Client Private

Japan with Advanced Network Infrastructure, U.S. with Advanced Applications

12th German-Japanese Symposium

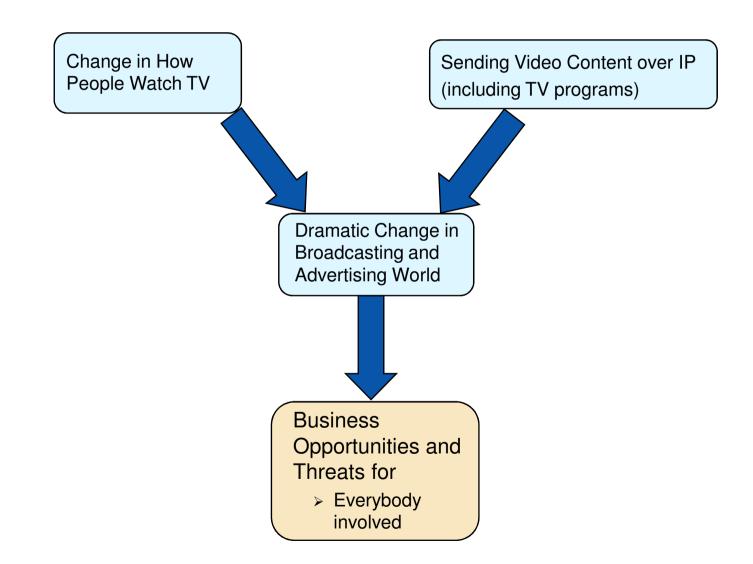
Berlin, Germany

April 20, 2007

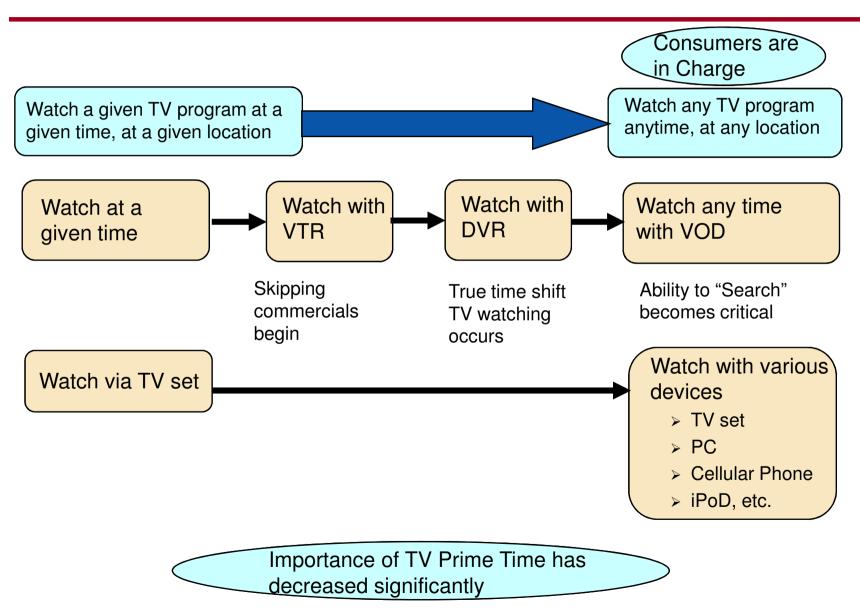
Yutaka Kuroda Managing Director Cardinal Consulting International Inc.



Broadcasting and Internet Convergence



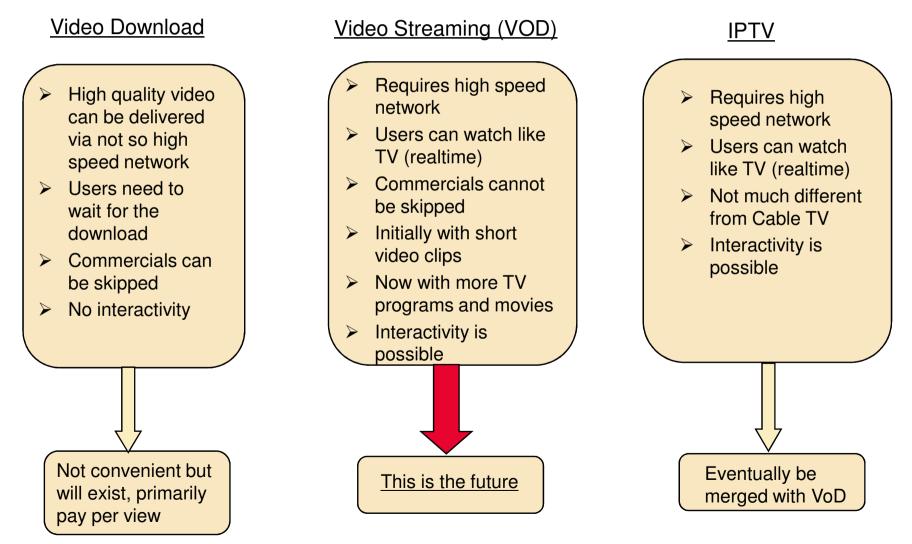
How People Watch TV has Changed Dramatically



