



# Connected Life Market Watch

## Transitions in Consumer Video Entertainment in China

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# Connected Life Market Watch Program: Transitions in Consumer Video Entertainment

## Scope

- United States
- United Kingdom
- Brazil
- China
- Germany

## Approach

### Market Watch Program

- Cisco IBSG's recurring primary research program
- Monitors changing consumer behavior to identify key market transitions

### Methodology

- Broadband consumers
- 20-minute online survey
- 5,500 total respondents
- December 2009 – January 2010

### Segmentation

- Used proprietary scoring methodologies to identify consumer “technology” segments

Source: Cisco IBSG Connected Life Market Watch, 2010

# Connected Life Market Watch Program

## China Nationwide Survey

Results of this report were based on nationwide survey of 1,500 broadband customers in following areas:



Source: Cisco IBSG, 2010

# Agenda

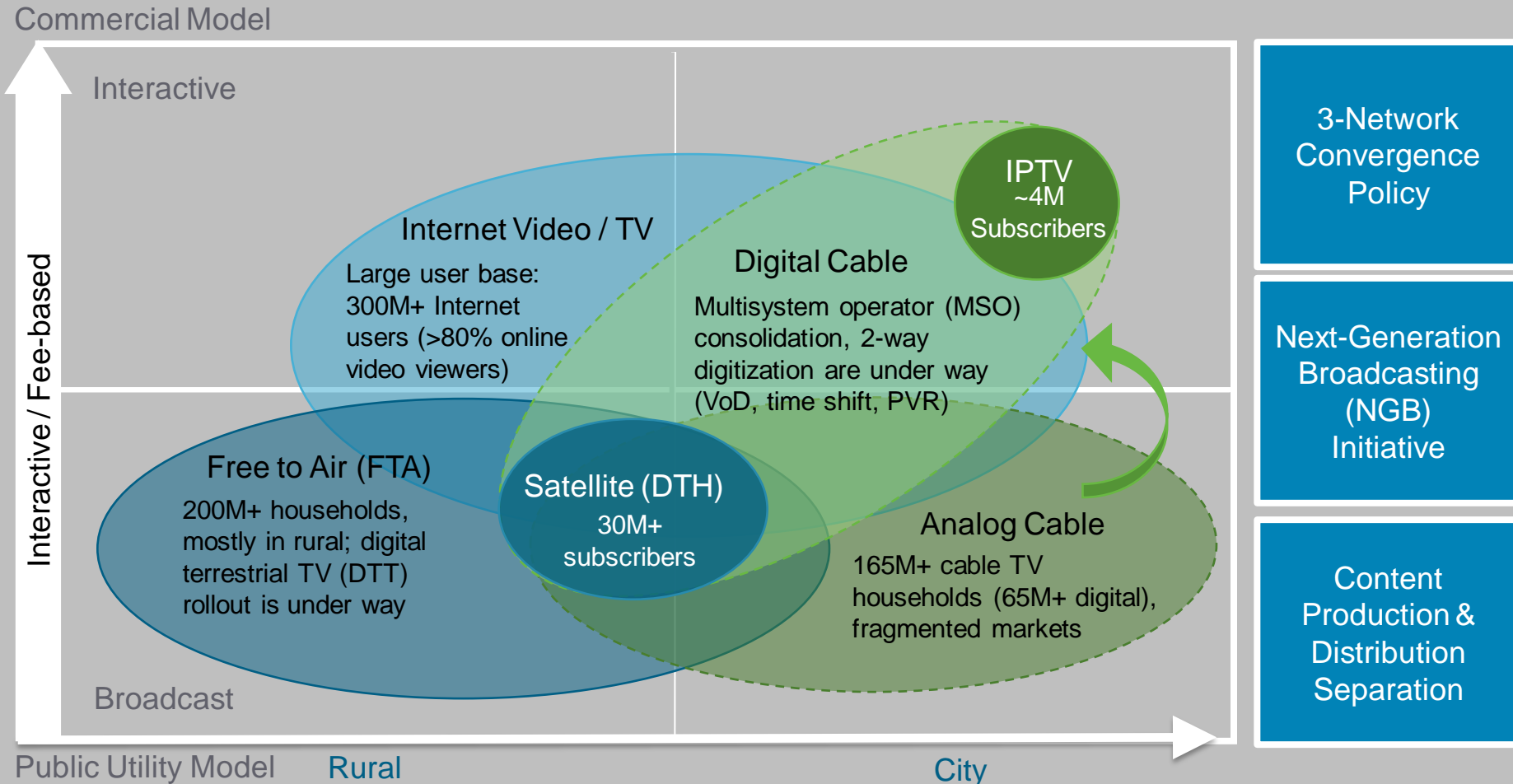
- China Video Market Overview
- Key Facts
- Key Transitions: Consumers Taking Control
- Impact of Transitions in Consumer Video
- Trends to Watch
- Service Provider Opportunities



# China Video Market Overview

# China Video Market Landscape

## Massive Subscriber Base, Mixed Business Models, Cable-Dominated



Source: Cisco IBSG, 2010

# Competition in Video Market Is “Controlled”

	Cable TV	IPTV	Internet TV	DTT / Satellite TV
<b>Subscriber Base (Millions)</b>	167M	4M	300M (Internet users)	200M / 30M
<b>Main Coverage</b>	City	City	City + Rural	Rural
<b>Competitive Advantages</b>	<ul style="list-style-type: none"> <li>Massive base</li> <li>SARFT* regulatory support</li> <li>NGB, convergence initiatives</li> </ul>	<ul style="list-style-type: none"> <li>Telco has strong capital and execution</li> <li>Convergence initiatives (lifting licensing &amp; content issues)</li> </ul>	<ul style="list-style-type: none"> <li>Massive base</li> <li>Pervasive coverage</li> <li>Differentiated content</li> <li>Consumer electronics support</li> </ul>	<ul style="list-style-type: none"> <li>These remain a public utility model serving rural areas</li> </ul>
<b>Competitive Disadvantages</b>	<ul style="list-style-type: none"> <li>Fragmented market</li> <li>Low ARPU</li> <li>Complex MSO holding structure</li> <li>Capital constraints</li> <li>Weak execution</li> </ul>	<ul style="list-style-type: none"> <li>Small base (due to licensing &amp; content)</li> <li>Low ARPU</li> <li>Bandwidth constraints in some cities</li> </ul>	<ul style="list-style-type: none"> <li>Regulated</li> <li>High running cost (bandwidth leasing)</li> <li>Lack of viable commercial models</li> </ul>	

Source: Cisco IBSG, 2010

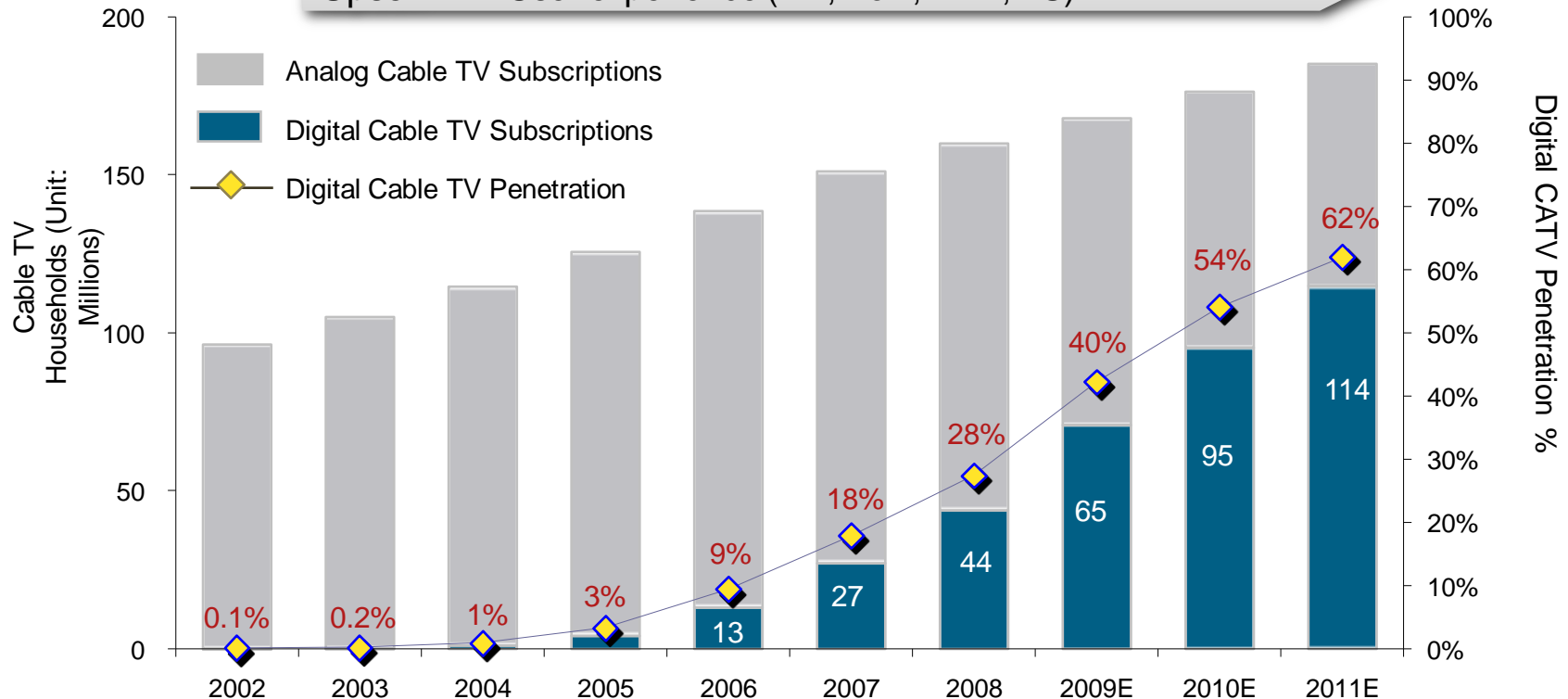
\*State Administration of Radio, Film and Television

