Financial Advisor for the Development of the West Kowloon Cultural District and Related Matters

Presentation to the Legislative Council



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24 January 2008

G H K

GHK Team

G H K	 Direction and Project Management Institutional Specialists Financial Analysts
Lord Cultural Resources	Museum Specialists
creative thinking positive solutions	Performing Arts Facilities Specialists
BIIghVollerNieldArchitecture	• Architects
ARUP	EngineersPPP Advisor
Knight Frank 卓德·萊坊	Property Consultants
OUANTITY SURVIYORS	Quantity Surveyors



GHK Team















International & Local Experience

Lowry Centre

Singapore Esplanade

Kwai Tsing Theatre

Tamar Exhibition Gallery Guggenheim Museums

Royal Liverpool Philharmonic Hall Wales Millennium Centre

Opera Australia

Royal Opera House Redevelopment

Royal National Theatre, UK

1,600 Museum Assignments in 41 Countries

Centre Pompidou Hong Kong Heritage Museum

Tate Modern

The Edge, Auckland

Oamaru Opera House

Queensland Performing Arts Centre

Brisbane Southbank

San Francisco Museum of Modern Art

Sydney Opera House

Q Theatre Auckland

Brisbane Powerhouse

Temple Bar, Dublin

Arts Council of England

Australian Council for the Arts

G H K

GHK Team















Hong Kong Sector Studies

Cultural Facilities Study: A Study on their Requirements and the Formulation of New Planning Standards and Guidelines, Undertaken by GHK for Planning Department - First identified an arts district at West Kowloon



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Consultancy Study on the Provision of Regional/District Cultural and Performance Facilities in Hong Kong, Undertaken by GHK for Home Affairs Bureau - Reviewed Performing Arts Venues in HK

Consultancy Study on the Mode of Governance of Hong Kong's Public Museums and the Hong Kong Film Archive, Undertaken by Lord Cultural Resources for Home Affairs Bureau - Reviewed Museums in HK



Museum Manual Publications



Background





Recommendations of MAG and PATAG



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Requirements of the IFP and October 2005 Package

Museu	ıms
Advisory	Group

GFA (m²)

