Towards a Converged Regulatory Framework in the Age of Ubiquitous Network Society



Towards Convergence

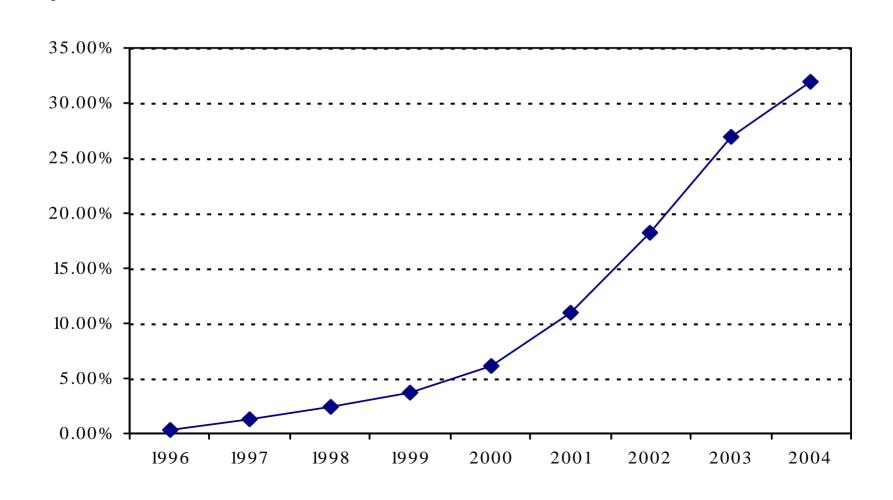
- License Convergence
 - Fixed/Mobile
 - Telecom/Broadcasting

- Regulator Convergence
 - OFTA/Broadcasting Authority

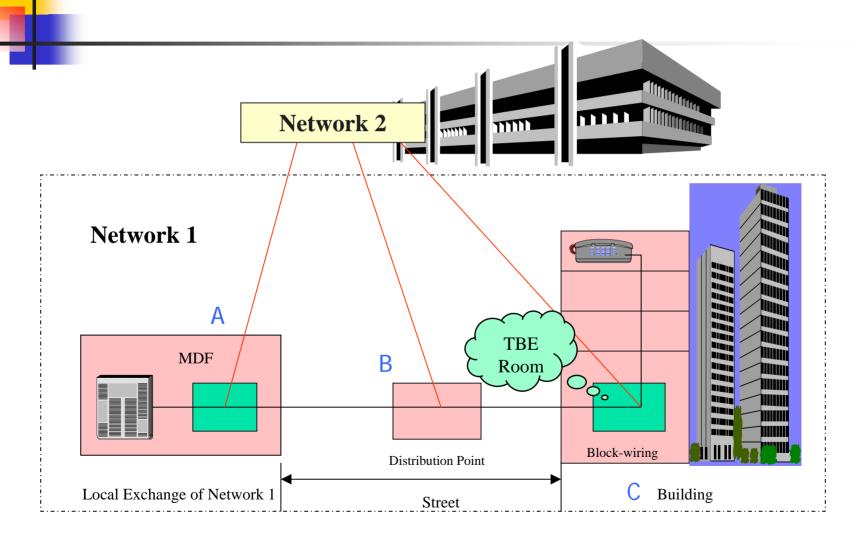


- Broadband Wireless Access (BWA):
 - Multiple Technologies: technology neutral
 - Short delivery period: "on-demand" high speed connectivity for temporary event
 - Primarily the wireless extension of conventional wireline based fixed network
 - An effective solution for Type II Network Interconnection

Accelerated Market Share of New Entrants in Local Fixed Network



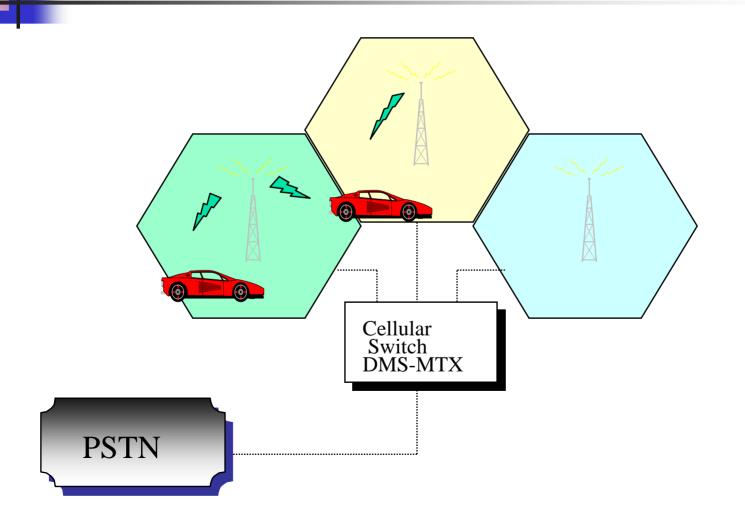
BWA: A Solution after Withdrawing Type II Network Interconnection?



The BWA and Fixed/Mobile Convergence

- Mobile operators' worry: will BWA pose a threat to 3G?
- OFTA: BWA will complement rather than threaten 3G at least until the technology fully matures, namely with the handoff and roaming capabilities.

Handoff between Adjacent Cells



BWA for Mobility: Back to the Origin?

