

June. 9. 2003

Workshop on Digital
Broadcasting Technology

Digital Broadcasting Industry :Today & Tomorrow

Kook-Jin Kim Ph.D

Content

I. Transition to digital broadcasting

Triangle of Conflict

Maxim for Digital transition

Digital transition Understanding

II. Digital Today & Yesterday

III. Digital Today & Tomorrow

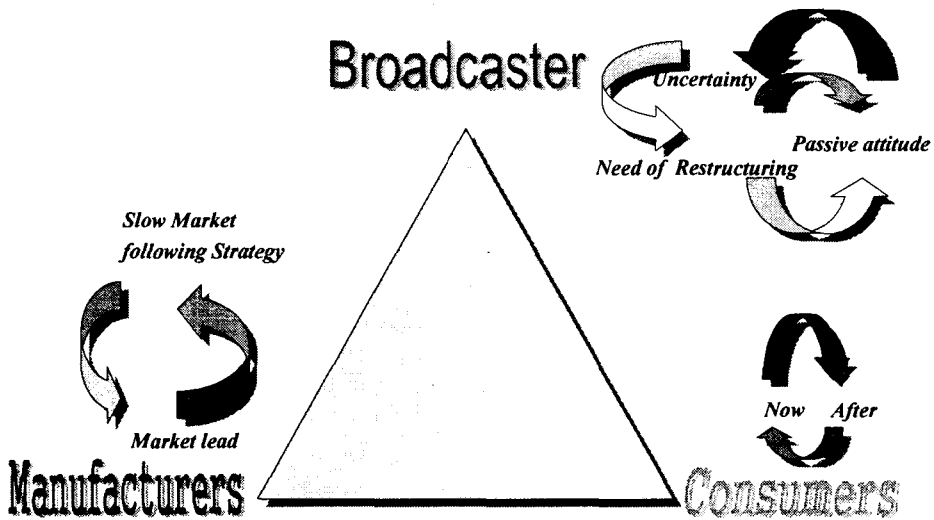
IV. Summary & Conclusions

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Triangle of Conflict

I. Digital Transition



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Maxim

I. Digital Transition

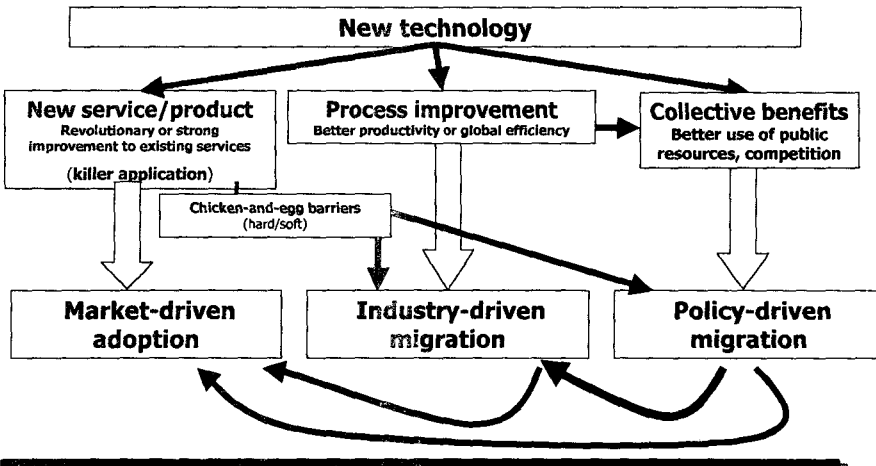
- Transition period : the shorter , the better**
Norway 2004 /US, Finland, Italy, 2006 (UK 2006-2010)
Sweden, Portugal 2007
- Government Policy : Tipping, Ending**
Transparency , progressive stance
- Digital Content Production & Management**
Intelligent Property, Security
- New function recognition**
Not only the entertainment conduit ,
But also digital community and commerce place

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Digital Transition Understanding Why Policy-driven?

