### 立法會 Legislative Council

LC Paper No. CB(2)2530/10-11(04)

Ref: CB2/PS/2/08

## Joint Subcommittee to Monitor the Implementation of the West Kowloon Cultural District Project

Background brief prepared by the Legislative Council Secretariat for the meeting on 26 August 2011

Financial arrangements for the West Kowloon Cultural District project

#### **Purpose**

This paper provides background information on the financial arrangements for the development of the West Kowloon Cultural District ("WKCD"), and highlights the concerns of members of the Joint Subcommittee to Monitor the Implementation of the West Kowloon Cultural District Project ("the Joint Subcommittee").

#### **Background**

#### Financial approach to WKCD

2. In September 2003, the Government launched an "Invitation for Proposals" ("IFP"), which aimed at generating market-driven private sector financing to take forward the WKCD project. However, owing to diverse views on different aspects of IFP, the Government decided to discontinue the IFP process in February 2006. The Chief Executive subsequently appointed the Consultative Committee on the Core Arts and Cultural Facilities of the West Kowloon Cultural District ("the Consultative Committee") in April 2006 to re-examine the need of the Core Arts and Cultural Facilities ("CACF") for WKCD and the financial implications of developing and operating these facilities. In its Recommendation Report issued in September 2007, the Consultative Committee recommended that CACF would comprise a total of 15 performing arts venues (12 venues for Phase I and three for Phase II), a museum-type cultural institution called M+, an Exhibition Centre and Piazza Areas, as shown in **Appendix I**.

- 3. The Consultative Committee also considered that none of the CACF would be able to recover the costs of operation and maintenance as well as the capital costs, and recommended the following financial approach to WKCD -
  - (a) financing the capital costs of the WKCD project through an upfront endowment appropriated by the Legislative Council ("LegCo") roughly equivalent to the estimated land revenue from the residential, hotel and office part of the commercial sites within WKCD; and
  - (b) vesting the retail/dining/entertainment ("RDE") part of the commercial sites in the West Kowloon Cultural District Authority ("WKCDA") to provide a steady source of recurrent income through rental proceeds to meet the operating deficits of CACF.
- 4. Taking into account the public views received during the public engagement exercise conducted from September to December 2007, the Government adopted the recommendations of the Consultative Committee and would provide WKCDA with an one-off upfront endowment of \$21.6 billion as a long-term commitment to the WKCD development, while the site for residential, hotel and office within WKCD would be disposed of separately by the Government through the normal land disposal mechanism at suitable timing in future. The upfront endowment would cover the capital costs of the components of the WKCD project in **Appendix II**. WKCDA would be required to manage the upfront endowment (including investment of funds) to ensure that there would be sufficient funds to cover the cash flow requirements of the capital costs of the WKCD project.

#### Monitoring by previous LegCo

- 5. In view of the Administration's plan to put up a funding proposal to LegCo's Finance Committee ("FC") in mid-2008 for an upfront endowment of \$21.6 billion to be given to WKCDA upon its establishment, the Subcommittee on West Kowloon Cultural District Development ("the Subcommittee") established under the House Committee in the Third LegCo sought the approval of The Legislative Council Commission for the appointment of Versitech Limited (a wholly-owned subsidiary of the University of Hong Kong) as the Specialist Advisor to assist the Subcommittee in examining the financial aspects of the WKCD project.
- 6. In its Final Report submitted to the Subcommittee in May 2008, the Special Advisor raised a series of questions about the Administration's financial study on the WKCD project, including the estimated escalation of the

construction costs in the short term, level of rental income from RDE facilities, investment return, sustainability of the project after 50 years, the use of "design and build" approach and the mode of operation of M+. The Administration's response to the Special Advisor's Final Report is in **Appendix III**. In July 2008, FC approved the \$21.6 billion upfront endowment.

7. On 4 March 2011, WKCDA announced the selection of City Park designed by Foster & Partners as the preferred Conceptual Plan Option ("CPO") for WKCD. According to the Administration, based on the preferred CPO, a detailed Development Plan ("DP") is expected to be unveiled for public consultation in late September 2011.

#### Members' concerns

The Joint Subcommittee has not discussed the financial arrangements for the WKCD project per se. Nevertheless, members had raised related concerns at various meetings in the context of discussing the selection of CPOs and the latest development of the WKCD project. Their concerns are highlighted in the ensuing paragraphs.

#### Adequacy of upfront endowment

- 9. Members expressed concern about the adequacy of the approved \$21.6 billion upfront endowment for the entire WKCD project and its financial sustainability, as Mr Ronald Arculli, member of the WKCDA Board and Chairman of the Development Committee under WKCDA, had told the media that the upfront endowment might be insufficient for the entire WKCD development. Some members recalled that Mrs Carrie YAU, former Permanent Secretary for Home Affairs, had assured members that the Administration would not seek additional funding from LegCo for WKCD other than the \$21.6 billion. They asked whether the assurance would still be valid should the phasing of WKCD proceed as planned, and whether WKCDA had any alternative plan if the WKCD project was overspent.
- 10. According to WKCDA, with the surging construction costs in recent years, the \$21.6 billion would definitely be insufficient if the construction of all arts and cultural facilities in WKCD commenced immediately. However, during Stage 1 Public Engagement exercise from October 2009 to January 2010, the public had expressed support for such facilities to be developed in phases. The WKCD development should also be flexible to accommodate the possible changing needs and expectations of the stakeholders and society. As the preferred CPO would be further developed into a DP for submission to and

approval by the Town Planning Board, it was difficult to arrive at an accurate cost estimate for the entire WKCD project and assess whether the project would be overspent at the current stage. WKCDA assured members that it would closely monitor the changes in the development cost and formulate appropriate financial arrangements for WKCD based on the finalized DP, the pace of development of CACF, fluctuation in construction prices and inflation, etc. It would also endeavour to contain the total capital costs within the \$21.6 billion, and had no plan to seek additional funding from LegCo.