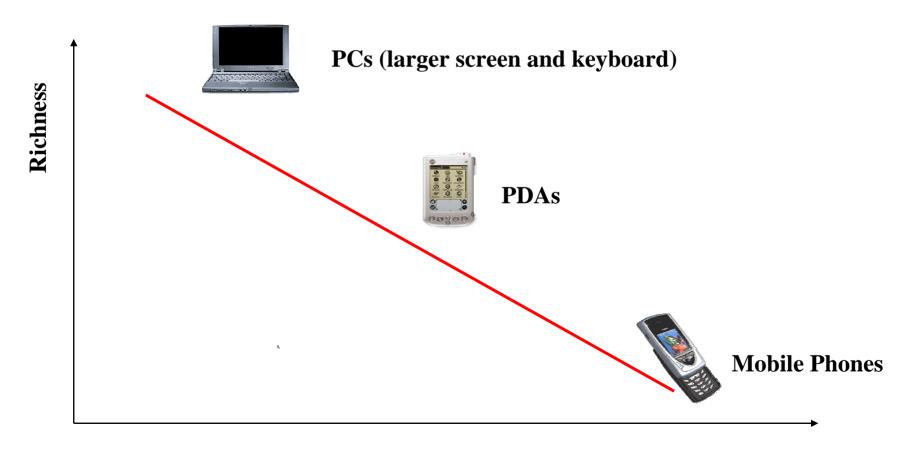
Power Efficiency vs. Terminal Weight





Comparison from the Terminal Perspectives:

The Tradeoff between Information Richness and Reach



Reach



Who Should Get BWA License?

- Current licensing and regulatory frameworks for mobile and fixed carriers:
 - Separated and different
- Can fixed carrier holding a BWA license provide mobile service?
 - No then what about technology neutrality?
 - Yes then what license? Fixed or mobile?



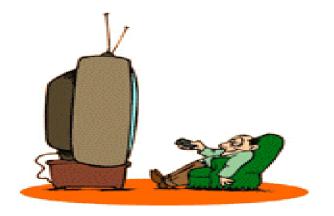
Who Should Get BWA License?

- Can mobile carrier get a BWA license?
 - If yes, can they use their 3G spectrums for BWA service?
 - If no, how can the mobile/fixed convergence be facilitated?

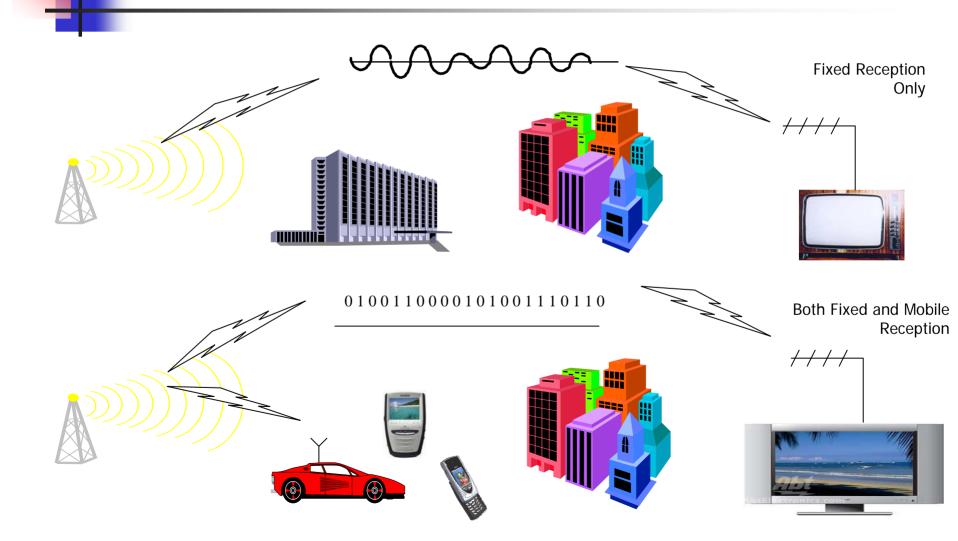
OFTA is positively working on the convergence of mobile and fixed carrier license and conducting a comprehensive policy review of spectrum regulation



- 1998 government policy paper to introduce DTT in HK after 2002
- 1999 technology trials of three DTT standards
- 2000/2003 two rounds public consultation
- 2007 DTT to be launched in Hong Kong
- 2008 75% coverage in HK
- 2012: Analogue switch off







Merger of Telecom and Broadcasting Services

- DTT supports all kinds of services including:
 - Mobile broadcasting service
 - Interactive multimedia service
 - Text broadcast services
 - Telecommunications services
 - Merger of audio, sound, video and text services



 DTT supports mobile TV and mobile interactive multimedia service, while current licenses do not allow mobile communications

 DTT offers both paid and free service while current license are separated for these two business models in accordance with the Broadcasting Ordinance

A new regime to deal with the merger of telecommunications and broadcasting services is required.

Towards a Converged Regulatory Framework

- From technology-orientated regulation towards application-orientated regulation
- The political objective of telecom policy should be guaranteeing "Universal Connection" rather than guaranteeing "Universal Service" in the specific context of EoIP
- Efficiency remains the economic objective of telecommunications policy, while competition between different technologies and different players remains the best option to achieve the economic objective

Towards a Converged Regulatory Framework





BROADCASTING

•Television and
Entertainment
Licensing Authority
(TELA)

TELECOMMUNICATIONS

•Office of the
Telecommunications Authority
(OFTA)

OFTA

INFORMATION TECHNOLOGY

•Information Technology Service Department (ITS)









THANK YOU!