Site Area (hectares): 40.09

Performing Arts and Tourism Advisory Group

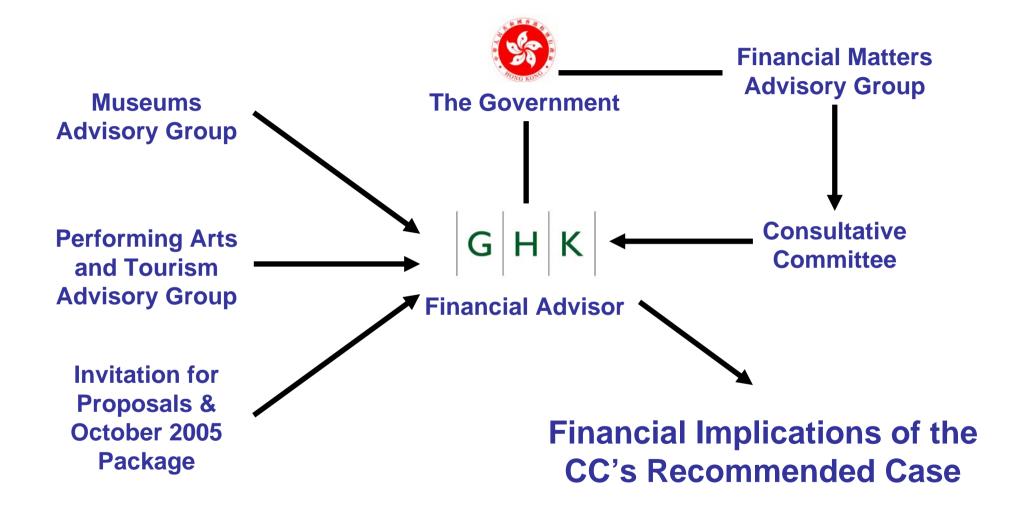
Plot Ratio: 1.81 726,285

Residential Development Cap: 20% 145,257

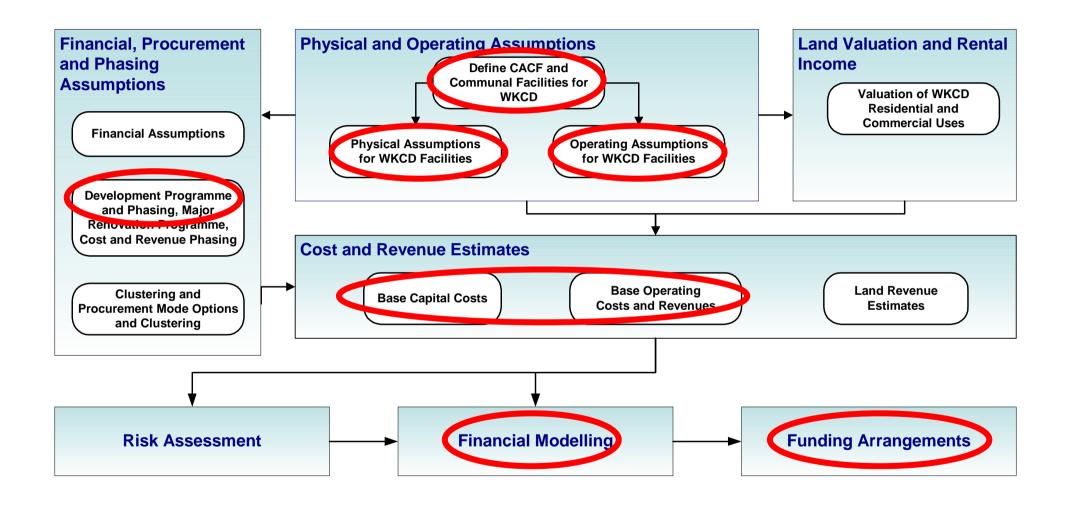
Invitation for Proposals & October 2005 Package

 Maximum building heights ranging from 50mPD to 100mPD – as recommended by Planning Department

Background and Scope



Methodology and Scope



Key Assumptions: Development Mix

	GFA (m²)	% of Total GFA
M+	61,950	8%
Exhibition Centre	12,500	2%
Performing Arts Venues	188,895	26%
Other Arts and Cultural Uses	15,000	2%
Communal Facilities	20,000	3%
Retail, Dining and Entertainment (RDE) Facilities	119,000	16%
Sub-total Cultural and Related Mix	417,345	57%
Residential: Villa Houses and Apartments	145,257	20%
Commercial: Hotels and Offices	163,683	23%
Sub-total Residential and Commercial Mix	308,940	43%
Total	726,285	100%

Key Assumptions: Development Programme

Phase 1	2008	2009	2010	2011	2012	2013	2014	2015	2016	
1. 1 Masterplanning by WKCD Authority										
1. 2 Area and Project Management			Constru	iction Area Mana	agement			Operationa	l Management	
2. 1 M+ (Phase 1)			Design Comp			Construction		Operation		
2. 2 Exhibition Centre					Construc	ction	Operation			
3. 1 Mega Performance Venue				Const	ruction		Operation			
3. 2 Great Theatre 1				Const	ruction		Operation			
3. 3 Concert Hall / Chamber Music Hall			Design Comp			Construction		Operation		
3. 4 Xiqu Centre			Design Comp			Construction		Operation		
3. 5 Medium Sized Theatre 1					Construc	ction	Operation			
3. 6 Medium Sized Theatre 2 and Black Box Theatre 1				Const	ruction		Operation			
3. 7 Black Box Theatres 2 and 3					Construc	ction	Operation			
3. 8 Black Box Theatre 4					Construc	ction	Operation			
4. Other Arts and Cultural Uses					Construc	ction	Operation			
Transport Facilities				Construction		Operation				
6. Communal Facilities				Construction		Operation				
10. 1 Villa Houses			Land Sales							
10. 2 Apartments			Land Sales							
10. 3 Hotels			Land Sales							
10. 4 Retail / Dining / Entertainment						Consruction	Operation			
10. 5 Offices			Land Sales							