# Cable TV Transformation Driven by Consolidation and Move to Digital

## Cable TV Digitization Path

MSO Consolidation • 2,000+ MSOs → 300+ MSOs → 31 provincial networks → regional networks  
• 1-way digitization “Pingyi”



ARPU Upsell • Rural coverage, 2-way upgrade (80% by 2012)  
• User experience (iTV, VoD, PVR, TS)



Sources: Guideline, Cisco IBSG, 2010



# Cable TV Consumer Spending Is Small— Only 25% of Broadband Spending

	China 		United States 	
	Cable TV	Broadband	Cable TV	Broadband
End of 2009				
ARPU(US\$)	\$2-3	\$10	\$75	\$45
Subscribers (millions)	167 M	95 M	53M	80M
Penetration (% of total households)	43%	25%	58%	70%
Digital Subscribers	65 M		40M	
Digitization Rate (% of total CATV subscribers)	42%		61%	
Cable Broadband Subscribers		3 M		41M
Cable BB Market Share (% of total BB subscribers)		3%		51%

Broadband ARPU =  
4x cable TV

Broadband still has  
plenty of room to  
grow

Government agenda:  
complete digitization by  
2015

Cable broadband  
market share is  
small

Sources: Cisco IBSG, Comcast, 2010

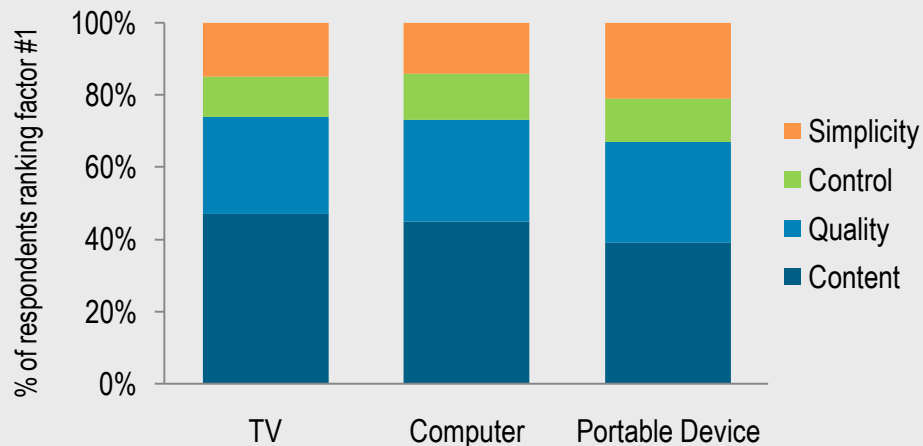


# Key Facts

# Diversified Content Is Key

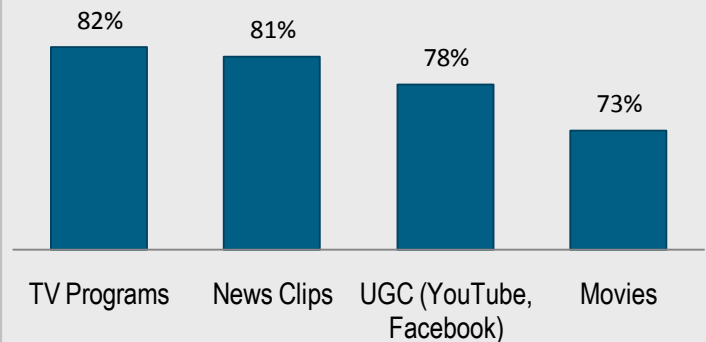
- **Content** remains most important part of the experience, followed by **picture quality**, as consumers explore new devices and new video sources
- Consumers have high interest in viewing video over Internet in almost **all content types**, including TV programs, news, user-generated video, and movies

**Most Important Attributes to Video Experience**  
Factors ranked #1, by device



Source: Cisco IBSG Connected Life Market Watch, 2010

**Interest in Viewing Internet Video on TV**  
By content type



Base: China broadband consumers

# Broadband Consumers Are Investing Heavily in Home Video Experience

Average broadband household:

- 1.8 TVs, including 0.9 HDTV
- Spends ¥14 per month for pay-TV services
- Spends another ¥34 on other forms of video watched at home

## China Broadband Consumers

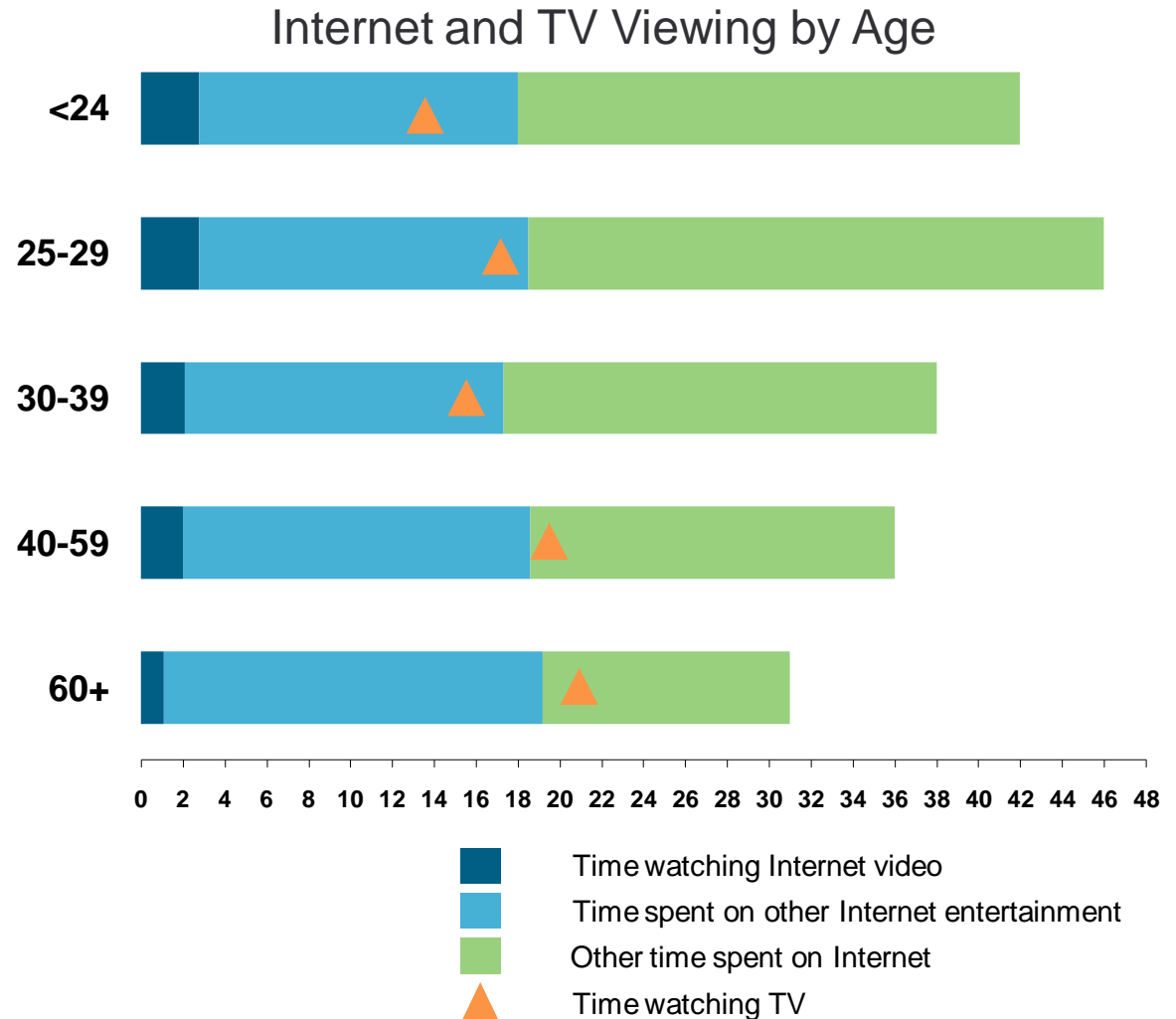
Subscribe to Cable/Satellite/Telco TV	90%
Subscribe to premium movies	44%
Subscribe to TV VoD service	50%
Have HDTV	72%
Have DVR	26%
Have gaming console with DVD functionality	12%



Source: Cisco IBSG Connected Life Market Watch, 2010

# Consumers Spend More Time on Internet Than Watching TV

- Consumers spend more time in front of computer screen than TV screen
- Entertainment-focused Internet time slightly exceeds TV time for those under 40



Source: Cisco IBSG Connected Life Market Watch 2010

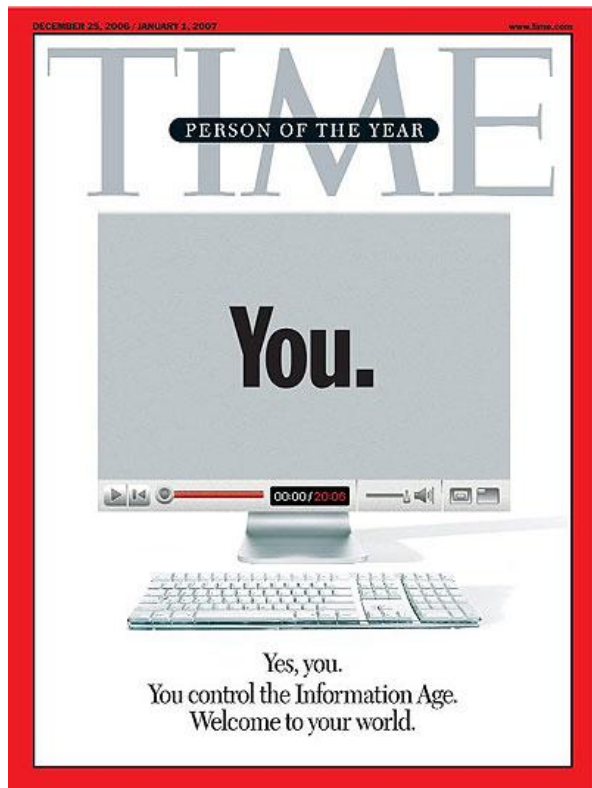
Base: China broadband subscribers



# Key Transitions: Consumers Taking Control

# Consumers Are Taking Control of Video Entertainment Experience

## 2006 *TIME* Magazine Person of the Year



Consumers  
got the  
message

- DVRs taught users they could take control of video experience
- This increased user control is driving four interrelated trends:
  1. Time shifting
  2. Device shifting
  3. Increased video sourcing options (e.g., Internet)
  4. Increased spending control
- Together, these are part of larger, **viewer-controlled viewing** trend

