1. Background

Government Policy Objectives

A successful 3G licensing will enable Hong Kong to continue as leader in mobile communications market in the region

Policy Objectives

- Promote development of telecoms industry
- > Promote consumers' interests
- Maximise benefits to the economy
- Efficient and fair allocation method
- Level playing field regulatory environment
- > Maximising revenues is **not** Government's primary objective, but...
- ...the auction should allocate licences to parties who value them most highly

The 3G licensing must achieve Government's stated policy objectives

1. Background (Cont'd)

Current Market Conditions

Hong Kong's mobile market is very challenging...

- > Penetration rate at 76%
- > Six incumbent operators with intensive price competition
- > Financing for operators is increasingly expensive or difficult to obtain

3G licensing in a highly adverse market environment...

- > Market has become more sceptical about the 3G business opportunities
- Credit downgrades of certain 3G licence winners due to high prices paid

Auction must be designed to minimise the initial financial burden on licensees

2. Selection Method and Number of Licences

Hybrid approach : pre-qualification and spectrum auction

- > Pre-qualification conditions to ensure quality services from licensees
- > Spectrum auctioning process to ensure an efficient and fair allocation method

4 licences to be issued

- Limited spectrum available
- > Ensure appropriate market competition



Selection method must be efficient and fair

3. Various payment options considered

Options

- 1) Up-front cash
- 2) Deferred payment
- 3) Royalties
- 4) Hybrid : royalty with minimum payment

Considerations

- Avoid market distortion
- Prevent costs being passed to consumers
- Promote entry
- Prevent collusion
- Minimise bidders' funding requirement
- Increase the Government's ability to share upside
- Reduce credit risk to Government
- Ensure simplicity

Hybrid method chosen : "Pro-entry" and does not undermine consumers' interest

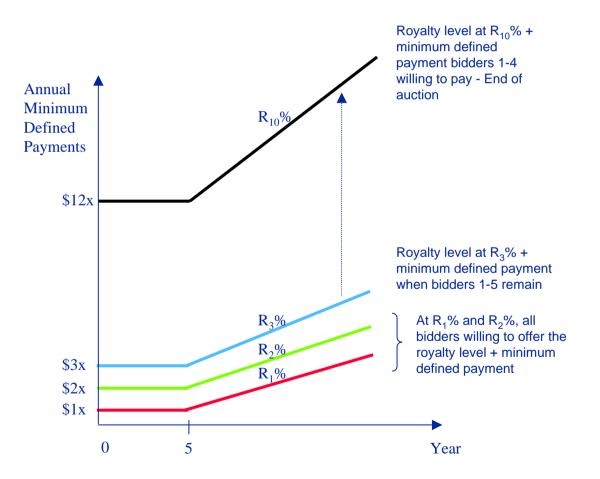
4. The Payment Method

For illustrative purposes only

Minimum defined payments

- Government sets a bidding schedule which defines successive steps of bids to be submitted
- Bidders bid for a % of royalty, which has correlated minimum, guaranteed defined payments
- For the first 5 years, all licensees pay a flat annual minimum defined payment
- From year 6, the annual minimum defined payment increases by a pre-determined amount

Minimum defined payments spread over time



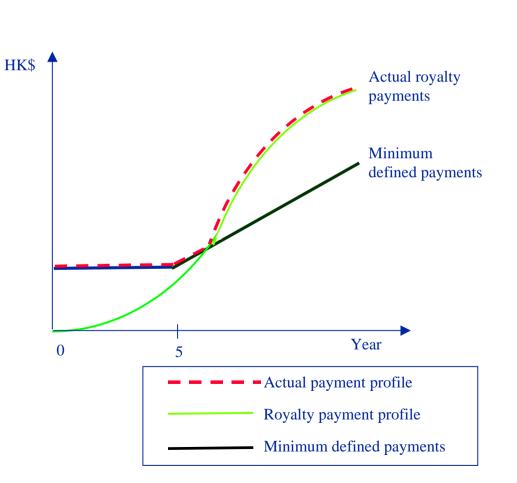
4. The Payment Method (Cont'd)

For illustrative purposes only

Actual payments over time

Royalties

- From year 6 onwards, annual payments will be higher of the royalty based on actual turnover or the minimum defined payments
- 5-year rolling guarantee required for minimum royalty payments



4. The Payment Method (Cont'd) Auction Design

Design needs to be tailored to the chosen payment method and...