#### Transparency of cost estimates

11. Members raised grave concern about the lack of information on the financial implications of the preferred CPO and expressed worry that WKCD would become a white elephant. In view of the public's concern over the possible cost overrun of the WKCD project, they called on the Administration/WKCDA to enhance the transparency of the cost estimates of the project and particularly the financial arrangements for the arts and cultural facilities in each phase of WKCD as soon as possible.

#### **Relevant papers**

12. A list of the relevant papers with their hyperlinks on LegCo's website is in **Appendix IV**.

Council Business Division 2 <u>Legislative Council Secretariat</u> 24 August 2011

## West Kowloon Cultural District Details of the Core Arts and Cultural Facilities

#### (A) Performing Arts Venues:

Category (Phase I)	Seating Capacity	Main Purposes
Mega Performance Venue	15 000 (max.)	Mega events, large scale entertainment shows, pop concerts
A Great Theatre		Suitable for long-run overseas productions, as well as Chinese and Western opera, drama, ballet, modern dance, musical, children's performances etc.
Two Medium-sized Theatres		Drama, musical, dance, suitable for local productions
Four Blackbox Theatres		Experimental/avant-garde performances, budding artists' production, comedy shows, children shows etc.
A Concert Hall	2 000 (max.)	Orchestral music
A Chamber Music Hall	800 (max.)	Chamber music, jazz, piano or violin recital etc.
A Xiqu Centre (performance venue) (small theatre)	1 400 (max.)	Cantonese opera, other forms of Chinese opera and musical performances
Piazza Areas	at least 30 000 m <sup>2</sup>	Mega outdoor events, circus, commercial events, concerts
Category (Phase II)	Seating Capacity	Main Purposes
<ul><li>A Great Theatre</li><li>Two Medium- sized Theatres</li></ul>	1 900 (max.) 800 each (Total:1 600) (max.)	

#### (B) Museum Facilities and Exhibition Centre:

Category	Area	Concept
• A cultural institution with museum functions (temporarily called M+, or Museum Plus) on visual culture of the 20 <sup>th</sup> to 21 <sup>st</sup> century	(GFA) – 78 750 m <sup>2</sup> comprising	
<ul> <li>The initial broad groupings include</li> <li>Design</li> <li>Moving image</li> <li>Popular culture</li> <li>Visual art (cover ink art)</li> </ul> An Exhibition Centre	Net Operating Floor	A self-financed venue with
	Area (NOFA) – 10 000 m <sup>2</sup> equivalent to a GFA of 12,500 m <sup>2</sup> , using a 1:1.25 NOFA/GFA conversion ratio	focus on arts, culture, creative industries and WKCD-related activities

Source: Enclosure 1 to LC Paper No. PWSC(2008-09)31 issued on 18 June 2008

## Capital Cost of Component Parts of the West Kowloon Cultural District Project

The \$21.6 billion one-off upfront endowment to the WKCDA would cover the capital costs of the following component parts of the WKCD project –

- (a) planning, design and construction of the following facilities
  - (i) CACF which comprise 15 performing arts venues to be developed in two phases (12 venues for Phase I and three venues for Phase II), a cultural institution with museum functions temporarily called **M**+ (or Museum Plus)<sup>1</sup>, focusing on 20<sup>th</sup> to 21<sup>st</sup> century visual culture, an Exhibition Centre with focus on arts and culture and creative industries, and three ha of piazza areas for outdoor performances;
  - (ii) other arts and cultural facilities (OACF) which include accommodation space for conferences/events, etc., offices and ancillary facilities for arts and cultural organizations/groups, arts and cultural information centre, as well as the WKCDA;
  - (iii) retail, dining and entertainment (RDE) facilities;
  - (iv) transport facilities which include an automated people mover ("APM") system (or other passenger transportation system) and public car parking facilities;
  - (v) 23 ha public open space including three ha of piazza areas:
- (b) major repair and renovation of the facilities mentioned in (a). These cover periodic major repair and renovation of the facilities mentioned in (a) above at different intervals over the 50-year project period;
- (c) collection, exhibition development, conservation laboratory equipment and library setup for the **M**+,

The **M**+ includes the construction and related land acquisition for off-site conservation laboratory and storage facilities.

#### which cover –

- (i) initial acquisition of collection and annual collection thereafter;
- (ii) periodic fabrication of the exhibition galleries of the M+;
- (iii) acquisition of conservation laboratory equipment and library setup costs;
- (d) planning of the WKCD and project management which include the following areas
  - (i) preparation of a development plan for the whole WKCD site. The costs include mainly consultancy, technical studies, public consultations and related expenses; and
  - (ii) project management during the planning and construction stage of Phase I (estimated to be seven years from 2008/9 to 2014/15).

The other communal and government facilities and related engineering works, such as roads, drainage, fire station, public pier, etc. which are designed to support the whole WKCD (including residential, commercial and hotel developments) will be undertaken by the Government.

Source: Extract from LC Paper No. PWSC(2008-09)31 issued on 18 June 2008.

