

Attachment 3



FTTP Feasibility Study
for
The City of Beverly Hills

Final Report

November 2014

Uptown Services, LLC
Dave Stockton & Neil Shaw, Principals

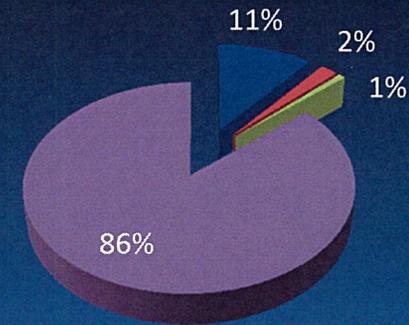
Market Assessment
Current Broadband Services Usage

- ◆ Area of Interest: Universe of $\approx 15,000$ households (HHs)
 - ❖ Total sample size of 250 respondents
 - ❖ 95% Confidence Interval with ± 6.15 sample error)
- ◆ Results weighted to reflect Beverly Hills actual age distribution from 2010 Census data.
- ◆ Respondents screened to ensure
 - ❖ Decision-maker for telecommunications and entertainment services in the home
 - ❖ Respondents with immediate family members employed by any of the following were excluded:
 - The City of Beverly Hills
 - AT&T
 - Time Warner Cable

INTERNET SERVICE PURCHASING BEHAVIOR

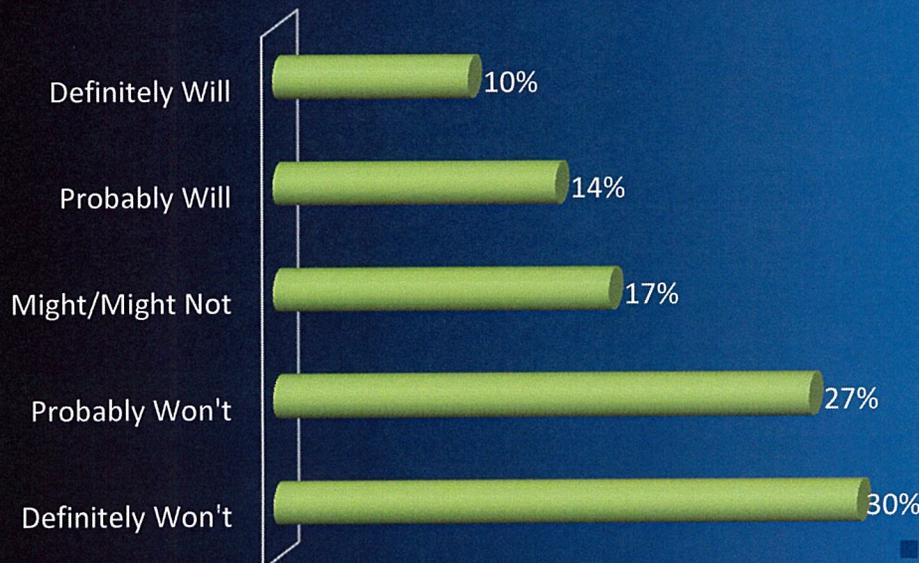
- ◆ 86% of Beverly Hills households use the Internet at home
- ◆ Cable Modem and DSL have the vast majority of market share at 94%

Incidence of Internet Households

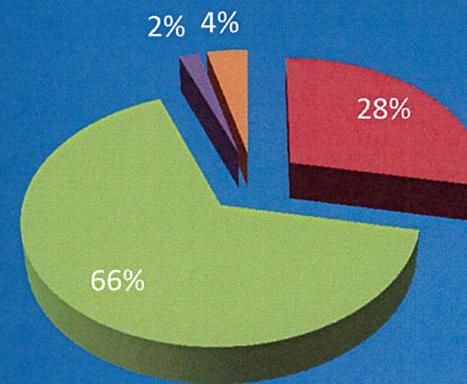


- No PC
- PC without Internet
- Dial Up
- Broadband

Q19: "How likely are you to upgrade your Internet service speed..."



Internet Market Share (Households)

