



# GROUND UP ACTION IN CONSERVATION

LEARNINGS AND TAKEAWAYS

Jonathan Poh– Provolk Architects
Seminar on Thinking, Assessing And Doing Built Heritage In Singapore
27 Feb 2019



CASE STUDY 1:

DAKOTA CRESCENT SIT ESTATE

# THE STRAITS TIMES

## 2016 'expiry date' for Dakota Crescent flats



Pormerly a provision shop, this cafe in Dakota Crescent started operation only in April ST PHDTO: LIM SIN THA

@ FUELISHED JUL 25, 2014, 8:28 AM SGT



Residents of 17 low-rise rental blocks can choose to rent or buy new flats



singapore

## Dakota Crescent tenants hit by news of redevelopment

Many in old estate uncertain of plans after learning they have to move out by end-2016



SINGAPORE — Residents of rental flats in Dakota.

Crescent — many of whom have lived there since the blocks were built in the 1950s — are still unsure of their plans after learning recently that they will have to move out by Dec 31, 2016.

The Housing and Development Board (HDB) broke the news to the residents of 17 blocks of rental flats there during a visit on Wednesday because of plans to redevelop the area for new residences. About 400 households are affected by the decision.

#### Promoted Stories

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Telco battle heats up as MyRepublic taps Goldman, DBS to help raise S\$250m

Two fires break out in separate Orchard Road incidents on Tuesday

Economists lower 2016 growth forecasts to 1.9 per cent: MAS survey



View I more comment







Manager of the William III

Su-Mae Khoo









Save Dakota Crescent August 22, 2014 Edited 🐶

Ever passed by this Chinese Medical Clinic? Mr Chon's clinic has been there since 1971, but said in a Newpaper interview last year that "over the years, he has been experiencing a drop in business. Most of his patients, formerly residents of the estate, have left and he has no 'walk-in' patients these days."

Why not give him a try and you will definitely be in for a retro visual treat.

Check out the pictures of its interior in this blog. http:// puipuiprincess.blogspot.sg/2010/01/after-class-on-sat-09-jan-2010-pp-met.html

(Photo credit: HB)

Nag Photo Nadd Location → Edit

Like Comment Share

⚠ Eng Fu, Kuan Eng, Gavin Moey Top Comments • and 42 others like this.

Lenn N Orlina A muamalah more at area dakota?... nearby surrounding areas.. the potential possibilities, whilst retaining dakota nostalgic past, cc. Erman, Muhammad Faisal, Sweetcaramel Latte, Fadzleen j. Aabidah s. Like Reply Message 1 August 22, 2014 at 11 03am - Edited

Kelvin Ang Notice how detailed the designer was - in incorporating a table under the landing, by using the column for two purposes...





More trivia about Dakota Crescent. Did you know that where the roundabout at the entrance to Old Airport Road once was, there stood a monument/sculpture? Do you know why was that there and what it is? (photo contributed by Chris Chen)

N Tag Photo N Add Location ✓ Edit

Like Comment Share

凸 Chris Chen, 普台捷 Ren Ying and Top Comments 11 others like this

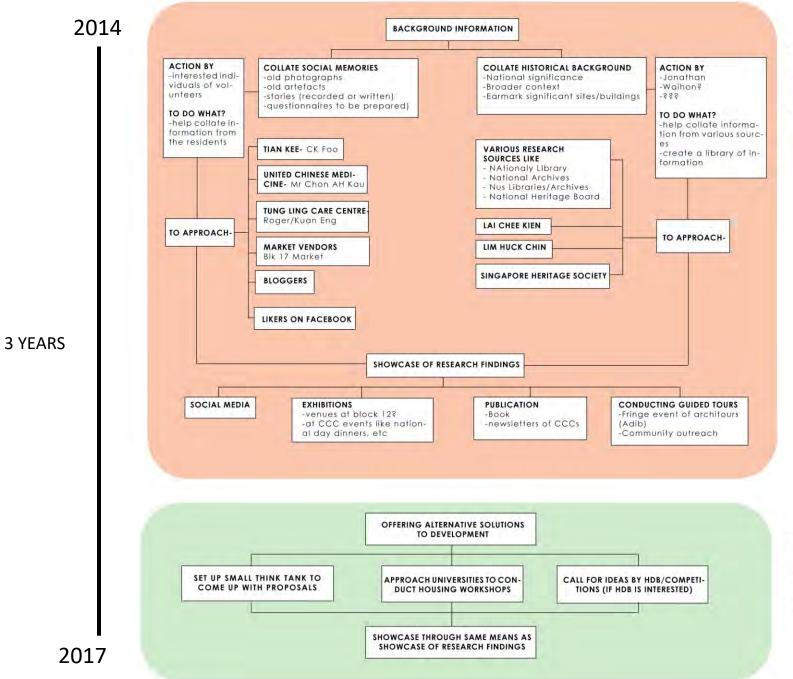
Save Dakota Crescent Mystery solvedi II was built to commemorate the internal self government of Singapore in 1959. It was called

the Constitution Exposition Like Reply August 17, 2014 at 10/25am Kelvin Kho Weillang It was a monument for

some exhibition or expo? Can't remember the exact details though Like Reply Message 62 August 16, 2014

Pierce Tay is it still around?? like Reply Message August 16, 2014 at

Write a comment.