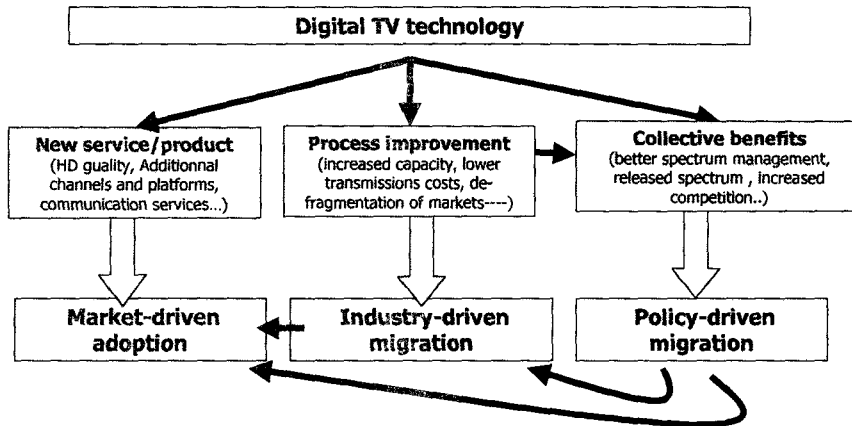
3 type migrations according to the main driver



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Digital Transition Understanding Why Policy-driven?

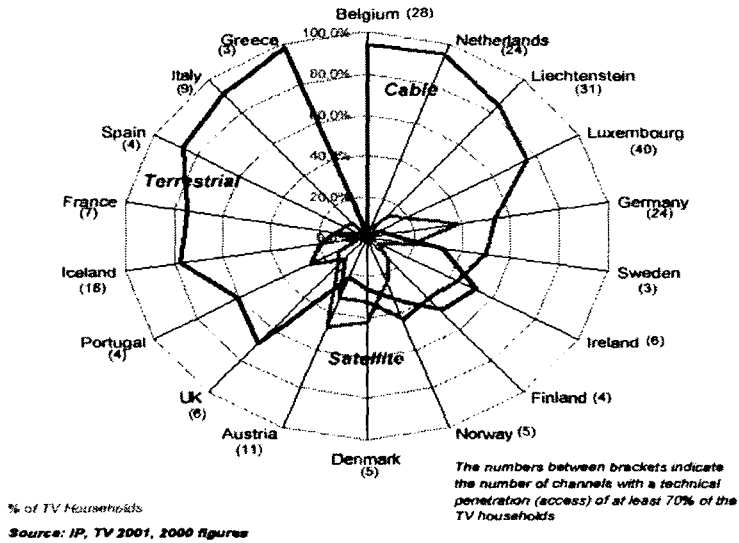


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II. Digital Today and Yesterday

Difference



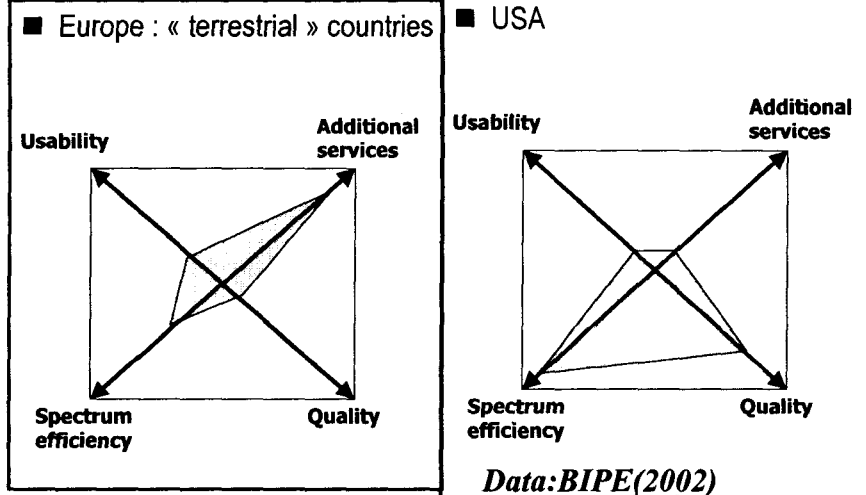
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II. Digital Today and Yesterday

