities that revive the social life of these waterways; it actively cleans black and grey water that might otherwise have entered the water system, untreated. The scheme is thoughtful at the scale of the watershed; it is also beautiful and credible at the scale of the building.*

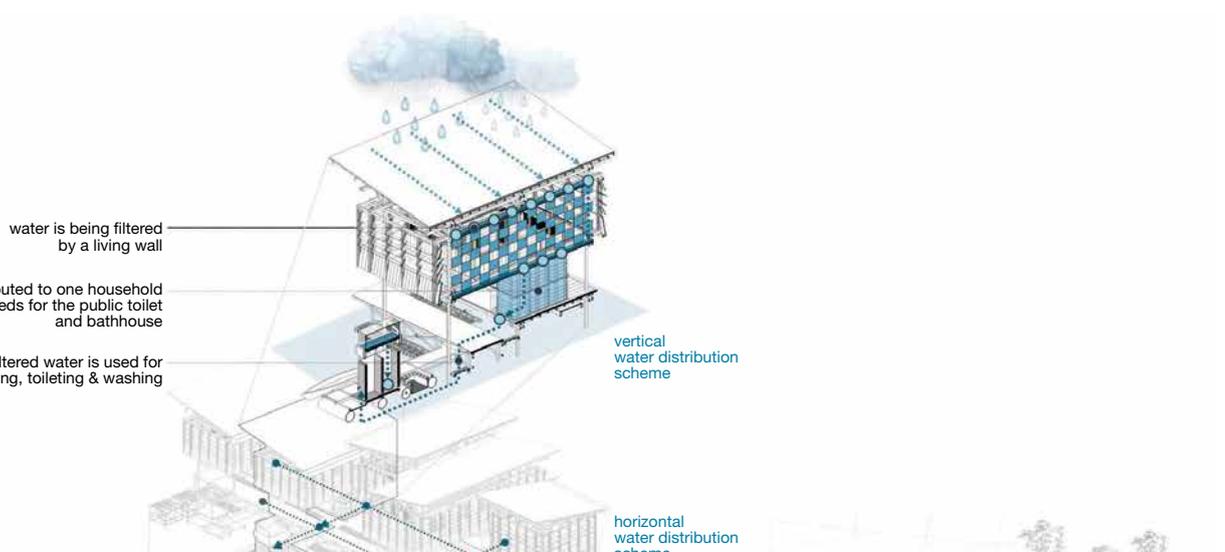
Florian Heinzemann: *A set of very simple-to-construct yet highly effective measures of buildings and facilities to be implemented at Banjarmasin riverfront, drawing its basic concepts from existing construction methods, materials and typologies, and transforming it into contemporary architecture and urban design. There seems to be a high understanding of local economies, the social fabrics and needs of the locals, which were addressed and solved in a very appropriate way.*

Dr Zalina Shari: *It addresses the real and important issue of river pollution that has affected the lives of the local people, which to me, is commendable. The proposed solutions are comprehensive ecologically, and appropriate to the culture and economic status of the local people. The scheme sets a great example of how slum areas along riverbanks in Indonesia and elsewhere should be redeveloped without drastically changing the social lives of the affected communities. This is an entry with impressive layout and graphics.*