#### PHASE 1 KNOWLEDGE GATHERING & DOCUMENTAION

Set up meetings with MP and CCC to share intent and discuss collaboration efforts

Media to be informed of the research work to be done

#### PHASE 2 IDEA SHARING

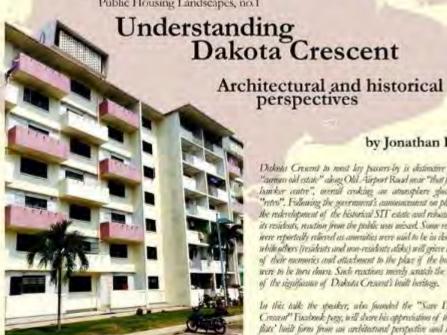
Authorities to be consulted with assistance from MP and CCC if possible

Media to be informed of the research work to be done



#### Seminar Five

Public Housing Landscapes, no.1



#### by Jonathan Poh

Diskola Crescut to most key passers by is distinctive for its "aureus old estate" along Old Airport Road mar "that famous hawker centre", overall croking on atmosphere glossed as "retro". Following the government's aunouncement on plans for the redevelopment of the historical SIT estate and relocation of its residents, reaction from the public uses mixed. Some residents were reportedly relieved as amounties were said to be in disreption, while others (residents and non-residents alike) will grieve the loss of their memories and attachment to the place if the buildings were to be toru down. Such reactions merely sentich the surface of the significance of Dakota Crement's built heritage.

In this talk the speaker, who founded the "Save Dakota Crossent\* Fixebook page, will share his appreciation of the SIT fluts' hailt form from an architectural perspective and identify critical bidoric milestones in the bistory of Dakota Crescent SIT estate. The discussion hopes to shed light on Dakota Crescent's importance as a heritage estate leyond mutalgia.



#### Tue 24 Nov 2015, 7.30pm - 9.30pm Possibility Room, National Library

National Library

Jonathan Poh is an architect and the founder of the "Save Dakota Crescent" Facabook page, through which he has worked to raise awareness about Dakota Crescent's historical significance by highlighting events or interesting anecototes. He is a Masters graduate of the Dept of Architecture, NUS and worked in local firms such as Teh Joo Heng Architects and Chan Sau Yan Associates before starting his own architectural practice. His interior works have been featured in regional design periodicals such as Habitus Magazine and Dwell Asia. As a resident from the neighbourhood, he sees a huge opportunity cost in the potential demise of the estate and hopes to connect with past residents

Dr Imran bin Tajudeen

Asst Professor, Dept of Architecture, National University of Singapore

This talk is brought to you by Singapura Stories
Website: http://singapurastories.com/ Facebook: https://www.facebook.com/SingapuraStories Free admission. Register for this event via GoLibrary here: http://goo.gl/OxkVdQ







Socker Network

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Mr Like Page







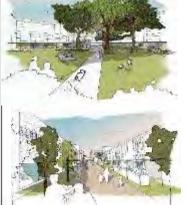


























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#### COM SS-PEAKE

The tending for site threshold there. Common Birg through a set throlds over a point.











































## Group making a case to save Dakota Crescent

Conservation proposal to be sent to the authorities on keeping estate's unique architectural features

Melody Zatchess

A group of architects is pleating together a conservation paper to susurports of Dakota Gressent, one of Singapore's oldest public hous

The group is had by Mr Januthan Pub. The plan is to subtrat the paper to the Ministry of National Developmena CVINDO.

One poción being suggested is ton secung the entire area and re-adaptimpromost Inchineke dung furother uses such as tood and neverage businesses and a hotel

storey, three scorey and seven see thou grant of up to \$15,000. rey brick-clad blocks

A second section involves selectingsome of the estate's legalestrue-

tures for proceedion. These include as eight thursefly blocks' - unived buildings is dr. two perpendicular wings at the playground, and tive blocks which fane Greylang Siner

Tucir coaft peoposal is alsted for submission to Mountbatten MP Lim Slow Chuan at the edd of the munth. A full conservation report is due to be ready later this year.

As part of the Government's rejuconstimulation of againg Housing Board estates, the 17 rental blocks in Dakore Coescent will have to go. and insidents must be very live end

Residents can rent flats at nearby those eligible who choose to buy a The estate have entirty of two- new fis- absorbing competance ora-

for future rescilential decelorment.