Source: *Time* Magazine, 2006; Cisco IBSG Connected Life Market Watch, 2010

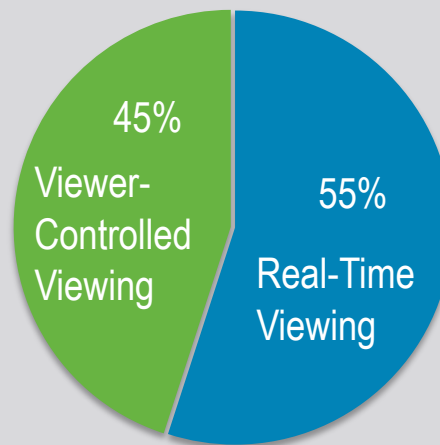
# Traditional TV Experience Is Changing

## Consumers Are No Longer Making Appointments with Their TVs

### Real-Time vs. Controlled Viewing

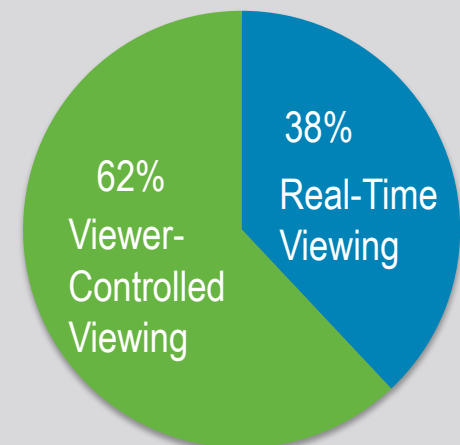
- Consumers are changing their usage patterns
- They are no longer making appointments with their TV
- They want to watch their video entertainment at the time they choose

**Average Consumers**  
(Percentage of Time Spent)



Base: China broadband consumers

**DVR Owners**  
(Percentage of Time Spent)



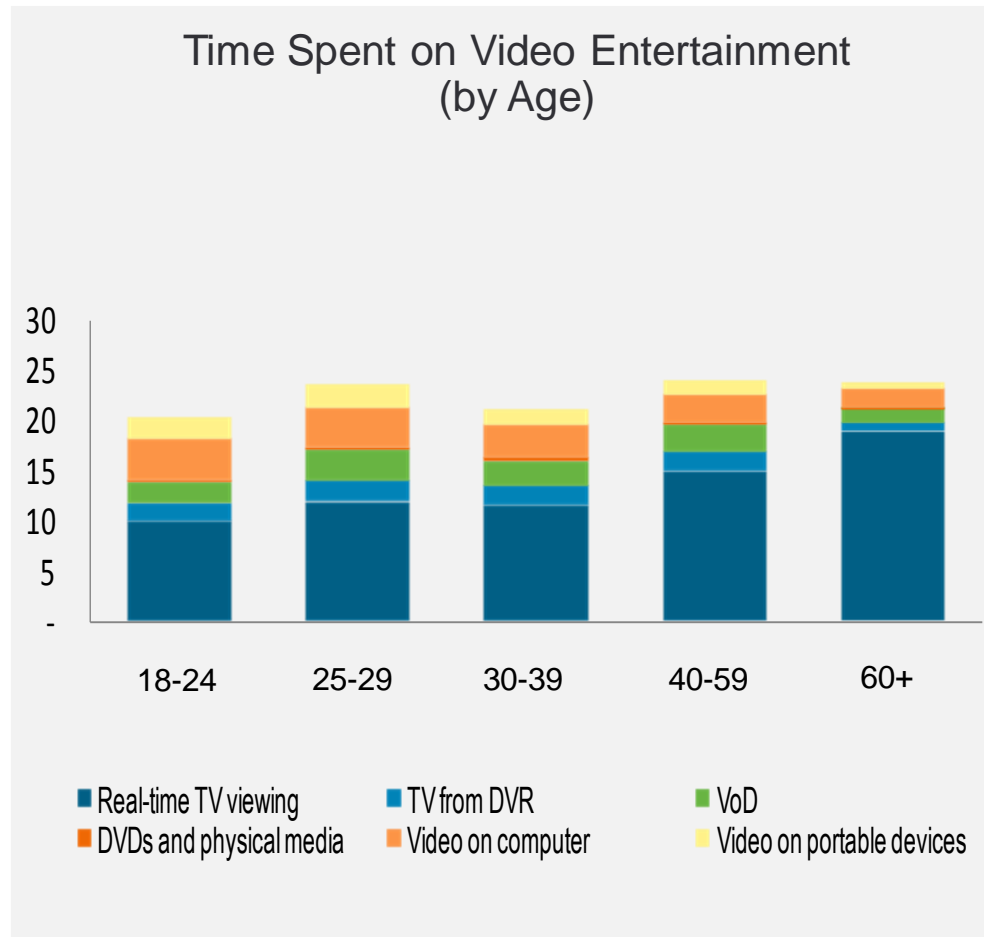
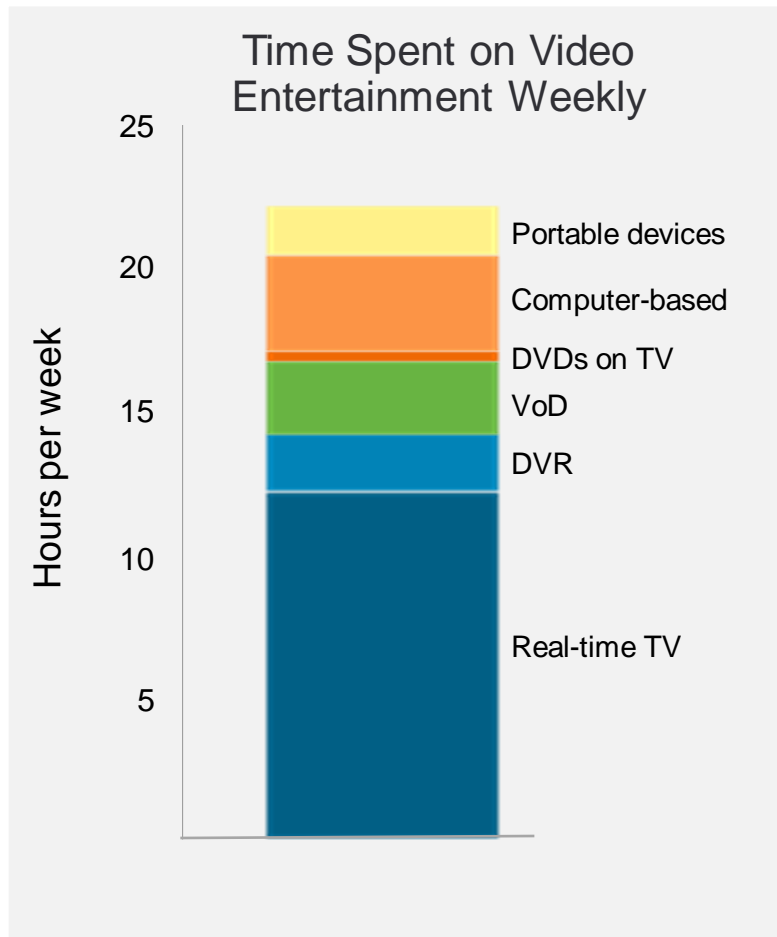
Base: China broadband consumers with DVRs

Source: Cisco IBSG Connected Life Market Watch, 2010



# TV-Content Walled Garden Is Cracking

## Consumers Are Supplementing Linear TV with Other Video



Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China broadband consumers

# Consumers Are More Aware of Choices in Video Entertainment

In an average month,

- 90% of broadband consumers watch TV programs on Internet
- Broadband consumers watch more than 8 hours of video from Internet
- 59% connect computer to TV
- Another 67% watch video on their mobile phones
- 12% of broadband consumers use their gaming consoles to watch DVDs
- 9% rent movies online from their gaming console

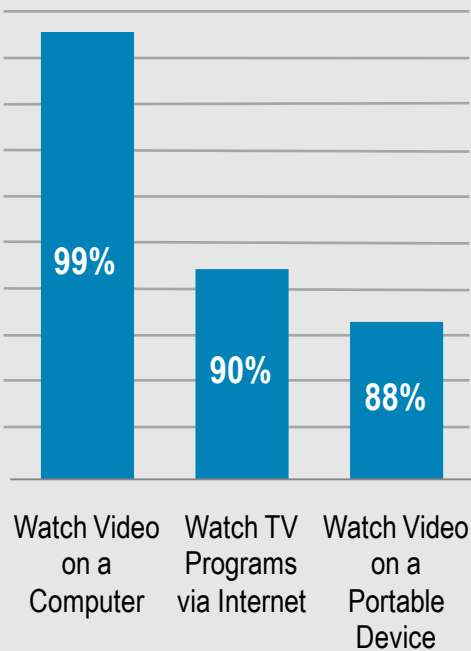


Source: Cisco IBSG Connected Life Market Watch, 2010

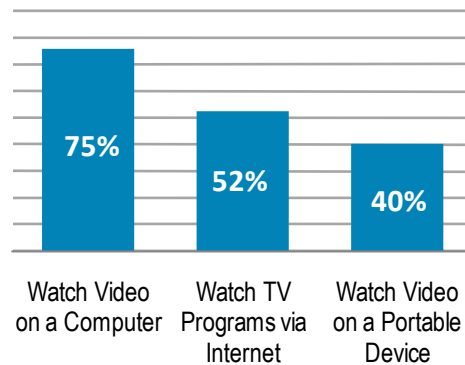
# Consumers Are Exploring Alternative Video Entertainment