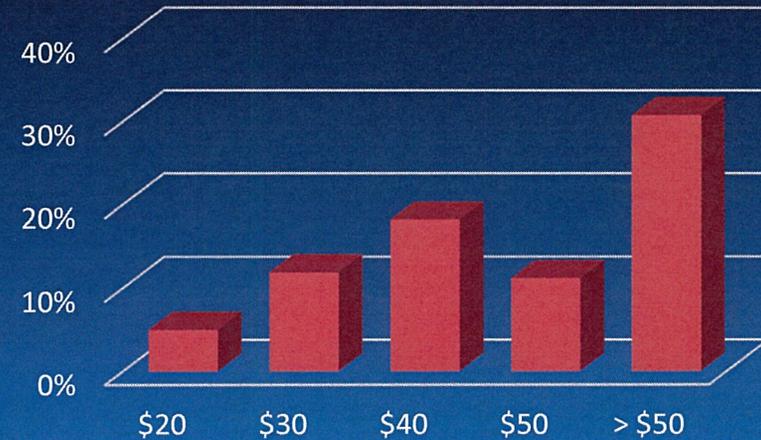


- Dial Up
- DSL
- Cable Modem
- Satellite
- Other

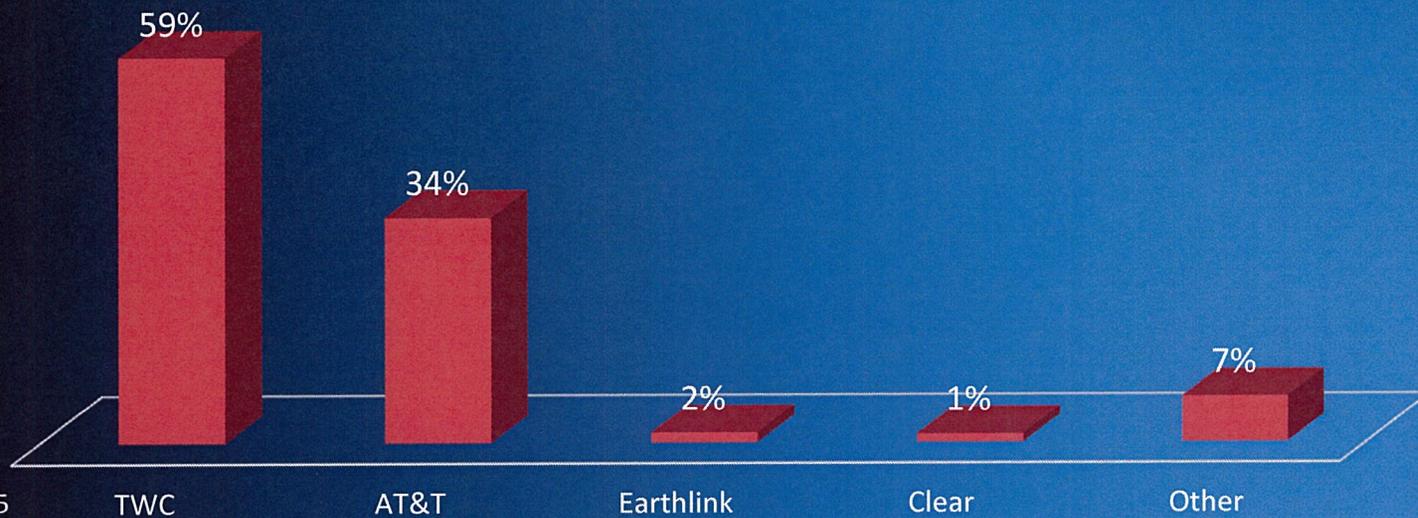
INTERNET SERVICE PURCHASING BEHAVIOR

- ◆ TWC and AT&T are the only two ISPs with material market share in Beverly Hills
- ◆ *Stated* average monthly Internet spend is \$39 per household

Monthly Internet Spend



Internet Access Provider

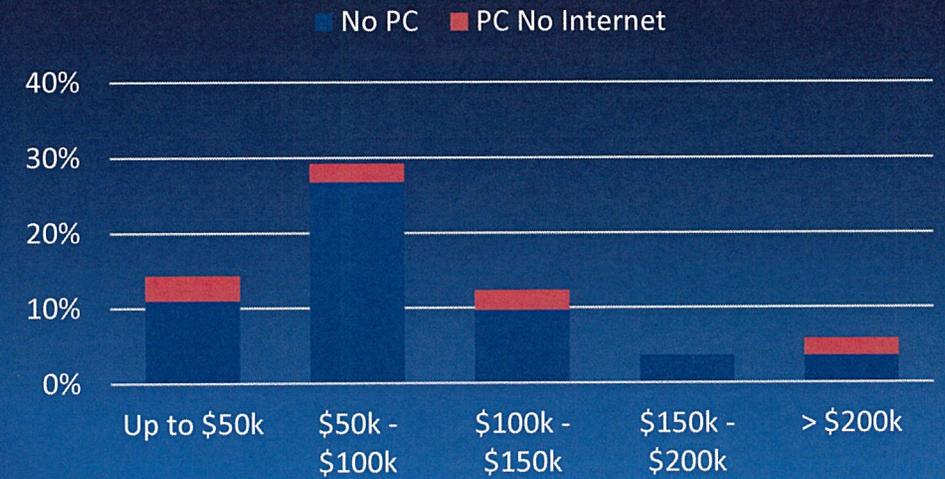




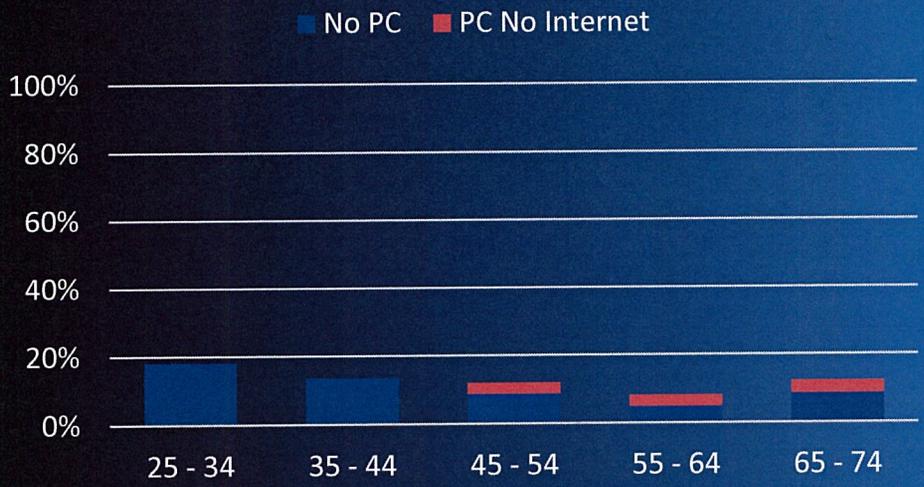
INTERNET USAGE BY HOUSEHOLD DEMOGRAPHIC

- ◆ The presence of a PC and use of Internet in the home drops off at lower income levels (non-pays)
- ◆ Internet usage is prevalent across all age groups

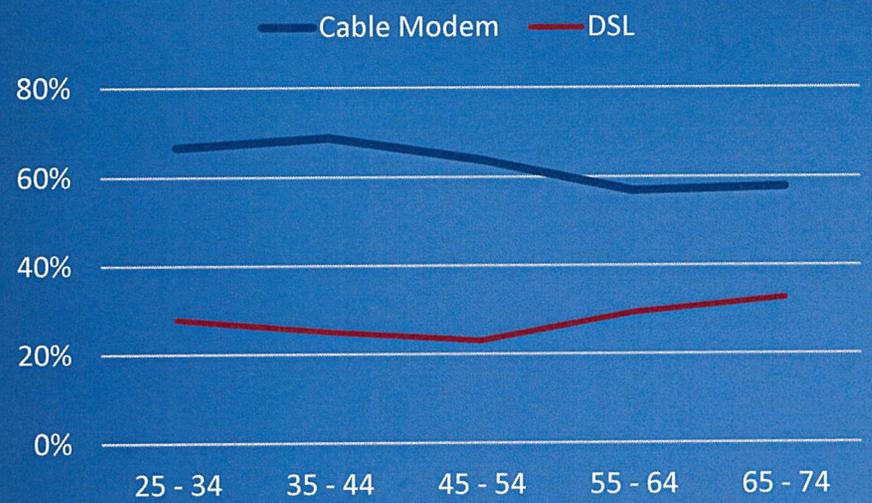
Incidence of No PC/No Internet by Income