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Broadcasting and the Internet

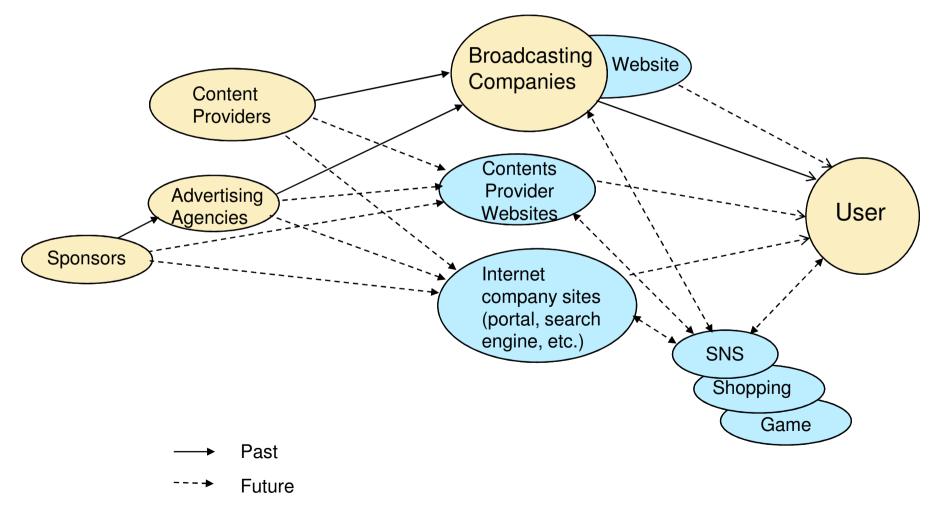
Video Download vs. Streaming Video (VOD) vs. IPTV



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Change in Broadcasting – Past and Future

• Integration of Broadcasting and the Internet is making a drastic change in the industry



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Opportunities and Threats to Broadcasting Companies

New Business Opportunities

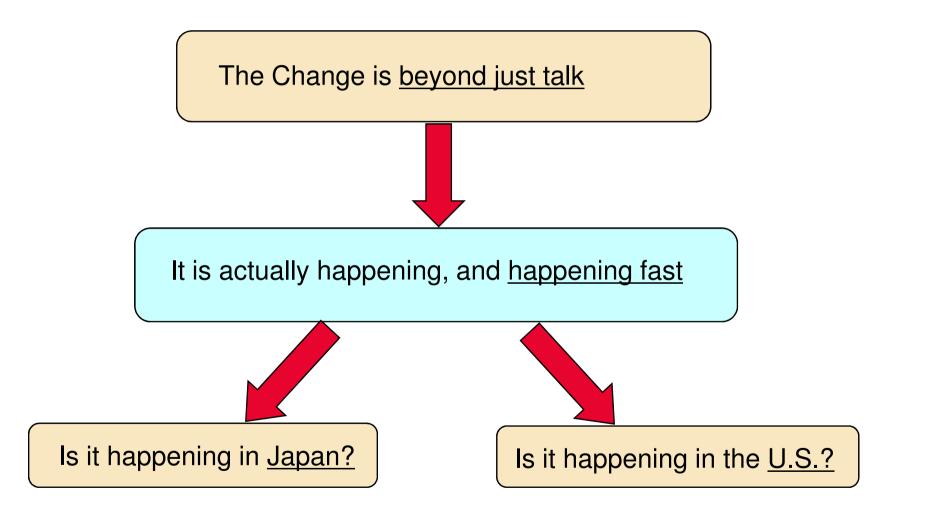
- Opportunities to maximize use of the content owned
 - New distribution channels
 - ✓ IPTV,VoD,Video downloads
 - New terminal equipment
 - ✓ PC,Cellular phone, iPod, etc.
 - New area coverage
 - ✓ Non-covered area, Global
- Improve the value of the content owned
 - Video browsing
 - Personalization