# Final Report of the Specialist Advisor Versitech Ltd. to the Subcommittee on West Kowloon Cultural District (WKCD) Development for the Study on the Financial Aspects of the WKCD Project for the Legislative Council Commission — Responses from the Government Economist

The Final Report provided by Versitech Ltd. ("the Report") made various comments on the Economic Impact Assessment ("EIA") prepared by the Economic Analysis and Business Facilitation Unit (Section 9 as well as various other paragraphs of the Final Report). Responses from the Government Economist are set out below:

#### Methodology of estimation (cf. section 9.1, p.41 of the Final Report)

- 2. The Specialist Advisor suggested that the EIA "must also examine the benefits derived from the alternative uses of the land (i.e. opportunity cost) at the WKCD". We wish to clarify that the EIA is intended to evaluate the intangible and tangible economic impact brought about by the project on the economy as a whole, which is different from an economic cost-benefit analysis of WKCD as a standalone project. As shown in our EIA report, the development of the West Kowloon Cultural District (WKCD) is expected to bring about not only significant tangible economic impacts to Hong Kong, in terms of value added contributions and employment creation, but also intangible economic impact, as the project serves as an important strategic investment in Hong Kong's arts and cultural infrastructure that would promote arts and cultural activities and enhance Hong Kong's status as an international city.
- 3. From a planning and development perspective, the Government takes into account a wide range of factors, including social aspirations of the community, the holistic developmental needs of Hong Kong, and the spatial distribution of various public facilities such as police stations, schools, parks, etc. As reflected in the public engagement exercise for the WKCD project, the Government received an overwhelming support for the overall vision and strong support for early implementation of the WKCD. Against this backdrop of clear community's aspiration, it is not meaningful to undertake an assessment of an alternative land use option for the WKCD site. Indeed, it would be wrong to evaluate the cost-benefit of WKCD, (or for that matter other public facilities such as a sports complex or a

university), by evaluating the value of alternative uses of the site.

Besides, the Specialist Advisor cast doubt about the scientific basis of the estimated attendance used in both the Financial Advisor (FA)'s assessment and the EIA. As we have explained to the Specialist Advisor, the total attendance deployed in the FA's assessment was compiled on a set of planning parameters, taking into account the objective of developing world-class arts and cultural facilities in the WKCD, local attendance experiences of various facilities in the past from LCSD, and the experiences of various international renowned facilities. All parameters adopted in the assessments are objective and prudent, and went though careful deliberations. In any case, projections about future attendance are NOT an important element in determining the financial viability of WKCD as a whole. Actual attendance in the future will also depend very much on how the future WKCD facilities are managed.

#### Interpretation of the impact (cf. section 9.2, p.41-42 of the Final Report)

5. The Specialist Advisor opined that "a unique feature that differentiates a 'world-class cultural and arts district' from a pure property development is its benefits to tourism". We have reservations about this opinion. The scope of developing WKCD is far wider than a pure tourism project, as highlighted in the various tangible and intangible benefits mentioned in the EIA report.

#### Performance indicators (cf. section 9.3, p.42 of the Final Report)

6. As explained above, the EIA intends to assess the potential macroeconomic impact of the project on the economy as a whole. It is not a suitable process used to identify and devise performance indicators on the operational front. The mode of operation of the proposed WKCD Authority will by and large hinge on the respective legislation which governs the overall institutional design of the Authority. The future Management of WKCD should also be given the responsibility to agree with the relevant authorities what performance indicators should be used.

## The 2% inflation assumption over a 50-year time horizon (cf. pp.15-17, 19 and 35 of the Final Report)

7. The Specialist Advisor questioned in various parts of the Final Report whether the 2% long-term inflation rate assumption is realistic. It should be noted that inflation assumptions for a 50-year period are subject to much uncertainty. As

an advance economy and under a currency board system with the Hong Kong dollar linked to the US dollar, Hong Kong's inflation over the longer run would be more or less in line with those experienced by economies at a similar stage of development. The implicit or explicit inflation targets set by most major central banks in the advance economies are around 2%. Thus, a long-term inflation rate assumption of 2% is considered acceptable.

8. In any case, the results of the financial analysis done by the financial consultants are not sensitive to inflation assumptions, as both revenues and costs would broadly increase along with the general inflation rate over time. Indeed, the Specialist Advisor also realizes this point, as given in the third paragraph on p.17 of the Final Report, "... instead of inflating prices at 2% per annum, and subsequently discounting them ..., it would be much simpler to use the real rate of interest of 4% per annum to discount future prices".

Economic Analysis and Business Facilitation Unit Financial Secretary's Office 28 May 2008

#### Subcommittee on West Kowloon Cultural District Development

## Questions raised and information requested by Members at the meeting on 30 May 2008

The Administration's response to questions raised and information requested by Members at the meeting on 30 May 2008 is set out below -

1. How could the Administration assure Members that the West Kowloon Cultural District (WKCD) project would not end up as a failure? Could the Administration figure out the "worst scenario" of the WKCD project and provide an estimate on any supplementary funding provision required in such a scenario?