Difference

Terrestrial Broadcasting Orient



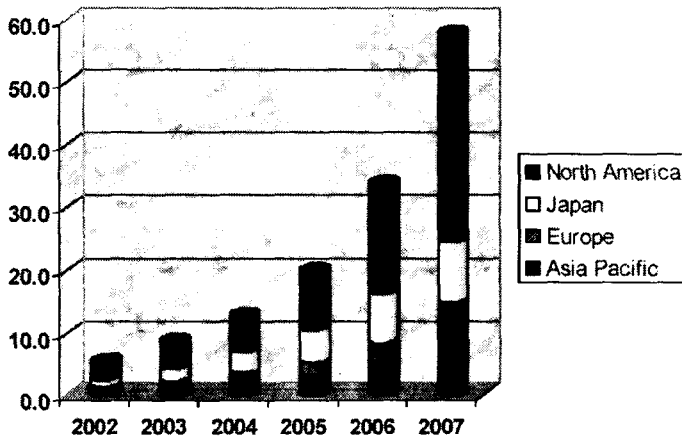
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III. Digital Today & Tomorrow

worldwide DTV Set(shipment)

Units in Millions



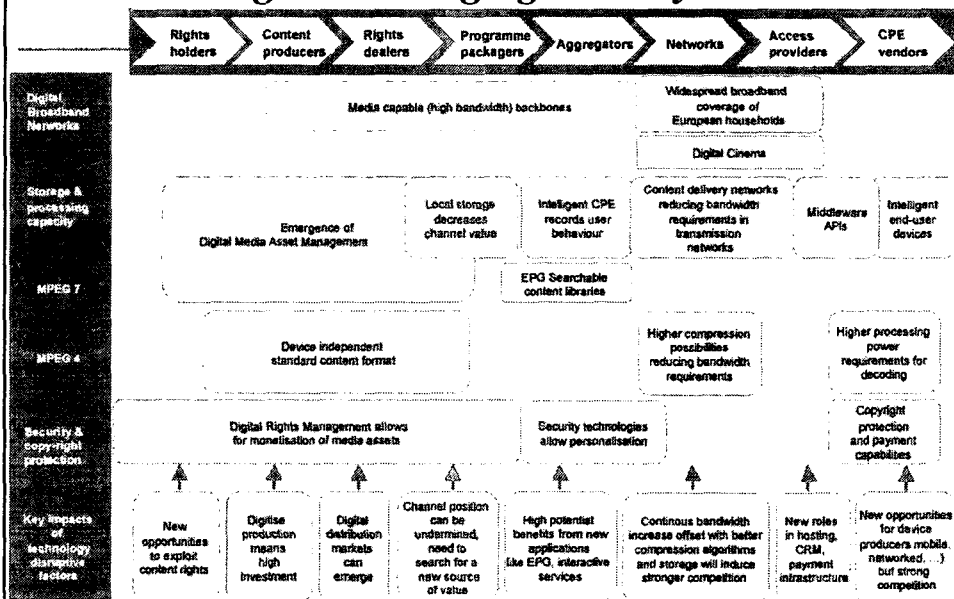
Source: In-Stat/MDR, 1/03

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Digital converging industry

Source: Anderson Analysis



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North American DTV Set

ASPs(US\$)