Threats to Existing Business

- Decrease in advertising revenue
 - Sponsors shifting their advertising budget to the Internet
 - Value of prime time decreasing
- Potential elimination as middleman
 - Third party Content developers distributing their contents via the Internet
- People are spending more time on the Internet than watching TV

mpanies

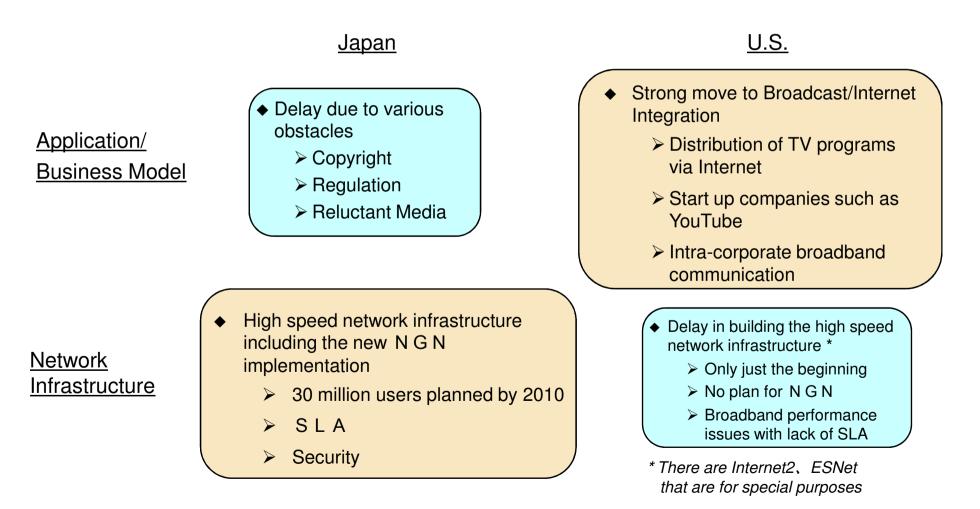
The Change is Happening Fast



Comparison of Japan – U.S. in Broadband Internet Communication

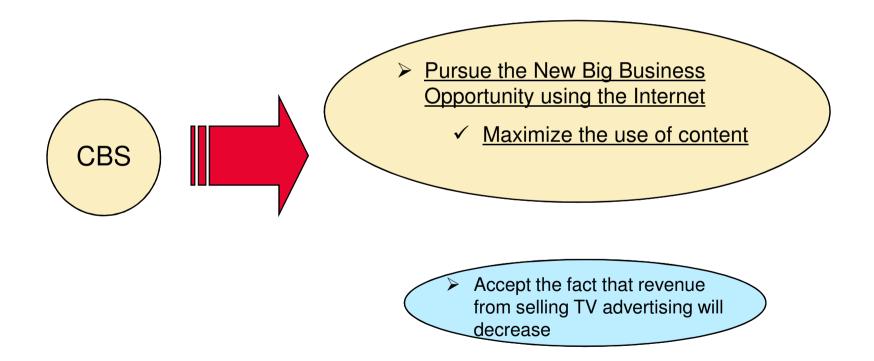
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 Although Japan is more advanced in broadband network infrastructure, U.S. is more advanced in broadband applications and business models



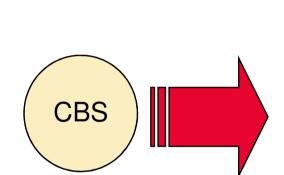
U.S. Broadcasting Companies are Aggressive – [°] CBS Case

- CBS says, "We get it!"
- CBS will "Be in front and lead the parade"



U.S. Broadcasting Companies are Aggressive – ¹⁰ CBS Case

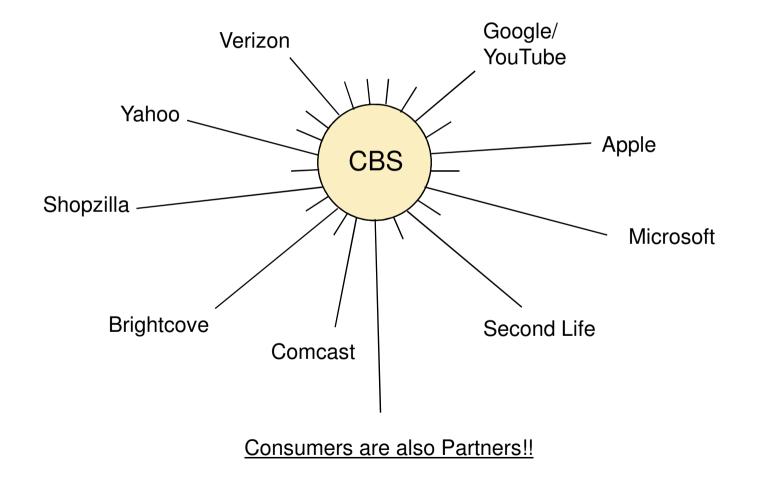
• CBS is trying to maximize the use of their content