Incidence of No PC/No Internet by Age

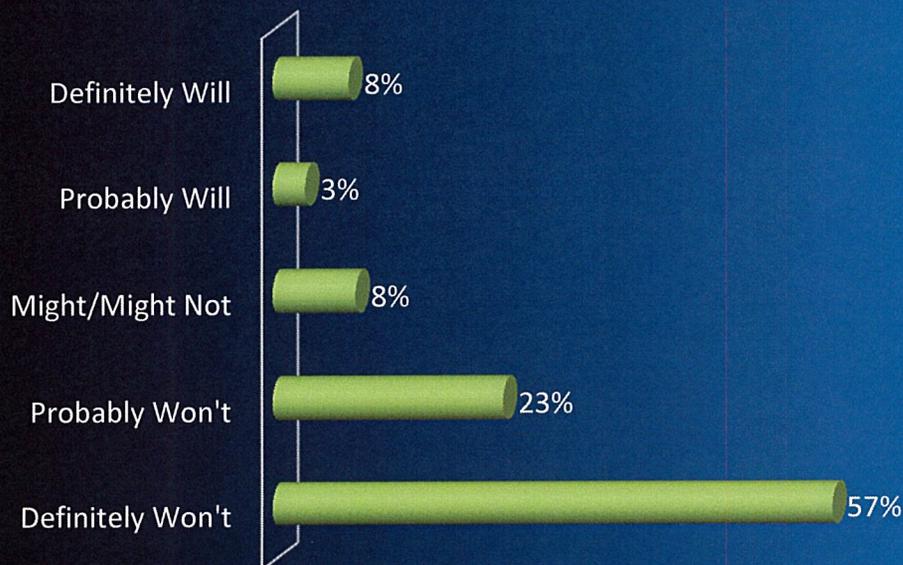


Internet Type by Age



- ◆ The average number of lines is:
 - ❖ All Households: 1.5
 - ❖ Wireline Households: 1.6
- ◆ Wireless substitution is much lower than the national average
- ◆ A further 7% of wireline phone users will drop for wireless in the next 12 months

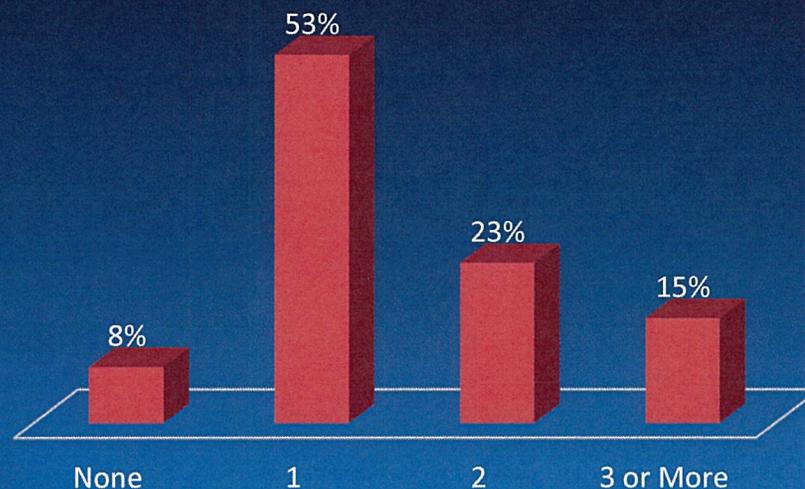
Q13: "How likely are you to disconnect the wired phone line and only use your cell..."



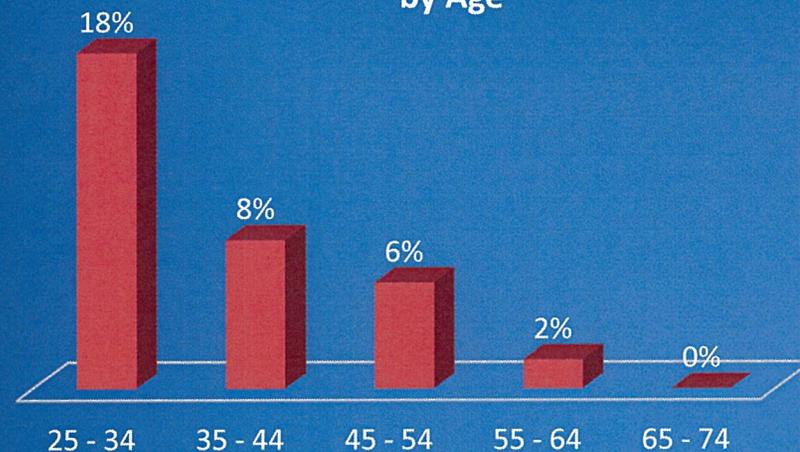
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WIRELINE PHONE MARKET SHARE

Number of Phone Lines in the Home



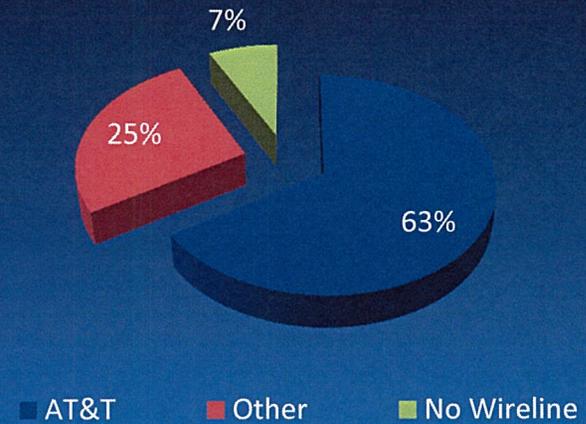
Households Without Wireline Phone Service by Age