- > Promote entry to the auction
- > All successful bidders will subject to the same royalty percentage
 - To minimise distortive effect
- An efficient method (for example, a further round of cash auction) will be designed to allocate the four frequency bands to the winning bidders

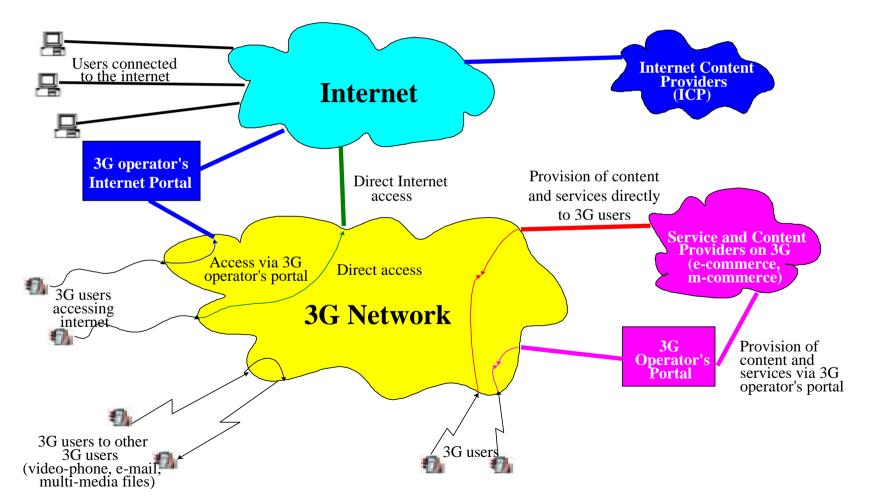


A number of designs are currently being considered

5. Regulatory Framework

Open Network Requirement

Potential paths for 3G usage: "Walled Garden or Open Access"



5. Regulatory Framework (Cont'd)

Open Network Requirement - Framework

- > Minimum 30% of network capacity open for non-affiliated companies
 - Mobile Virtual Network Operators (MVNOs)
 - Content Providers
- Commercial negotiations of wholesale prices for MVNOs access
- Tariffs for Content Providers set by the 3G licensees, reflecting all relevant cost and cost of capital
- ► TA has the reserved power to determine interconnection price when commercial negotiations fail, sufficient return will be permitted to reflect risk in 3G
- If required, licensees will need to provide evidence to prove 30% of capacity has been opened up
 - TA will accept alternative methods of measurement proposed by the operators

5. Regulatory Framework (Cont'd)

Availability of Additional 3G Services Spectrum

- Refarming for 3G Services by existing 2G operators will be permitted for the remaining licence period
- Industry consultation on future arrangements for renewal of 2G licences will be conducted
- Additional spectrum in 2.5GHz band allocated by ITU will not be available before 2005
- Industry consultation before 2005 to decide how the 2.5GHz bands are to be allocated

5. Regulatory Framework (Cont'd)

Roaming between 2G and 3G Services Networks

- Mandatory roaming for new entrants onto 2G networks of successful 3G bidders
 - "Sunset" date currently intended to be five years after licensing

6. Public Consultation

Industry Consultation

- > 3G licensing and regulatory framework
 - March and October 2000
- Open Network Requirement
 - Industry workshop in January 2001

7. Next Steps

- ExCo approved spectrum auctioning based on royalty
- Formulate method for determining spectrum utilization fee
 - preparing subsidiary legislation
- > TA to invite 3G applications upon enactment of legislation
 - TA will work out the design of the auction and the terms and conditions for inviting applications
- Issue of licences around mid-2001