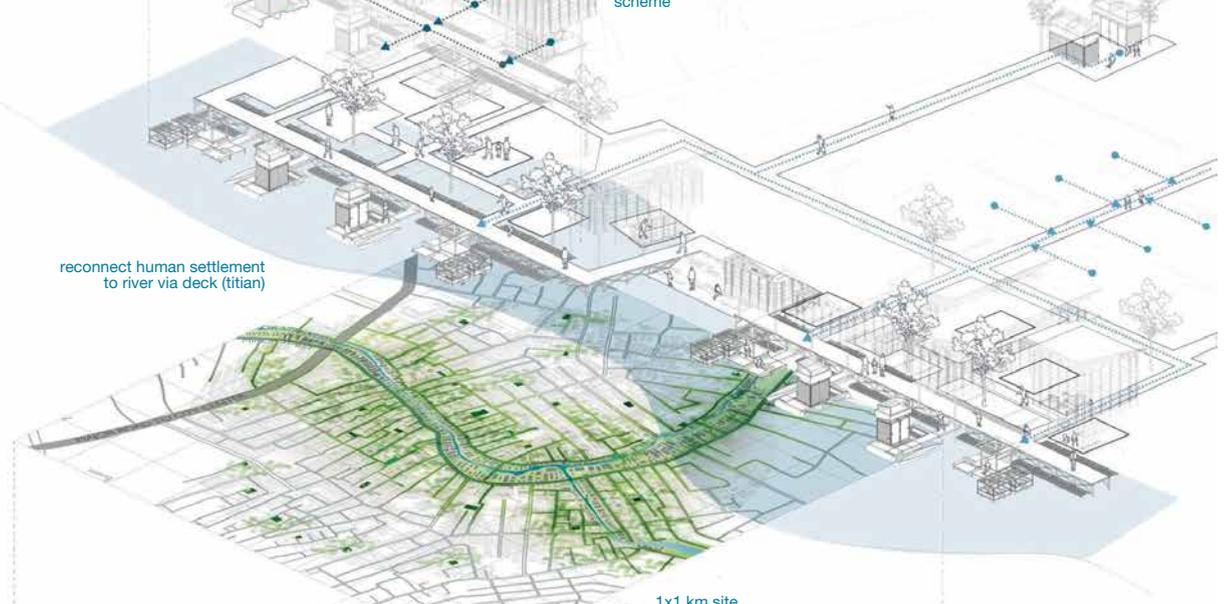
SCALE 01
REVIVING PRESENCE OF WATER

partially constructed by the investor



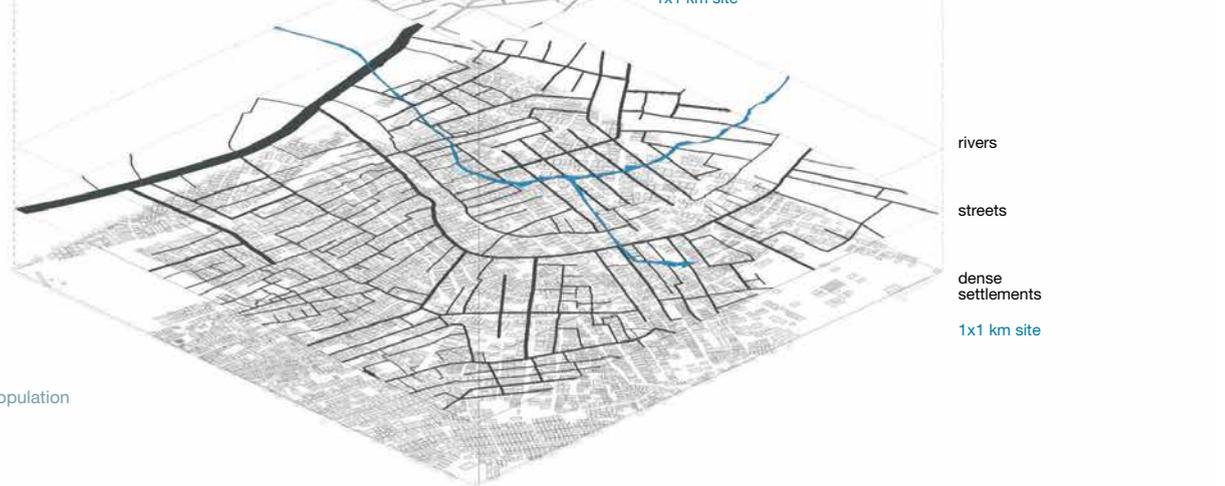
SCALE 02
CONNECTION WITH NATURE

developed by the investor and government



SCALE 03
CONNECTION WITH NATURAL SYSTEMS

provide benefits to the government and the population



Dwelling Types

Type 1
32sqm
1 family, 2 members



Type 2
42sqm
1 family, 3-4 members



Type 3
55sqm
1 family, 4-6 members



Type 4
97sqm
2 family, 8-10 members



Networks



Bioponics



Public Toilet & Bathhouse





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The FuturArc Interview

**Rahul Srivastava and
Matias Echanove**

Founders of urbz

By Heather Banerd

HONG KONG



MOUNT PAVILIA

Mount Pavilia overlooks Clearwater Bay on an elongated green site of 66,800 square metres, larger than the Hong Kong Zoological and Botanical Gardens. The project is filled with 31,500 square metres of green spaces in the form of landscaped parks and garden, almost a third of the entire site. The development's greenery is designed to not only improve the existing surroundings, but also to further augment and enhance it by providing a significant contribution to the overall health and welfare of the community.