Mr Poh, 36, who started the Save unique estate. You don't see such open space arenderetural plans else in Ouecustown. the store has aic alleaf three design to keep Tarkets Consumit's distins-

The vocated site will be reserved. Targe courtvards and an acisoagu."

the Burish-built and now-raged Dikota Criscont campaign in 2014. him is, that used on so and in \$1. were despined for heter centries field the Strains Times. This is a Michael's estate in Whampon and from with a nine yord between hold in each, obsite garage safeti. the Princess and Orchess estates wings. the flats were built by the MND to ask the Government to

comins and walk along their corri- resson the HDE, in 1960.

Tope forement, like an elimin blacks - does Mr Poh said the two Dikoto - Mr Lim, and MP, has mor rest Blocks to and 20 are similar to ples of such architecture hore.

Meanwhile, the burterily blocks times since last October. Singapore Improvement Trust consider conserving parts of Dakoheel (dors) to and 20, which log - whose in Simpopose, Our plan sums - The blocks restrict according to the Coll. in cost and handled to do so as

Coordina like leaves the last mann-shorts and the architects to discuss the expression of the concretions



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新闻 07.

WATCH

THEVIDEO

Residents of

Consciou Conscient share their

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15:11:2016 星期二 Tuesday 农历丙申年十月十六

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年证据领师为授款达哥只容组厚。 跨进公司业务工个月、整理/054页建设 书、希腊保留这个规则符色的地理区

38岁建筑师师起福是"拯救运筹打 等" (Save Davina Grasnant) 的发起 人, 是住在运时打弯已有四年。

他与加外四名建筑师。一同组队数 力保留法學打奪組圖、并包並的提為此 该里。即时政治重新思考发展达哥打容

個牌等受访时表示。他于2012年数 到达可打电水五生量区后。统深辉被这 型的建筑物和人文风景较引。

70 在各重新发展结关打弯老区,这消息 传出、让我告诉责情、所以以欢欢决定

年多的附属进行研究和资料收 篇,并在四个尺内塑理出类于达明打算

54页的建设平标格子四大和点, 达 哥打弯的建筑与人文价值和概义、规保 層达哥打奇这场方的只看与保留建筑的

小術也在十月底至全报告語圖蒙蒙 度說,市区會發展和基定文物商的官

俱胜路坦言。大工整理这份报告。 他拒绝了几项公司的工程。



"拯救达别打吗"发起人痛胜略(左二)与小组里成,连接处了未自不同行会许识和 品一同在达哥打奇细测合题。(前: "##34至716" 面值!



传道整认为, 边接保育"共 同情感区"。这话的是第八有其 目记忆。五月共同属怀的地方。

他解释。"共可情感区"或

保留共同情感医,能够让 巨人了解我国的发展业中且认 汉某中的历史渊源,有助于孕育 国人对国家的印度资和是关认

### 回应林谋泉指后人应有机会体验父母足迹 政府对达哥打弯未来发展持开放态度

政府对如何升造出明打写的 本等持升資金投,觀意探行重新 党机动个经界区最不相继议。

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百举手比。目光交给风色基 开系创用划, 红进行, 等研究, 记录达到17的一带的从史。包括 重要展型区地积;消摄这个就里 的礼制。并在日后上被到太海以 9 Bookso MON.

李有艺成员 自然发现年少 党来往如何在保留过去。和政行 现有和本来需求也可能够平衡。

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的居民应该有机会全自体流和跨 被惩罚去违方的条件。

沙国 戊世曾经走过的业态。

化异度舒适未了解寄归数的资 和报告,预建了这个是国族的 逐产,将表皮成一种采用的轮 产、文化和力量。他说:"我们一身流,历史和社会价值。"以来想一家。

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Dakota Crescent's sconic dove playground will be kept. along with its courtyard and six blocks. Keeping the neighbourhood accessible to people from all walks of life. including seniors and lower-income groups, would be key, said architect Jonathan Poh. who started the Save Dakota Crescent campaign. 5T PH010 CING WEE JIN

### Former residents cheer decision to retain parts of Dakota estate

#### Toh Wen Li

The historic Dakota Crescent housing estate may be slated for redevelopment, but its courtyard, playground and six blocks will be kept.

Most of the advocates and former residents The Straits Times spoke to welcomed the announcement by National Development Minister Lawrence Wong yesterday.

There are 17 low-rise blocks in the estate off Old Airport Road.

Architect Jonathan Poh. who started the Save Dakota Crescent campaign in 2014, said he was "encouraged" by the decision to keep the six blocks, even though he and a

group of residents had last year submitted a conservation report to save twice that number.

He hopes they might be used by social enterprises or couples waiting for Build-To-Order flats.

Keeping the neighbourhood accessible to people from all walks of life, including seniors and lower-income groups, would be key, he said.

"I hope Dakota Crescent doesn't become gentrified."

