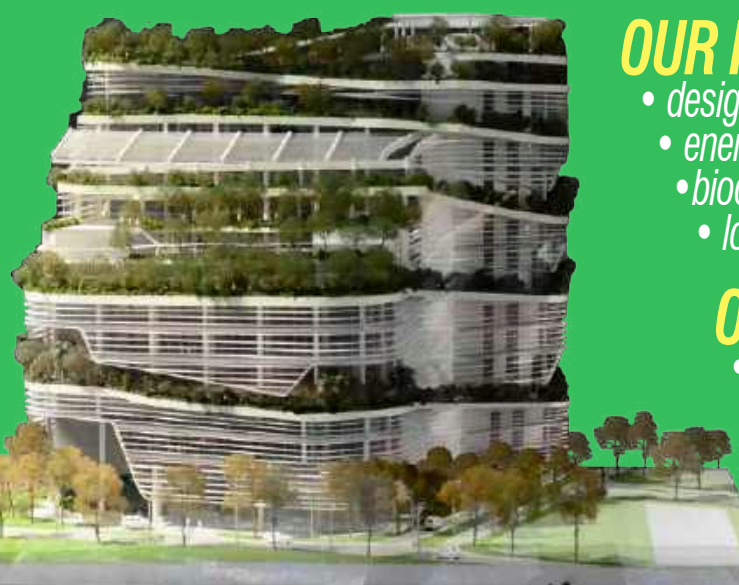


WHY?

Architecture

Redefined

US?



OUR PRODUCT:

- design ideas
- energy & water savings
- biodiversity enhancement
- local-based global-reach

OUR PROMISE:

- innovation | ingenuity
- hypergreen | sustainability
- signature | style
- well-being | happiness
- cost control | viability

ECOARCHITECTURE & ECOMASTERPLANNING

Contact Us:

☎ 03-4257 1966/ 1948

T. R. Hamzah & Yeang Sdn. Bhd. © 2024

8, Jalan 1, Taman Sri Ukay, 68000 Ampang, Selangor, Malaysia

📞 03-4256 1005

✉ trhy@trhamzahyeang.com

🌐 www.trhamzahyeang.com



scan to view webpage

what others say about us?

..3rd party endorsement..

.. wind, rain and sun in the minds of most architects, they are enemies, but what if buildings can utilise and respond to the conditions of the environment? what if the urban environment itself became a living, breathing organism? To **Ken Yeang** it is..



scan to view video

in "e² :design" Season 1 Episode 6 PBS documentary

Brad Pitt says



50+ years in designing the future

For the past 50 years, Hamzah & Yeang has built a unique approach for designing & delivering **ecology-focused architecture and urban schemes** as innovative, signature & deep sustainable solutions that **meet the UNSDG** (Sustainable Development Goals) for governments, companies, investors & individuals. Our talented team of designers have delivered innovative & signature ecological solutions based on our design guides and our extensive understanding of how key ecosystem factors operate to repair & regenerate our natural environment while adopting proven best practices. These are substantiated by credible metrics to transform the Planet at wherever locations we work. Our approach makes it easy for our clients to create and implement nature-based solutions that reduce human society's negative impacts on the environment.

Since **START**

1971 pioneer research on Ecological Design (Cambridge University)

1976 establishing of company, over 5 decades of experience & dependability brought to benefit the development

resilient future

Principals



Tengku Robert Hamzah



Ken Yeang (Dr. Dato')

Experience

over 50 years of experience
over 500 completed projects (since 1976)
over 800 projects in more than 10 countries

Differentiation

- * design innovation
- * specialist in ecological design (pioneered since 1971)
- * signature aesthetics
- * over 70 design awards
- * design happiness & well-being for human society

Our values

quality in everything we do
we are committed to do work in the pursuit of excellence.

Our mission

'saving the planet by design':
design to fix the environmental crisis

Our vision

develop architectural and planning solutions to fight climate change to address the environmental crisis

Offices

global reach over 3 continents:

Malaysia:
T. R. Hamzah & Yeang Sdn. Bhd.
8, Jalan 1, Taman Sri Ukay
68000 Ampang, Selangor, Malaysia

UK:
Ken Yeang Design International Ltd.
4A Avery Row, London, W1K 4AL

China:
North Hamzah Yeang Architectural
Engineering Design Co. Ltd.
Guide International Centre B-10F,
Nanbina Road 27 Beijing, 10055

see our website: <https://trhamzahyeang.com/>

what others say about us?

..3rd party endorsements..

“**Ken Yeang** has developed a distinctive architectural vocabulary that extends beyond questions of style..”



Lord Norman Foster
(British Architect, Foster & Partners)



“The firm’s ethos is “innovation, hyper-green, signature and people’s happiness-focused design”, which are its signature aesthetics and what make its work compelling..”



“..a champion of the green design movement, **Yeang** was largely seen as a pioneer who was way ahead of his time..”



(1 November 2022) Royal Institute of British Architects

“**Ken Yeang** is an architect and ecologist with a wealth of experience in ecological design and planning for over 50 years. He has pioneered the field of biophilic design and his ‘bioclimatic skyscraper’, is a type of high-rise now used in various cities that performs as a passive low-energy building, designed according to the location’s local climate..”

ARCHITECTURAL RECORD

“..probably no individual is more important in the development of ecodesign’s theory and practice than the London and Kuala Lumpur-based architect **Ken Yeang**..”

“**Ken**, how many of these have you built?..
(at conference (UK) sponsored by Infosys)

“..a few..”



King Charles III



“..one of the 50 people who could save the Planet..”

our chief executive

..by a signature ecology-based approach supplemented by meticulous management..

AA Dip., PhD.(Cantab), APAM, RIBA, FSIA, FAIA(Hon.), D.Lit(Hon.)(Sheffield), DSc(Hon.)(Taylors University), Professor (Graham Willis Chair, Sheffield University), Distinguished Plym Profesor (University of Illinois)

KEN YEANG

Personal Awards

- 2005 **WACA** (World Association of Chinese Architects) - Gold Medal Award
- 2011 **Merdeka Award** for the ‘Environment’ category
- 2011 **PAM** Gold Medal Award
- 2014 Design Master of **World Alliance of Sustainable Cities Design** (WSC)
- 2014 **MGBC Leadership in Sustainability Awards 2014** for Excellence and Leadership in Sustainability
- 2015 **BCA-SGBC Green Building Individual Awards** - Green Architect Lifetime Achievement Award
- 2016 **Liang Sicheng Architecture Prize**, China
- 2016 **BUILD Award 2016**: Sustainable Building Awards - Best Green Architect
- 2016 Identified as the **40th Most Famous Architects of the 21st Century**
- 2022 Australian Institute of Architect - **Leadership in Sustainability Prize**
- 2023 **DOTY (Designer Of the Year) Lifetime Achievement Award** (ACG Media)
- 2024 **Frost & Sullivan Institute Visionary Leadership**- Best Practices Recognition for Environment in the APAC Region

Ken Yeang is an architect, ecologist and author known for his pioneering work in the field of sustainable architecture (since 1971). His work integrates ecology-based biophilic principles with architectural structures as Applied Ecology, promoting environmentally-positive ecological biointegration and outcomes. His work focuses on innovation in buildings that harmonises with nature. He carries out empirical research, designs, builds and writes (over 12 books published). He regards research as essential for advancing the field, designing to interpret in built form, building as ‘life-scale’ experiments, and writing to proselytise the ideas.

Yeang was trained at the Architectural Association (London). His Cambridge doctorate was published as *Designing With Nature* by McGraw-Hill (1985). He is a Fellow (Honorary) of Wolfson College (Cambridge), member of the RIBA, FAIA (Hon Fellow), Past-President Malaysia Institute of Architects, Singapore Institute of Architects (Fellow).

His built work includes: Mesiniaga (IBM) Tower (Malaysia), Suasana Putrajaya (Malaysia), Solaris Tower (Singapore), Great Ormond Street Children’s Hospital Extension (London), Nitte University Masterplan (Mangalore, India), National Library (Singapore) and others.

His accolades include the Aga Khan Award, Prinz Claus Award, UIA Auguste Perret Award, LiangSiCheng Award (Architectural Society of China), Merdeka Award (Government of Malaysia), Gold Medal (Malaysia Institute of Architects) and others.

In recognition of his work, the *Guardian* named him one of the 50 people who could save the planet.



Receiving the Government of Malaysia Merdeka Award for the ‘Environment’ category (2011) from Prime Minister



*positive action
on climate change*

we exist to fix the earth

**why
we do it?**

SAVING THE PLANET

the only one we have!

BY DESIGN

*enable investors, developers & end users
achieve their ESG aspirations &
address the environmental crisis*

*every line drawn
must contribute to
the betterment of the
natural environment*

what we do?

what we do that others do not?

..fixing the planet for future generations..

..we deliver **ecologically-authentic
and signature 'super-green'
architecture & masterplans** for

environmentally-aware investors & developers,

who want **signature designs** that are

aesthetically unique, identifiably world class,

innovative, pleasurable to use, super-

green (beyond rating systems)

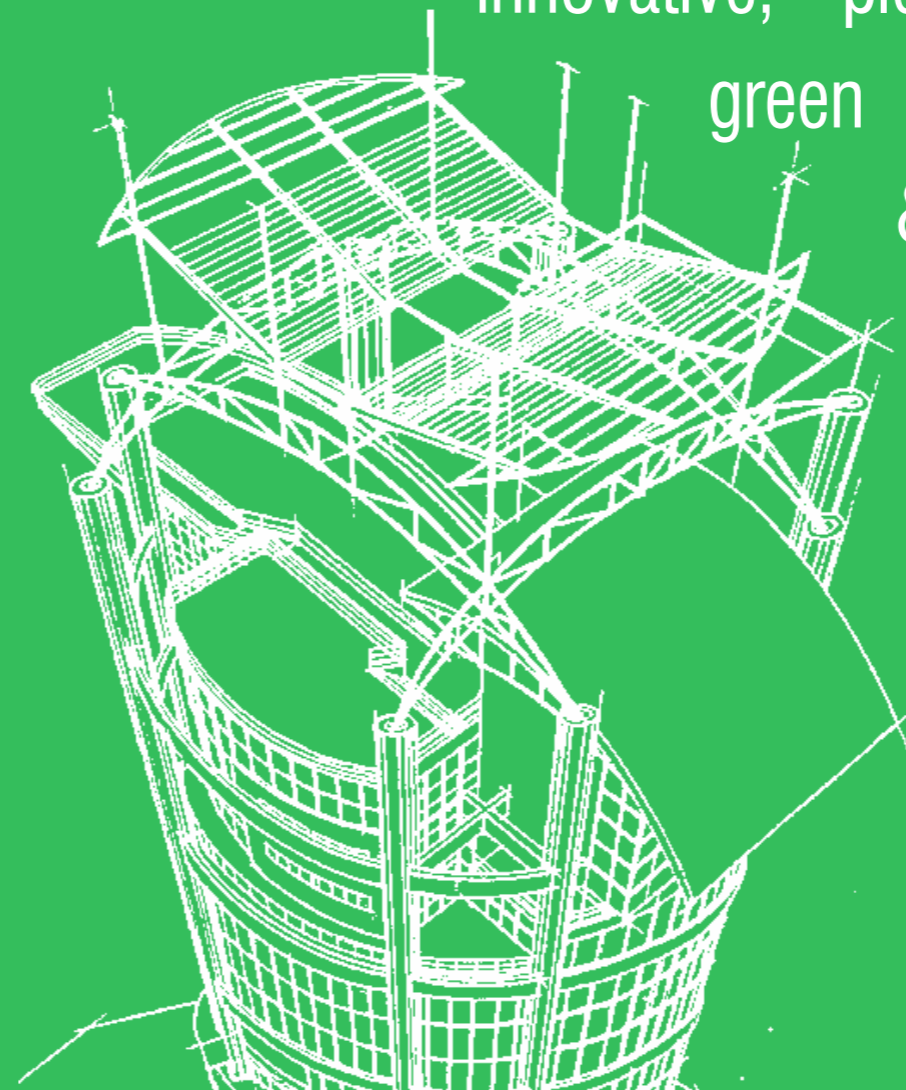
& delivering our design

professionally

on time, on budget, that

are durable & built with

high quality..



- T. R. Hamzah & Yeang Sdn. Bhd. -

delivering the spirit of innovation

..by specialist expertise in low energy design..

what delights users?

covered verandahway

pedestrian arcade are designed with 'songket' patterned fritted-glass canopy to enhance pedestrians comfort.



central promenade

active public realm are designed with seating zones and planting areas as temporal event spaces that are shaded by the shadow of the tower blocks.



balconies with planter boxes

protruding balconies with landscape planters are visible from beyond the vertical glass sun-shading, and create random patterns on the overall facade.



what makes it sustainable?

biodiversity matrix as basis of habitats creation

Biodiversity Target for Suasana Putrajaya, Malaysia.

Target Habitat Species	Target	Current	Gap
create habitats	100%	0%	100%
select native fauna species to be brought back to locality for Feeding, Breeding, roosting from any	100%	0%	100%
establish interactions between fauna and habitats	100%	0%	100%
select non-invasive flora species to attract fauna	100%	0%	100%



Green Building Index (GBI)-Silver

skycourt

fritted-glass solar shading

planter box

promenade

what makes it innovative?



glass sun-shading



fritted glass pattern provides 99% shading. oblique inspired by leaf cracks. sunshade glazing assist in establishing comfortable micro-climates of the building's habitable spaces.



double-skin façade



crystalline diamond-like facade are presented by wrapping the building with angled glass sun-shading.