Phase 2	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
8. 1 Great Theatre 2 and Medium Sized Theatre 3		C	onstruction		Operation						
8. 2 Medium Sized Theatre 4			Constructi	on	Operation						
9. M+ (Phase 2)								Constructi	on	Operation	



Key Assumptions: Unit Capital Construction Costs for CACF

Assumptions	Unit Cost / sq m				
M+ Phase 1 (On-site)	\$24,200				
PA Venues	\$22,200 - \$29,200				
Black Box Theatres cost less than Medium Theatres					
Highest unit costs for Great Theatres, Concert Hall & Chamber Music Hall					

International References	Unit Cost / sq m	Range of Examples		Range of Comparables
MuseumsBeijing New Capital MuseumNew York MOMA	\$26, 200 \$41,100	\$14,300 - \$41,100	-	\$16,000 - \$27,000
PA VenuesWalt Disney Concert HallThe Sage	\$41,500 \$28,000	\$10,800 - \$41,500		\$24,000 - \$32,000

Local References	Unit Cost / sq m
Grade A Offices	\$11,000 - \$14,000
Prestige Shipping Centres	\$13,000 - \$16,000
5* Luxury Hotels	\$17,000 - \$19,000

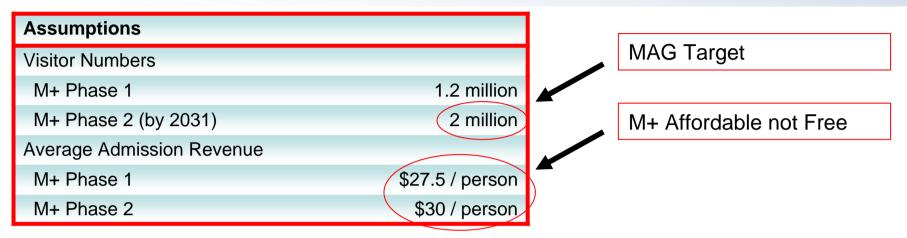
Key Assumptions: M+ Collection and Programming Budget

Assumptions	Cost (\$, million)	
Initial Collection Budget	\$1,000	
Annual Collection Budget	\$20	Focus on emerging artis
Annual Programming Cost Phase 1Phase 2	\$100 \$172	Majority of cost for temporary exhibitions to
		attract repeat visitors

International References

- Very difficult to make comparisons
- Initial Collections built up over long periods
- Donations, Exhibit Loans, Partnership Arrangements Important
- Annual Collection Budget ranges from \$11 million to \$774 million

Key Assumptions: M+ Visitor Numbers and Admission Fee



International References	Annual Admissions (People, million)	Admission Fee (HK\$)
Centre Pompidou	5.5	\$103
Tate Modern	4.0	Free
New York MOMA	2.7	\$156
Guggenheim New York	0.9	\$137
Range from International Examples	0.8 - 5.5	Free - \$156

Local References	Annual Admissions (People, million)	Admission Fee (HK\$)
HK Museum of Art / HK Heritage MuseumPremium for Blockbuster Shows	0.5 / 0.7	\$10 \$10 - \$30
Ocean Park	4.4	\$185



Key Assumptions: PA Venues

Assumptions			
Average Ticket Price			PATAG: Affordable
Great Theatre 1	\$350		
Concert Hall	\$300) —	
Utilisation Rate			PATAG: High Level of Demand
Great Theatre 1	90%		
Concert Hall	82%) -	
Attendance Rate*			PATAG: High Level of Demand
Great Theatre 1	72%		
Concert Hall	67%		
Local References]	
Average Ticket Price		1	
Musicals at LCSD Venues	\$334		
LCSD music performances at HK Cultural Centre	\$297		
Utilisation Rate			
HK Cultural Centre Grand Theatre / Concert Hall	100%		* As measured by Attendance