Last year's conservation report had proposed turning the area into a mixed-used complex with residential units for rent food and beverage outlets and offices.

The distinctive architecture of the six blocks is a good sample of the ex-



STRAITS TIMES GRAPHICS

tate's unique features. Blocks 10 and 20 are similar to the British-built blocks that used to be in St Michael's estate in Whampoa, and the Princess and Duchess estates in Ouenstown, Mr Poh Said.

The two slab blocks have alternating balconies and walls along their corridors. They are the last of their kind here, according to him.

In these two blocks, the kitchen faced the corridor, while the bedrooms were on the side of the external facade to receive as much sunlight as possible—like homes in temperate countries. "Those blocks had lots of heat problems," said Mr Poh with achuckle.

Former Dakota Crescent resident

Jeffrey Lin, 45, who grew up in a three-room flat, has fond memories of the "very old-school lifts", which stalled often. He said: "Residents would be happier if they could retain all the buildings, maybe as hostels. They are historical places, and the area is not very big."

Mr Lin, who now lives with his father in a two-room flat at Block 52, Cassia Crescent, home to many former Dakota Crescent residents, added: "In the old houses, the space was bigger. And everyone knew each other, but we still had our privacy."

Retired cleaner Yee Dew Eng. 78, was happy about what would be kept, but mourned the loss of the old flat in Block 30 she called home for nearly four decades.

"These are relics from the past, And the fengshui there was better," she said in Mandarin.

tohwenli@sph.com.sg

# WHY DAKOTA CRESCENT WAS SAVED

- 1. There was political will to conserve
- 2. Large support base from public (collective memory argument)
- 3. Government agency's willingness to make this a success story in ground up initiatives towards conservation
- 4. Luxury of time due to non-existence of concrete plans for its future and also due to land ownership by government.

But even though we achieved a desirable end result, the road to conserve is long, risky ad without certainty due to a lack of a framework or guide to what the ground should do or anticipate.

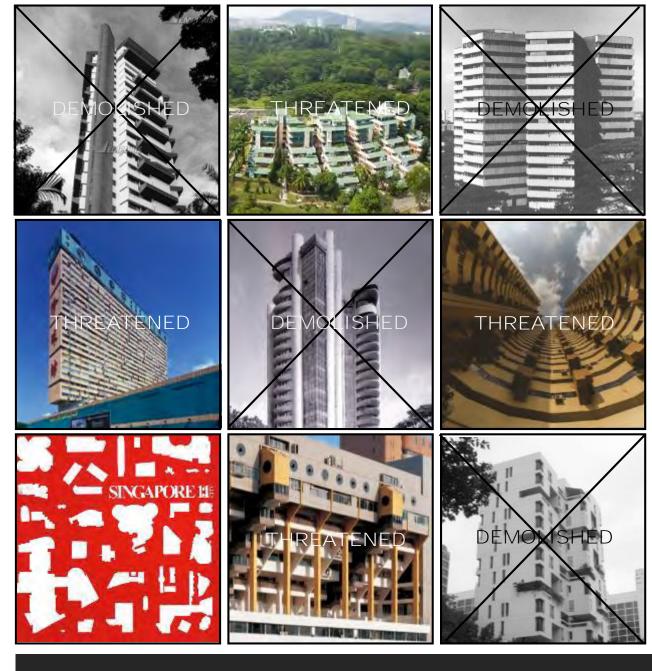


# CASE STUDY 2: **PEARL BANK APARTMENTS**

# SINGAPOREAN 'ENBLOC FEVER' & THE DECIMATION OF MODERN LANDMARKS

An en-bloc or collective sale occurs when where all the units in a strata-titled development are being sold to a developer. Proceeds are divided amongst all the unit owners. The key challenges posed by the 'enbloc fever' and threats to modern landmarks include:

- 1. Uncertainly in criteria for building lease top-up other than demolition-rebuilding-intensification approach, even for buildings of recent past (> 10 years)
- 2. Current land policies unintentionally encourage speculative en-bloc activities and accelerate urban renewal with ever-shortening building cycles
- 3. Legislation discourages communities from taking good care of their buildings, allowing these to deteriorate to a point where demolition becomes seemingly inevitable, way before their original designed lifespan
- 4. Negative perception of deteriorated Modernist structures as not being worthy of conservation



## FRAMING THE ISSUES

- Underappreciation/ lack of awareness of Modernist built heritage
- Vicious cycle of poor estate management practices and enforcement leading to urban blight
- 3. Poor maintenance leading to owners' perception that buildings are no longer liveable and beyond repair
- Land-use laws intended for urban regeneration have side effects of encouraging speculative enbloc agitation
- 5. Perception that rehabilitation and adaptive reuse of high-rise and high-density Modernist structures is unfeasible from financial and technical standpoints

### **ADVOCACY**



CASE FOR MODERN ARCHITECTURE

THE BROAD VIEW

#### Adding value without demolition, rebuilding: Regenerating Singapore's modernist icons

Born of a highly experimental period in Singapore's architectural, urban and political history, Brutalist icons such as Pearl Bank, Golden Mile Complex and People's Park Complex can be creatively conserved and rehabilitated – in ways that benefit all stakeholders – owners, developers, government and society-at-large. By HO WENG HIM AND GRAFT HART

SINGAPORES modernist megastruciums shew besoit wide and mustujustifully apparent in the certain and astempted collective sale of Pearl Bank Agoromens, Teople's Bank Complex and Golden Mile Complex.