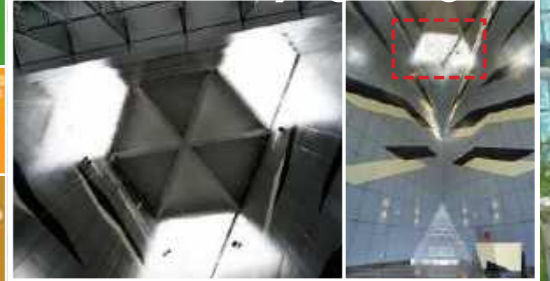
"eco cells"



continuous vegetation ramp that connects green from the ground level down to the basement level.



natural daylighting



8 storey high central atrium with glass canopy above that provides maximum natural daylight to penetrate into the internal space and reducing energy usage.

unique features:

Putrajaya 2C5 is a 2 towers of 14-storey mixed-commercial development in the city of Putrajaya, Malaysia which is completed in 2017.

the double-skin facade are designed with 1 clear glass layer and a fritted (in Malay 'Songket' pattern) glass layer with 50% opaque coverage that provide sun-shading to the internal spaces.

awards received

- Bronze Award - Regional Holcim Awards 2011
- Silver Award - Green Building Index (GBI) 2014
- Winner - Cityscape Global Awards 2018/2019
- Winner - Malaysia GBC Best New Green Commercial Building 2020

photo shows the public enjoyment of building during Independence Day

SUASANA PUTRAJAYA

PUTRAJAYA PRECINCT 2, MALAYSIA

what makes it innovative?

•sun-shading

sunshading blades boldly define the tropical aesthetics and provide sunshading & anti-glare performance that gives the image of a contemporary climatic-responsive built-form

UNSDG
3 GOOD HEALTH AND WELL-BEING

•low energy design

passive mode strategies used are assembled together as collective strategy for low energy and high comfort building.

UNSDG
3 GOOD HEALTH AND WELL-BEING
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY

BCA Green Mark Platinum

delivering the spirit of innovation
..by biophilic vegetated healing skycourts..

what delights the users?

•public realm

the Public Events Plaza is a communal space that becomes main focal point of the site and subsequently leading visitors to the main foyer and library.

UNSDG
3 GOOD HEALTH AND WELL-BEING
11 SUSTAINABLE CITIES AND COMMUNITIES

what about the interiors?

•vegetated skycourts

Over 6,300 m² are designed as 'green space' that creates urban "skycourts" providing a positive psychological effect on building users and improving general working environments.

UNSDG
3 GOOD HEALTH AND WELL-BEING
8 DECENT WORK AND ECONOMIC GROWTH

•green materials

use of recycled and reused materials (eg. carpet, wall fabrics and sustainable-forested local timber) contribute to an environmentally low impact design.

UNSDG
3 GOOD HEALTH AND WELL-BEING
13 CLIMATE ACTION

awards received

- **BCA Green Mark Platinum 2005**
- **Silver Award - 3rd SIA Façade Design Excellence Awards 2006**
- **Shortlisted in sustainability category - RICS Awards 2006**
- **First Prize - ASEAN Energy Efficiency Awards 2007**
- **Silver Award - BCA's Universal Design Awards 2007**
- **BCA Green Mark Platinum 2009**

skycourt

natural ventilated space

unique features:

The Client wanted a cultural and tropical building to which the Architect responded with an open-to-the-sky naturally-ventilated civic plaza on the ground plane with opportunities for cultural activities and various 'outdoor' events. A rooftop 'bubble' designed to face the nearby waterfront was also popular with people for holding various functions. NLB was the outcome of a winning competition scheme that underwent several design revisions before it was accepted by the Client.

NATIONAL LIBRARY
VICTORIA ST, SINGAPORE

unique features:

The Great Ormond Street Hospital is located in London, the building is the first "Excellent" BRE-rated hospital in the UK. A key feature of the hospital extension is the flue wall which is an energy efficient fabric and ventilation system expressed on the façade facing Guilford Street. The design solution establishes a sense of order, ease of use, comfort and inspiration to the campus, providing facilities befitting Great Ormond Street's status as the world's leading tertiary children hospital.

BREEAM
"Excellent"
rated

upper valve

thermal
cooling flue

lower valve:
mixed mode floors
(3 floors)

delivering the spirit of innovation

..by mixed-mode glass-flue to reduce energy consumption in temperate climatic conditions..

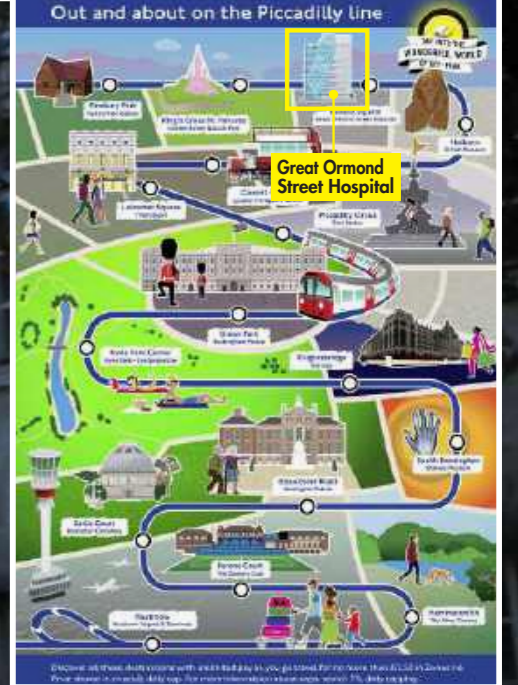
what makes it innovative?



•the "flue wall"
Naturally ventilates the lower 3 floors during the mid-seasons (Spring & Autumn) and reduces annual energy consumption.



•featured building
Great Ormond Street Hospital is featured in a poster at the London Underground Station.



GREAT ORMOND STREET CHILDREN HOSPITAL EXTENSION

LONDON, UK

what makes it innovative?

•experimental diagonal light shaft

Innovating environmental device is the "Solar Shaft" that cuts through the upper floors of Tower A to allow daylight to penetrate into the deep interior spaces.



•"eco cells"

"eco cell" is a device that allows for vegetation, daylight, natural ventilation and rainwater harvesting to extend into the car-park levels below.



•provision of ecosystem services



unique features:

The main ecological sustainable significance of the project is its 1.5 km long continuous perimeter landscaped ramp from the basement to roof garden, which demonstrating ecological nexus and connectivity. Furthermore, the vegetation has compensates cleared vegetation for construction on-site, which exceeding site footprint by 80%. These is how Solaris strives to enhance its site's existing ecosystems.

awards received

- First Prize - *Skyrise Greenery Awards 2009*
- Platinum Rating - *BCA GreenMark 2009*
- *Green GOOD DESIGN Award 2010*
- Gold Medal - *WACA Award 2011*
- Gold Award - *PAM Awards 2011*
- Finalist - *RAIA International Architecture 2012*
- *NPark Leaf Certificate Awards 2014*
- *AIA IR Design Awards 2014, Hong Kong*
- *FuturARC Green Leadership Award 2015*
- *FIABCI World Prix d' Excellence Awards 2016*

delivering hypergreen to increase local biodiversity

..by the 1.5km vertical linear park to increase local biodiversity..

BCA GreenMark Platinum

mid-level roof garden

upper level roof garden

spiral ramp as "Vertical Linear Park"

"Eco Cells"

what delights users and public?



•roof gardens



sky-terraces at the corner of the building that forms interesting green landscapes and contributes unique social meeting points connected to nature.



•"vertical linear park"

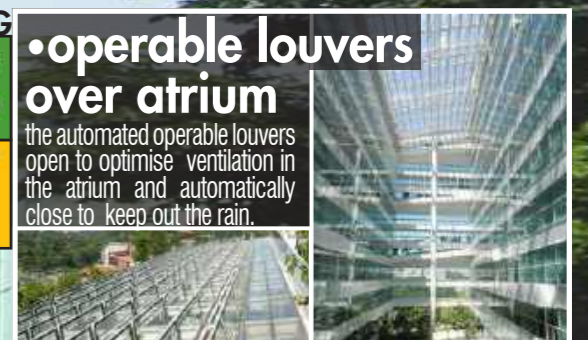


the 1.5 km long continuous green ramp acts as an ecological armature. The spiral ramp expands into generous double-volume sky-terraces at the building corner.



•operable louvers over atrium

the automated operable louvers open to optimise ventilation in the atrium and automatically close to keep out the rain.



SOLARIS
ONE-NORTH, SINGAPORE

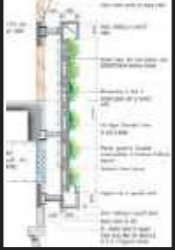
delivering hypergreen

..for phytoremediation and sequestering of aerial contaminants...

what makes it innovative?

•continuous vertical green wall

the extensive vertical green walls on façades act as living habitats. The large greenery components act as means of filtering and improving the building's ambient indoor air quality.



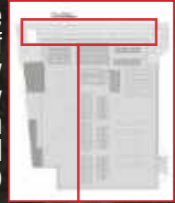
•solar shading

the building is clad with white aluminium panels, clear glass windows, and spandrels with horizontal blades that provides solar shading and anti-glare performance that gives the image of a contemporary climatic responsive built form.



•renewable energy

an array of photovoltaic panels is installed on the building's uppermost roof area. The 234 m² PV array generates approximately 35.28KWh of electricity on site with all power generated feeding directly back into the municipal power grid.



continuous green wall for ecological nexus

Green Building Index (GBI)-Gold

photovoltaic roof canopy

naturally ventilation to elevator lobby

what delights users and public?



•spacious interior with natural daylighting

the main office and circulation spaces are glazed using full-height Low-E curtain walls to provide maximum daylight penetration and enables energy efficient lighting systems within the spaces. Secondary rooms are also fitted with operable windows for natural ventilation and daylight.



unique features:

The DIGI Technology Operation Centre located in Malaysia's Subang High Tech Park was completed in 2010 and has since been awarded a GBI Gold rating. The Client's brief was to design a data centre with ecological features and is based on the 'IT Data Centre's Uptime Institute' Tier III platform with the possibility of scaling up to Tier IV security. A key feature of the DIGI Centre is a vegetated green wall that wraps around its four façades - meant to act as living habitats and as means of filtering and improving its ambient indoor air quality.

DIGI DATA CENTRE

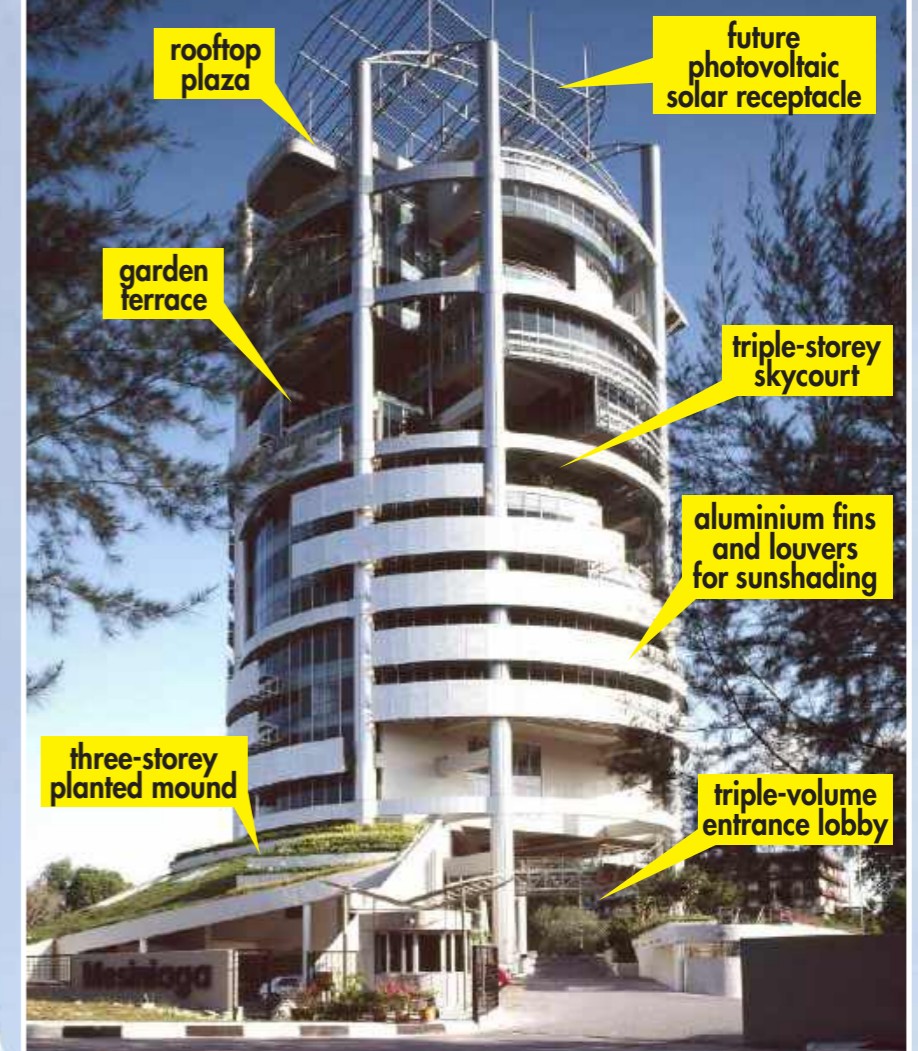
SUBANG JAYA, MALAYSIA

delivering signature & recognizable icons

..by designing a legacy as a bioclimatic skyscraper..

what makes it significant?