99%



City Hall Concert Hall

Presentation to the Legislative Council

Number of Seats

Key Assumptions: PA Venues

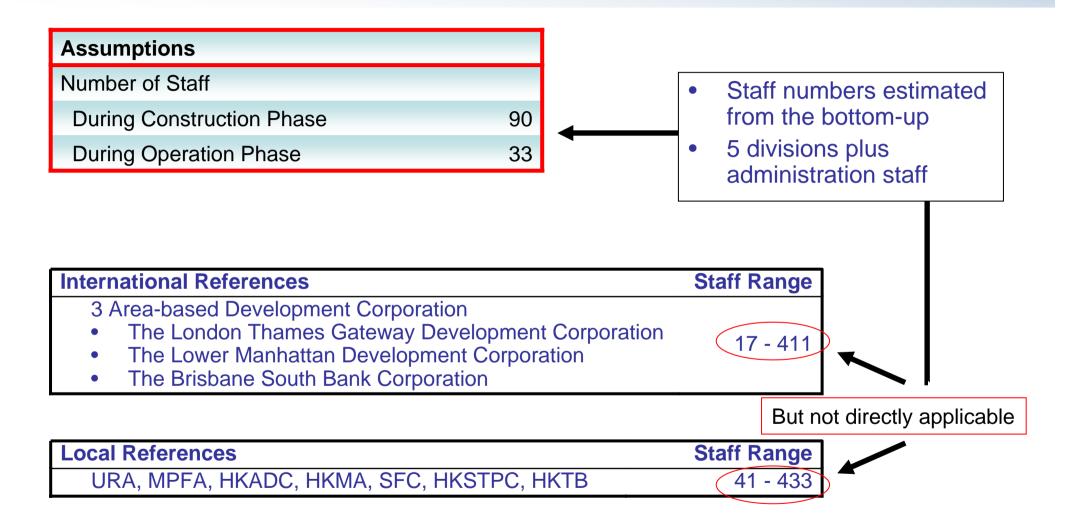
Assumptions	\$ per seat	
Hiring Charges		
Great Theatre 1	\$28	\ 4
Concert Hall	\$23	



Market Price with Reference to LCSD and Private Venues in Hong Kong

Local References	\$ per seat
Theatres	
HK Cultural Centre Grand Theatre	\$20
HKAPA Lyric Theatre	\$28
Concert Halls	
HK Cultural Centre Concert Hall	\$15
HK City Hall Concert Hall	\$17

Key Assumptions: WKCDA Staff Numbers





Key Assumptions: WKCDA Staff Costs

Assumptions	Staff Costs (\$, million p/a)
Staff Costs	
Director	\$3
Average Other Staff	\$1

Local References	Staff Costs
URA, MPFA, HKADC, SFC, HKSTPC, HKTB	
 Director Costs 	\$1.2 - \$3.9 million p/a
 Other Staff Costs 	\$225,000 – 493,000 p/a
Government Staff Costs	
Private Sector Pay Survey	

Key Assumptions: CACF Operating Cost Recovery Rates

Assumptions	Cost Recovery Rate
M+ Phase 1	18%
M+ Phase 2	22%
PA Venues	41% to 149%

International References for M+	Cost Recovery Rate
Centre Pompidou	27%
Tate Galleries	54%
New York MOMA	57%
Guggenheim Museums	66%
Range from International Examples	27% – 66%