Times were all built during the section phases of the government's Sale of Stee. Programme, an injectum mechanism behind Singaporo's uniquely successful drain nervoid People's Park Complex and Golden Mile Complex, we're part of the first sale in 1987, while Peorl Nack Apartments was part of the fluind sale in 1969, conceived by planners and architects at the time as a fields in ser mode off city living.

Barely 96 years on, we are now looking at the likely dermoe and permantent erasure of these moderniss landmarks from Singapore's built environment.

Since the news of the sales surfaced.



professi structures – a start ways of exectionality architecture, especially of the 1752s and 1960s, that is a haracterised by the use of sites and contrate in massive blocks – are expendited by the other park from the little and contrate in massive blocks – are expendited by the other. Park from the little and designed before particle by

It is not obvious to many that Singapore hoasts an exemplary modernial landscape. The city, state achieve, a highly successful public housing programme when mothers have failed. To date, more than 80 percent of the population resides in high-rise public housing estates. It musting and Development Boosting estates in Housing and Development Boosting (HDB). HDB new tow hear striking resemblance to Le Corbusier's 1923 plan for A Contemporary City of Three Million.

the control of the co

What we are building on this site is not something this year or this decade, but for nosterity!

Not, "spoterity," turned out to be startlingly short for the monument of modern Stappene, furely 30 years after the stadium's opening, on 15 February 2008, James for its demultion were amounteed." The amountement came as a surprise, the building being well used and in public Works Department, and realised by lead builded the socialist monument was found tacking in everposets. Public Works Department, and realised restaurants. The Stappere Sports Commel deemed redunding more workshop to the magnetic publication of internal surprise workshop the magnetic publication of internal in the controlled that the surprise of the surprise of the surprise workshop to the magnetic publication of internal surprise workshop the magnetic publication of internal surprise and workshop to the magnetic publication and a surprise and workshop to the magnetic publication and an account of the workshop to the surprise and the surprise and the surprise and workshop to the surprise and the surprise an

he National Stadium was not the first modern icon los

#### Before It All Goes: Architecture From Singapore's Early Independence Years

Frenkestural photographor Derron Son has opened a solo collibrion documenting dight stass in Singaporonitatizne on the verge ordemals on – or aready razes. What might we lose it they all got



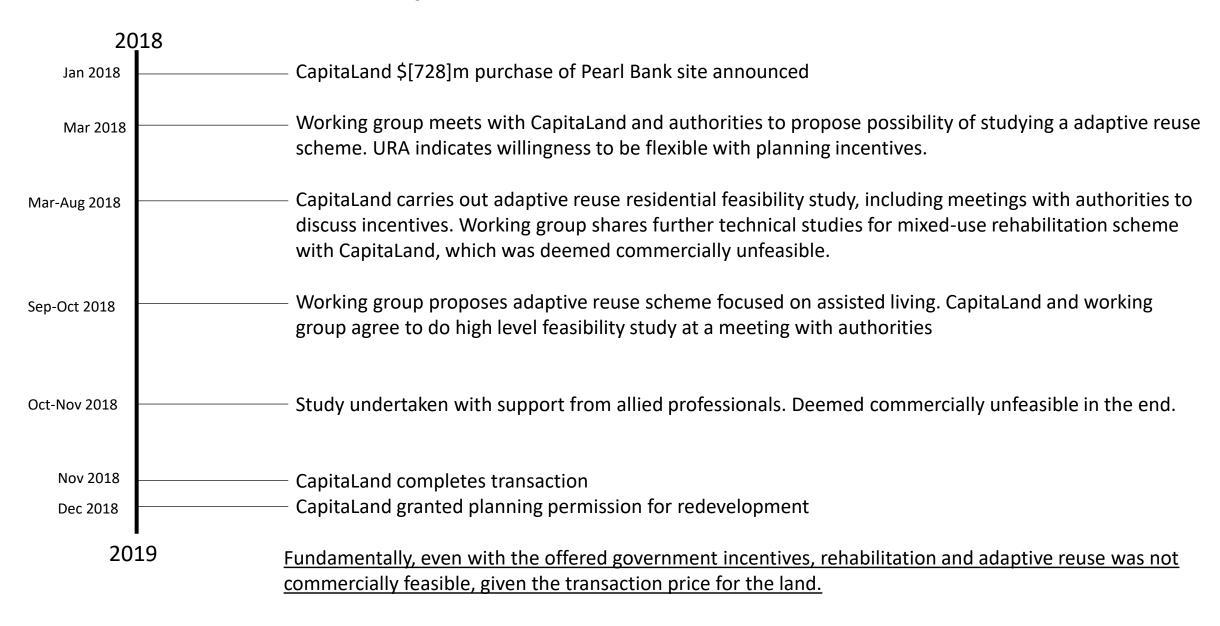


Singaporean Architects Start Petition to Conserve Golden Mile & People's Park Complex