•award winning architecture



The Aga Khan Award for Architecture

Aga Khan Award for Architecture 1996

signature features:

Menara Mesiniaga is one of our early buildings that launched our work in ecological design as low-energy (bioclimatic) architecture and which received the Aga Khan Award. The year was 1992, and the building marked the beginning, both literally as well as figuratively, a new era in our work on deep green design.

MENARA MESINIAGA

SUBANG, MALAYSIA

delivering iconic & distinctive aesthetic

..by modular roof units..

homogeneous canopy roof design
to reduce energy consumption

XIONG'AN STATION
BEIJING, CHINA

engendering happiness hormones 😊

- dopamine
- serotonin
- oxytocin
- endorphins

bringing natural day light into the retail space

natural ventilated cool plaza

enhancing comfort & well-being

..by mixed-mode cooling for retail complex (no air-conditioning)..

what makes it innovative?



•extractor fans



extractor fan

owner's comment:

“we are living in paradise!”
- Mr. R -

enabling health, well-being & happiness

..beyond user
satisfaction..

engendering
happiness 😊
hormones

- dopamine
- serotonin
- oxytocin
- endorphins

sliding corner doors
to enhance ventilation

entrance

living
area

swimming pool between
living & sleeping area

promenade to
sleeping areas

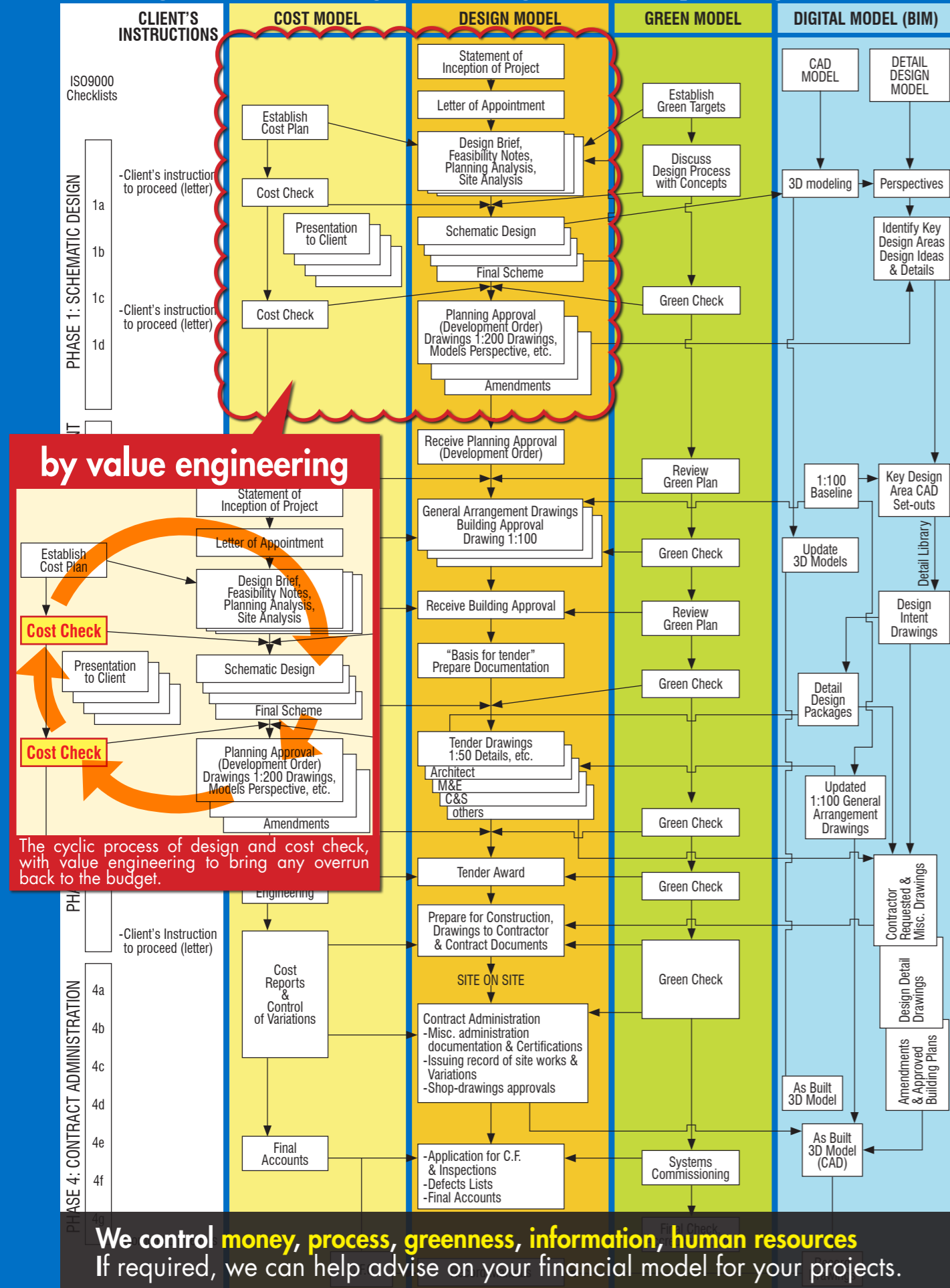
R HOUSE
JOHOR BAHRU, MALAYSIA

effecting cost control

..through value engineering at every stage..

our promise

..these are the benefits you get from us..



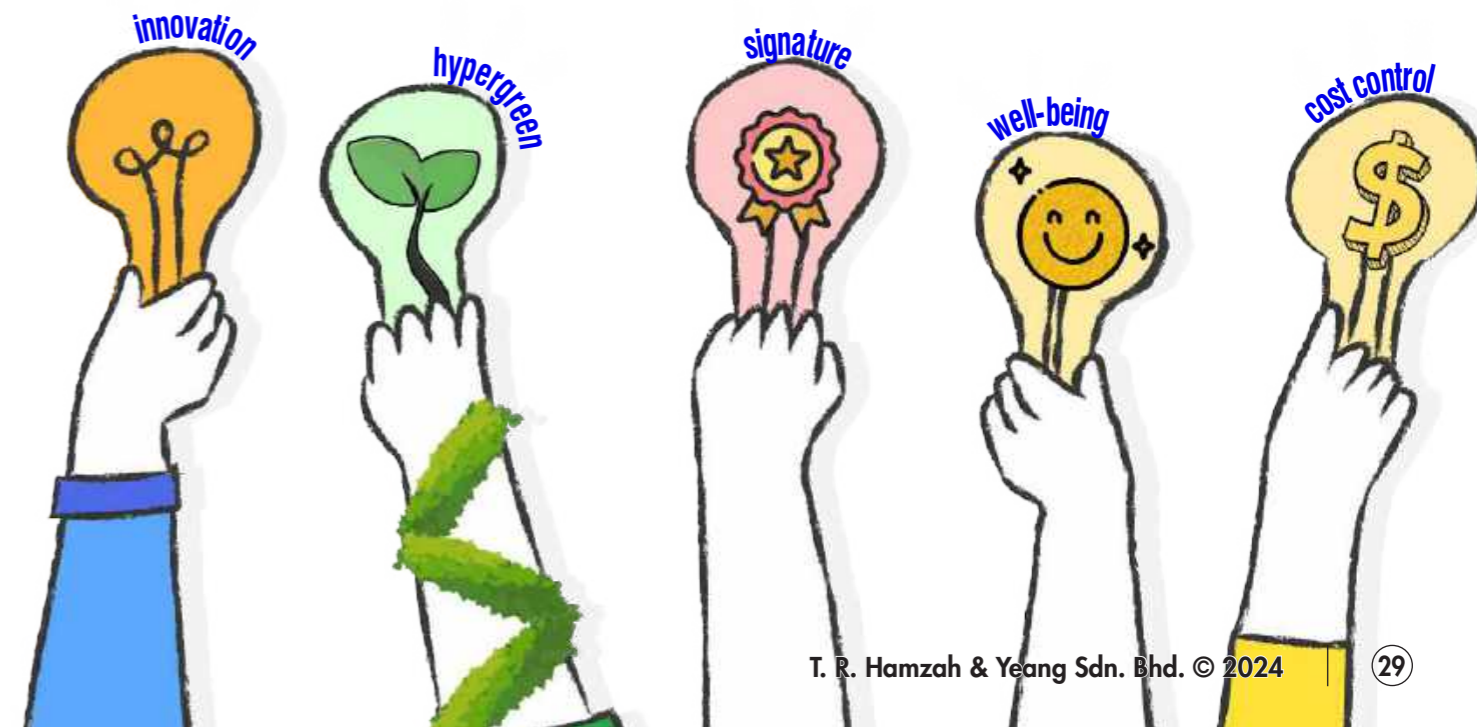
• **innovation** *ingenuity*

• **hypergreen** *sustainability*

• **signature** *style*

• **well-being** *luxury*

• **cost control** *viability*



We control **money, process, greenness, information, human resources**
 If required, we can help advise on your financial model for your projects.

our system

ecological design

..model systems as basis for ecological design..

The approach to designing for humanity's sustainable future must be nature-based through an ecology-driven approach by the biomimicry of ecosystems attributes. This is achieved through the emulation (imitation), replication (reproduction), augmentation (collaboration) and enhancement (optimise) of ecosystem properties where the built environment is recreated as a human-made ecosystem.

Ecological design is the seamless & benign biointegration of these 5 key design factors into a whole as human-made (constructed) ecosystems to achieve a benign nature-to-nature interface:

● nature

(ecosystems & biogeochemical cycles)

- ecomimicry
- biogeochemical cycles
- abiotic constituents
- biotic constituents
- habitats
- species
- biodiversity
- ecosystem conservation & regeneration
- biomes
- biosphere
- habitats repair

NPEI
(Net Positive Ecological Impact)

nature as the context upon which all human activities take place

built environment as 'constructed ecosystems' for a nature-to-nature interface (not technology-to-nature)

● human society

(well-being & happiness)

design to engender release of chemicals in brain

- social
- economic
- political
- institutional
- cultural
- biophilic
- ecologically-responsible behavior
- ecologically-responsible diet
- green spaces for human health, well-being & happiness

NWHS
(Net Well-being, Healthy & Happy Society)

● built systems & infrastructures

(zero wastes and emissions)

- infrastructures
- artefacts
- buildings (zero carbon materials)
- design for recycling & reuse
- carbon capture systems
- smart systems
- smart grids
- large-scale electricity storage
- hydrogen production (without emitting carbon)
- low embodied energy & carbon neutral construction operations
- sustainable production systems (incl. food)
- society's technological systems

NZW/E
(Net Zero Waste / Emissions)

● energy systems

(clean renewable energy/carbon neutral design)

- renewable sources: ambient & on-site energy (solar, wind, water, geothermal)
- passive-mode systems
- mixed-mode systems
- smart full-mode systems
- productive-mode systems
- surplus energy storage systems
- biofuels
- battery & storage systems
- hydrogen production

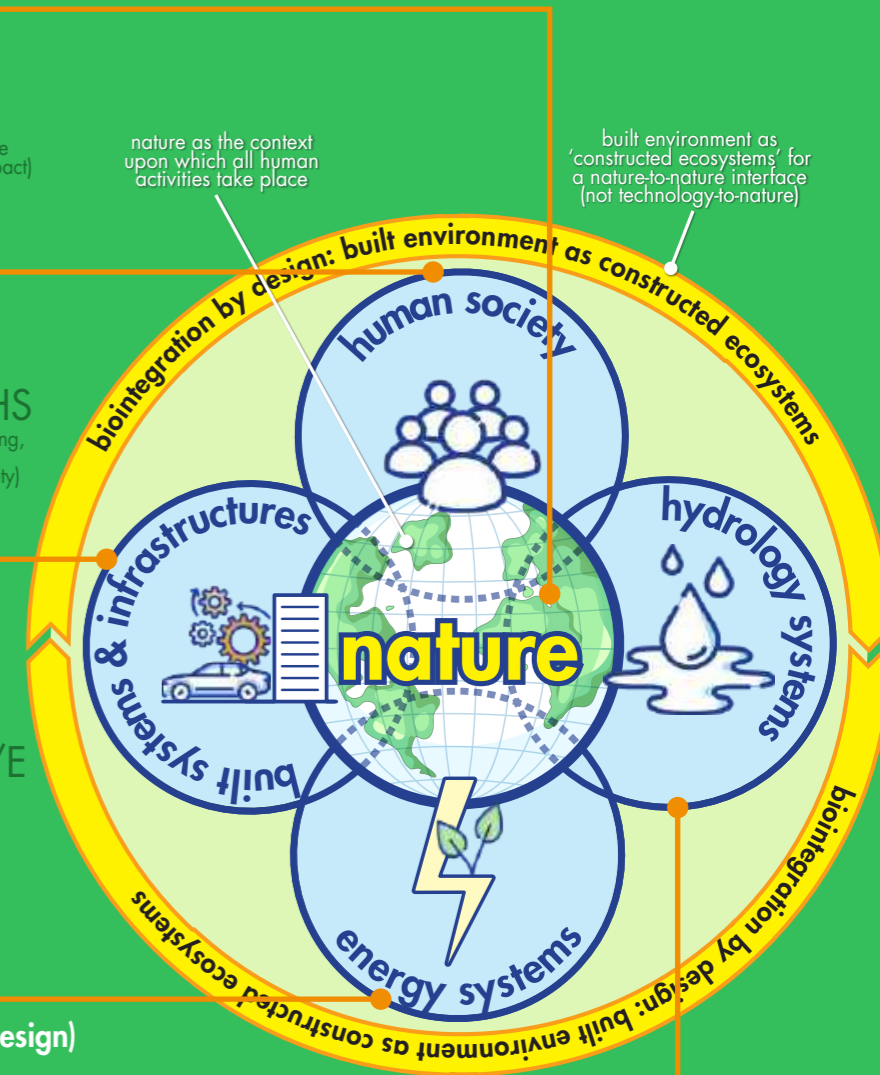
NSE&ZC
(Net Surplus Energy & Zero Carbon)