## Percentage of Broadband Users that Use Alternative Video Sources

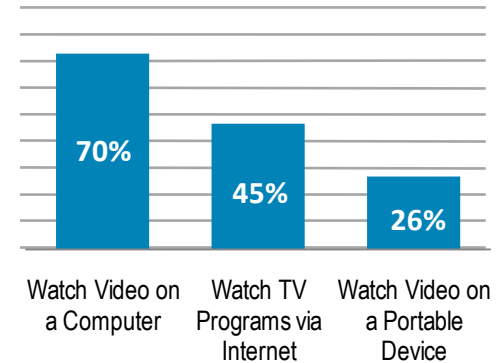
### China



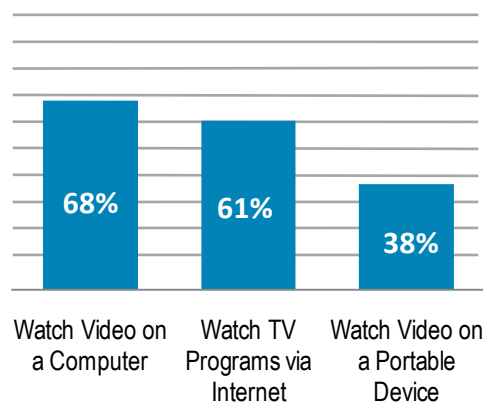
### United States



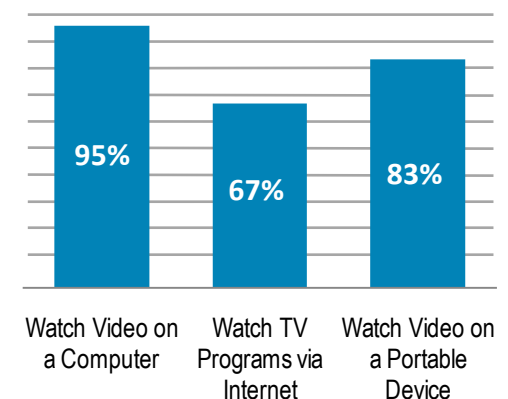
### Germany



### United Kingdom



### Brazil



Source: Cisco IBSG Connected Life Market Watch, 2010

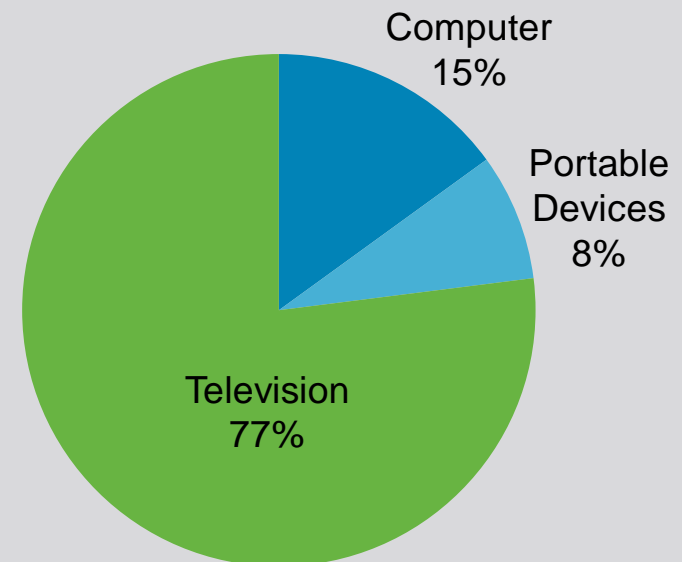
# Today, Most Video Entertainment Is Via the TV . . .

## TV Is Consumers' Preferred Device

- While broadband consumers in China are exploring video entertainment on other devices, they still watch most of their video on TV
- Average China broadband household has 1.8 TVs
- 71% of Chinese broadband consumers have high-definition television at home

### Device Used To Watch Video Entertainment

as portion of total time spent viewing video



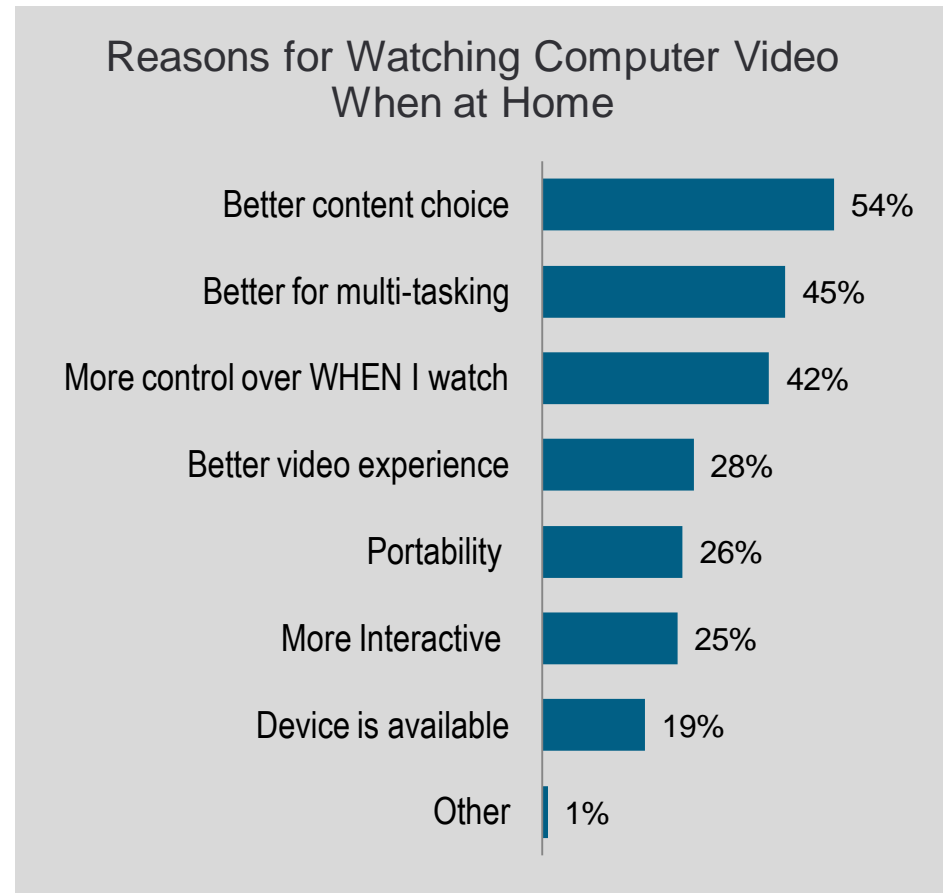
Source: Cisco IBSG Connected Life Market 2010

Base: China broadband subscribers

# ... Yet Consumers Often Choose To Watch Video on Different Device

## Many Consumers Watch Video on Their Computers To Time Shift and Multi-task

- 99% of respondents watch video on computer an average of 3½ hours each week
  - 51% takes place at home
  - 100% of 18- to 24-year-olds watch video on a computer; average 4 hours and 13 minutes per week
- 88% of respondents watch video using portable devices; average nearly 2 hours per week.
  - 35% takes place at home



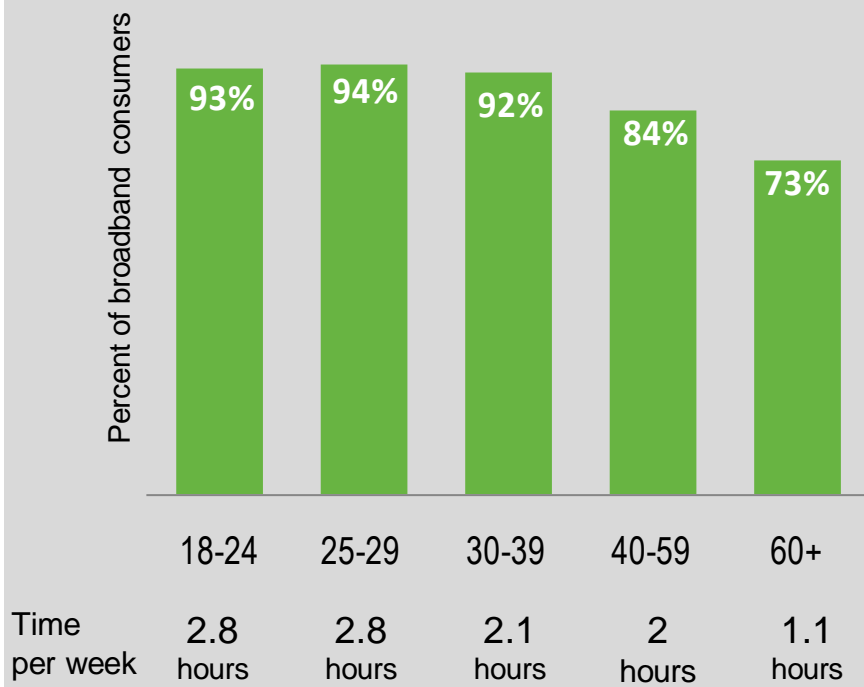
Source: IBSG Connected Life Market Watch, 2010