Top Image Credit: Urban Redevelopment Authority

## Pearl Bank - Summary of Events



# OUR CASE TO CONSERVE PEARL BANK APARTMENTS



### PEARL BANK APARTMENTS, SINGAPORE

- Groundbreaking prototype marrying extreme urban intensification and high quality living spaces
- Masterstroke encompasses multi-faceted design thinking from spatial planning, construction, to engineering solutions
- Innovative "broken cylinder" form creates elegant proportions, captures breeze, maximizes views while retaining privacy
- Interlocking split-level maisonette design offers rich and layered spatial experience, defines spaces without using walls

3/21/201

Pearl Bank Apartments likely to be demolished despite calls to conserve building, Housing News & Top Stories - The Straits Times

#### THE STRAITS TIMES

Pearl Bank Apartments likely to be demolished despite calls to conserve building







# REHABILITATION - REVALUATION - REJUVENATION: NEW SOCIO-ECONOMIC VALUE

Presents opportunities to address pressing issues faced by Singapore:

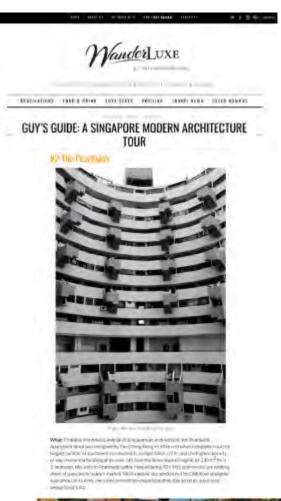
- Ageing population
- Millennials getting priced out of property ladder
- Lack of affordable rents to support local SMEs

#### Possible new use mixes include:

- Integrated assisted living
- Co-living for millennial generation
- Creative havens for SMEs and co-working spaces
- Luxe residences

# ASSISTED LIVING INTEGRATED INTO A REHABILITATED PEARL BANK WITH A MIX OF USES

- Fostering new communities drawn by a curated programme clustering:
  - Residential mix with focus on assisted living, complemented by co-working/ Intensified podium and lower floors for daycare/ rehab/ childcare amenities and commercial/ F&B
  - L27 Sky Deck & F&B
  - Top stack to become luxe apartments
- A scheme that aspires to allow this heritage building to be accessible and used by a broad segment of society:
  - Seniors
  - Families
  - Young professionals
  - Millennials
  - Tourists & local public
- Pioneering innovative solutions in integration of senior living into the urban everyday - physical spaces, programming, technology, services
- A scheme that creates a physical landmark for tourists and locals alike: unique architecture and elevated location marks gateway to the Pearl's Hill – Kreta Ayer – Keong Saik precinct







trendy option for our seniors?