The design and incorporated features of Mount Pavilia seek to address the physical, psychological and emotional needs of users, not least by enabling human contact with daylight to enhance work efficiency and positive emotion. Architectural features such as large windows achieve a recommended 12-per-cent daylight factor into the indoor environment. The physical needs of residents are addressed by having parks, biking and walking trails, playing fields and swimming pools all within a 0.8-kilometre walking distance of the residential buildings, thus promoting fitness, community inclusion and wellness. Urban farming and hydroponic plants were designed to extend the vibrancy of residents' lifestyles.

The psychological needs of residents and the neighbouring community are addressed through the biophilic design that has been proven to reduce stress, enhance creativity and clarity of thought, and to improve general well-being. In a world of continued urbanisation, the philosophy behind the developer's artisanal movement seeks to bring together humanity, nature and art. The extensive greenery of the development provides opportunities for human interaction with nature, while the sculptural garden makes art a part of daily life, and is not only accessible to the residents of Mount Pavilia but the community as a whole.

The urban farm, which includes aquaponic technology, provides a facility for family engagement and education that promotes well-being and sustainability. In addition, natural daylight and ventilation enhance the emotional health of residents. Features such as linear bi-folding doors within residential units leading to balconies, conservatories and other outdoor spaces allow for abundant natural daylight and cross ventilation to promote good health. Moreover, the ventilated brick screen in the White Yard Gallery retail block is designed to enhance thermal and visual comfort as well as aesthetic quality in the form of colour rendering and air quality, through the application of natural light and ventilation.

Preservation of community, history and place is an important feature in the design and construction of the project. Trees and shrubs that hindered the development were replanted or replaced during the course of the six-year construction process. Any trees or shrubs that decayed or perished on-site during the construction period were also replaced in a one-to-one ratio. Today, there are a total of 974 trees making up 38 species, each individually tagged. In addition, there are 130 species of shrubs, ground covers, climbers and ornamental grass.

With regards to the indigenous villagers that lived on the land and in the neighbouring district, the developer initiated continuous dialogue to ensure that their needs were met. The intention was for Mount Pavilia to improve rather than impede their way of life. Some village houses were rebuilt, while drainage services were improved by construction of new drainage reserve and combined drainage facilities. Water run-off from the mountain near the site was diverted to prevent possible future flooding both for the villagers and for Mount Pavilia's residents. An existing footpath was lowered from its ground level elevation to allow for gentle ramps and other elements of barrier-free access designed to better facilitate the elderly villagers that live in the district. Meanwhile, emergency vehicular access was also constructed to and from Tai Po Tsai village.

1 Aerial view of the development 2 Master plan



VIETNAM

BINH HOUSE

Binh House, built in 2016, is one of the projects in the architecture firm's House for Trees series, a prototypical housing design that seeks to provide green spaces within high-density neighbourhoods. The client's family consists of three generations. Therefore, the challenge was to create spaces that allow the residents to interact and communicate with one another. The house is an outcome of various passive strategies that govern the nature-friendly aspect of the project.

The gardens are located on top of the vertically stacked spaces, bounded by sliding glass doors. This not only improves the microclimate by using natural ventilation and daylighting in every room, but the alternately stacked openings also increase visibility and interaction between the family members. The living room, dining room, bedrooms and the study room are continuously opened. From one room to the other, the line of sight reaches beyond to the other rooms via the gardens. Service areas such as the kitchen, bathrooms, stairs and corridors are located in the west to limit heat radiation exposure towards frequently occupied areas.