● hydrology systems

(water management & conservation)

- rainwater harvesting (rainfall, dew, snow)
- ground water recharging
- waterways (seas, lakes, rivers)
- water reuse & recycling
- desalination
- water conservation
- bioswales
- sustainable drainage
- 'sponge-city' concept

NZW
(Net Zero Water)



now we do it?



scan to refer to Fact Sheet: Frequently Asked Questions: 'What is Ecological Design'

ecological design factors

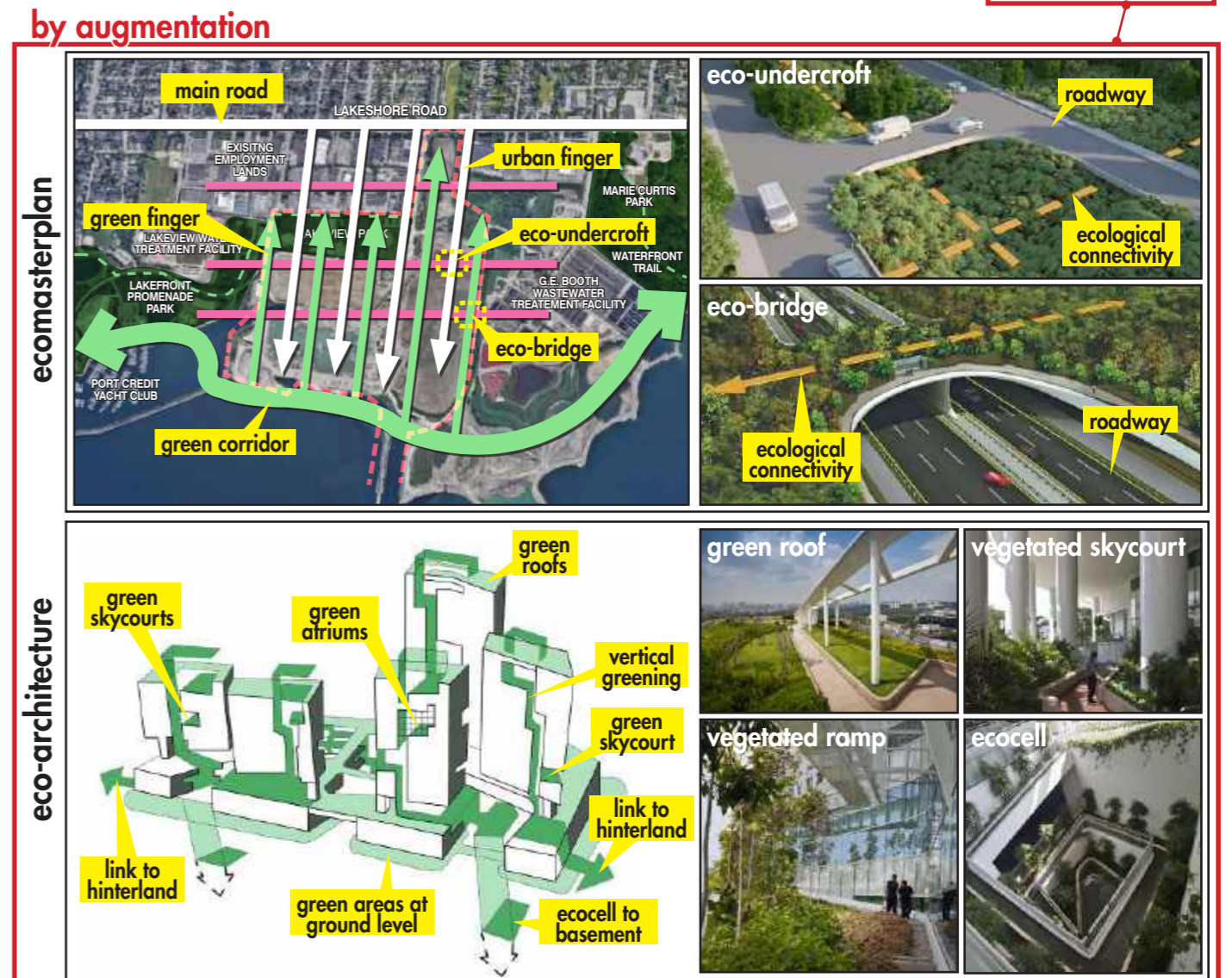
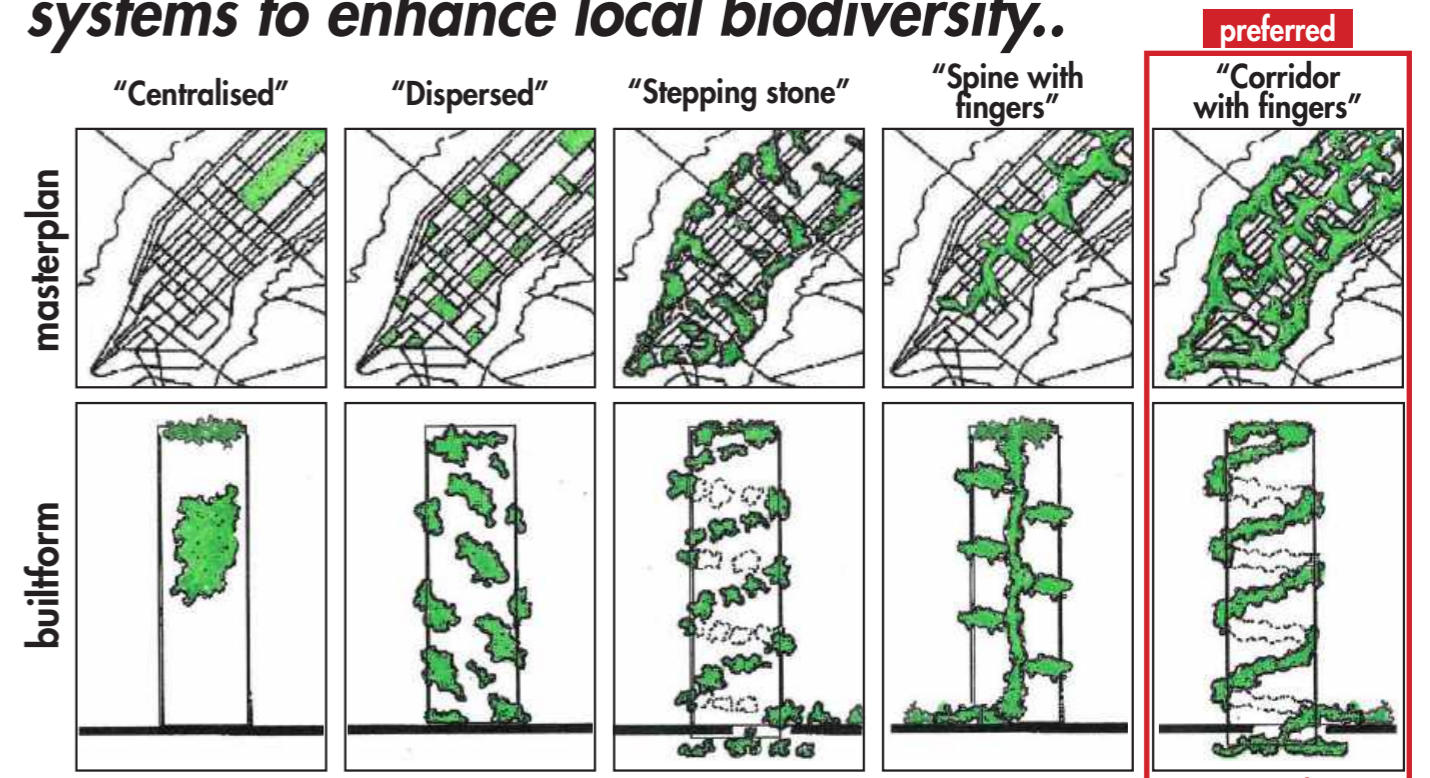
how our ecological design factors align with AIA Framework for Design Excellence & the UNSDG

level of relevance: ● high ● medium ● low

AIA Framework for Design Excellence		Integration	Equitable Communities	Ecosystems	Water	Economy	Energy	Well-being	Resources	Change	Discovery	United Nations Sustainable Development Goals
TRHY Design Factors												
NATURE	Net Positive Ecological Impact habitats creation 	● high	● med	● high	● high	○ low	● med	● med	● high	● high	○ low	13, 14, 15
HUMAN SOCIETY	Net Well-being, Healthy & Happiness happiness chemicals activities spaces 	● high	● high	● high	● high	● high	● high	● high	● high	● med	● med	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
BUILT SYSTEMS & INFRASTRUCTURES	Net Zero Waste / Emissions building life-cycle 	● high	● med	● med	● med	● high	● high	● high	● high	● med	● med	9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
ENERGY SYSTEMS	Net Surplus Energy & Zero Carbon progressively reduction of dependency on non-renewable energy resources by optimising: 1 passive mode 2 mixed mode 3 full mode 4 productive mode 5 surplus mode 	● high	● med	● med	● high	● high	● high	● high	● med	○ low	○ low	7, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
HYDROLOGY CYCLES	Net Zero Water closing the water cycles 	● high	● med	● med	● high	○ low	● med	● med	● high	● med	○ low	6, 7, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

the constructed ecosystem

..creating habitats as "patches" within built systems to enhance local biodiversity..



increasing local biodiversity

..using for Biodiversity Targets Matrix for designing habitats to enhance local biodiversity..

Plan

Habitats	Level 1 Promenada	Level 1 External Planters	Level 1 Trees	Level 2 Trees & Shrubs	Level 3 Shrubs	Level 6-13 Shrubs
Shrubs / Groundcovers	Zephyranthes Candida Tillandsia Australasica Acahylla Siamensis Ficus Pumila Phyllanthus Myrtilloides Spathiphyllum Cannifolium Costus Speciosus 'Marginatus' Ornithophan Aristatus Brunfelsia Calycina Canna Indica Yasminia Elliptica Loropetalum Justicia Gandarusa Loro Topary	Turfing Zoyzia Matrella Aemilopus Compressus	Caesalpinia Ferrea Ficus Nitida Eucalyptus Deguipita Plumeria Obutusa	Trees - Cyathia Cooperii - Pisonia Alba - Brunfelsia Calycina	- Angelonia Salicaria - Belamcanda Chinensis - Osmoxylon Lineare Yellow - Pisonia Alba - Vernonia Elliptica - Allamanda Nerifolia - Costus Speciosus 'Marginatus'	- Belamcanda Chinensis - Osmoxylon Lineare Yellow - Pisonia Alba - Vernonia Elliptica - Allamanda Nerifolia - Costus Speciosus 'Marginatus'

Target Species

- Priority species for nature conservation
- Rare species that could symbolize scheme success
- Indicator of good population of small mammals
- Indicator of good population of small birds
- Indicator of good population of fish/amphibians
- Indicator of good population of invertebrates
- Indicator of good water quality
- Species with special aesthetic qualities or interest to most of conspicuous beauty, song or tendency to use artificial refuges.

Keys

- R: Root
- WQ: Water Quality
- F: Feeding
- DPS: Dominant Plant Species
- H: Host
- B: Breeding

Species with Social / Amenity / Cultural / Educational Values:

- FS: "Flagship" species that champion the biodiversity of the wider landscape in which they are found, often because of their conspicuousness, appealing appearance / behaviour or cultural iconography
- IA: "Innate Appeal" - species of above-average value to people in terms of its aesthetic value or curiosity value. For example, a species of bird with particularly melodious song or perhaps a plant with particularly appealing perfume, or species contributing to a valued whole ecosystem aesthetic such as "lushness" or "multicoloured beauty" to which society responds positively.
- EW: "Early Warning" - species that may give an early warning of threats to our own health rather like a Canary in a coal mine. Classic examples include the Peregrine Falcon and DDT, lichen assemblages and sulphur clew and riverherring populations in rivers and

Species with "Innate" & "Ecosystem Support" Values:

- CP: "Conservation Priority" - species of innate biodiversity value which may be assessed, for example, on the basis of rarity or value as a particularly high-quality example of its kind.
- KS: "Keystone" - species having a disproportionate effect in the functioning of the local environment.
- US: "Umbrella" (US) - species of value in making conservation-related decisions. Typically increase protecting these species indirectly protects a wide variety of other species & habitats. They are species which transmute the presence of an overall balanced habitat of good conservation status.