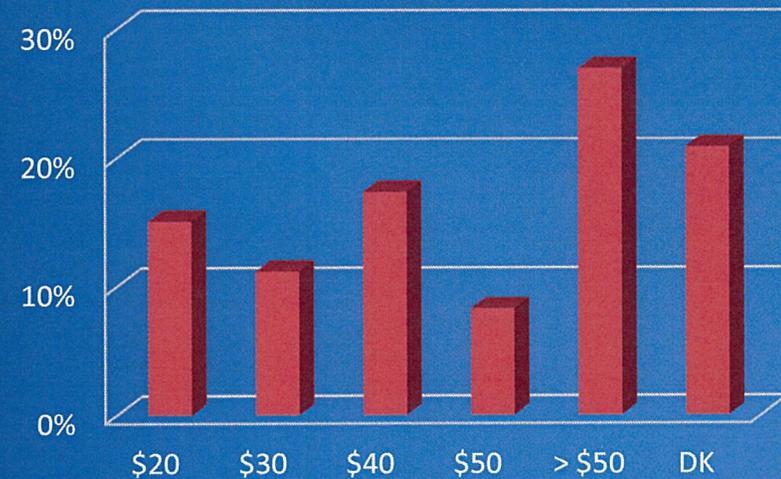
- ◆ AT&T still retains market share leadership of the residential voice market
- ◆ *Stated* residential spending on local phone service averages about \$35 monthly per HH

VOICE SERVICES USAGE

Q9: "Who is your local phone service provider?"



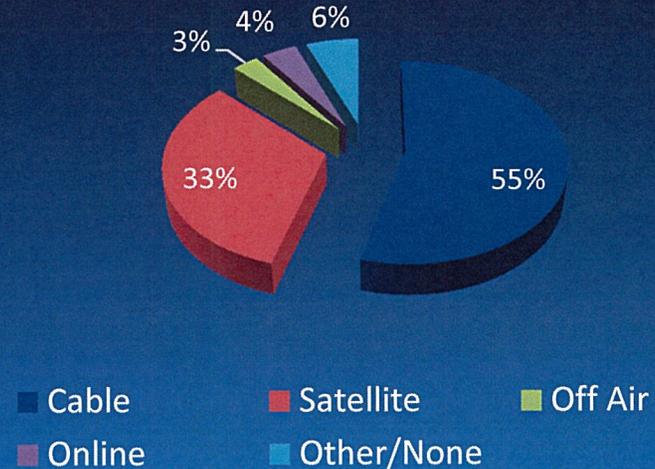
Monthly Local Phone Spending



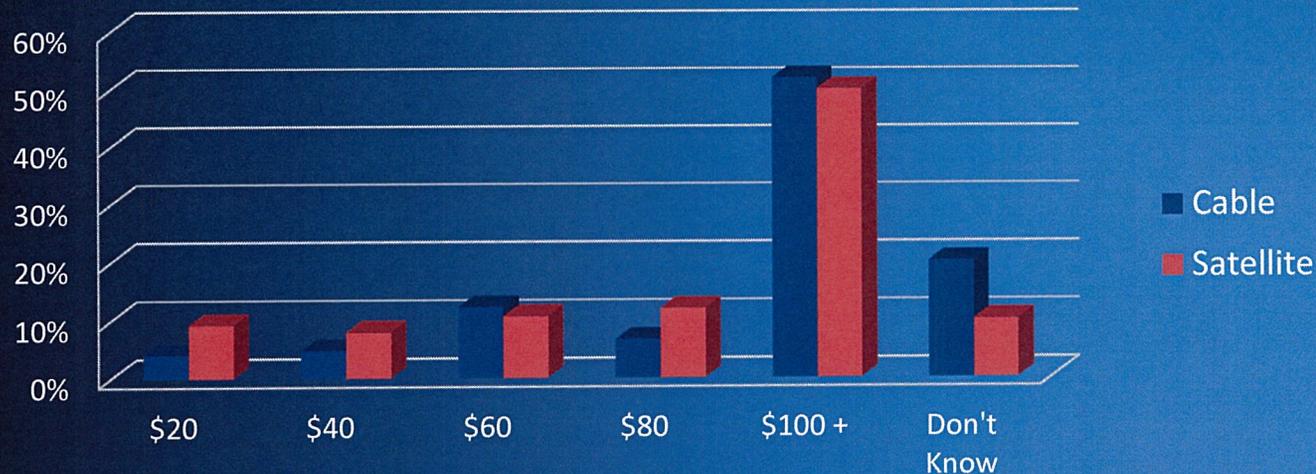
VIDEO SERVICES PURCHASING BEHAVIOR

- ◆ 88% of households use traditional pay TV (cable or satellite dish)
- ◆ In Beverly Hills today, 4% of households are using online video
- ◆ Another 3% are using Off Air reception without supplemental Pay TV service
- ◆ *Stated average monthly spend:*
 - ❖ Cable: \$67
 - ❖ Satellite: \$71

Q2: "For TV service, do you have..."



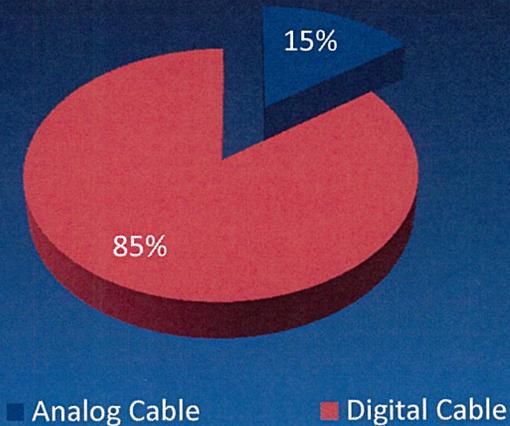
Monthly Pay TV Spend



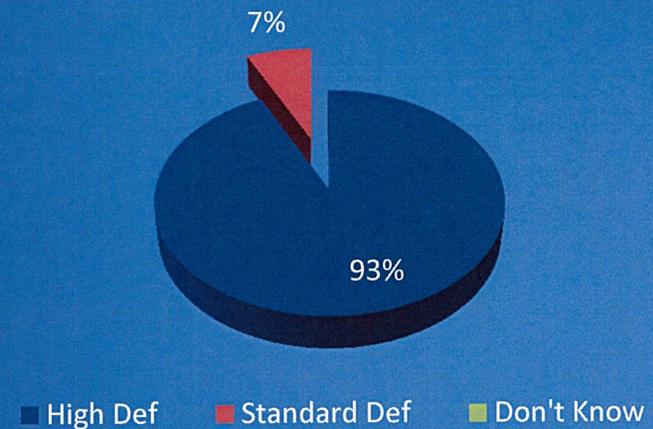
TRADITIONAL VIDEO SERVICES

- ◆ Beverly Hills digital video penetration:
 - ◆ 86% among all Pay TV users
 - ◆ 68% among Cable TV users
- ◆ High definition service is 63% of pay TV users
- ◆ Uptown estimates a further 7% of pay TV users will upgrade to HD in the next 12 months (Q5):
 - ❖ Definitely Will: 2%
 - ❖ Probably Will: 13%
 - ❖ Might/Might Not: 17%

Q3: "For cable, do you have..."



