The future of the media

Kiev 15 November 2000 David Wood



The Art and Science of Prediction

- there are a large number of variables, many inter-related,
- so, multiple futures are possible;
- "Chaos" theory can help



"Chaos" Rules Include...

- "Small" changes now can have dramatic consequences later (the signature of chaos)
- Elements of order will emerge (strange attractors)



Global attractors

- Individualisation (services are provided for the individual, media is viewed alone, etc)
- Globalisation (companies have a propensity to become multinational, until efficiency is stretched too far)



The Shifting Paradigm







Channel flows EPG/ On Multichannel demand flows



The Shifting Paradigm

- The "seasons" of the media will be three (A, B, C)
- Timetables will be quite different in different places
- The stages will overlap
- There will be forces to retard and accelerate the shift



What will be the time-scale?

- How many generations will the shift take?
- In Scandinavia today, 60% of young people's electronic media time is taken up in Internet and video games
- The time-scale may be more related to human nature than technology



The Shifting Paradigm - interim solutions

- Stage B can be made more Stage-Clike, by "client storage"
- Stage C can be accelerated by "webcasting"



Digital TV needed Pay TV services...





Then we remembered multimedia...

















ELECTRONIC PROGRAM GUIDE

	TIME	SEARCH		THEREING
	All Channels 🖪	Mon Aug 25 🔻 Afternoo	on 🔻	30 SOND
r.	4:30	5 PM 5:30	6 PM	
39 COM	Life of Brian ∢		Drear 🖄	ROCK HUDSON MIRAN MO
40 CSPN	Public Policy Conference	Prime Time Public Affairs	×	Seaquest DSV Action; Sci-Fi
41 TLC	Hometime	Extreme Machines	Survi ▶	5:00 PM - 6:00 PM NR (Not Rated)
42 COUR	Supreme Court Watch	Prime Time Justice	Cochi	Darwin may be the crew's only hope for
43 BRAV	Paganini's ∢Daemon	Reunion	•V	communicating with an alien.
44 SCI	Mission Genesis	Seaquest DSV	Destr ▶	DEMIND
45 HIST	Century of •Warfare	Newsreels to Nightly News: A History	Victo	REMIND
MUSIC CENTRAL MUSIC 4 30 pm				



EPGs...

• Use the multimedia capability of the receiver,

• Become the anchor point for the viewer,

• Takes over from the TV channel as focus of viewing



And we now see we also need content information... TV Anytime project



Tools for TV Anytime



Client storage

- An on-demand environment is created in the receiver itself
- Makes sense in the short term because of relative costs of storage and networks



The traditional on-demand environment









On-demand in the receiver



Webcasting

- A broadcast environment is created by using multiple addresses
- May work, but problem of availability of multicast routers today.



The challenges in stage B

- How to introduce new free-to-air technology to the public
- How to cope with gatekeepers



The evidence so far..

- All the very successful new digital broadcast systems have relied on pay-tv
- There is no really successful stand alone free-to-air broadcasting yet
- Can it be done?







EBU-UER

The Challenges..

- Can the free-to-air be made to work in the digital environment ?
- Can the demand curve be raised enough by content?
- Can the supply curve be lowered enough ?



What broadcasters need to do..

- First, work out if you really have a business plan this is not a given!
- Evaluate your on-demand future
- Build up know how in spectrum planning and economics



The future is good...

- We should try to help and encourage it to happen - the sooner it comes the better
- But we must cater for legacies responsibly...
- And don't underestimate the work involved - start now



The best way to make correct predictions about the future is to shape the future yourself



Thank you for your attention wood@ebu.ch