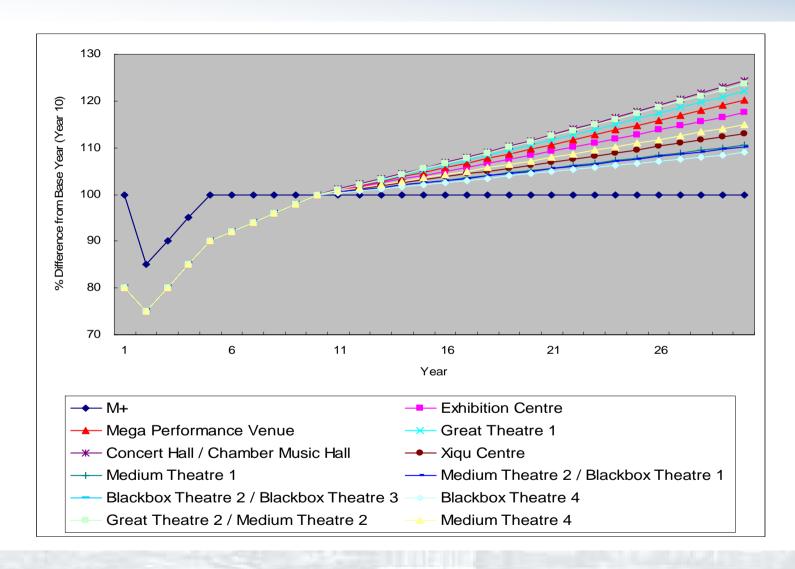
International References for PA Venues	Cost Recovery Rate
Singapore Esplanade	38%
Sydney Opera House	74%
South Bank Centre	43%
Kimmel Centre	93%
Range from International Examples	38% – over 100%

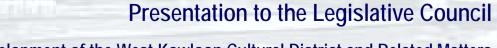
Local References for PA Venues	Cost Recovery Rate*
HK Coliseum	226%
HK Cultural Centre	61%
HK City Hall	56%

^{*} Excludes programming cost

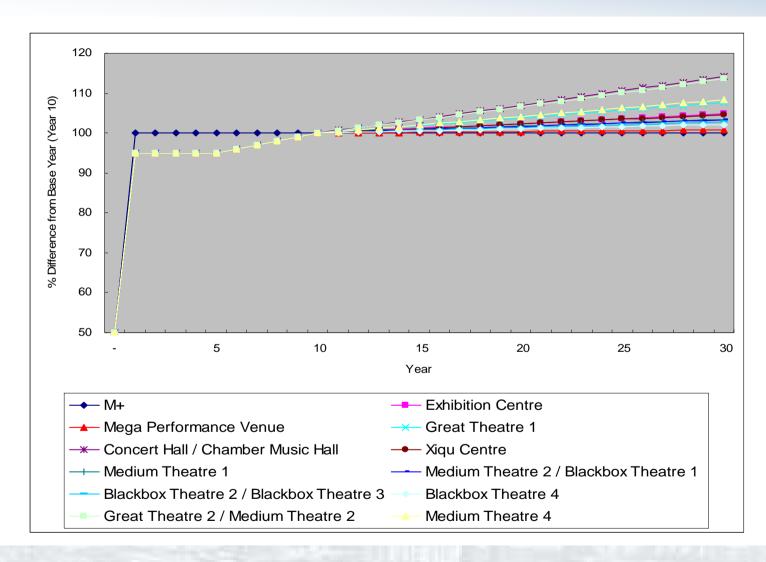


Key Assumptions: Build Up of CACF Operating Revenue





Key Assumptions: Build Up of CACF Operating Cost





Example CACF: M+ (Phase 1), Operating Costs and Revenues

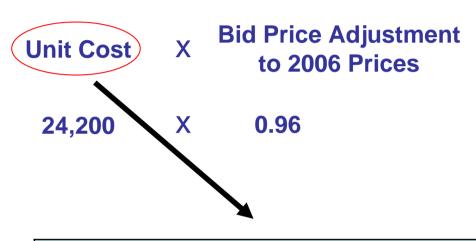
Expenditure	\$ Million (2006 Prices)
Staff	136.2
Administration Overheads	16.3
Building Maintenance	4.2
Cleaning and Security	18.0
Utilities	30.2
Marketing	21.2
Programmes	100.0
Other Expenditure	28.6
Insurance	2.9
Rates and Government Rent	6.4
Total	364.0