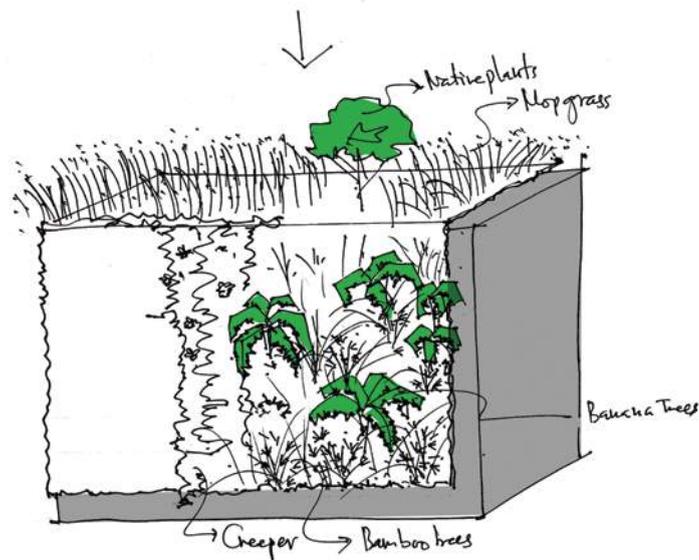
1 Exterior view





VIETNAM





THE MODERN VILLAGE OFFICE

This project seeks to be the opposite of a box office commonly found in many cities. It is an attempt by the designers to highlight traditional sensibilities of building with bamboo and bricks, harking back to methods and ways of building in the countryside surrounded by natural greenery.

The site originally contained old houses, white pampas grass, native bamboo shrubs and plants. The concept for the project was to evoke the feeling of being in a village setting, creating a natural and soothing palette, incorporating native plants generously.

Banana trees, yellow bushes and native plants were transplanted to the first floor of the office. There is also a water feature with slats for steps at the front door, alongside the plants. The southwest exposure is built with concrete slats to keep out the hot sun while allowing air to flow in from the ocean. The rooftop is densely planted with grass and other plants to cool the lower floors. Vines and flowering plants surround the open areas to offer shade and a soothing ambience. In order to recreate the ambience of a rural dwelling, the architects used bricks that were not burnt by kiln. The floor is made up of decorative concrete tiles with a light grey finish. The cement roofs appear as scaffolding, as was the method of construction in the countryside.

Overall, it is a professional workplace with natural ventilation, pleasing greenery and comfortable environment for both clients and employees.