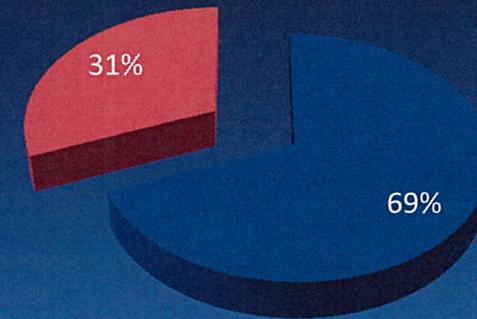
Incidence of High Definition TV
(among all pay TV users)



EMERGING VIDEO SERVICES

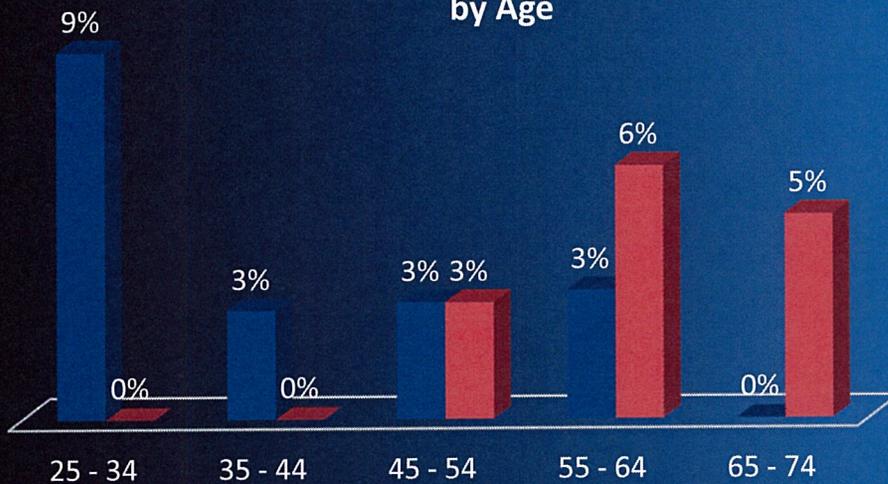
- ◆ Over-the-Top (OTT) or online TV viewing has recently become a material substitute service for traditional cable TV with a majority of households using OTT
- ◆ Among younger households, up to 9% are using OTT as a substitute service
- ◆ Uptown estimates a further 7% of pay TV users in Beverly Hills will 'cut the cord' in the next 12 months

Q7: "Do you sometimes watch TV online?"



■ Yes ■ No ■ Don't Know

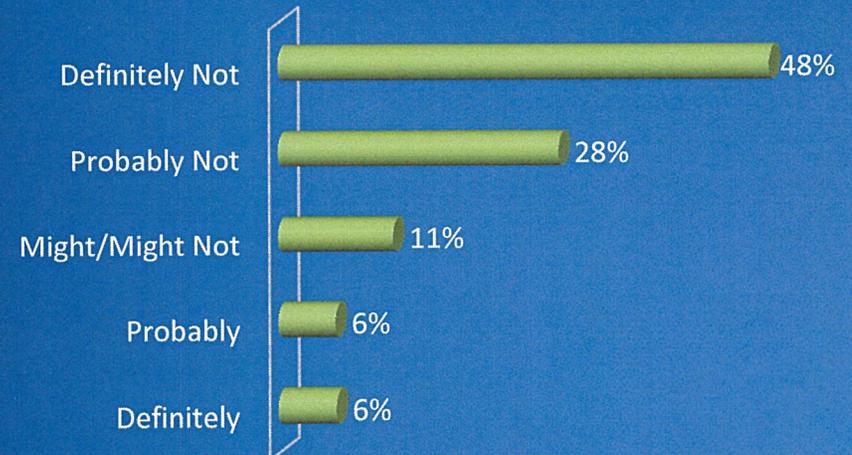
Households Watching TV Online In Place of Pay TV by Age



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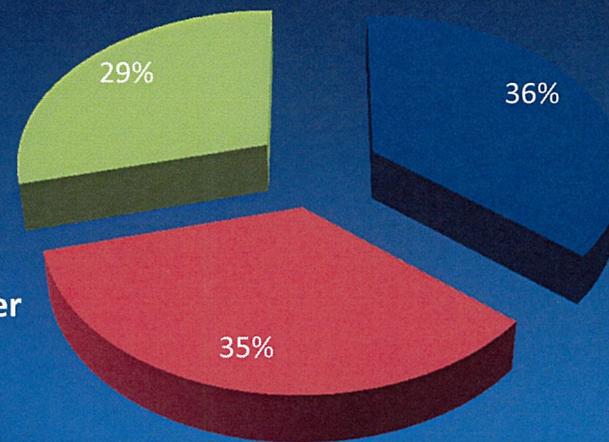
■ Online ■ Off-Air

Likelihood of Cancelling Pay TV for OTT (among all pay TV users)