Assumptions	
More outsourcing in HK, Similar Staff Structure as LCSD	320 Staff
Scale	43,365 sq m GFA

Revenue	\$ Million (2006 Prices)
Hire Income/ Admissions	34.5
Retail / Catering / Tenant Income	10.6
Programmes	4.0
Fundraising	15.0
Other Income	3.2
Total	67.3



CFA Calculation	
GFA	43,365
GFA to CFA Ratio	1:1.3
CFA	56,375



Unit Cost Item	Unit Cost, \$
Foundation Costs	\$4,200
Building Construction	\$14,200
Fit-out Costs	\$6,000
Total Unit Cost	\$24,200

On-costs =
$$\begin{bmatrix} \text{Consultancy} & \text{Contract} \\ + & \text{Management} \\ \text{Fees} \end{bmatrix} \times \begin{bmatrix} \text{Construction} \\ \text{Costs} \end{bmatrix}$$
On-costs = $\begin{bmatrix} 11\% & + & 9\% \\ \end{bmatrix} \times \begin{bmatrix} 11313 & \text{billion} \\ \end{bmatrix}$

On-costs = \$0.264 billion

On-site

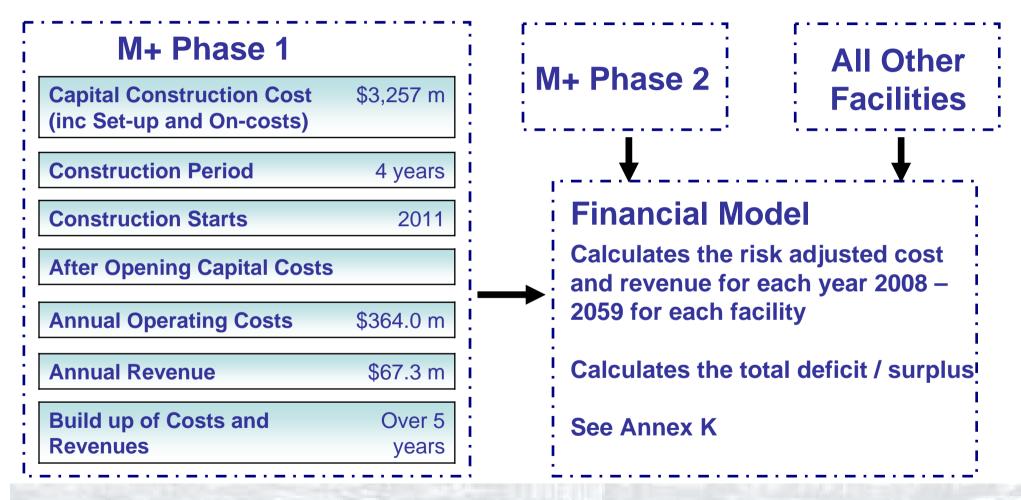
Off-site Storage and Conservation Laboratory

Set-up Cost Item	Cost (\$, million)
Initial Collection	1,000
Exhibition Development	204
Initial Conservation Laboratory Equipment	26
Initial Library Set-up Costs	28
Total Set-up Costs	1,258

Additional Capital Costs After Opening	Cost (\$, million)	Frequency
Ongoing Collection	20	Every year
Periodic Replacement of Laboratory Equipment	13	Every 10 years
Exhibition Development	204	Every 15 years
Major Repair and Overhaul (On-site and Off-site)	770	Every 20 years