Flora Species

Caesalpinia ferrea	Leopard Tree
Ficus nitida	Indian Laurel Fig
Eucalyptus deguipita	Rainbow eucalyptus
Plumeria obtusa	Frangipani
Zephyranthes candida	Fairy lily
Tillandsia australasica	New Caledonia
Acalypha siamensis	Tea leaf
Ficus pumila	Creeper fig
Phyllanthus myrtilloides	Mousetail plant
Spathiphyllum cannifolium	Peace Lily
Costus speciosus marginatus	Spiral ginger Var.
Ornithophan aristatus	Cats Whiskers
Brunfelsia calycina	Ysido-Today-Timv
Canna indica	Bunga Tabih

Target Fauna Species

Cynopterus brachyotis lesser short-nosed fruit bat	CP					
Streptopelia chinensis spotted dove	IA	F				
Geopelia striata zebra dove	IA	F				
Caprimulgus macrurus large-tailed nightjar	IA					F
Apus affinis house swift	IA					F
Megalaima haemacephala coppersmith barbet	IA					F
Aegithina tiphia common nora	IA					F
Lanius schach long-tailed shrike	IA					B
Pyronotus olivaceus yellow-vented bulbul	IA	F	F	F	F	F
Oriolus chinensis black-rumped oriole	IA	F	F	F	F	F
Copsychus saularis oriental magpie-robin	IA	F	F	F	F	F
Gerygone sulphurea golden-bellied gerygone	IA	F	F	F	F	F
Orthotomus sutorius common tailorbird	IA	F	F	F	F	F
Anthreptes malacensis brown-breasted sunbird	FS IA					B
Anthreptes simplex plain sunbird	FS IA	F				
Cinnyris jugularis olive-backed sunbird	FS IA	F	F	F	F	F
Dicaeum cruentatum scarlet-backed flowerpecker	FS IA	F	F	F	F	F
Appias libythea oifarna striped albatross	IA	F	F	F	F	
Catopsilia pomonia pomonia venice migrant	IA	F	F	F	F	
Chilades pandava cyclad blue	IA	F	F	F	F	
Danaus chrysipus chitin tiger	IA	F	F	F	F	
Delias hyparete metarete painted jayzebel	IA	F	F	F	F	
Euplectes mulciber striped blue crow	IA	F	F	F	F	F
Hypolimnas bolina joditha great eggfly	IA	F	F	F	F	
Junonia almana javana peacock pansy	IA	F	F	F	F	
Rapala larbus common red flash	IA	F	F	F	F	
Zizina hyla tyrriny grass blue	IA	F	F	F	F	

1 create habitats

2 select native fauna species to be brought back to locality: for feeding, breeding, refugee from prey (based on ecological survey of site and surrounding)

3 select non-invasive flora species to attract fauna

4 establish interactions between flora, fauna and habitats

5 create landscape conditions for habitats to survive at all season

creating habitats in builtform

..identify flora species to attract the fauna species..

create habitats within builtform

select non-invasive flora species to attract fauna

select native fauna species to be brought back to locality

roof

- roof garden
 - swimming pool
 - viewing deck
 - bbq area
 - outdoor cinema
- facilities
 - garden terraces with gym and function hall
- terrace garden
 - private garden for penthouse
- skycourt lvi.29
 - landscaped shared-spaces and facilities
- skycourt lvi.25
 - landscaped shared-spaces and facilities
- lvi.21
- vertical green wall
- skycourt lvi.15
 - landscaped shared-spaces and facilities
- green wall
- green planters

apartments

carpark

ramp

MIGRATING BIRDS ZONE

- Butastur indicus
- Pernis ptilorhynchus
- Accipiter gularis
- Accipiter solonensis
- Aviceda leuphotes

SONGBIRDS ZONE

- Streptopelia chinensis
- Orthotomus ruficeps
- Apus affinis
- Hirundo javanica
- Geopelia striata
- Rhipidura javanica
- Halcyon surnyensis
- Pycnonotus goiavier
- Gerygone sulphurea
- Anthreptes simplex
- Oriolus
- Pycnonotus erythrophthalmos
- Aegithina tiphia
- Scotophilus kuhlii
- Cinnyris jugularis

BUTTERFLY ZONE

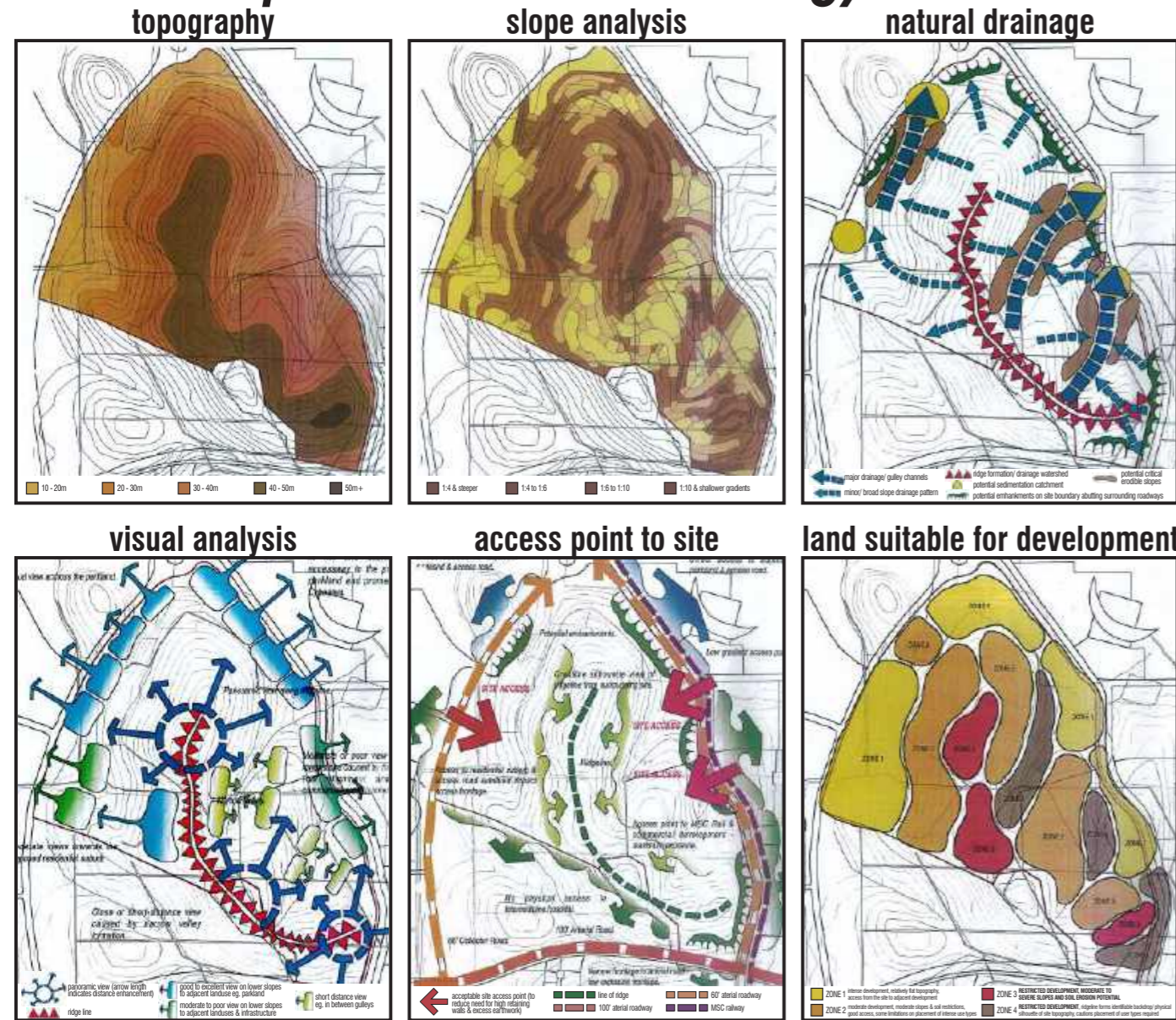
- Pachliopta aristolochiae
- Chilades pandava
- Appias libythea S.
- Acraea violae
- Catopsilia pomonia
- Junonia orithya
- Chilasa clytia clyti
- Danaus chrysipus
- Delias hyparete

DRAGONFLY ZONE

- Crocothemis servilia
- Tyriobapta torrida
- Brachydiplax chalybea
- Rhyothemis

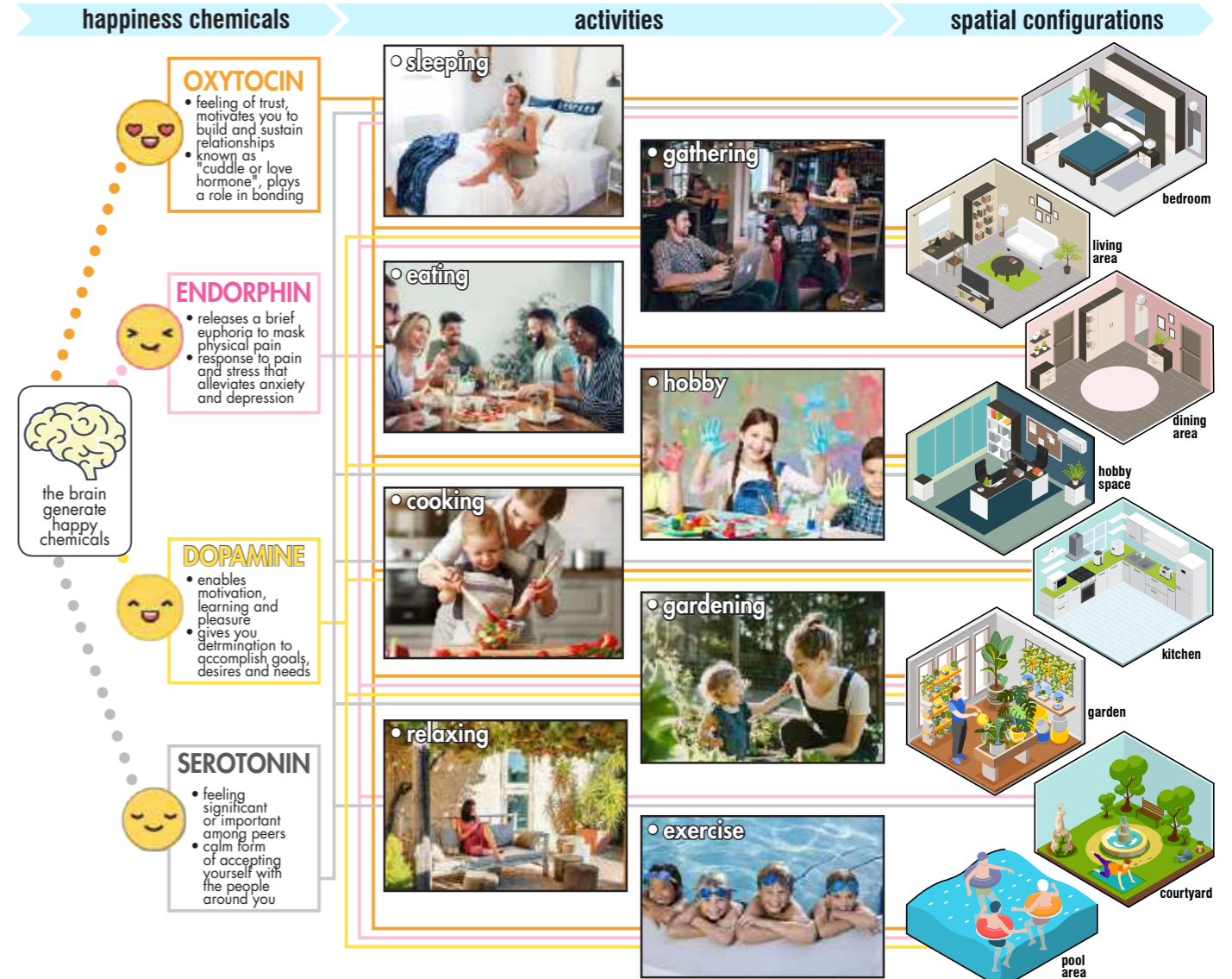
conserving the site's ecology

..by using the ecological land-use method to preserve the site's ecology..