### CENTREPOINT, LONDON

West End, London UK Completed in 1966 Listed in 1995 Relaunched in 2017





# THE MURRAY, HONG KONG

Central, Hong Kong SAR Completed in 1969 Listed in 2009 Reopened in 2018



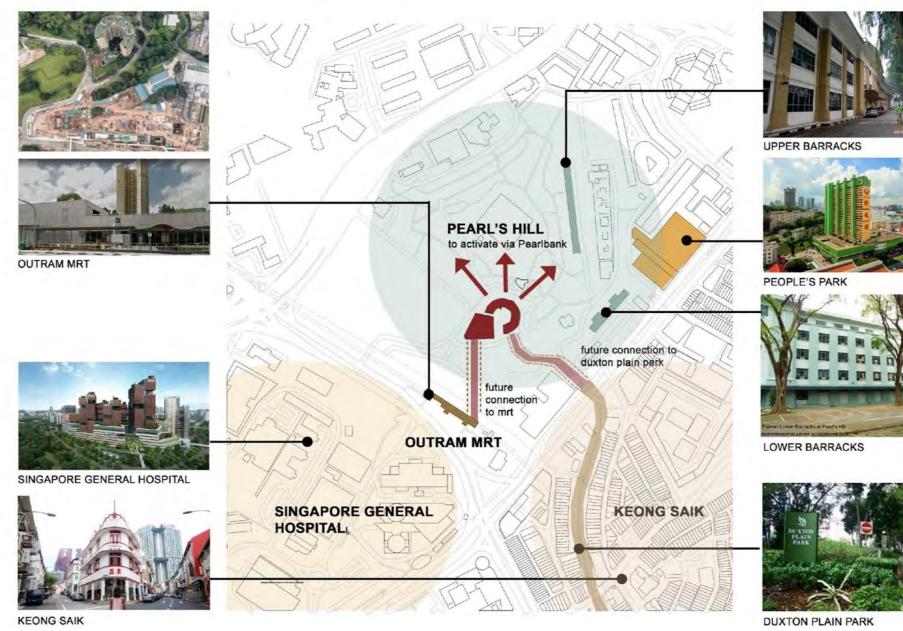




"The new design retains the facade while upgrading other aspects of the building and extending its life by introducing new functions appropriate for the changing demands of the city – giving it a sustainable legacy for years to come."

Foster + Partners

### PEARL'S HILL & OUTRAM PARK PLANNING VISION



#### PLACEMAKING CATALYST

- Transit Oriented Development at Outram Interchange
- Activate Pearls Hill
- Gateway to Chinatown historic district
- Proximity to SGH medical hub
- Catalyst for urban regeneration

## POSSIBLE PLANNING INCENTIVES

- Bonus GFA
- Re-zoning
- Plot ratio Transfer
- Co-develop adjacent White Site
- Private-Public collaboration to establish connectivity through urban design, planning & programming

# FRAMING TABULA RASA REDEVELOPMENT AS A SUSTAINABILITY ISSUE

## MR Credit 1: Building Reuse—Maintain Existing Walls, Floors and Roof

1-5 Points

#### Intent

To extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to materials manufacturing and transport.

#### Requirements

Maintain existing building structure (including structural floor and roof decking) and envelope (the exterior skin and framing, excluding window assemblies and non-structural roofing material). The minimum percentage building reuse for each point threshold is as follows:

<b>Building Reuse</b>	Points
25%	1
33%	2
42%	3
50%	4
75%	5



The Greenest Building is the One Already Built... We cannot build our way to sustainability; we must conserve our way to it.

- Carl Elefante, AIA, LEED AP, article published in Journal of the National Trust for Historic Preservation, 2007

## ESTABLISHING THAT REHABILITATION = PROGRESS

- En bloc trend resulting in ever-shortening cycles of urban redevelopment of <20 years.
- 2. Environmentally unsustainable, disruption in socio-cultural and urban continuity as well as the historical accretion indispensable to a vibrant, liveable city.
- 3. Urgent need to rethink the tabula rasa mode of urban redevelopment, especially for high rise/high density buildings with high embodied energy
- 4. Rehabilitation of these existing buildings as a sustainable, creative development model, especially the "Green Preservation" of historically significant ones

## WHY PEARLBANK WAS NOT SAVED

LACK OF POLITICAL WILL/AWARENESS | FINANCIALS LACK OF TECH INFO | LACK OF TIME

# Lack of Political Will & Awareness

- Fear by sellers of depreciation in valuation due to conservation
  - Conservation is widely frowned upon by sellers as it is believed to devalue their property
- Seller's mentality of Enbloc=Demolish and Rebuild
- Building decay led to negative perception of building
- Fear of upsetting building's potential to sell after gazetting
  - General attitude to not upset seller's interest to sell at a high price due to the enbloc fever affects will to conserve.
  - Gazetting of such buildings are left to market forces
- Lack of clarity in intention to conserve

### Financials

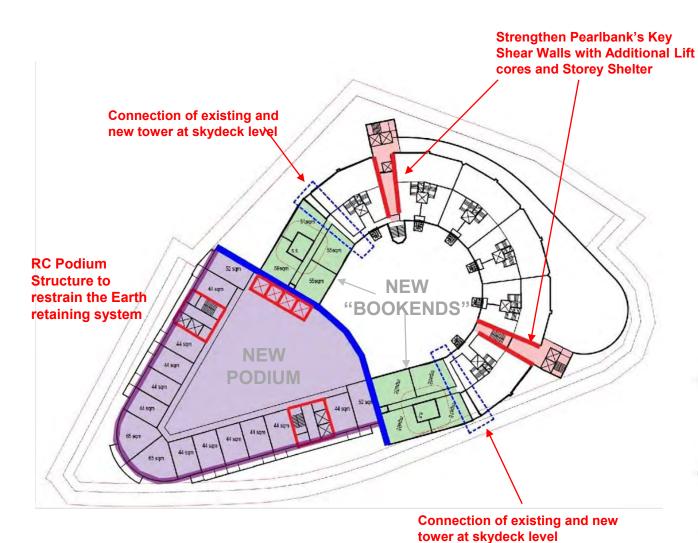
- Price paid
  - At market price, was too high, to justify the perceived increased risk and reduced GDV
- Stamp duty
  - Increase from 3% to [9]% resulted in \$[x]m increase in price
- Bonus GFA
  - [Could be a red herring due to added DC charge]
  - Needs %s higher than offered, [eg >50%]
  - Also creates problem of where to put it on tight sites, leads to limitation on how much bonus is effective, as building upwards/ basement works lead to increased costs
- DC charge on bonus GFA
  - Reduces effectiveness
- Lease top- up
- Change of use
  - Uncertainty of approval of change of use
- Legal structures
  - If asset is purchased in single entity, makes it difficult to split segments into separate entity partnerships to de-risk a complex adaptive reuse mixed use solution
- Financing implications with institutions (in relation to time, etc)