Base: Watch video on computer at home

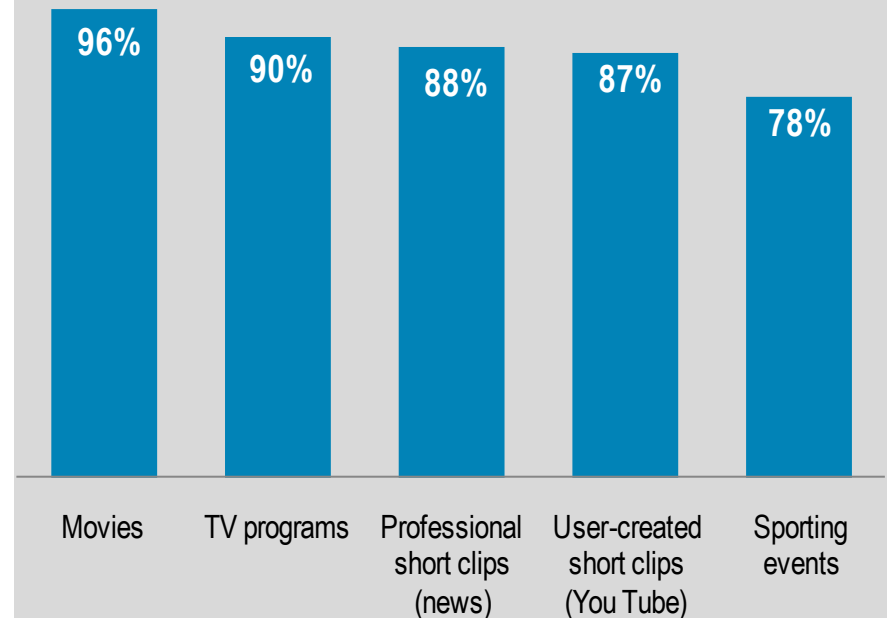
# Consumers of All Ages Watch All Types of Internet Video Content

## Internet Video Is No Longer Defined Only by Young People Watching YouTube

Watching Internet Video (by Age)



Watching Internet Video (by Content)



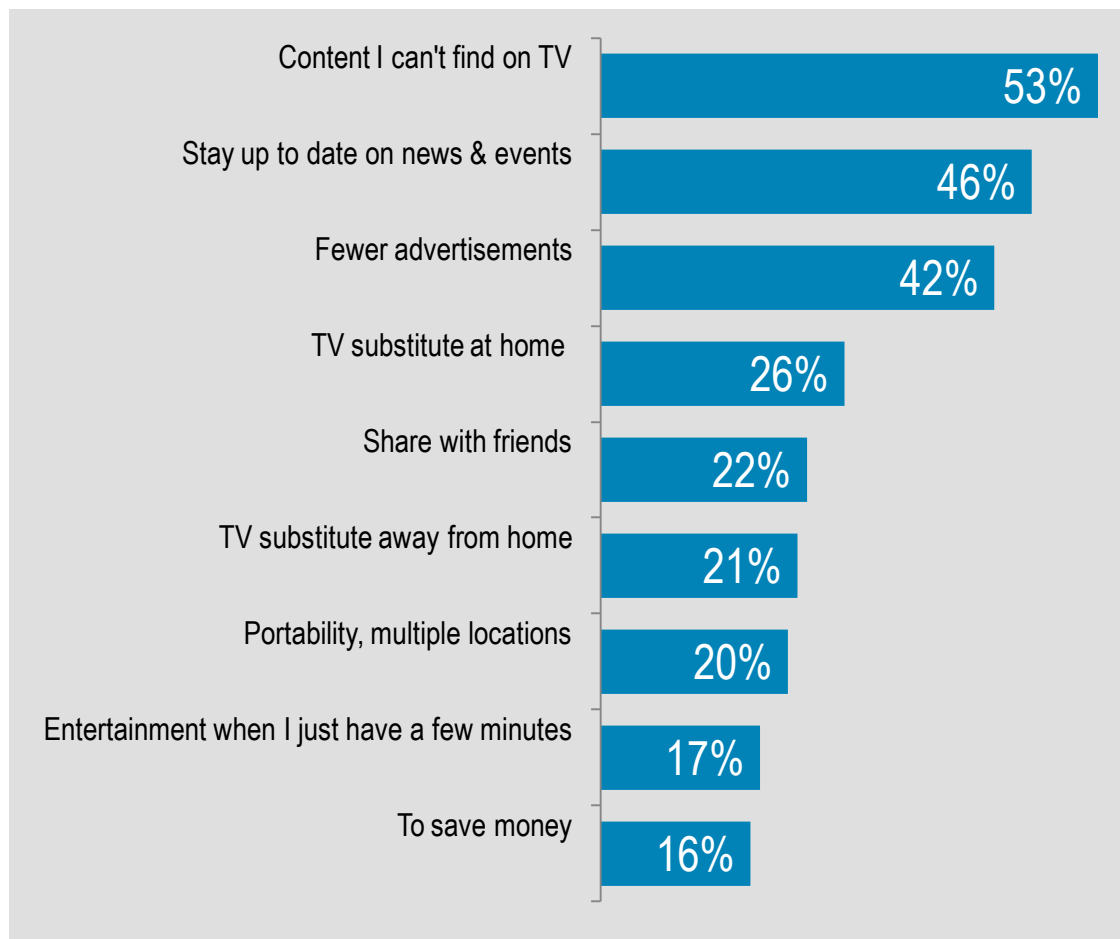
Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China broadband subscribers

# Internet Video Has Different Value Proposition from Traditional TV

## Reasons for Watching / Downloading Online Video

- **Choice, control, and convenience** are driving Internet TV usage
- “Snacking” and new non-TV content are key drivers



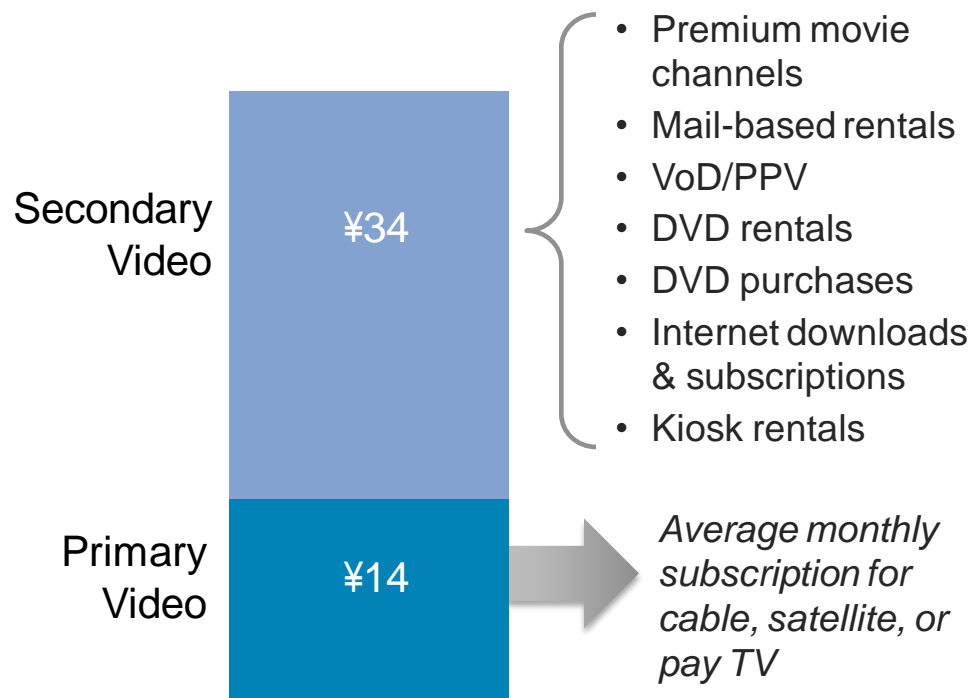
Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China broadband subscribers

# About Two-Thirds of Consumer Video Spending Is for Supplemental Options

- Consumers supplement their basic TV experience with as many as 6 different sources of video
- Consumers can exert more immediate control over these *a la carte* options
  - They have flexibility and can select the secondary video option that best suits the given situation
  - In many cases, they can adjust their spending incrementally without entirely abandoning the service

## China BB Consumers Monthly Video Spending



Source: Cisco IBSG Connected Life Market Watch, 2010

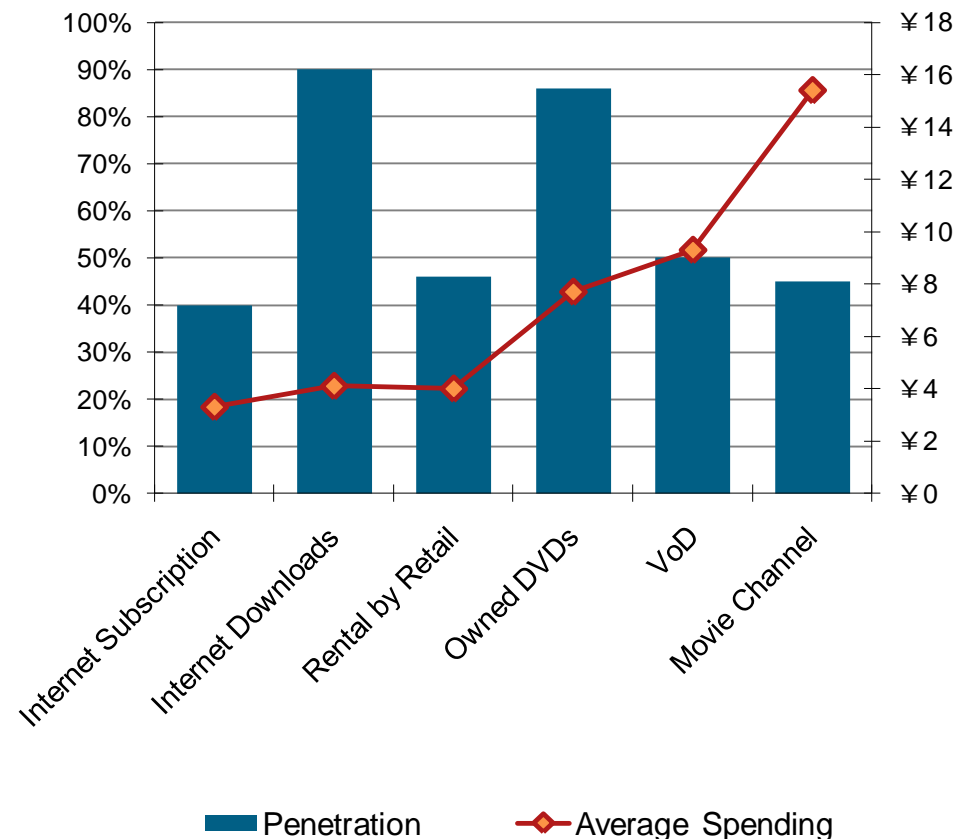
Base: China broadband subscribers



# Secondary Video Market Is Fragmented, With Opportunity for New Entrants

- Though Internet downloads represent the highest adoption, they do not generate commensurate revenue
- Internet subscriptions have low adoption and low revenue contribution
- Consumers prefer to buy rather than rent DVDs
- Though use of VoDs and premium movie subscriptions is moderate, it has revenue impact