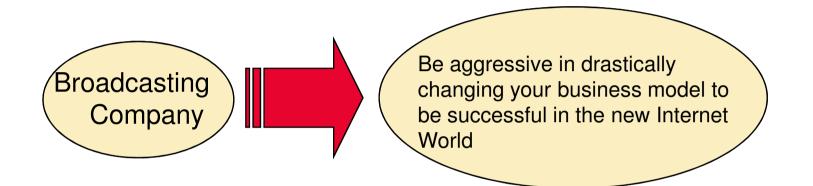
- Regular TV (Terrestrial)
- Cable TV
- > Satellite TV
- Broadcast distribution to Cellular Phones
- CBS Website
- > TV Program Website
- Video Portal Site
- Web Portal Site
- Video Search Site
- Forwarding of TV programs by individuals
 - +
- > SNS
- Shopping
- ➤ Game
- etc.

U.S. Broadcasting Companies are Aggressive – ¹¹ CBS Case

CBS has more than 60 partnership to implement its Internet strategy



What Broadcasting Companies Need to Consider



- Don't delay making the change Don't fall behind the Internet companies
- Aggressively resolve any copyright issues and promote deregulation where needed
- Partner with Internet companies where necessary
- Consider partnering with U.S.
 companies that own content

- Don't rely on today's success model which will go away soon
- However, do not give away everything to the Internet companies
- Now may be a good chance to deliver U.S. content in Japan/Germany

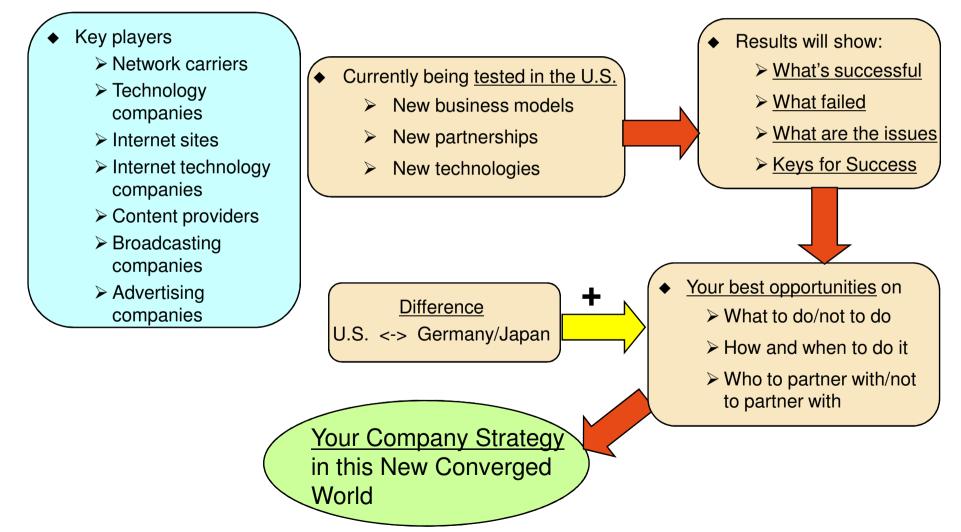
What Network Carriers Need to Consider with NGN

N G N needs to accommodate the requirements of the advanced applications proliferating in the U.S. U.S. Japan Strong move to Delay due to various Broadcast/Internet Integration obstacles Application/ Distribution of TV programs > Copyright **Business Model** via Internet ➤ Regulation > Start up companies such ➢ Reluctant Media as YouTube > Intra-corporate broadband communication Not enough input Strong Input High speed network infrastructure including the new NGN implementation Network Build new network 30 million users planned Infrastructure by 2010 platform for future > SLA advanced users Security

It will contribute to Global Acceptance of NGN

What German/Japanese Companies Need to Consider

There are many things you can <u>learn from what's happening in the U.S.</u>



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