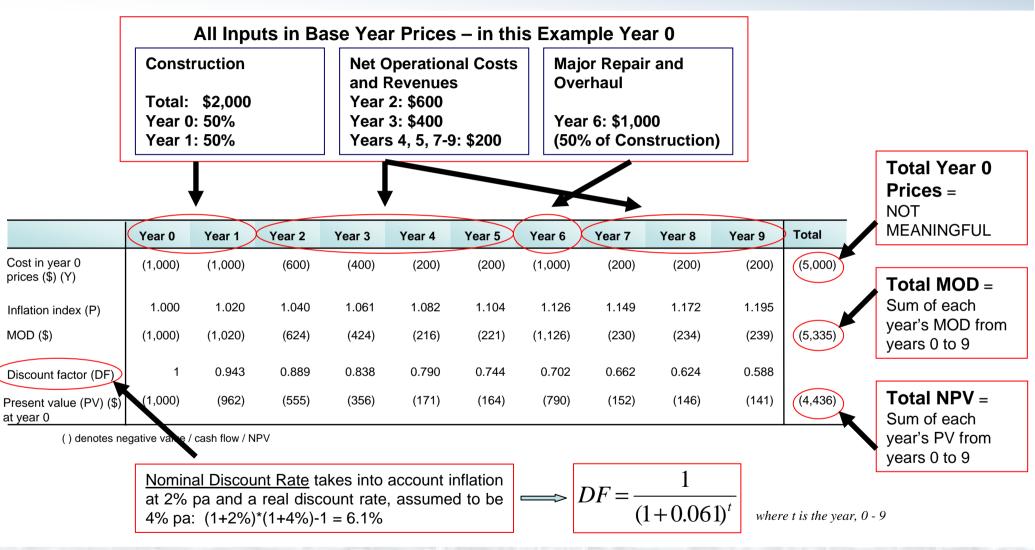
Example CACF: Why the Need for Financial Modelling?

Costs and Revenues are incurred in different years



G H K

A Simplified Example: Calculating MOD and NPV





Executive Summary

Financial Analysis: Results Summary

NPV, 2	2008	prices,	HK\$,	millions
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PHAS	E 1	Capital	Operations	
1	Management and Masterplanning	(1,264)	(1,015)	
2	Museum and Exhibition Space	(4,801)	(5,011)	
	2.1 M+	(4,266)	(5,292)	
	2.2 Exhibition Centre	(535)	281	
3	Performing Arts Facilities	(8,560)	(128)	
	3.1 Mega Performance Venue	(2,706)	1,014	
	3.2 Great Theatre 1	(1,220)	(5)	
	3.3 Concert Hall and Chamber Music Hall	(1,421)	(307)	
	3.4 Xiqu Centre	(1,174)	(213)	
	3.5 Medium Theatre 1	(515)	(159)	
	3.6 Medium Theatre 2 and Black Box Theatre 1	(699)	(213)	
	3.7 Black Box Theatres 2 and 3	(320)	(140)	
	3.8 Black Box Theatre 4	(195)	(104)	
	3.9 Piazzas	(310)	-	
4	Other Arts and Cultural Uses	(331)	-	
5	Transport Facilities	(1,049)	179	
6	Communal Facilities	(1,027)	(537)	
	Sub-total	(17,032)	(6,512)	
PHASE 2				
8	Performing Arts Facilities (Phase 2)	(1,290)	(446)	
	8.1 Great Theatre 2 and Medium Theatre 3	(986)	(318)	
	8.2 Medium Theatre 4	(303)	(128)	
9	M+ (Phase 2)	(483)	(625)	
	Sub-total Sub-total	(1,773)	(1,070)	
TOTA	L	(18,804)	(7,582)	