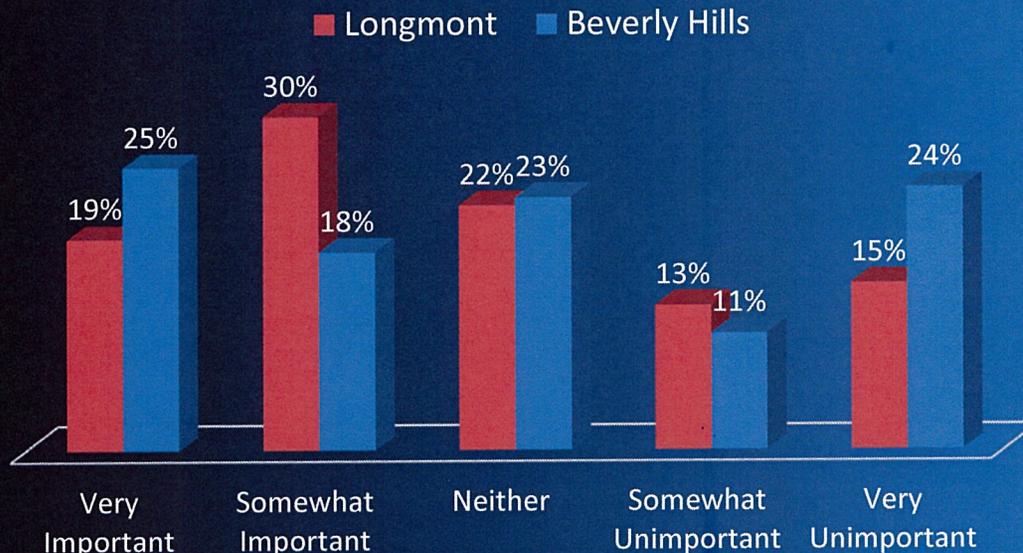


- ◆ Across all households in Beverly Hills, 35% have all 3 services from a single provider
- ◆ Bundling is very important for 1 in 4 households

Incidence of Triple Play Bundle



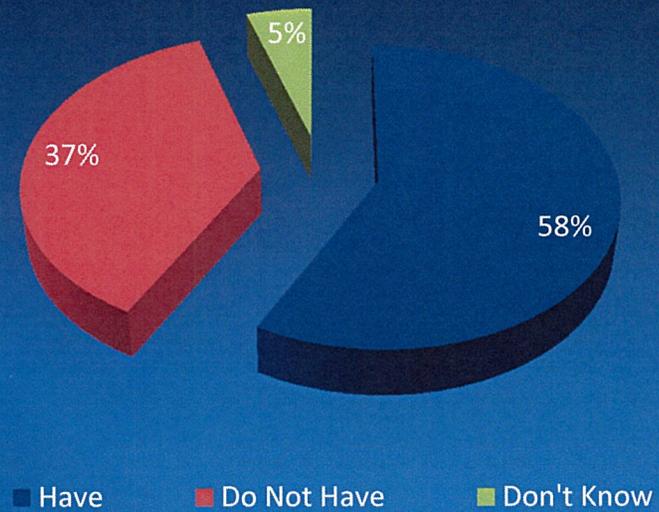
**Importance of Having All 3 Services from a Single Provider
(Among All Respondents)**



- Have All 3 Services From Multiple Providers
- Have All 3 From Single Provider
- Do Not Have All 3 Services

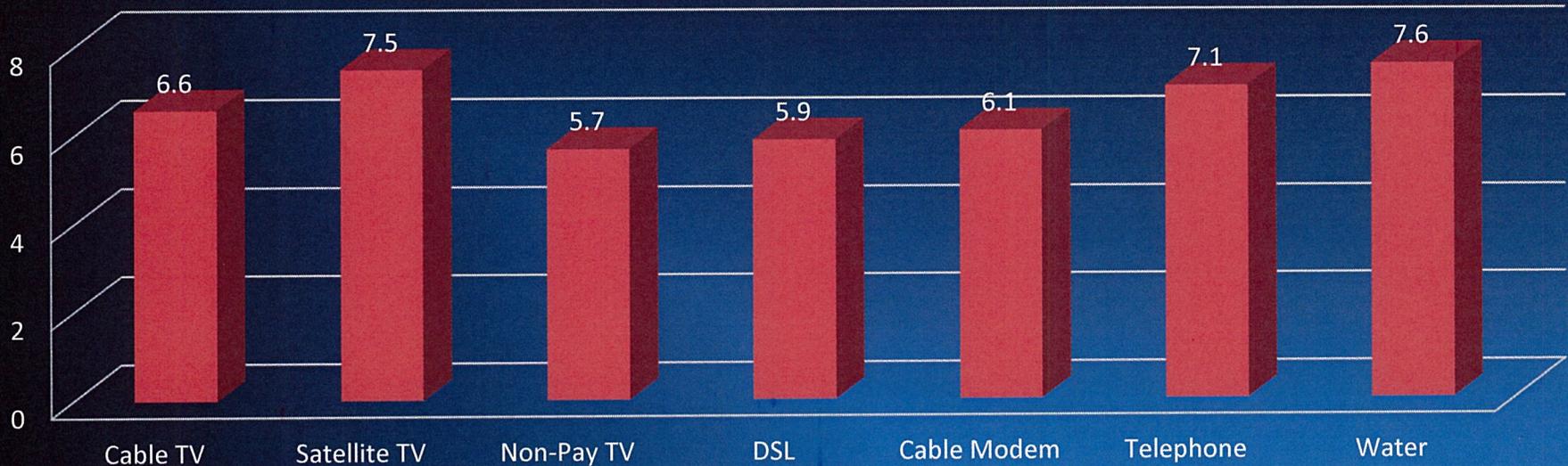
- ◆ There is a 58% incidence of Home Security/Monitoring in Beverly Hills