- The financing arrangement as proposed by the Government has taken into account the recommendations of the Consultative Committee on the Core Arts and Cultural Facilities of the West Kowloon Cultural District (Consultative Committee) as well as the detailed financial assessment made by the Financial Advisor (FA) on the development and operation of the West Kowloon Cultural District (WKCD).
- The financial assessment has undergone a professional and stringent process. The assessment and its revisions which took 15 months to complete, was examined by the Financial Matters Advisory Group (FMAG) led by the Hon Ronald Arculli. The conclusion was that it is a sustainable financing approach to provide a one-off upfront endowment of \$21.6 billion (in 2008 Net Present Value (NPV)) to finance the capital cost and to use the rental proceeds generated from the retail, dining and entertainment (RDE) facilities in the WKCD to meet the operating deficits of the arts and cultural facilities.
- According to the present assessment, we do not think there are sufficient reasons for a "worst scenario" in which any of the proposed venues may not be constructed as planned. If Members insist in figuring out a "worst scenario", and no additional funding is to be provided, we may come up with an assumption whether Phase II of the project would be delayed

until after 2026-31 because of cash flow difficulties i.e. the 1,900-seat great theatre and the two 800-seat theatres had to be built at a later stage and the expansion of M+ would have to be implemented later.

## 2. The Administration is requested to conduct further analyses on the investment returns and the inflation of construction costs?

- When estimating the capital cost, apart from inflation, consideration have also been given in a prudent manner in respect of the indirect costs and the risk premium so as to provide sufficient leeway to accommodate cost increase due to various factors
- Construction costs of the core arts and cultural facilities included a risk premium of 23% to 29% to guard against price hike due to the risks. The risk premium is conventionally set at 10% to 15%. In view that the need for the construction of the venues and other related works to start as soon as possible and other factors may give rise to construction cost fluctuations exceeding the original estimates, a higher risk premium has been included.
- If we reduce the indirect cost and the risk premium to a maximum of 15%, the one off upfront endowment of \$21.6 billion can accommodate an annual nominal increase of 3.4% in construction cost (an accumulative increase of 31%) between 2007-2014. If we have to support an annual nominal 6% increase in construction cost (an accumulative increase of about 60%) between 2007-14, the one-off upfront endowment has to be increased to \$25.0 billion (the impact of different growth rates of construction cost on the upfront endowment is set out in Annex 1). The latter's assumption of an accumulative increase of about 60% is not realistic.
- Details of the construction cost of the various facilities in WKCD are at Annex 2.

3. As returns from retail, dinning and entertainment facilities make up the lifeline of WKCD, the Administration is requested to provide more details of these facilities such as their layouts, settings, anticipated pedestrian flow, business plans and measures to enhance the viability of these facilities. The Administration should also advise on its plans to strengthen WKCD's connectivity with neighbouring areas.

- In the process of consultation on the WKCD project, the public has expressed the view that they were concerned about the connectivity of the WKCD with its neighbouring areas. The preparation of the development plan (DP) for the WKCD is the foremost task of the West Kowloon Cultural District Authority (WKCDA). The WKCDA and the Planning Department in coordination with the WKCD Office which will be set up soon, will work to ensure early formulation of plans to connect the WKCD and its neighbouring areas.
- Regarding the details of the RDE mentioned by Members, we need to point out that these facilities will take up a gross floor area of about 119,000 sq. m., and according to our present planning, the development and operation of these facilities are not comparable to large scale shopping malls. Instead, the facilities will be scattered throughout the WKCD to integrate with the arts and cultural facilities, so as to create synergy and bring about increase in people flow to keep the district in vibrancy at all times. Thus, the rental level is pitched at a rather conservative level i.e. monthly rental of \$30 per sq. ft. Gross Floor Area (at 2006 prices), which is more conservative when comparing to the rental of other districts in Hong Kong (see Annex 3).
- 4. Will the Administration consider seeking funding approval only for the Phase I development of WKCD at this stage and conduct a thorough review before moving onto Phase II to ascertain whether any adjustment in the scale of the project is required?

#### Administration's response:

- According to the FA's assessment, the recommended one-off upfront endowment and the arrangement to cover operating deficits of arts and cultural facilities by rental proceeds from retail, dining and entertainment facilities would be sufficient for the development and sustainable operation of the facilities in phase I and phase II of WKCD. We have no intention to change the plan.
- The facilities in Phase II are estimated to be completed between 2026-2031, we believe that the WKCDA will certainly conduct a thorough review on the development of WKCD before moving onto Phase II.
- 5. The current estimates are worked out by assuming that the "design and build" approach will be adopted for the arts and cultural facilities. Will the Administration consider adopting other approaches such as drawing up the detailed design first and then tender out the construction works under a separate contract for certain facilities such as the M+ and the major performance venues? What will be the impact on the estimated funding requirement if the latter approach is adopted?

- The WKCDA will look into different modes of Public Private Partnership (PPP) in the development and operation of the arts and cultural facilities with reference to their distinctive features. We would like to point out that the FA has examined the PPP mode in detail in respect of the operation of the arts and cultural facilities with reference to oversea examples. The FA recommended the design and build model, because the private sector does not express much interest in life-cycle public private sector partnership covering construction, operation and maintenance stages in view of the construction and operation risks involved.
- Even if the design and building of the facilities are included in

two independent contracts, the FA's estimated construction costs have already included a considerable amount of indirect costs and risk premium to accommodate increase in costs due to various factors.

## 6. Will the Administration give second thoughts to engaging an international operator to operate M+?

#### Administration's response:

• The proposal of commissioning an international operator to operate M+ was not made by the Consultative Committee. Such arrangement is no different from allowing a foreign institution to have complete control of the operation and curatorial work of M+, and restrict cooperation between M+ and other world-class museums in the future. As such, we do not think that commissioning an international single operator to operate M+ will be supported by the cultural sector. However, upon its establishment, M+ can cooperate with world-class museums in the Mainland or abroad. Moreover, the cost of commissioning an international operator could possibly be higher than expected.