	2002	2003	2004	2005	2006	2007
16:9 HDTV						
Projection Monitors	\$1,900	\$1,800	\$1,600	\$1,400	\$0	\$0
Annual growth %		-5.3%	-11.1%	-12.5%	-100.0%	
4:3 HDTV						
Projection Monitors	\$1,600	\$1,500	\$1,400	\$1,300	\$1,150	\$0
Annual growth %		-6.3%	-6.7%	-7.1%	-11.5%	-100.0%
16:9 HDTV Direct						
View Monitors	\$1,300	\$1,200	\$1,100	\$1,000	\$900	\$800
Annual growth %		-7.7%	-8.3%	-9.1%	-10.0%	-11.1%
4:3 HDTV Direct						
View Monitors	\$1,000	\$900	\$800	\$720	\$660	\$600
Annual growth %		-10.0%	-11.1%	-10.0%	-8.3%	-9.1%
Integrated HDTV						
Projection Sets	\$2,900	\$2,700	\$2,450	\$2,100	\$1,800	\$1,500
Annual growth %		-6.9%	-9.3%	-14.3%	-14.3%	-16.7%
Integrated HDTV						
Direct View Sets	\$1,800	\$1,700	\$1,550	\$1,410	\$1,300	\$1,200
Annual growth %		-5.6%	-8.8%	-9.0%	-7.8%	-7.7%
Direct View EDTV						
& SDTV Sets	\$700	\$650	\$550	\$470	\$410	\$360
Annual growth %		-7.1%	-15.4%	-14.5%	-12.8%	-12.2%
LCD TVs	\$500	\$475	\$450	\$420	\$395	\$375
Annual growth %		-5.0%	-5.3%	-6.7%	-6.0%	-5.1%
Plasma TVs	\$4,978	\$4,050	\$3,500	\$3,170	\$2,770	\$2,400
Annual growth %		-18.6%	-13.6%	-9.4%	-12.6%	-13.4%

Source: In-Stat/MDR, 1/03

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European DTV Set

Shipment and Revenues
(Units in Thousands and US\$ in Millions)

	2002	2003	2004	2005	2006	2007
Integrated DTV						
Set Units (000s)	120	300	830	1,975	4,560	9,750
Annual growth %		150.0%	176.7%	138.0%	130.9%	113.8%
ASP	\$1,044	\$930	\$810	\$695	\$595	\$520
Annual growth %		-10.9%	-12.9%	-14.2%	-14.4%	-12.6%
Revenue (M)	\$125	\$279	\$672	\$1,373	\$2,713	\$5,070
Annual growth %		122.7%	141.0%	104.2%	97.7%	86.9%

Source: In-Stat/MDR, 1/03

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Japanese DTV Set

Shipment and Revenues

(Units in Thousands and US\$ in Millions)

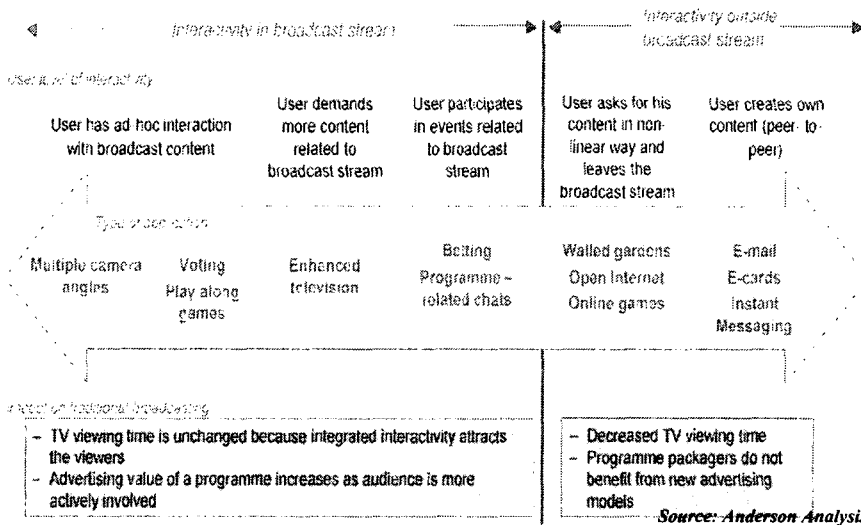
	2002	2003	2004	2005	2006	2007
Integrated HDTV Set Units (000s)	448	810	1,600	2,750	4,340	4,690
Annual growth %		80.8%	97.5%	71.9%	57.8%	8.1%
Flat Panel TVs	709	1,150	1,780	2,510	3,490	4,880
Annual growth %		62.2%	54.8%	41.0%	39.0%	39.8%
Total DTV Sets	1,157	1,960	3,380	5,260	7,830	9,570
Annual growth %		69.4%	72.4%	55.6%	48.9%	22.2%
ASP	\$2,000	\$1,860	\$1,710	\$1,570	\$1,440	\$1,310
Annual growth %		-7.0%	-8.1%	-8.2%	-8.3%	-9.0%
Revenue (M)	\$2,314	\$3,646	\$5,780	\$8,258	\$11,275	\$12,537
Annual growth %		57.5%	58.5%	42.9%	36.5%	11.2%