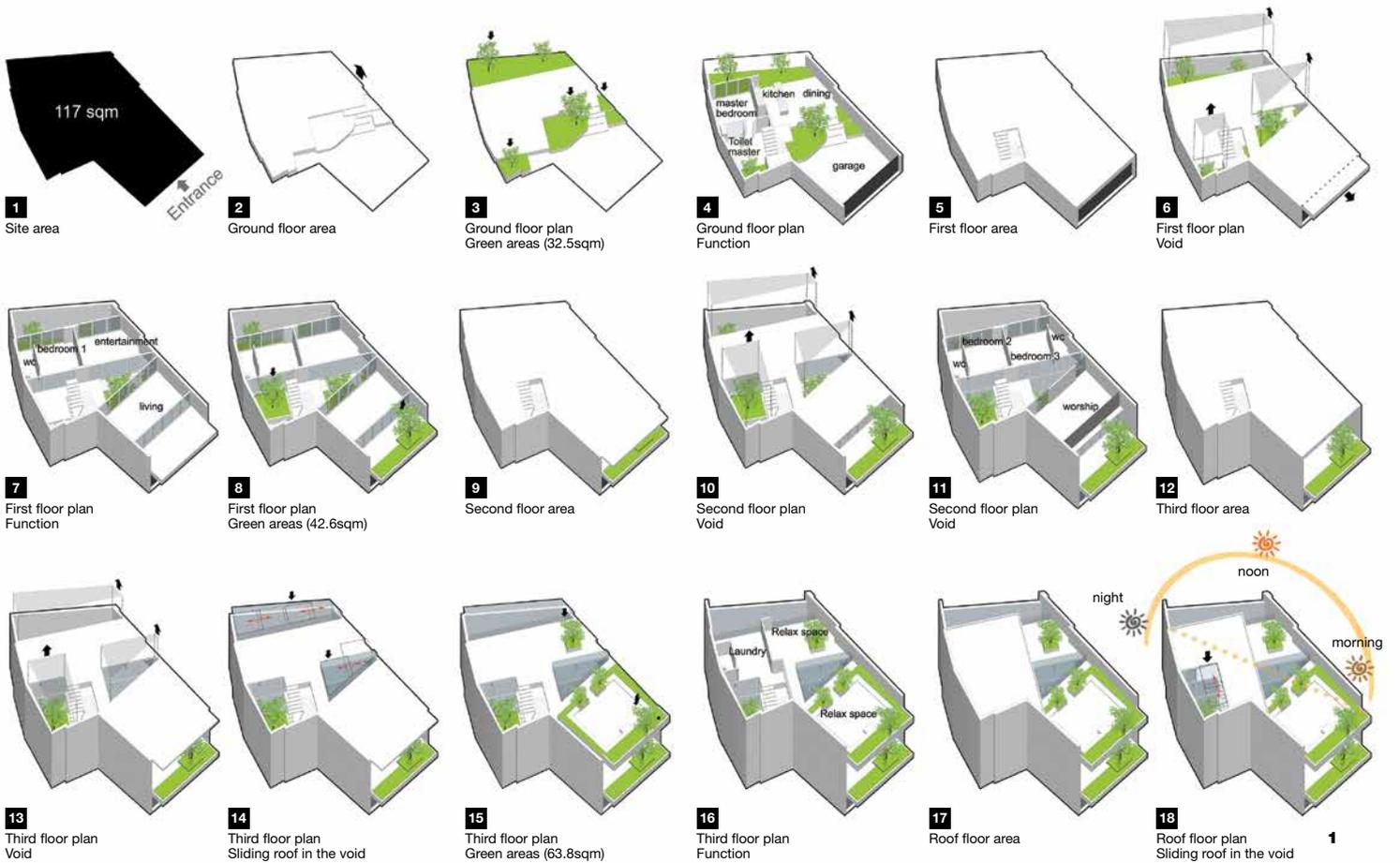
2

AFTER COMPLETING THE OFFICE

1 An office reminiscent of a rural dwelling surrounded by nature

2 Concept sketches

VIETNAM



204 HOUSE

Located in Nha Trang city in a densely populated area, cluttered with traditional narrow houses and amidst air and noise pollution from motor vehicles, this house is indeed a breath of fresh air in the neighbourhood.

With a white façade and abundant greenery, this dwelling for eight stands out also for the way it 'steps back' from the street, converting its frontage space as a green buffer. In Vietnam, most people maximise the front of their house to generate income, either by opening a family-owned business or renting out the space. Thus by not doing so, 204 House is essentially giving back some much-needed greenery to the city. The plants are mainly vegetables or herbs, easy to find locally. Apart from contributing positively to the residents' well-being, the greenery also helps improve the microclimate of the house and its immediate areas. The architects also designed and installed a rainwater storage and treatment system to recycle rainwater for irrigation.

The architecture makes use of natural wind and light so that it does not need artificial lighting during the day or air-conditioning. LED lights are used at night. The surrounding wall that envelops the house has three layers with space in between to enhance heat and sound insulation. The interior walls are covered with natural stone (sourced locally) to enhance the cooling effect during cross ventilation. There are three large openings between the floors that can be opened and closed via a sliding glass system. The living spaces throughout the house enjoy abundant natural lighting—all the rooms have two openings between the floors and green trees on both sides. Together, these strategies help maximise daylighting and ventilation. The sliding glass system also allows the spaces to be connected but still offers privacy when necessary.