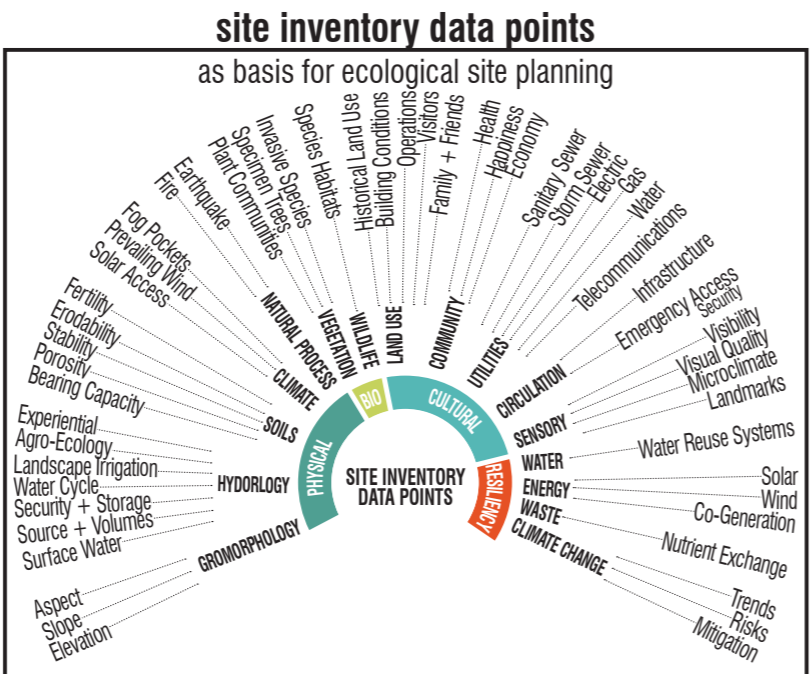
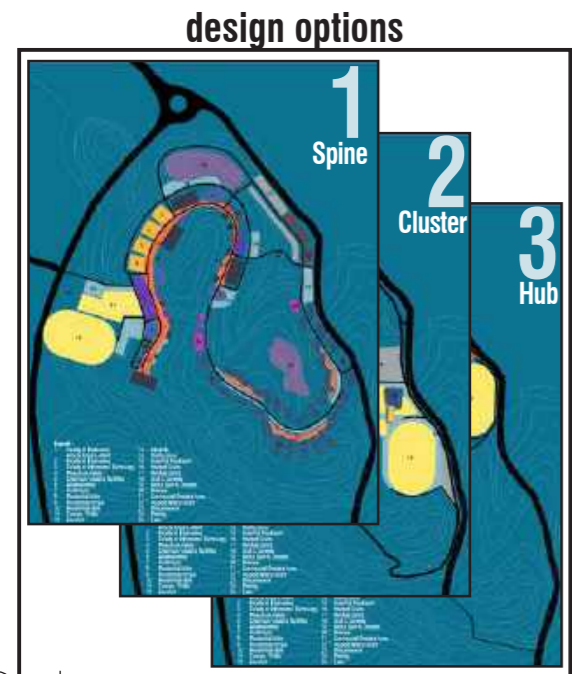
design for users health, happiness & well-being

..by enabling activities & creating spaces..



designing healthy spaces

- optimize natural light
- thermal comfort
- indoor air quality
- mental & social well-being
- good acoustics
- movement
- maximize views
- human-scale design
- energy & water efficiency
- sustainability
- biophilic design
- flexibility & adaptability

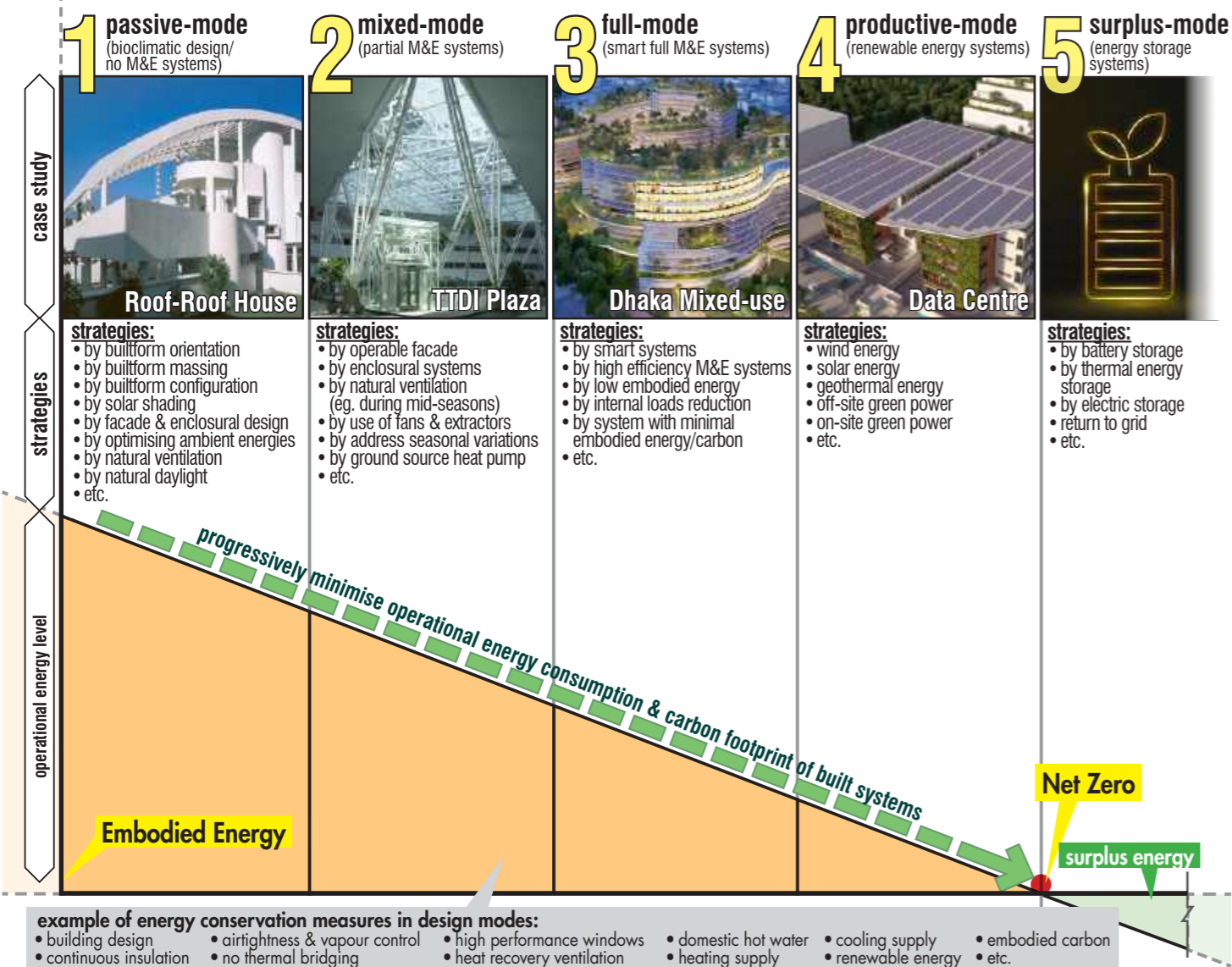


designing for Net Zero / Surplus Energy

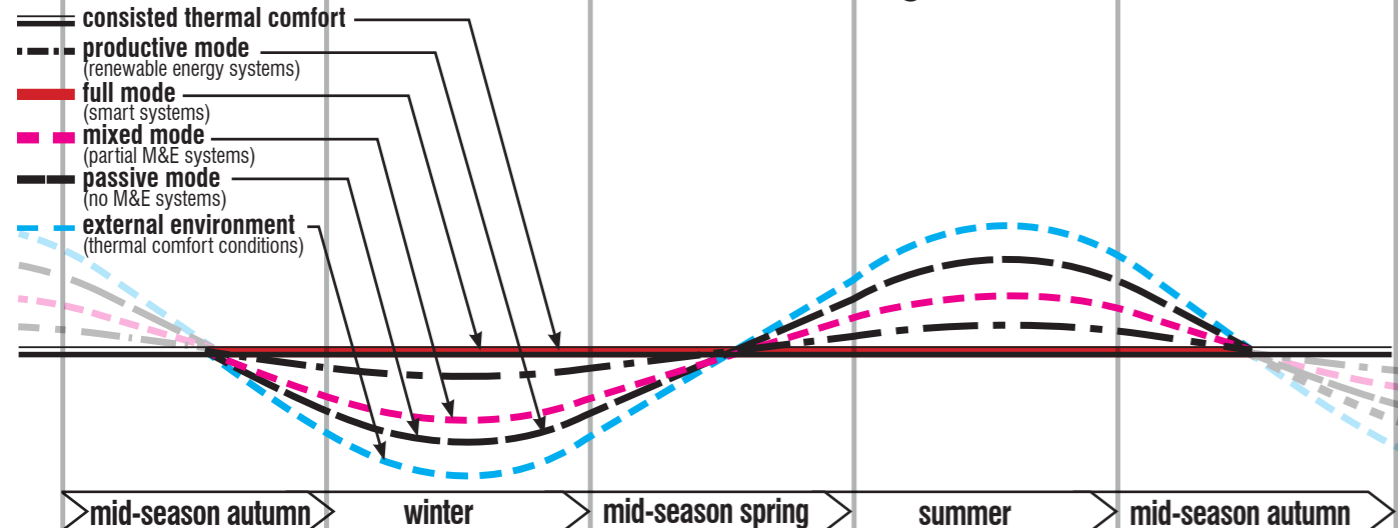
..by progressive operational energy reduction..

designing for near net zero energy & carbon

by progressively reduce operational energy, carbon emissions & dependency on non-renewable energy resources by optimising:



thermal comfort conditions in relation to design mode



delivering thought leadership and on-going research

..to benefit your project..

..over 16 ecology-based research publications authored by Dr. Ken Yeang..

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available at www.amazon.com

benefits to your project

What you get from us?

a high-value product
..by sustainable design..



well-designed, refined, elegant
and exquisitely beautiful



design that gives the
highest level of pleasure



exclusiveness of product that
many others cannot have or enjoy



product possession for you as
reward of their personal success



possession of well-designed exclusive
product as **proof of financial standing**



product possession as
recognition of status



privileges and services
accompanying the designed product

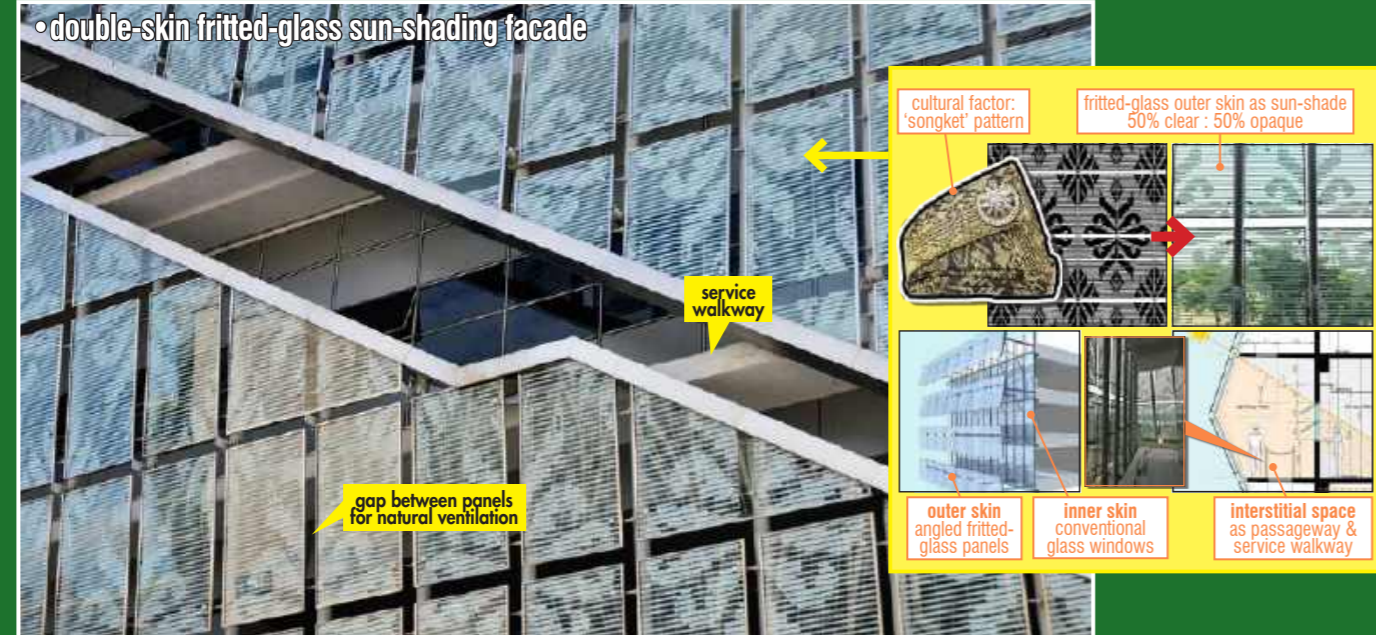


functional rationale for
ownership of designed product

designing for energy & water reduction

..by sustainable design..