Source: In-Stat/MDR, 1/03

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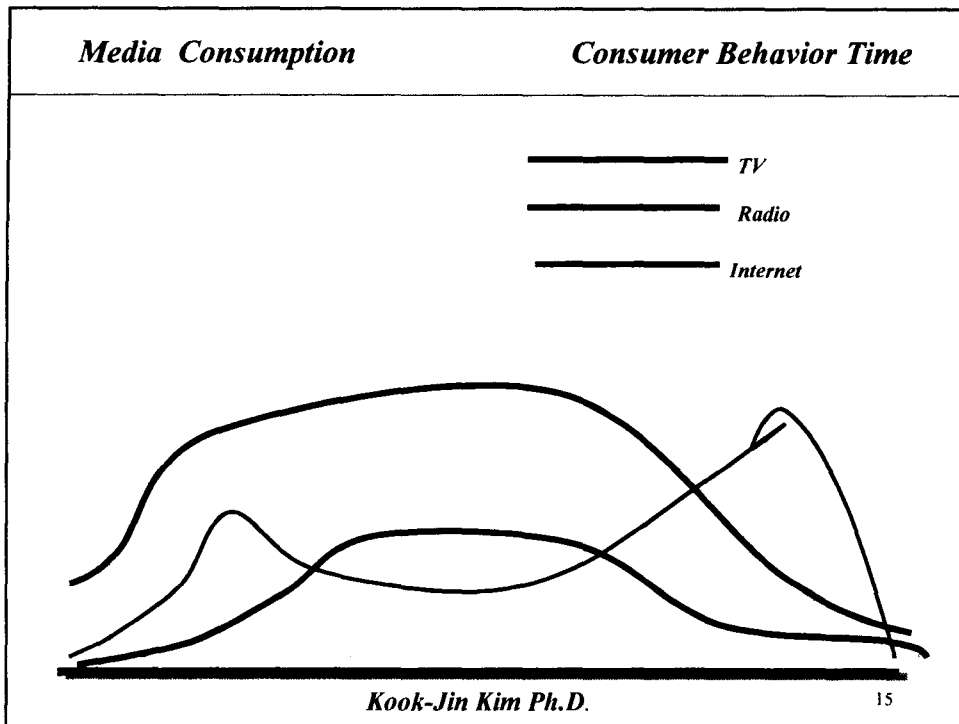
Interactive TV Service & Impact



Source: Anderson Analysis

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<i>Conclusion</i>
<ul style="list-style-type: none"> <input type="checkbox"/> <i>Different conditions, Different performances</i> <i>Digital Media Mapping is important.</i> <i>The cost of maintaining the analogue broadcasting vs.</i> <i>The cost of transiting to the digital broadcasting</i> <input type="checkbox"/> <i>Digital consumers have to be studied.</i> <input type="checkbox"/> <i>Policy is needed in the most countries.</i> <input type="checkbox"/> <i>Next two years are important in any countries</i> <i>Successful transition and Market taking or not.</i>
<p style="text-align: center;"><i>Kook-Jin Kim Ph.D.</i> 16</p>

Thank you

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