## 7. On what basis does the Administration consider that the provision of \$1,214 million (covering \$1 billion initial collection cost and an annual collection budget of \$20 million) is enough for acquiring collections of world standards?

- Leisure and Cultural Services Department's museums currently possess over 60,000 items of visual culture collection. The collection could not be all displayed due to inadequate venue space. Besides, world famous museums have quite often exhibited their collections in Hong Kong (for example the recent Treasures of the World's Cultures from the British Museum).
- Like other world-class institutions on visual culture around the world, M+ will not establish its own position solely by its

collection. M+ is itself an innovation. Its curatorial concepts are very different from those of the traditional museums. It is a new platform to incorporate many themes. With a forward-looking, flexible and responsive approach, M+ encourages collaboration, interaction and cross-discipline ideas. Community participation is essential to breathing life and energy into M+. It is under an open-ended format that encourages partnership, interaction and cross-fertilisation of ideas—with the general public, sector professionals and experts worldwide.

• Around one-third of the annual estimated expenditure (around \$100 million) of M+ would be used to commission artists for creative art works.

#### 8. Is it possible to further downsize M+?

- The scale of the M+ originally recommended by the Museums Advisory Group (MAG) was bigger than that of some of the world-renowned museums. After consulting the MAG and the Financial Matters Advisory Group, the Consultative Committee decided to reduce the scale of M+ by 30%. It would be necessary to conduct a new round of consultation before a decision can be made to further downsize M+. Nevertheless, Members are advised to note that we adopt a step by step approach in the development of M+, with 70% of the reduced area to be developed in the first phase and the remaining 30% in the second phase. The scale of M+ is still comparable to the scale of world-renowned museums. Further downsizing the M+, however, will hinder the development of M+ into a world-class contemporary cultural and arts institution. M+ will also not be able to realize its vision.
- 9. The Administration is requested to illustrate the ideas/concepts for M+ using concrete local and/or overseas examples. The Administration is also requested to make use of the existing museum facilities and collections on visual culture to

#### demonstrate to the public on what M+ is like?

#### Administration's response:

- The existing museum facilities cannot be compared with M+. Their curatorial concepts and directions are also different from those of M+. The effect will not be good if we make use of these facilities to demonstrate the innovative approach of M+ in the display of visual culture. It may also mislead the public in forming an opinion and impression of M+. Hence, we are not inclined to adopt this approach to illustrate M+.
- We are happy to use concrete examples to illustrate the ideas and concepts for M+, such as using visual representations as far as possible, so that the LegCo and the public will have a better understanding of M+'s future operation.
- The construction costs and operating assumptions of M+ and their comparison with local and overseas museums are set out at Annex 4 for Members' reference.

## 10. The Administration should explain how the costs for major renovation or reconstruction of the aged buildings in WKCD would be financed after 50 years.

#### Administration's response:

• The Government's Financial Adviser used a 50-year period for the assessment of the WKCD. It is even more stringent than that used for the professional assessment of other long-term development projects. In the financial analysis, provision has already been made for regular major overhaul and annual maintenance during the 50-year period. All facilities will be in good condition and fully functional beyond 50 years, requiring no immediate allocation of additional funds for demolition, reconstruction or major renovation beyond that period.

Home Affairs Bureau June 2008

#### Results of Further Sensitivity Tests, in 2008 Net Present Value (NPV)

#### **Assumptions**

i) On-costs: decrease to a maximum of 15% for CACF

ii) Risk assessment: 15% for CACF and 10% for other items

	Total Capital Cost
Construction cost nominal escalation rate:	\$ billion
(a) 6% every year from 2007 to 2014 (8 years) (i.e. a cumulative nominal increase of 59%), thereafter 2% p.a.	25.0
(b) 5% every year from 2007 to 2014 (8 years) (i.e. a cumulative nominal increase of 48%), thereafter 2% p.a.	23.6
(c) 4% every year from 2007 to 2014 (8 years) (i.e. a cumulative nominal increase of 37%), thereafter 2% p.a.	22.3
(d) 3.4% every year from 2007 to 2014 (8 years) (i.e. a cumulative nominal increase of 31%), thereafter 2% p.a.	21.6

#### Note:

The above are merely tests to consider the impact of applying different construction cost escalation rates on the upfront endowment of \$21.6 billion (in 2008 NPV). The Financial Advisor, GHK (Hong Kong) Ltd., considers that assuming construction costs to escalate continuously with no correction in the medium to long term is not realistic given the historical construction cost cycle.