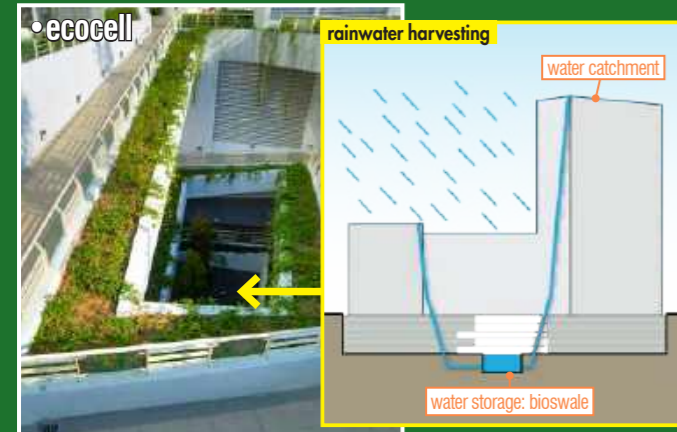
Suasana Putrajaya, Malaysia: rated Green Building Index Silver



design for reduction of energy consumption

Items	Purpose	Reference	Proposed
1. Passive Design • Fritted-glass double-skin façade • Roof & skylight	reduce heat gain - OTTV (Overall Thermal Transfer Value) - RTTV (Roof Thermal Transfer Value)	<32.81 W/m ² <19.15 W/m ²	21.67 W/m² 14.35 W/m²
2. Lighting Systems • Motion sensor in the fire staircase & toilets; • Lighting zoning & photocell sensor in the office area; • LED & T5 light fitting in the office, common areas & façade lighting.	reduce energy consumption - LEI (Lighting Energy Intensity)	38.55kWh/yr/m ²	30.21 kWh/yr/m²
3. Mechanical Systems • combination of AHU fan & motor power can generate 60% efficiency	achieve thermal comfort level of >24°C & humidity level of 55% - ACMV (Air Conditioning & Mechanical Ventilation System)	92.57kWh/yr/m ²	58.57 kWh/yr/m²
4. Building Control Systems • smart power strips to cut off power of the un-used devices • use devices with higher energy efficiency ratings	reduce energy consumption - PLEI (Plug Load Energy Intensity)	72.40kWh/yr/m ²	40.40 kWh/yr/m²
Low Energy & Carbon Neutral Systems • passive-mode, mixed-mode, full-mode, productive-mode	encourage enhancement of building EE performance & reducing CO ₂ emission - BEI (Building Energy Intensity)	<150kWh/yr/m ²	136.8 kWh/yr/m²

•verandah for F&B outlets with fritted-glass canopy



design for reduction of water consumption

Items	Reference	Proposed
1. Water Efficient Fitting • water regulator or flow controller • minimize water flow rate for toilet fittings	55,477 m ³ /yr	32,990 m³/yr (40.5% reduction)
2. Rain Water Harvesting Tank (RWHT) System • harvest rainwater for landscape irrigation	-	11,000 m³/yr
3. Condensate Water Recovery System • harvest clean water for landscape irrigation	-	6,000 m³/yr
Total non-potable water harvested		17,000 m³/yr
Total Landscape irrigation demand		30,879 m³/yr
Non-potable water harvested for landscape irrigation	>50.00%	55.05%

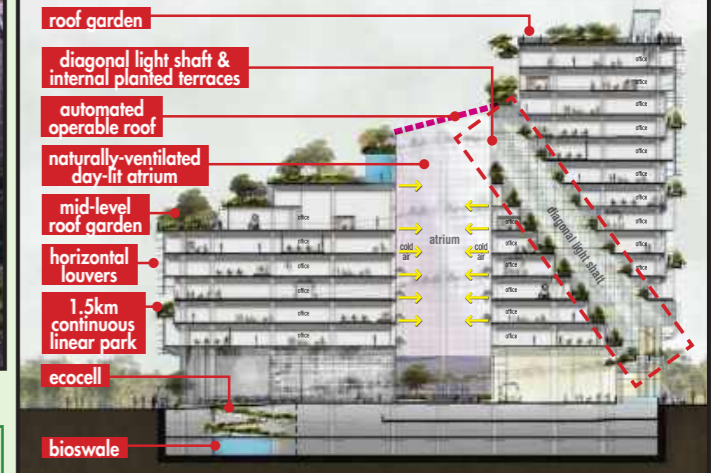
designing for energy & water cost savings

..by mixed-mode low energy design..

Solaris, Singapore: rated Green Mark Platinum



•green design features



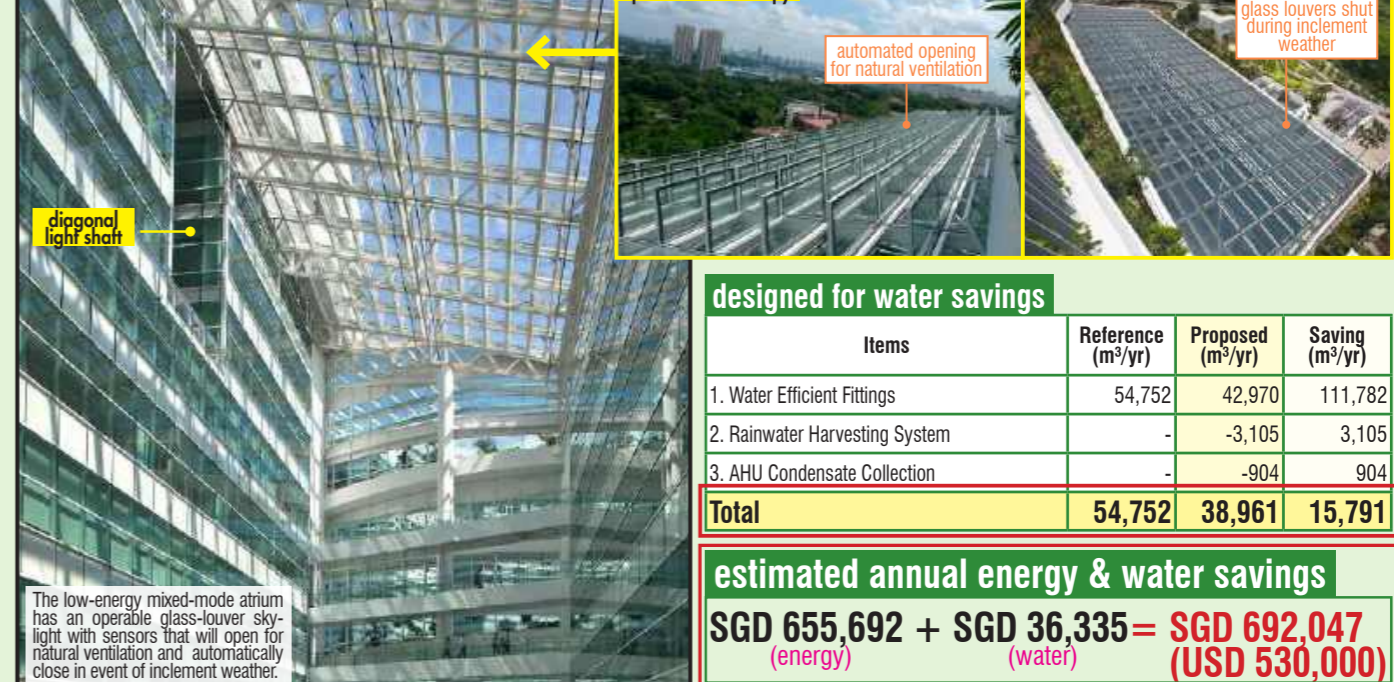
annual energy savings

Items	Reference (kWh/year)	Proposed (kWh/year)	Energy Saving (%)
1. AHU and FCU Fans	2,861,445	1,313,582	54.09%
2. Split Cooling Unit	5,142	3,959	23.01%
3. Mechanical Fans	699,874	239,405	65.79%
4. Chilled Water Pumps	239,501	98,954	58.68%
5. Domestic Pump	43,538	43,538	0%
6. Exterior Lighting	191,389	65,207	65.93%
7. Office Receptacle	1,845,844	1,845,844	0%
8. Retail Receptacle	41,012	41,012	0%
9. Water Heater	17,328	17,328	0%
10. Lifts	647,623	582,855	10%
11. Interior Lighting	2,348,283	1,410,837	39.92%
Total	8,940,979	5,662,521	36.67%
Cooling Load Reduction	1,998.55 tons	1,667.65 tons	16.56%

•diagonal light shaft



•natural ventilated day-lit atrium



designed for water savings

Items	Reference (m ³ /yr)	Proposed (m ³ /yr)	Saving (m ³ /yr)
1. Water Efficient Fittings	54,752	42,970	111,782
2. Rainwater Harvesting System	-	-3,105	3,105
3. AHU Condensate Collection	-	-904	904
Total	54,752	38,961	15,791

estimated annual energy & water savings

SGD 655,692 + SGD 36,335 = **SGD 692,047**
(energy) (water) (USD 530,000)

unique method for rapid delivery of design solutions

..by the "Basis for Design" approach..

examples: **Option 1**
Plot Ratio 1:8

Draft Massing

Site Plan

Project Information

1. Site Information

	(acres)	(sq.ft)	(sq.m)
Land Area	5.400	237,613	22,083
Land surrendered for road widening	0	0	0
Net Land Area	5.400	237,613	22,083

Total plinth area: 50% 118,807 11,042
 Basement plinth area (assumed): 80% 190,090 17,866
 Proposed Plot Ratio: 8.8 (Zoning Commercial)
 Max. permissible GFA: 1,900,965 sq.ft

2. Proposed Development

	% of GFA	Total GFA (ft)	NFA(ft)	Units/Units
Residential	78.0%	1,482,706	1,151,160	1,272,272
Office	20.5%	389,885	303,955	
Retail	1.5%	28,514	18,534	
Total	100.0%	1,900,965	1,473,648	1,272,272

Overall Efficiency: 77.5%

A. Serviced Apartments

	% of GFA	Total GFA (ft)	NFA(ft)	Units/Units
Total GFA	100.0%	1,482,706	1,151,160	
less Main Foyer & facilities	3%	44,481		
GFA for Serviced Apartments	97.0%	1,438,224		
NFA for Serviced Apartments	80.0%	1,151,160		

Proposed Unit Mix

Unit size (ft)	% of units	Total NFA Total no. of units	
600	40%	330,270	509
850	40%	432,480	509
1200	15%	228,960	191
2025	5%	169,590	64
Total NFA	100.0%	1,151,160	1272

No. of units per floor: 10 units / 10,000 ft GFA per floor (average)
 Total no. of floors: 127
 No. of floors: 7
 No. of floors per tower: 64

B. Office

	% of GFA	Total GFA (ft)	NFA(ft)	Units/Units
Total GFA	100.0%	389,885	303,955	
NFA	78.0%	303,955		
No. of floors	25	12,000 ft per floor		

C. Retail

	% of GFA	Total GFA (ft)	NFA(ft)	Units/Units
Total GFA	100.0%	28,514	18,534	
NFA	65%	18,534		
Total floors	1			

D. Carpark Requirement (as per DBKL calculation)

	1920 cpa @ 1 top / 500ft NFA (65%)	546 cpa @ 1 top / 500ft NFA (70%)	48 cpa @ 1 top / 500ft NFA (70%)
Residential	1920	546	48
Office			
Retail			
Total Car Park Requirement	2,513 cpa		

Elevated Carpark

	118,807 ft per floor @ 50% of plinth area	339 cpa/ft @ 300ft/cpa
Residential	118,807	339
Office		
Retail		
Total elevated carpark floors	4.2 floors	
Est. total carpark spaces provided	1,627 cpa	
Total podium carpark area	499,368 ft	

Basement Carpark

	190,090 ft per floor assuming 80% of site area	95,045 ft say 50% of basement floor
Residential	190,090	95,045
Office		
Retail		
Total basement carpark floors	2.8 floors	
Est. total carpark spaces provided	1,086 cpa	
Total basement area	190,090 ft	

5. Total built-up area (GFA+CP+M&E) 2,200,877 ft
 Tower height (Total floors) 78 floors

Option 2

Plot Ratio 1:10

Information

	(acres)	(sq.ft)	(sq.m)
Land Area	5.400	237,613	22,083
Land surrendered for road widening	0	0	0
Net Land Area	5.400	237,613	22,083

Total plinth area: 90% 118,807 11,042
 Basement plinth area (assumed): 80% 190,090 17,866
 Proposed Plot Ratio: 10.8 (Zoning Commercial)
 Max. permissible GFA: 2,376,131 sq.ft

% of GFA Total GFA (ft) NFA(ft) Units/Units
 78.0% 1,853,382 1,448,000 1,608,600
 20.5% 487,107 378,943
 1.5% 35,442 23,167

100.0% 2,376,131 1,851,111 1,608,600

77.9%

1,853,382 ft
 55,051 ft
 1,797,791 ft
 80.9% 1,448,000 ft

% of units Total NFA Total no. of units
 40% 416,000 640 4.8
 40% 544,000 640 4.8
 15% 288,000 240 1.8
 5% 200,000 80 0.6
 100.0% 1,448,000 1,600

12 units
 133 13,923 ft GFA per floor (average)
 7
 67

487,107 ft
 78% 378,943 ft
 32 12,000 ft per floor

35,442 ft
 65% 23,167 ft
 1 floor

DBKL calculation
 3408 cpa @ 1 top / 500ft NFA (65%)
 682 cpa @ 1 top / 500ft NFA (70%)
 58 cpa @ 1 top / 500ft NFA (70%)
 3,144 cpa

118,807 ft per floor @ 50% of plinth area
 339 cpa/ft @ 300ft/cpa
 6.1 floors
 2,086 cpa
 718,295 ft

190,090 ft per floor assuming 80% of site area
 95,045 ft say 50% of basement floor
 543 cpa/ft @ 350ft/cpa
 2.8 floor
 1,086 cpa
 190,090 ft

2,798,380 ft
 78 floors

Facilities

Other Facilities
 i. Reading Room
 ii. Multipurpose Hall
 iii. Sauna & Changing Room
 iv. Kindergarten
 v. Barbecue Area

Diagram

Note: Aesthetics and Builtform in progress

choice of builtform & aesthetic options

..as innovative design solutions..

builtform options ↓

option 1: "double helix"

option 2: "jenga"

option 3: "interlocking J"

1

2

3

aesthetic options ↓ **preferred**

option A: "lattice"

option B: "swirl"

option C: "cubic"