**Penetration and Spending in Secondary Video Market, 2010**



Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China. broadband subscribers



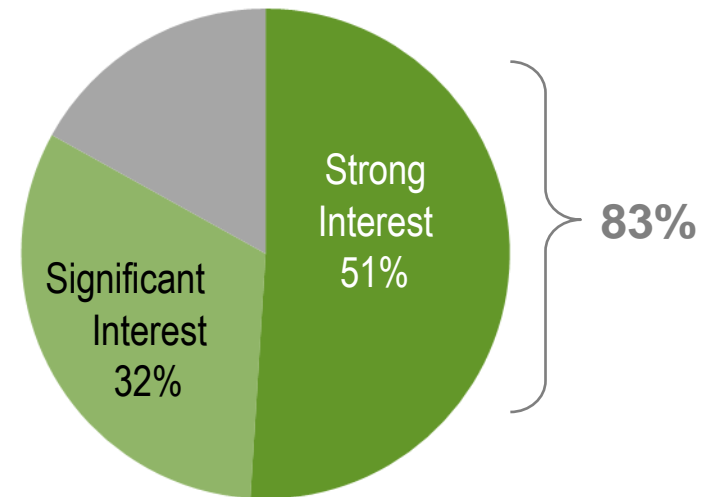
# Impact of Transitions in Consumer Video

# Consumers Are Ready for New TV Services Such as *Web Video to TV*

## Service Concept: *Web Video to TV*

- Simple and easy to watch different types of video available on Internet **on your TV** instead of on your computer
- Use TV's remote control to find and select program, movie, or clip from an Internet site and watch it directly on your TV
- Enabled through device attached to TV; separate from your TV service
- Still need TV service to access television channels, video on demand, and other services offered by TV service provider

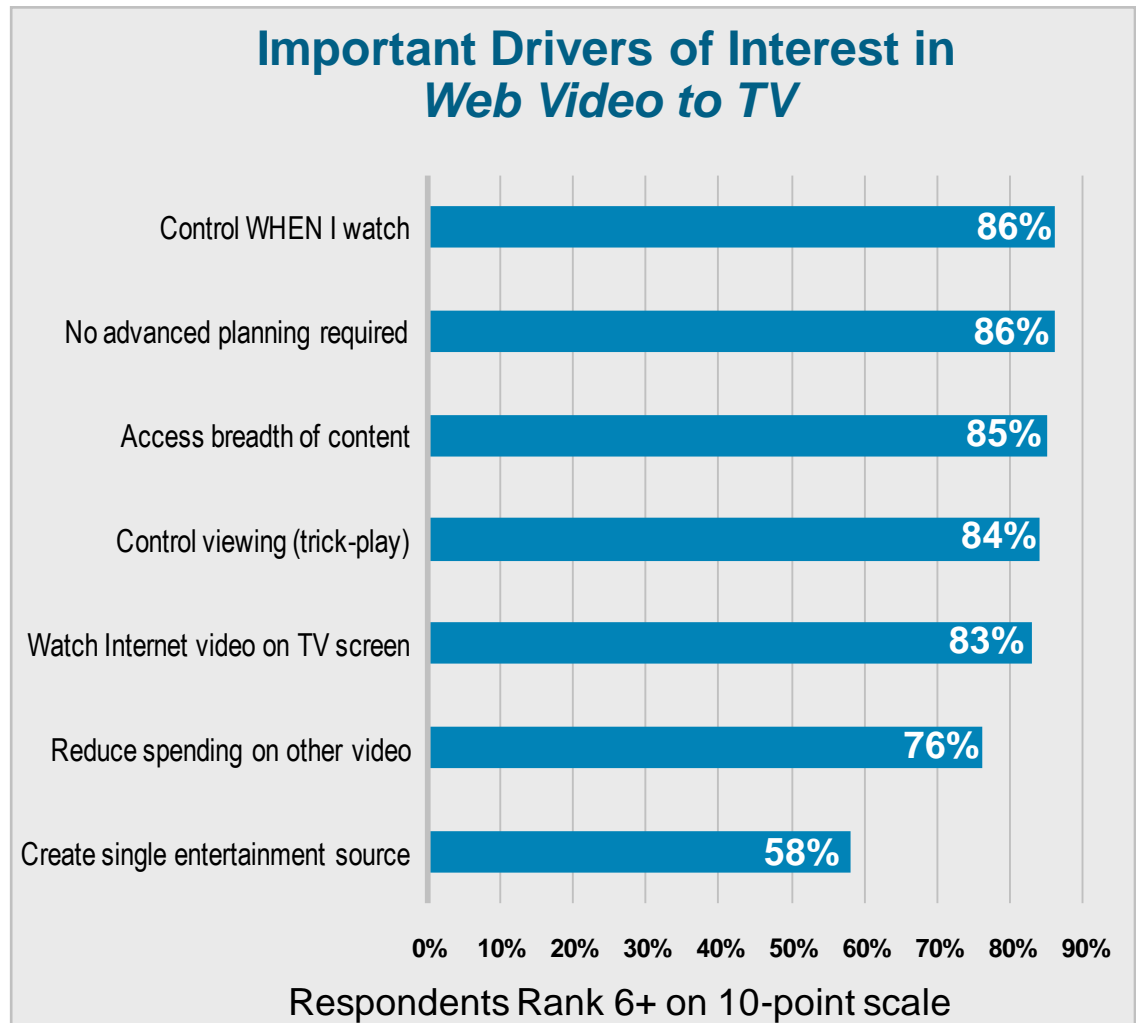
## Consumer Interest in Service that Simply & Easily Enables Internet Video on TV



Q: How interested would you be in this offering, if it were priced at a level you consider reasonable?

# Web Video to TV Service Would Address Many Consumer Pain Points

- Moving Internet video to TV is important, but not only driver
- Consumers want control of when they watch their video entertainment
- *Web video to TV* addresses many other consumer pain points, from access, to content, to total spending



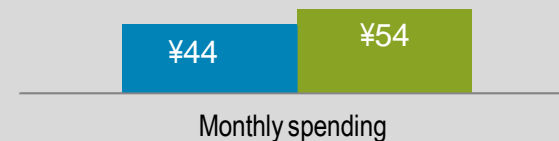
Source: Cisco IBSG Connected Life Market Watch, 2010

Base: Any Interest in *Web Video to TV*

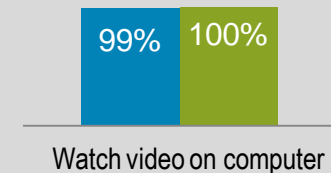
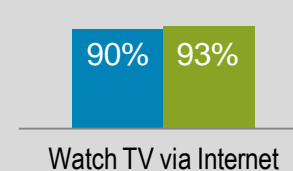
# Concept Attracts Average Consumers Who Want To Control TV Experience

## Profile of initial target segment for *Web Video to TV*

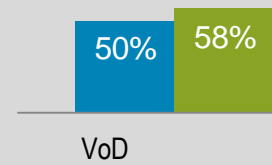
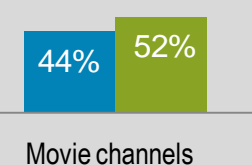
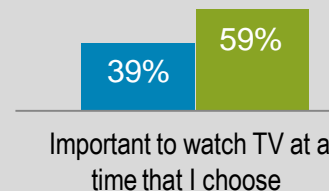
Have strong existing alternative TV behavior



Average TV usage and spending



Have strong interest in controlling their TV viewing



Average Respondent

Strong Interest in *Web Video to TV* (8-10)

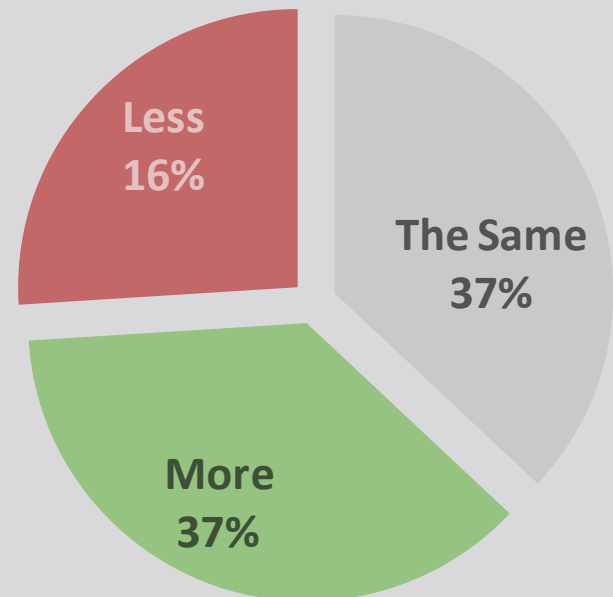
Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China broadband subscribers

# For Some Consumers, Internet Video Is Cannibalizing Traditional Linear TV

- 26% of consumers watch less TV since they began watching Internet TV
- 37% watch more TV programming on television, supporting theory that Internet can find new user bases and/or help keep users loyal
- There is more cannibalization among younger consumers
  - 35% of Internet TV watchers aged 18-24 say they watch less TV on TV since they began watching Internet TV

**Change in Consumer TV Time-Spend After Beginning To Watch Internet TV**



Q. Since you began watching TV programs on the Internet, do you spend *more*, *less*, or *the same* time watching TV programs on a television?

Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China Internet TV watchers

# Internet Video Could Threaten Core SP Businesses

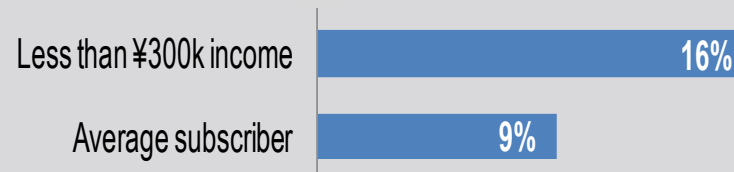
## Greatest Threat Is in Secondary Video, but New Alternative Services Could Touch Core SP Markets

If you had...