#### West Kowloon Cultural District

#### Details of Construction Costs (in 2006 Prices)

	(a)	(b)	(c) = (a) x (b)	(d)	(e) = (c) x (d)	(r)				(g) = (e) x (f) x 0.000001		(h)	(I) = (g) x (h)	0)	(K)	(l) = (i) x [(j)+(k)]	(m)	(n) = (i)+(l)+(m)	(o)	(p) = (n)x(o)	) (q) = {n}+(p)
	Net		Floor Area	T						ruction Cost (Not	4)				dessional Fee: lanagement Co	and		Total		w. 1/3-/	
	Operating Floor Area (NOFA)	NOFA to GFA	Gross Floor Area (GFA)	GFA to CFA	Construction Floor Area (CFA) (Note 2)	Unit Construction Cost	Breakdown Foundation	Building construction	Fitting out	Unadjusted Total Construction Cost	Construction Period	inflation Adjustment	Adjusted Total Construction Cost	Professional Fees	Contract Management Costs	Total	Other Costs	Construction Cost (before risk premium)		iction Risk m (Note 6)	Risk Adjusted Total Construction Cost
	sq m	ratio (1 to x)	aq m	ratio (1 to x)	sq m	\$/sq m CFA (in 2006 prices)	\$ per sq.m. (in 2006 prices)	\$ per sq.m. (in 2006 prices)	\$ per sq.m. (in 2006 prices)	\$ Million (in 2006 prices) (Note 1)	No of Years	index (rounded to 2 decimal points)	\$ Million (in 2006 prices) (Note 1)	%	%	\$ Million (in 2006 prices) (Note 1)	\$ Million (in 2006 prices) (Note 1)	\$ Million (in 2006 prices) (Note 1)	*	\$ Million (in 2006 prices) (Note 1)	\$ Million (in 2006 prices) (Note 1)
PHASE 1												, pom.27								(NOW I)	
Museum and Exhibition Space     2.1 Museum (Phase 1)     M+	28,910	1.5	43,365	1.3	56,375	24,200	4,200	14.000	6.000	1,364	5	0.96	1,313	11,1%	9,0%	264		1,576	29.2%	460	2,037
Off-site storage and conservation labouratory	14,000	1.2	16,800	1,2	20,160	15,000	2,000	8,000	5,000	302	5	0.96	291	11,1%	9.0%	58	73	422	29.2%	123	
2.2 Exhibition Centre	10,000	1.25	12,500	1.3	16,250	22,200	4,200	12,600	5,400	361	4	0,97	351	9.0%	8.0%	60	(Land Cost)	410	23.0%	94	\$05
3 Performing Arts Facilities 3.1 Mega Performance Venus 3.2 Great Theate 1 3.3 Concert held and Chember Music Hall 3.4 Xigo Centre 3.5 Medium Theate 1 3.6 Medium Theate 2 3.7 Black Box Theatre 2 and Black Box Theate 1 3.8 Black Box Theatre 4 3.9 Pazzas Piazzas Small Canopy	36,710 14,800 16,800 14,955 6,750 9,480 5,195 3,160	1.4 1.4 1.4 1.4 1.4 1.4 1.4	51,394 20,720 23,520 20,937 9,450 13,272 7,273 4,424	1.3 1.3 1.3 1.3 1.3 1.3 1.3	66,812 26,936 30,576 27,218 12,285 17,254 9,455 5,751 30,000	26,200 29,200 29,200 27,200 27,200 26,200 22,200 22,200 5,500 6,000	4,200 4,200 4,200 4,200 4,200 4,200 4,200 4,200	14,300 16,250 16,250 14,950 14,950 14,300 11,700	7,700 8,750 8,750 8,060 8,060 7,700 6,300 6,300	1.750 787 893 740 334 452 210 128	5 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.96 0.96 0.96 0.97 0.97 0.97 0.97	1,884 757 859 712 325 435 204 124	12.0% 12.0% 14.6% 14.1% 12.0% 12.0% 12.0% 6.5%	8.0% 8.0% 9.0% 9.0% 8.0% 8.0% 8.0%	337 151 203 185 65 87 41 25		2,021 908 1,062 877 390 522 245 149	23.0% 23.0% 29.2% 29.2% 23.0% 23.0% 23.0% 23.0%	465 209 310 258 90 120 56 34	1,117 1,372 1,133 479 642 301 183
4 Other Arts and Cultural Uses	1		15.000	1.3	19,500	14.200	4,200	10,000		277	- 7	0.97	269			34				46	
5 Transport Facilities 5.1 Automated People Mover			10,505	,,,	15,555	14,200	4,200	15,000		504	4	0.97	490	6.2% 5,8%	8.0% 11,0%	82		307 572	15,0%	#6 86	353 658
5.2 Car parks Public Car Parks (basement)					9,526	11,200				107	4	0.97	104	3.0%	8.0%	11		115	15.0%	17	
Public Car Parks (podium) Public Car Parks (basement shared foundation)					19,958 15,876	4,000 7,000				80 111	4	0.97 0.97	78 108	3,0% 3.0%	8.0% 8.0%	8 12		86 120	15.0% 15.0%	13 18	
8 Communal Facilities 6.1 Public Open Space Public Open Space (at-grade) Public Open Space (terraces) Contingency space (terfaces)			3,340	1.0	170,000 50,000 3,340	3,500 4,500 2,000				595 225 7	4 4	0.97 0.97 0.97	578 219 6	2.1% 2.1% 2.1%	8.0% 8.0% 8.0%	58 22 1		636 241 , 7	15.0% 15.0% 15,0%	95 36 1	732 277 8
7 Retail/Dining/Entertainment		l											2,232	6,0%		134		2,366	15.0%	335	2,700
PHASE 2  8 Performing Arts (Phase 2)  8.1 Great Theatre 2 and Medium Theatre 3  8.2 Medium Theatre 4	20,325 6,750	1.4 1.4	28,455 9,450	1.3 1.3	36,992 12,285	29,200 27,200	4,200 4,200	16,250 14,950	8,750 8,050	1,080 334	5. 4	0.96 0.97	1,039 325	12.0% 12.0%	8,0% 8.0%	208 65		1,247 . 390	23.0% 23.0%		ee Note 3 below>
9 Museum and Exhibition (Phase 2) 8.0 M+ (phase 2)	12,390	1.5	18,585	1.3	24,161	22,200	4,200	14,000	4,000	536	4	0.97	521	11.1%	9.0%	105		626	23.0%	144	770