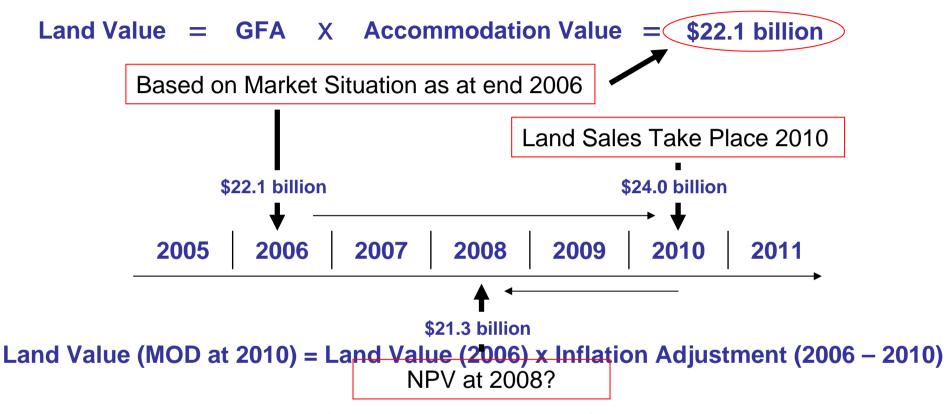
Financial Analysis: Land Valuation

Land Value = GFA X Accommodation Value = \$22.1 billion

Land Use	GFA (sq m)	Accommodation Value (HK\$ / sq m)	Land Value (HK\$, million)
Residential	145,257	n/a	18,131
Villa Houses	10,000	190,000	1,900
Apartments	135,257	120,000	16,231
Hotels	56,000	20,179	1,130
Offices	107,683	26,652	2,870
Total	308,940	n/a	22,131

Local References	s Accommodatio	n Value HK\$ / sq m
Villa Houses	Mount Beacon	\$241,000
Apartments	Broadcast Drive	\$106,000
Hotels	Novotel Citigate / Novotel Century Harbourview	\$26,000 / \$51,000
Office	Reference made to ICC Rentals	

Financial Analysis: Land Valuation



Land Value (MOD at 2010) = \$22.1 billion x $(1.02)^4$ = \$24.0 billion Land Value (NPV at 2008) = Land Value (2010) x Discount Factor (2010 – 2008)

Land Value (NPV at 2008) = $$24.0 \text{ billion } \times 1/(1.061)^2 = 21.3 billion

G H K

Revenue from Retail, Dining and Entertainment (RDE)

Assumptions	
Net Revenue	\$30 psf/ month
Net Revenue	\$3,875 sq m/ year
GFA	119,000 /sq m
Annual Rental Income	\$461 million
Car Park Spaces	397
Car Park Space Rent	\$2,500/ month
Annual Car Park Space Income	\$12 million
Total Annual Revenue	\$473 million
Revenue from RDE over Project Period	\$8.4 billion (NPV at 2008)

RDE scattered in the WKCD site and integrated with CACF

Local References

Prime and Secondary Shopping Malls

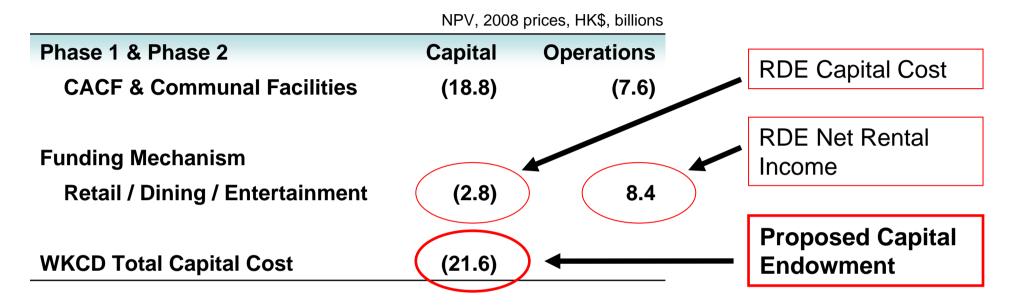
Langham Place, IFC, Elements, Plaza Hollywood, Olympian City

Soho RDE

\$50 - \$80 psf / month



Financial Analysis: Funding Mechanism



- RDE is vested to the WKCDA and the WKCDA pays for its development
- Operating costs to be covered by rental income from RDE
- Capital endowment approximately equal to value of land sales but the two are de-linked in the CC recommended funding mechanism
- Capital costs to be covered by up-front endowment



Thank You

Fiona Waters

Director

GHK (Hong Kong) Ltd

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