- **Free** access to *web video to TV*
- Easy ability to watch all Internet video content on your TV
- On-demand access to prime-time TV shows, but **not** your regular TV service or your TV lineup as it airs . . .

...Would you make any changes to your current TV service package?

### Potential To Cancel Pay-TV Service (Percentage of pay-TV subscribers who would cancel)



### Potential to Cancel Premium Movie Subscription (Percentage of premium movie channel subscribers who would cancel)



Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China broadband subscribers

# Evaluating the Long-Term Threat

## Will 20-Somethings' Attachment to Pay TV Change as They Age?

### Forecasting Future TV Behavior

#### Young Adults (18 – 30)

- Unmarried
- No children
- Living alone
- Early in financial independence

#### Aging (30+)

- Married, w/ children
- Financially stable
- Family needs
- Less time to follow trends



### What's Likely To Change

- More disposable income
- Investment in home technology
- Time spent at home
- Degree of “busy-ness”
- Household decisions are compromises based on interest and needs of multiple people

### What's Likely To Stay the Same

- General level of technology comfort
- Awareness of options
- Desire for control, choice, and convenience

### Market Evolution

- In the future, will these customers have the same options as in today's market?
- Will new options make it easier to source video from alternative sources and watch it at home on TV?

Source: Cisco IBSG Connected Life Market Watch, 2010





# Going Forward: Key Trends To Watch

# Trends To Watch: Moving Internet Video to the TV

Migration  
to TV

## 1 Consumer Electronics

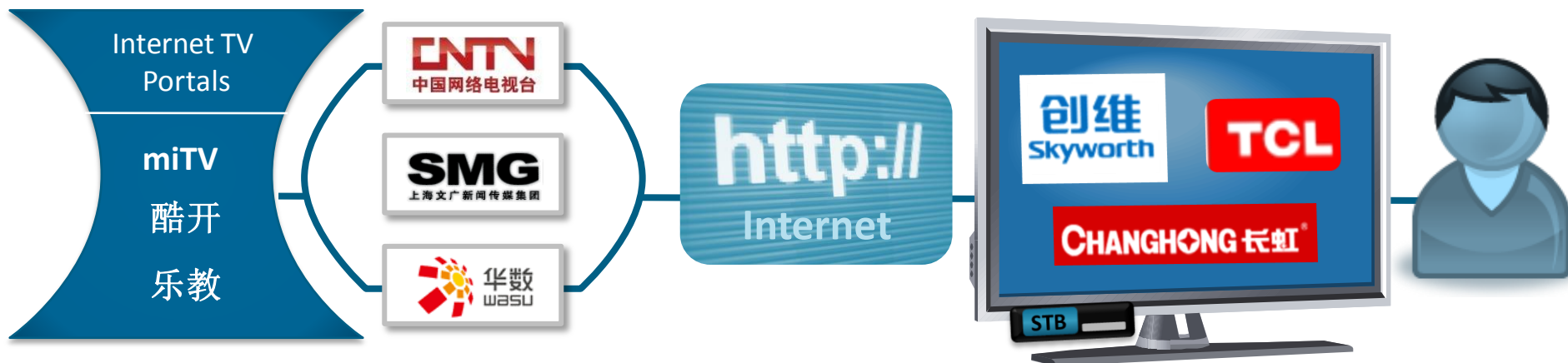
- Internet-enabled TVs will become standard (30% projected for 2010)
- TV manufacturers also have video content portals

## 2 Government Policy

- SARFT, Chinese regulator, issued 3 Internet TV content aggregation licenses in May 2010 to control distribution and security of content

## 3 Consumer Preference

- 59% of Chinese broadband customers have connected computer to TV
- Trend will accelerate as CE offers make it easier to access Internet video on TV

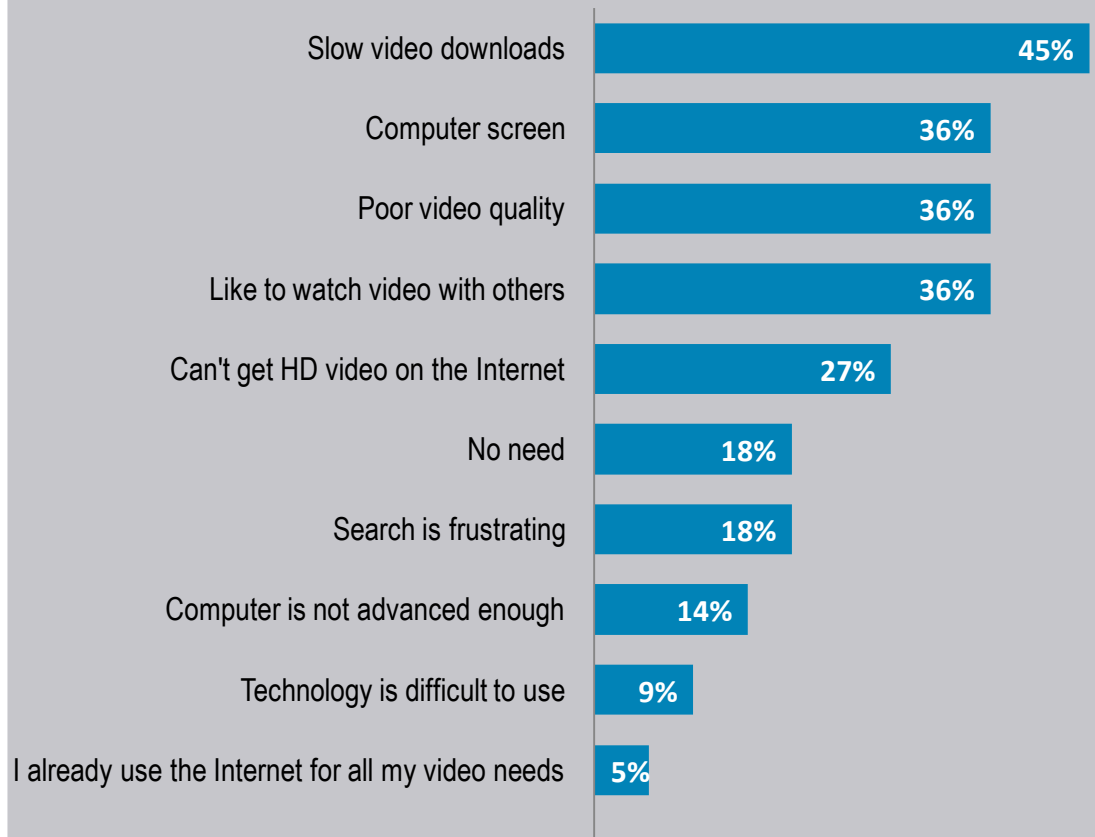


Source: [www.lmtw.com](http://www.lmtw.com), 2010

# Impact: Quality Improvements and TV Accessibility Could Boost Internet Video

- Major protections for traditional pay TV include **broadband access quality, screen preference, and video quality**
- The challenge is that these protections are not fully in the control of service providers
- Content distribution policy changes and technology developments can drastically impact consumer behavior

## Reasons Consumers Don't Watch More Video On the Internet



Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China broadband subscribers

# Trends To Watch: Introduce Social Behavior into TV

“TV is fundamentally a social experience, and the only reason people haven’t engaged socially with their TV screens to date is that they haven’t had a convenient way to do so.”  
—Forrester, August 2009

## 4 Potential Social TV Developments

Applications that....

- 1 Enhance a live group experience
- 2 Create a “virtual” group experience, watching TV with people in other locations
- 3 Foster interaction with the TV programming itself (decide plot lines, vote on reality winners)
- 4 Create a peer recommendation engine and commentary on viewing

## TV Viewing Behavior Is Complex

- People watch TV alone about half the time
- People multi-task while watching TV about 40% of the time

## The Value of Social TV Is Unclear to Today’s Consumer

- Only 5% say the desire to watch with others prevents them from watching more Internet TV
- 68% of broadband consumers, however, express interest in friend-to-friend social TV service

Source: Cisco IBSG Connected Life Market Watch, 2007, 2010; Forrester, 2009

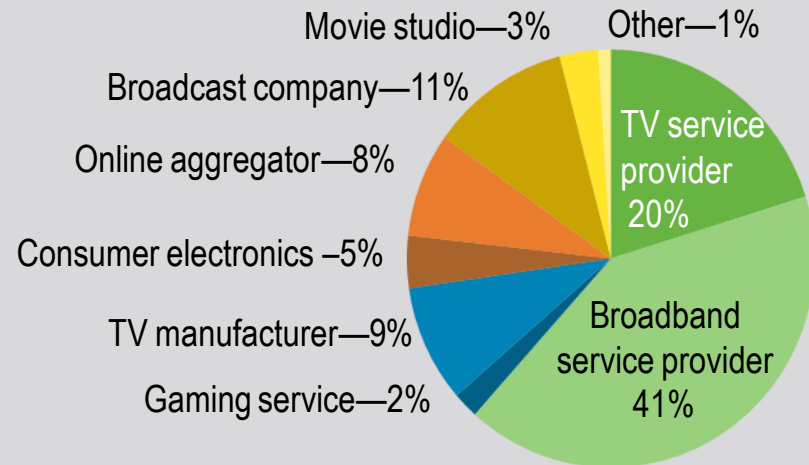


# Going Forward: Service Provider Opportunities

# SPs Are Strongly Positioned To Deliver Internet Video to Consumers

- 61% of consumers prefer an SP to deliver *web video to TV* service
- SPs can address consumers' concerns including up-front cost and quality
- SPs should work with retailers to optimize offers that require consumers to buy separate device
  - 48% would buy the enabling device at a consumer electronics or Internet retailer
- This preferred position could change quickly if any manufacturer, retailer, or aggregator launches aggressively