- 1 Annotated scheme of the house by floor plans
- 2 Natural light coming through the screens



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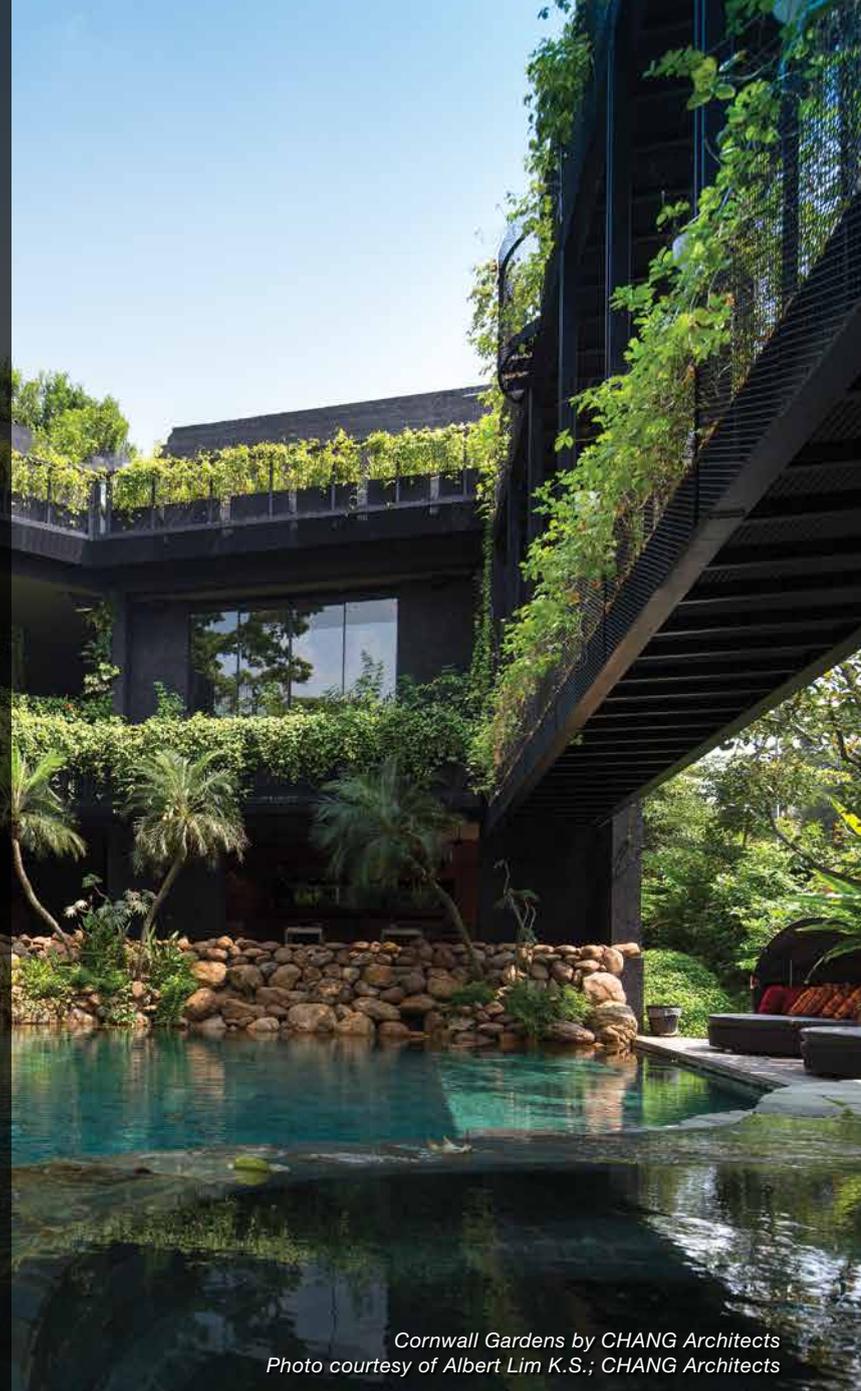
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**Next Issue:
FuturArc Jul-Aug 2018**

Landscaping & Architecture

Greenery and landscaping are no longer mere decorative elements. Architects and building owners are embracing landscape architecture to blur the boundaries between built and natural environs. The next issue looks at how the 'hard' and 'soft' elements are integrated with ecological initiatives to bring about more inclusive and holistic developments.

If you have projects to nominate, please send an email with a brief profile and photos to c.lim@futurarc.com by end May 2018.



Cornwall Gardens by CHANG Architects
Photo courtesy of Albert Lim K.S.; CHANG Architects



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