Incidence of Home Security System

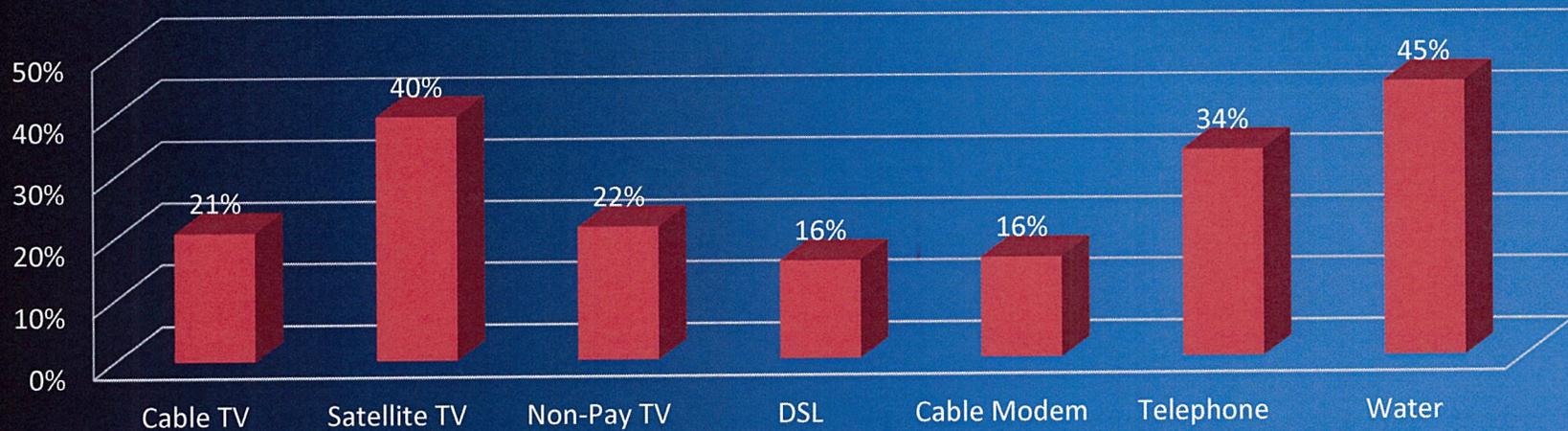


SATISFACTION RATINGS

Satisfaction Rating by Service/Service Provider
(Mean Rating on a 1-10 Scale)



Satisfaction Rating by Service/Service Provider
(Percent Rating a '9' or '10')

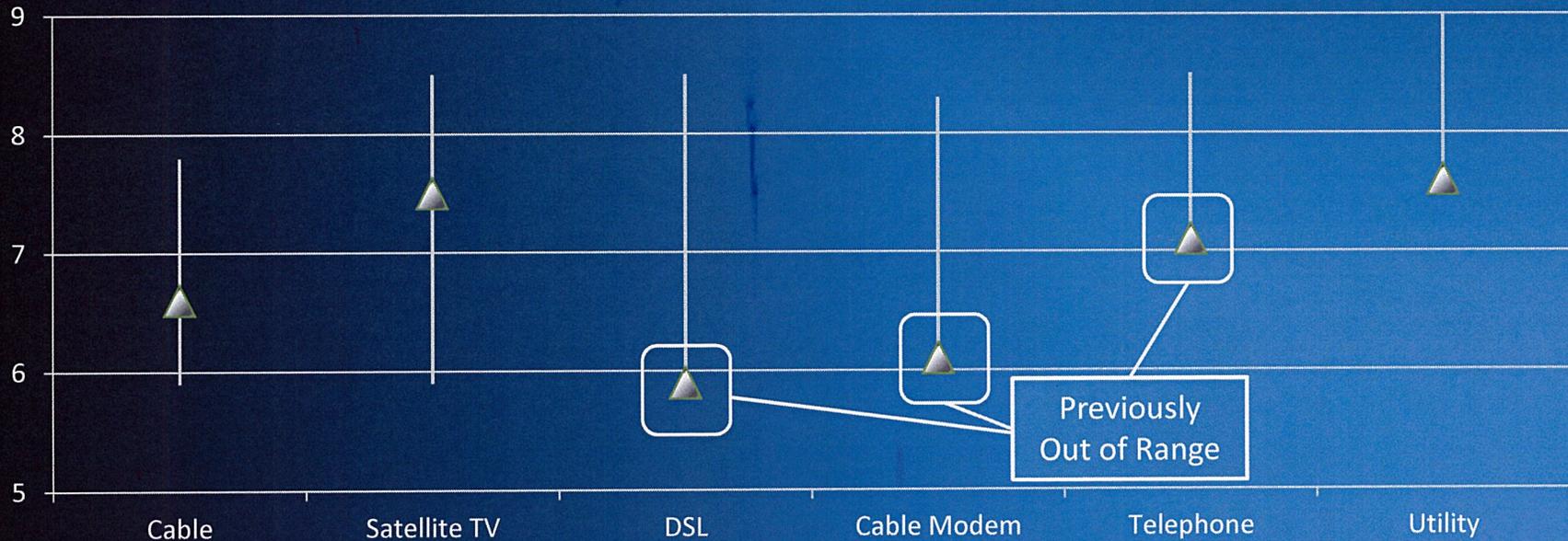


SATISFACTION RATING BENCHMARKS

- ◆ The chart below compares the results of this study with 22 other markets where Uptown has completed similar quantitative research:

<i>Northern Ohio (2)</i>	<i>Washington (state)</i>	<i>North Carolina</i>	<i>Oregon</i>
<i>Southern Ohio</i>	<i>Wisconsin</i>	<i>Kansas (2)</i>	<i>Alabama</i>
<i>Georgia</i>	<i>Oklahoma (2)</i>	<i>New York</i>	<i>Arkansas</i>
<i>Tennessee (3)</i>	<i>Michigan</i>	<i>Kentucky</i>	<i>Colorado (2)</i>

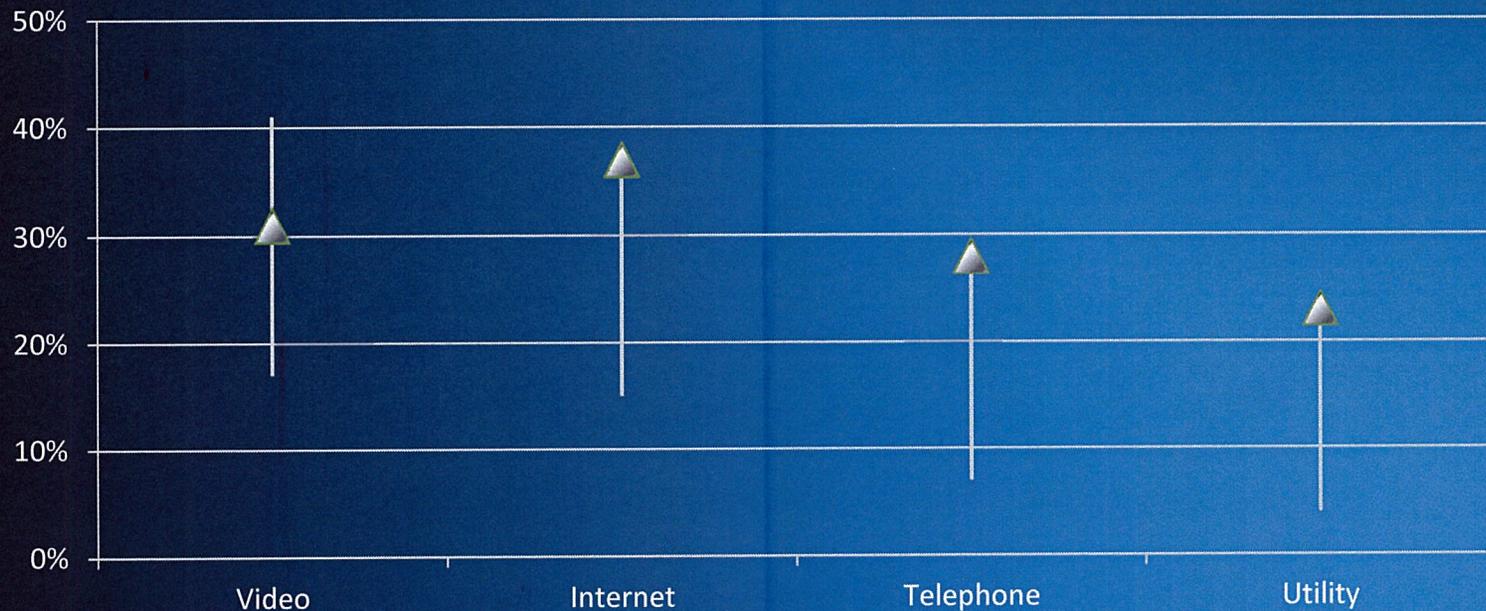
Satisfaction Rating by Service/Service Provider
(Mean Rating on a 1 to 10 Scale)