Preferred Provider for *Web Video to TV* in China



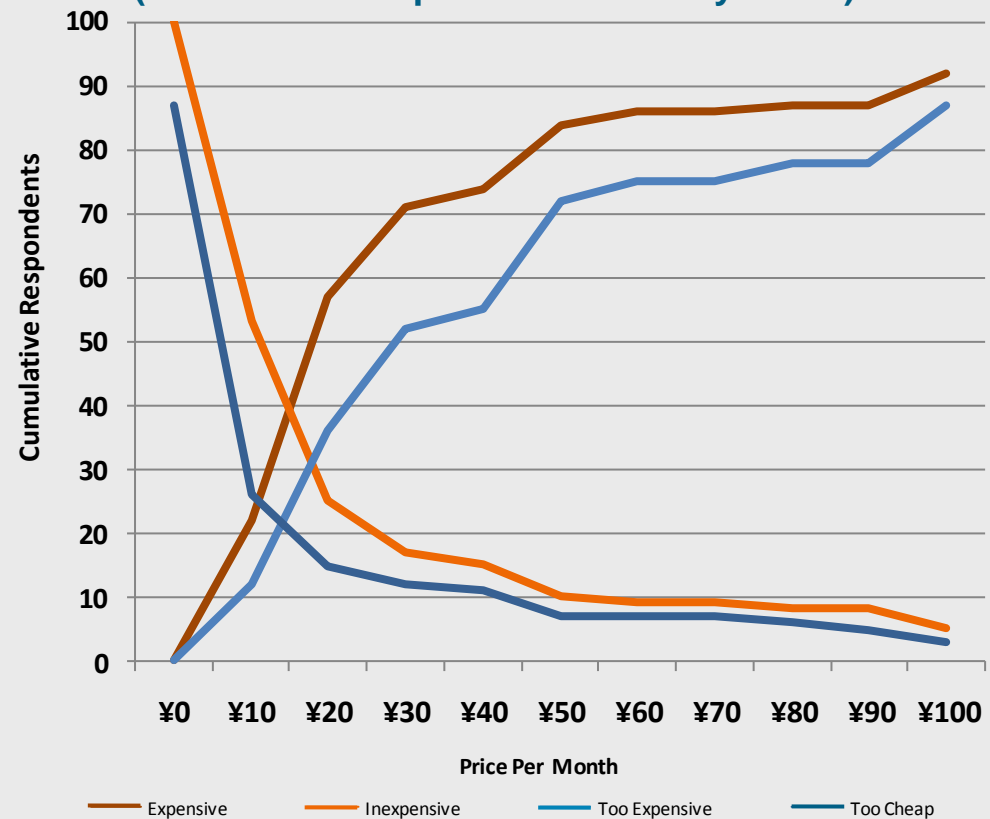
Base: Interest in *Web Video to TV*

Source: Cisco IBSG Connected Life Market Watch, 2010

# Service Providers Have Multiple Ways To Monetize Web-Video-to-TV Services

- Consumers are willing to pay directly for *web video to TV*
  - Range of acceptable pricing for interested consumers is between ¥11 - ¥18 per month
- Consumers would upgrade their broadband to gain access to *web video to TV*
  - 73% of broadband consumers would upgrade their broadband service for an additional ¥30 per month, if *web video to TV* were available for free with the premium broadband

**China Price Sensitivity: Web Video-to-TV Monthly Basic Service**  
(Van Westendorp Price Sensitivity Meter)



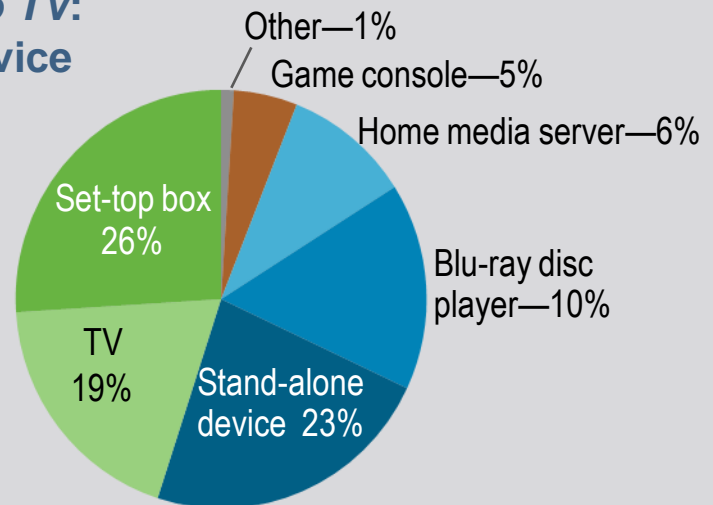
Source: Cisco IBSG Connected Life Market Watch, 2010

Base: China. broadband subscribers

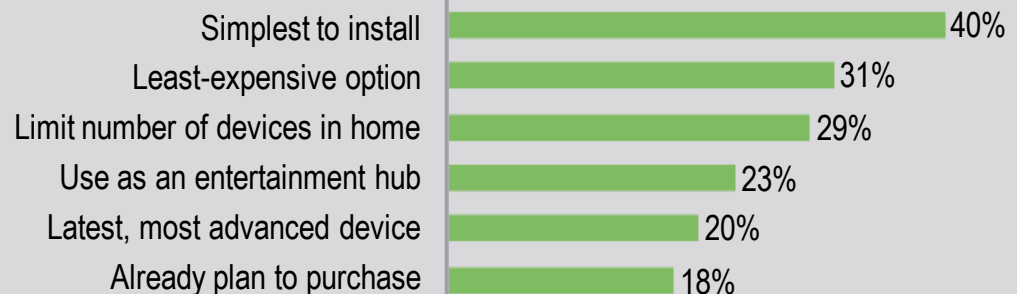
# CE Manufacturers Do Not Currently Have Edge in Device Choice

- Consumers prefer to enable their *web-video-to-TV* service through set-top boxes and other stand-alone service-specific devices
- Ease of installation was key, yet other factors were more important for 60% of respondents
- Cost and limiting number of devices in the home were also important

**Web Video to TV:  
Preferred Device**



**Device Selection Criteria (select all that apply)**



Source: Cisco IBSG Connected Life Market Watch, 2010

Base: Interest in *Web Video to TV*



# SPs Have Many Options in Developing Their Advanced Video Strategy

## Consumer Interest in Select Advanced Video Service Concepts

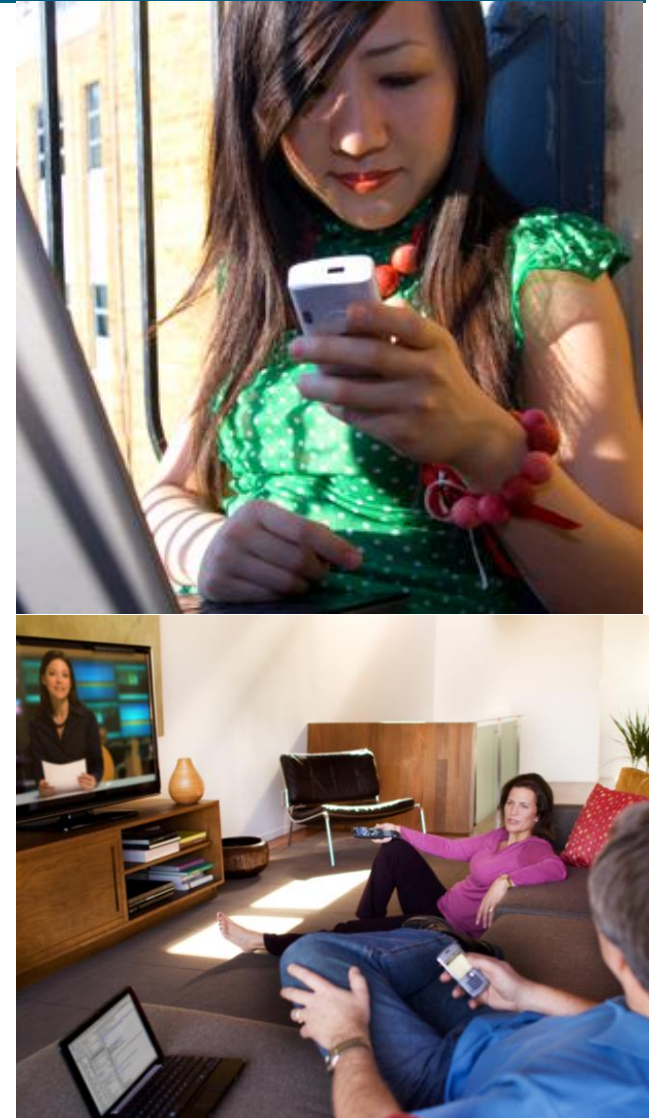
<b>Connected Home</b> Move Digital Content Around the Home	Service that makes it easy to move digital content such as photos, music, and videos <b>from</b> any TV or computer in the home <b>to</b> any other TV or computer in the home	<b>75%</b>
<b>Interactive TV</b> Retrieve More Info	Feature that enables you to use your TV to retrieve information and videos about the program you are watching, while you are watching it	<b>68%</b>
<b>Internet Widgets</b>	Service that provides quick access to a selection of Internet sites directly from your TV	<b>67%</b>
<b>Select Camera Angles</b>	Feature that enables you to choose from different camera angles to view your show	<b>66%</b>
<b>Social TV</b> Friend-to-Friend Chat	"Friend-to-Friend TV" feature that enables you to invite friends to participate in interactive chat sessions while you watch TV and to share the same viewing experience	<b>61%</b>

Source: Cisco IBSG Connected Life Market Watch, 2010

Consumers rating interest 6+ on a 10-point scale

# Service Provider Next Steps: Preparing for Video Disruption

- Consumer video entertainment is poised for significant disruption
- SPs are preferred provider of video entertainment
- To capture secondary video opportunity, SPs can:
  1. Promote VoD and premium channels more aggressively
  2. Develop services, such as *web video to TV*, that provide consumers with more control
  3. Collaborate with ecosystem partners to stay ahead of changes in the video experience, such as interactivity and TV-based Internet access



Source: Cisco IBSG Connected Life Market Watch, 2010



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