A

B

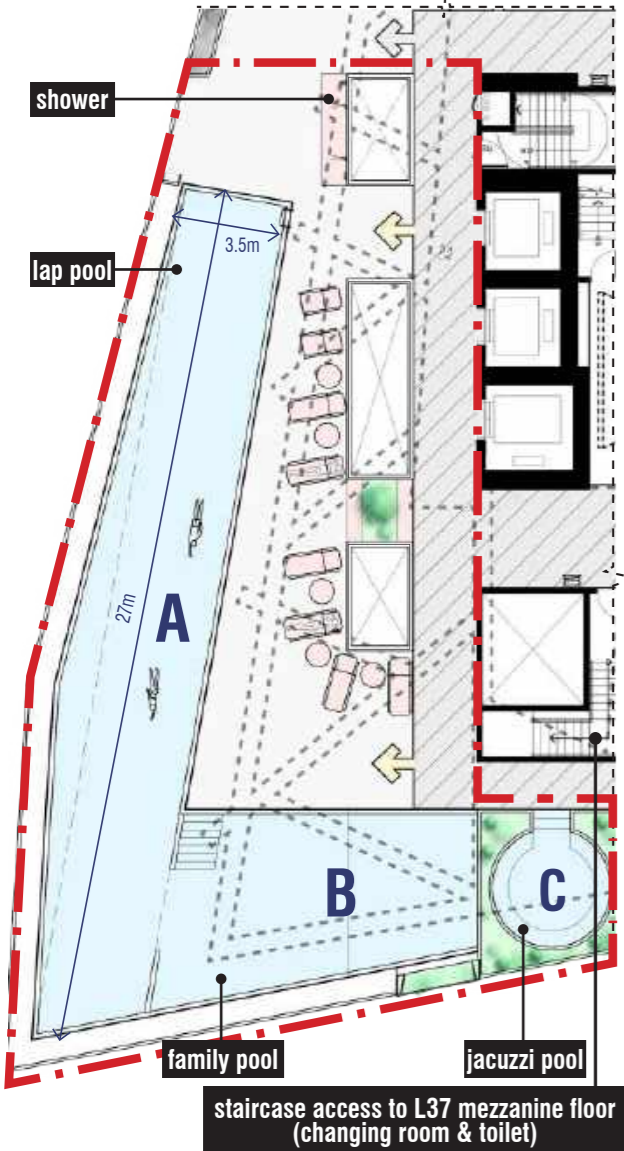
C

selected by Client

design themes to enable effective marketing

..ideas & options..

example of the rooftop of a luxury apartment with 4 pools:



Opt 1: "Caribbean, Calypso"



Opt 2: "Copacabana, Ipanema"



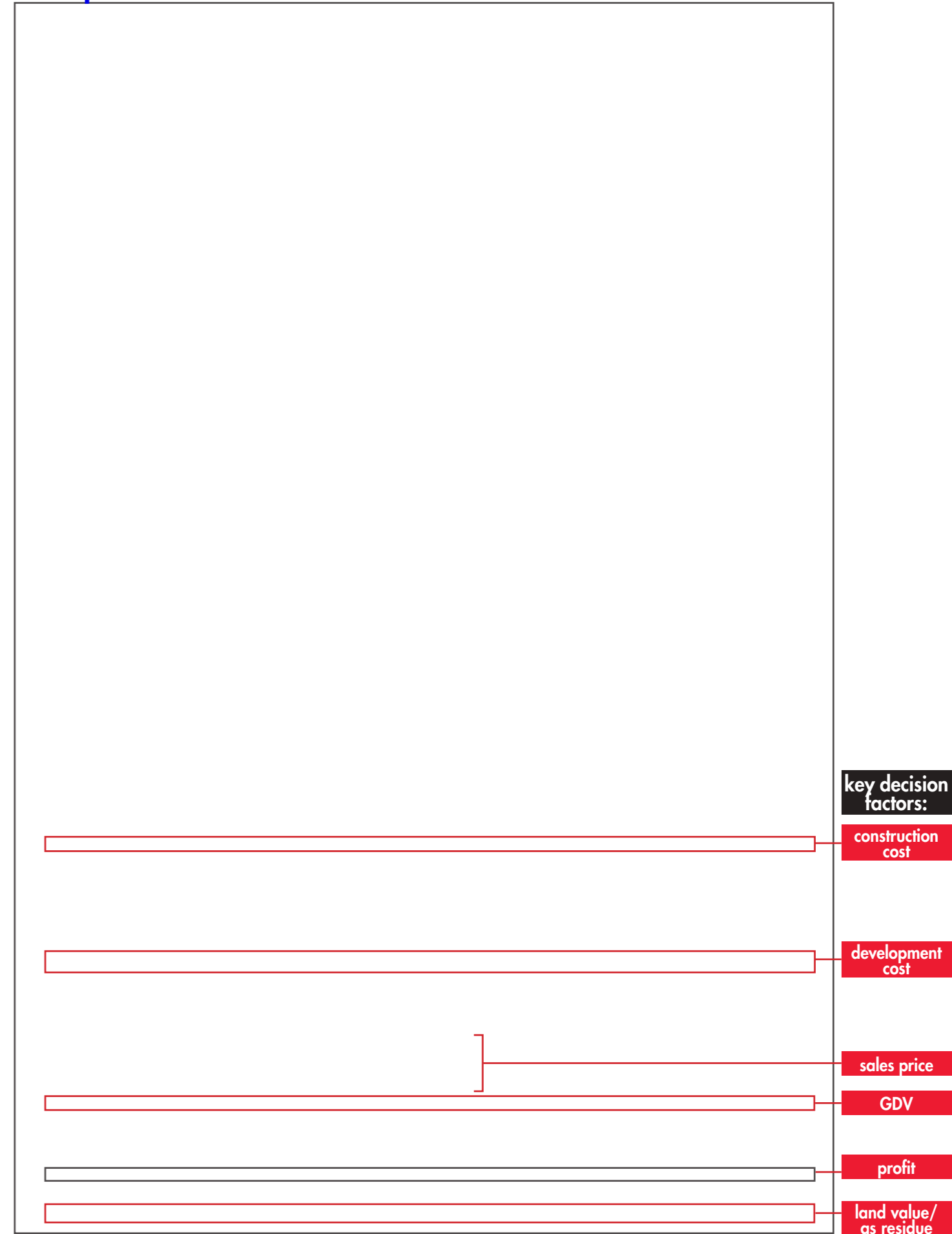
Opt 3: "Santa Monica, California"



commercial viability

..financial modeling as basis for design..

example:



delivering creative, inspired & innovative ideas

..over 800+ projects worldwide..



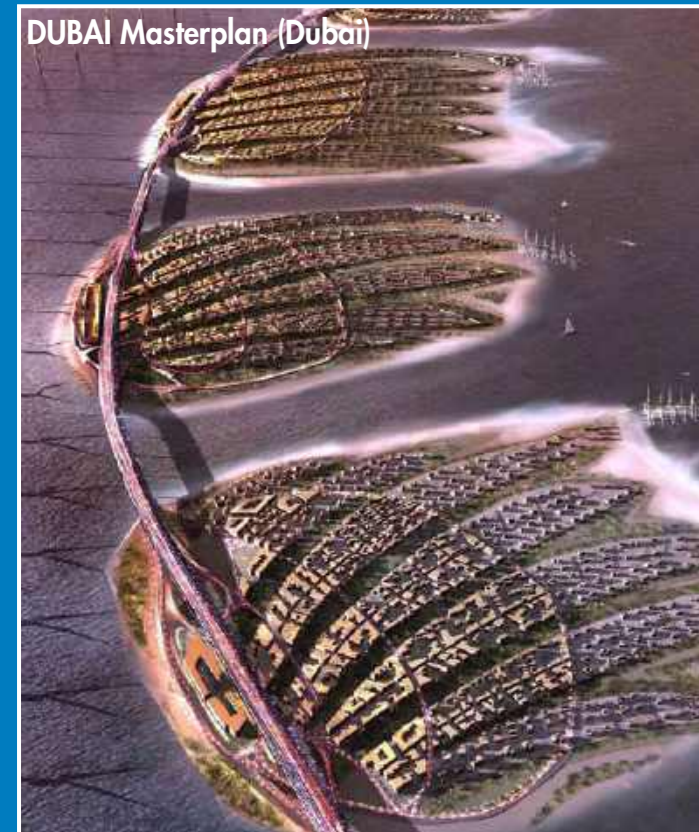
• masterplan • architecture • interior •



DALU Teoli mixed-development (China)



Ganendra Art House (Malaysia)



award-winning experiences that benefit your project

..over 70+ awards in 25 years..

- 2022 Australian Institute of Architect- 2022 Leadership in Sustainability Prize
- 2021 The Edge Malaysia-PAM Green Excellence Award (Honorary Mention) - Putrajaya Suasana (2C5)
- 2021 PAM Gold Medal Award: Commercial (High Rise) Category- Putrajaya Suasana
- 2020 ASA Gold Medal
- 2020 Global Forum on Human Settlements (supported by UN Environment Sustainable Development) Planning and Design for Putrajaya Suasana
- 2020 Global Forum on Human Settlements (supported by UN Environment Sustainable Development) Outstanding Contribution
- 2020 Malaysia Green Building Council Best Research
- 2018 Malaysia Green Building Council Best Commercial Building - Putrajaya Suasana
- 2017 Cityscape Award for Putrajaya Suasana
- 2016 Liang Sicheng Architecture Prize, China
- 2016 FIABCI World Prix d' Excellence Awards: Solaris (Fusionopolis)
- 2016 PAM Award Commendation: Single Residential - R-House
- 2015 40th Most Famous Architects of the 21st Century
- 2015 The Malaysian Construction Industry Excellence Awards- Prominent Player
- 2015 BCA-SGBC Green Building Individual Awards: Green Architect Lifetime
- 2014 FuturARC Green Leadership Award: Solaris (Fusionopolis)
- 2014 World Alliance of Sustainable Cities Design: Design Master
- 2014 AIA IR Design Awards, Hong Kong: Solaris, Fusionopolis
- 2014 NPark Leaf Certificate Awards: Solaris, Fusionopolis
- 2013 MGBC Excellence & Leadership in Sustainability Award



- 2013 ARCASIA Award: Honorary Mention, Industrial Building - DIGI
- 2013 Universiti Malaya - Honorary Doctorate in Architecture
- 2012 Green Building Index, Malaysia - Plaza VADS (Annex Block)
- 2012 RAI International Architecture Award: Finalist - Solaris, Fusionopolis
- 2012 Green Building Index, Malaysia: Gold - DIGI
- 2012 Council on Tall Buildings and Urban Habitat: Finalist
- 2011 RIBA International Award: Solaris, Fusionopolis
- 2011 Regional Holcim Award for Sustainable Construction: Putrajaya 2C5
- 2011 WACA Gold Medal Award: Solaris (Fusionopolis)
- 2011 LEEDS Platinum status on the pre-certification: Spire Edge, India
- 2011 PAM Gold Medal Award: Solaris (Fusionopolis)
- 2011 PAM Award Commendation: Ganendra Art House
- 2011 Merdeka Award for the 'Environment' category
- 2011 Fast Company, March Issue: TOP 10 Most Innovative Architect Firm
- 2010 Green Good Design Awards - Solaris (Fusionopolis)
- 2010 MATRADE Export Excellence Award: Services
- 2009 CNBC Asia Pacific Property Award: Spire Edge, Manesar, India
- 2009 BCA Green Mark Platinum Award: Solaris
- 2009 BCA Green Mark Platinum Award: Singapore National Library
- 2009 CNBC Asia Pacific Property Award: Best Residential Apartment - TTDI Plaza

- 2008 MARTRADE Export Excellence Award: Winning Entry - Solaris
- 2007 ASEAN Energy Efficient Building Awards: 1st prize-'New & Existing' buildings
- 2007 BCA Singapore Silver Award: Universal Design
- 2006 Lynn Beedle Award (Council of Tall Buildings and Urban Habitat)
- 2006 Royal Institute of Chartered Surveyors (RICS) Award
- 2006 SIA Facade Design Excellence Silver Award: Singapore National Library
- 2006 MCIEA (Malaysian Construction Industry Award)
- 2005 BCA Singapore Green Mark Platinum Award: Green & Sustainable Building
- 2005 World Association of Chinese Architects (WACA): Gold Medal Award
- 2001 Hunter Douglas Competition (Open), Malaysia: Winning Entry
- 2000 Beijing World Science & Trade Centre Competition (Invited): Winning Entry
- 2000 Huannan Masterplan Competition for Hopsons Award, China: Winning Entry
- 1996 RAI International Architecture Award: Menara Mesiniaga
- 1996 Aga Khan Award for Architecture, Switzerland: Menara Mesiniaga



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our offices:

Malaysia (Flagship Office):
T. R. Hamzah & Yeang Sdn. Bhd.
8, Jalan 1, Taman Sri Ukay, 68000 Ampang, Selangor, Malaysia
☎ 03-4257 1966/ 1948 📠 03-4256 1005
✉ trhy@trhamzahyeang.com 🌐 www.trhamzahyeang.com

UK:
Ken Yeang Design International Ltd.
4A Avery Row, London, W1K 4AL
☎ 03-4257 1966/ 1948 ✉ trhy@trhamzahyeang.com

China:
NHY Architectural Engineering Design Co. Ltd.
(8 branches in China) (Contact: Y. Z. Song - CEO)
B-10, Guidu International Centre, Nanbine Road 27, Beijing
☎ 86 10 6342 7165 ✉ board@nhydesign.com



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Contact Us:

☎ 03-4257 1966/ 1948

T. R. Hamzah & Yeang Sdn. Bhd. © 2024

8, Jalan 1, Taman Sri Ukay, 68000 Ampang, Selangor, Malaysia

📠 03-4256 1005

✉ trhy@trhamzahyeang.com

🌐 www.trhamzahyeang.com



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