### Lack of Technical Knowledge

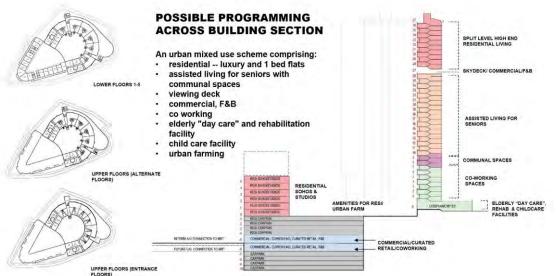
- Lack of information on cost and methodology required to rehabilitate/ upgrade/ adapt existing structures
  - leads to inflated perception of costs
- Inadequate study made on potential A&A interventions
  - Working with existing architecture has potential for achieving much better quality and unique spaces but time needed to come up with innovative solutions (as opposed to cookie-cutter approach)
  - leads to a perceived increased 'design risk'
- Overestimation of timeline due to lack of clarity
  - ie. CapitaLand's estimate of 8 years vs 4 years
- Lack of information on demand for a rehabilitated product
  - leads to reduced pricing assumption
- Lack of ready-made rehabilitation approaches/ solutions
  - leads to increased time and risk of 'reinventing the wheel' eg. decanting of space, how to optimise the low floor to ceiling heights, where to put the additional GFA
- Lack of information on new products and uses
  - no time to study/ understand market demand, pricing, legal structures, execution etc
  - leads to increased risk premium on atypical uses which are often explored in adaptive reuse (since those projects require innovative solutions)
- Overall, the lack of information impacts the model via increased cost assumptions, time, risk premium, while reducing pricing/ GDV leading to project model being commercially not feasible

#### Lack of Time

- Hamstrung by the [4] years limit to get to market and sell the flats/ product
  - leaves no time for exploring other solutions other than the standard one which would be fastest
- Adaptive reuse projects are complex projects
  - Rehabilitation and adapting existing structure requires time to study, analyse, design, obtain authority approvals, and implement
  - Solutions may entail mixed use which involves more stakeholders and require more time to pull together
  - Especially if atypical approaches, designs, uses and products are involved in finding a creative solution for the building (eg. Assisted Living scheme)



**ALTERATION POSSIBILITIES OF EXISTING FLOOR SLAB TO REDUCE UNIT SIZES, CREATE COMMUNAL TERRACES** 1. Sizes for units can be tweaked to suit market demands 2. Uniqueness of the split levels still retained PLAN SHOWING SLABS ON INTERMEDIATE UNIT FLOORS BEING DEMOLISHED TO CREATE PLAN SHOWING SLABS ON ENTRANCE FLOORS CONVERTED TO COVERED TERRACES DOUBLE VOLUMES Part of split units slabs converted to covered communal terrace Part of split units slabs removed to create double volume spaces. 3D SKETCH OF CURRENT BUILDING SLAB CONFIGURATION



3D SKETCH OF POSSIBLE BUILDING SLAB CONFIGURATION SHOWING ALTERATIONS

## ADDRESSING POLICY ISSUES

- 1. Extend the lease top-up scheme to sites without redevelopment plans to arrest urban decay and advance conservation efforts
- 2. Mandating and enforcing preventive maintenance of private properties to prevent premature building decay
- Lowering of percentage approval required for redistribution of strata title ownership shares.
- 4. More planning incentives to facilitate rehabilitation-conservation by developers/ owners.
- 5. Longer timeframe for completion of development applications of private leasehold/strata-titled properties proposing conservation-rehabilitation.
- 6. Introduction of performance-based building codes to facilitate rehabilitation and adaptive reuse of modern megastructures















#### SUMMARY

- 1. Process to conserve endangered buildings could be further refined and expedited. Clarity is required.
- 2. Listing & documentation-promote appreciation through education (eg docomomo Int'l).
- Meaningful rehabilitation in a way that brings positive social-economic change – in the same spirit in which these modernist buildings were realized
- 4. Adaptive reuse of modern buildings as catalyst in precinct planning/rejuvenation
- 5. Introduce bold planning incentives such as plot ratio transfer to encourage conservation, facilitate intensification, and to minimize impact on original urban massing and character of modernist landmarks
- 6. Recognise and normalise conservation and rehabilitation as an alternative environmentally sustainable mode of development