Note: (1) Figure in 2006 prices, rounded to nearest \$ million.
(2) Refers to floor area for piazzas and public open spa

(3) Breakdown of RDE construction costs:

pace.			_
RDE Construction Cos	ı tş		
Shops Car Parking (Podium) Car Parking (Basement)	Area (GFA) 119,000 sq.m. 298 spaces 99 spaces	Unit Cost (in 2005 prices) (Note 7) \$16,198 / sq.m. \$140,000 / space \$245,000 / space	Cost (\$M) (in 2005 prices) 2,164 42
our running (Descripting)	so space		Total 2,232
Professional Fees (6%)	\$2,232 million x	0.06	134
Contingency (15%)	\$2,232 million x	0.15	335
		Total Construction	Cost 2.700

(4) Please refer to Annexes C (M+ and Exhibition Centre), D (performing arts venues, piazzas and small canopy), E (APM and public car parks) and F (other arts and cultural facilities, and public open space) the Financial Advisor's Final Report dated April 2007 for the unit construction costs / construction costs of respective facilities adopted

(5) Annex G of Financial Advisor's Final Report dated April 2007 refers

(6) Annex J of Financial Advisor's Final Report dated April 2007 refers

(?) Annex L of Financial Advisor's Final Report dated April 2007 refers

#### Rental of Retailing, Dinning and Entertainment Facilities

#### **Local Comparators**

	Monthly rental per sq. ft Gross Floor Area (at 2006 prices)
West Kowloon Cultural District	\$30
Local References :	
(1) Prime and Secondary Shopping Malls (Langham Place, IFC, Plaza Hollywood, Olympian City, etc.)	\$27-\$42
(2) Soho (Central)	\$50-\$80

Note: The above figures are provided by the Government's Financial Advisor, GHK(Hong Kong) Ltd.

	The second secon	- A ANDERSON OF THE STATE OF TH	Phases 1 and 2 Combined	Local f International References		
Physical Parameters						
A free standing structure with iconic architecture. M+ should meet internation and can manage artefact collections representing the full range of materials, exhibits to be put on display.						
(a) On-site floor area On-site Gross Floor Area (GFA)	43,365 sq.m.	18,585 sq.m.	61,950 sq.m.			
Including: Net Exhibition Area	16,000 sq.m.	10,000 sq.m.	26,000 sq.m.			
(b) Off-site floor area Off-site Storage and Conservation Laboratory (GFA)	16,800 sq.m.	- sq.m.	16,800 sq.m.			
Total floor area (on-site and off-site)	60,165 sq. m.	18,585 sq. m.	78,750 sq. m.	Centre Pompidou, Paris - 112,523 sq. m. MOMA, New York - 73,420 sq. m. Tate Modern - 43,000 sq. m.		
Key Development Assumptions						
(a) Construction is to take place during	Phase 1	Phase 2				
(b) Design and construction	5 years (including 1 year for an architectural design competition by invitation)	3 years				
(c) Target opening	2015	2031				
Total Capital Costs (\$Million in 2008 Net Present Value (NPV))						
(a) Design, planning and construction costs	2,215 \$Million in 2008 NPV	346 \$Million in 2008 NPV	2,561 \$Million in 2008 NPV			
Base cost estimate = Construction floor area X unit construction cost \$	(at 2006 prices ) per CFA X (1 + on-cost %) X (1 + ri	isk premium %)				
(a) <u>On-site</u> (i) Construction floor area (CFA) (assumed GFA: CFA = 1:1.3) (ii) Unit construction cost	56,375 sq. m. 24,200 \$ (at 2006 prices)	24,161 sq. m. 22,200 \$ (at 2006 prices)	80,535 sq. m. - \$ (at 2006 prices)	Range of comparables - HK\$14.300 (Jewish Museum, Berlin) to HK\$41.100 (MOMA, Ne York) equivalent per sq. m. CFA.		
(iii) On-costs (i.e. professional fees + contract management costs)	20.1 % (i.e. 11.1% professional fees + 9% contract management costs)	20.1 % (i.e. 11.1% professional fees + 9% contract management costs)	- %			
(iv) Risk premium assessed	29.2 % {This is arrived at based on a more sophicated estill base cost estimate}	23.0 %	- % d approach of adding a fixed percentage to the	Standard approach - a fixed percertage of 15%		
(b) Off-site (i) CFA (assumed GFA:CFA = 1:1.2) (ii) Unit construction cost (iii) On-costs (i.e. professional fees + contract management costs)	20,160 sq. m. 15,000 \$ (at 2006 prices) 20.1 \$ (i.e. 11.1% professional fees + 9% contract management costs)	- sq. m. - \$ (at 2006 prices) - %	20,160 sq. m. - \$ (at 2006 prices) - %			
(iv) Risk premium assessed	29.2 %	- %	- %			
(b) Other capital costs	1,630 \$Million in 2008 NPV	87 \$Million in 2008 NPV	1,717 \$Million in 2008 NPV			
Breakdown, (i) Collection	1,214 \$Million in 2008 NPV  (M+ needs to build up sizable and impressive collectinitial collection of \$1 Billion (at 2006 prices) upon coprices) thereafter.			Very difficult to make comparisons and initial collections need to be built up over long periods. Donations, exhibit loans, partnership arrangements are important as well. Range of comparables on annual acquisition - HK\$11 million (MOMA, San Francisco) to HK\$ 774 million (The Metropolitan Museum of Art, New York) equivalent.		
(ii) Exhibition Development (iii) Conservation Laboratory Equipment (iv) Library set-up	352 \$Million in 2008 NPV 41 \$Million in 2008 NPV 24 \$Million in 2008 NPV	87 \$Million in 2008 NPV - \$Million in 2008 NPV - \$Million in 2008 NPV	439 \$Million in 2008 NPV 41 \$Million in 2008 NPV 24 \$Million in 2008 NPV			
(c) Major Repair and Renovation Costs - once every 20 years	421 \$Million in 2008 NPV	50 \$Million in 2008 NPV	471 \$Million in 2008 NPV			
(d) Total Capital Costs	4,266 \$Million in 2008 NPV	483 \$Million in 2008 NPV	4,749 \$Million in 2008 NPV			
(d) Totał Capital Costs	4,266 \$Million in 2008 NPV	483 \$Million in 2008 NPV	4,749 \$Million in 2008 NPV			

<b>i Mi</b> rking ang ikang panggan	Phase I	Phase 2	Phases 1 and 2 Combined	Local / Informational References
4 Total Operating Deficit over the 50-year Project Period to 2059 (\$Million in 2008 NPV)	5,292 \$Million in 2008 NPV	625 \$Million in 2008 NPV	5,917 \$Million in 2008 NPV	
	(The operating deficits of arts and cultural facilities of covered by the estimated rental income generated f	of the WKCD (including that for the M+) of from retail/dining/entertainment facilities,	over the 50-year project period to 2059 will be fully with an estimated safety margin of about 10%.)	
5 Key Operating Assumptions				
(a) Initial Broad Groupings will be Design, Moving Image, Popular Culture regional and international exhibitions and a full range of quality public and e	and Visual Art. (cover ink Art). M+ will build a world-cla educational programmes as per international museum p	uss collection relating to each of the four b practice. All exhibitions and programmes	proad groupings. M+ will offer a range of local, will be to international standards.	
(b) Operator	Not for Profit Operator	-	Not for Profit Operator	
(c) Attendance	1,200,000 visitors	-	2,000,000 visitors	Range of comparables - 0.8 million (MOMA, San Francisco) to 6.4 million (Tate Gallery (Tate Modern, Tate Britain, Tate Liverpool and Tate St Ives)).
(d) Number of Blockbluster Exhibitions	4 peryear	-	7 per year	
(e) Average Admission Fee from Visitors	27.5 \$ per visitor (at 2006 prices)	•	30 \$ per visitor (at 2006 prices)	HK Museum of Art / HK Heritage Museum - \$10 (with premium for blockbuster shows \$10
	(The assumption about ticket prices which includes the Museums Advisory Group (MAG) of the Consult existing Government museums in Hong Kong. Spec	ative Committee on the operational requi	- \$30) Centre Pompidou - HK\$103 equivalent Guggenheim, New York - HK\$137 equivalent	
(f) Full time equivalent (FTE) employees	320 number	-	336 number	Lower than staffing requirements at international comparable museums: New York MOM. (GFA 73,420 sq. m.) - 590 full-time staff; Centre Pompidou (GFA 112,523 sq. m.) - 918
	(employment of temporary staff is covered in annual	l operating budget)		permanent staff. Range of comparables - 95 (The Solomon R. Guggenheim Museum in New York, Guggenheim Hermitage Museum in Las Vegas and Peggy Guggenheim Collection in Venice) to 1,783 (The Metropolitan Museum of Art, New York) full time staff.
S Snapshot of the Annual Operating Result at Year 5 after commenceme of operation (i.e. 2019 for Phase I) when cost and revenues have settle down into their long term trend	nt d			
(a) Operational Revenue	67 \$Million (at 2006 prices)		105 \$Million (at 2006 prices)	
(b) Operational Expenditure & Adjustments	370 \$Million (at 2006 prices)		488 \$Million (at 2006 prices)	Range of comparables on annual operating costs - HK\$ 249 million (MOMA, San Francisco) to HK\$2,132 million (The Metropolitan Museum of Art, New York)) equivalent.
(c) Annual Operational Surplus / (Deficit)	(303) \$Million (at 2006 prices)		(383) \$Million (at 2006 prices)	
				For the 4 comparable LCSD museums (i.e. Museum of Art, Museum of History, Heritage Museum and Science Museum, with an aggregate total GFA 80,530 sq. m.), their total revenue collected and total operating cost (excl. depreciation and collection) incurred in 2006-07 were HIS16,301,205 and HIS329,206,459 respectively, and the cost recovery rate was 5%.
Indicative Operational Cost Recovery Rate	18%		22%	Cost recovery rates for comparable overseas museums: Centre Pompidou - 27%; Tate Galleries - 54%; New York MOMA - 57%; Guggenheim Museums - 68%.

Note: All numbers are rounded to 0 decimal places for presentational ease. The table totals presented therefore may not add up due to rounding.

Source: Enclosure 12 & 13 to LC Paper No.PWSC (2008-09)31 issued on 18 June 2008

## Relevant documents on Financial arrangements for the West Kowloon Cultural District project

Committee	Date of meeting	Documents/Papers
Subcommittee on West Kowloon Cultural District Development	4.2.2005	Agenda Minutes
	26.5.2008	Agenda Minutes
	30.5.2008	Agenda Minutes
	5.6.2008	Agenda Minutes
Public Works Subcommittee of the Finance Committee	18.6.2008	Agenda Minutes
Joint Subcommittee to Monitor the Implementation of the West Kowloon Cultural District Project	27.2.2009	Agenda Minutes

Council Business Division 2

<u>Legislative Council Secretariat</u>

24 August 2011