INCIDENCE OF DISSATISFIED USERS

- ◆ The incidence of dissatisfied consumers (those who rated their satisfaction from 1 to 5 on a scale up to 10)
 - ❖ All TV: 31%
 - ❖ All Internet: 37% (new high)
 - ❖ Telephone: 28% (new high)
 - ❖ Utility: 23% (new high)

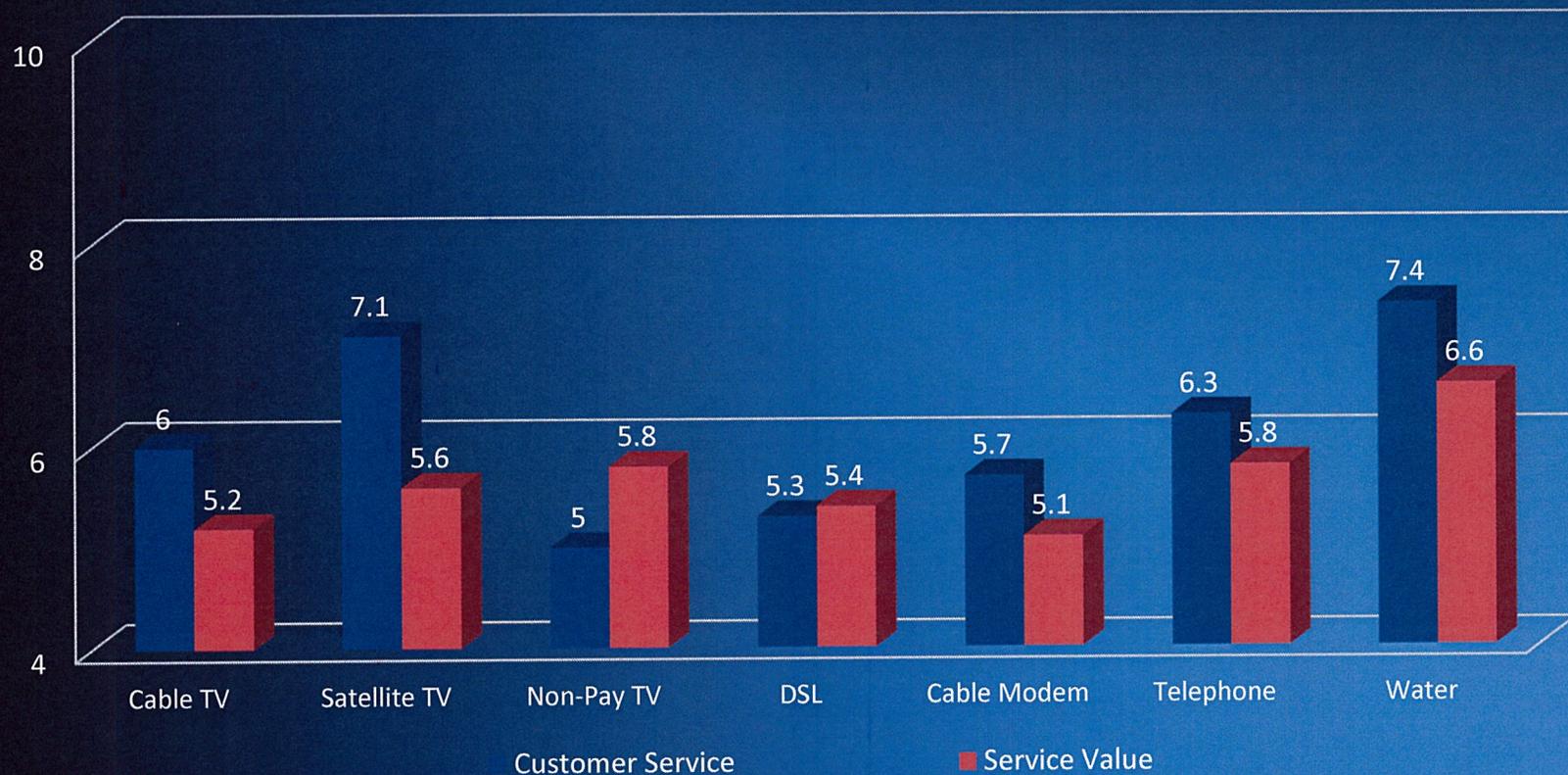
Incidence of Dissatisfied Users by Service
(Percent Rating Between a '1' and '5' on a 1-10 Scale)



INFLUENCERS OF SATISFACTION

- ◆ Across providers, price is the greatest source of service dissatisfaction, but most notably with Pay TV...

Satisfaction Rating by Service/Service Provider
(Mean Rating on a 1-10 Scale)



- ◆ While reliability and price are always important, Internet speed has dramatically increased in importance over the last several years. Bundling and Brand are secondary in importance to other attributes...

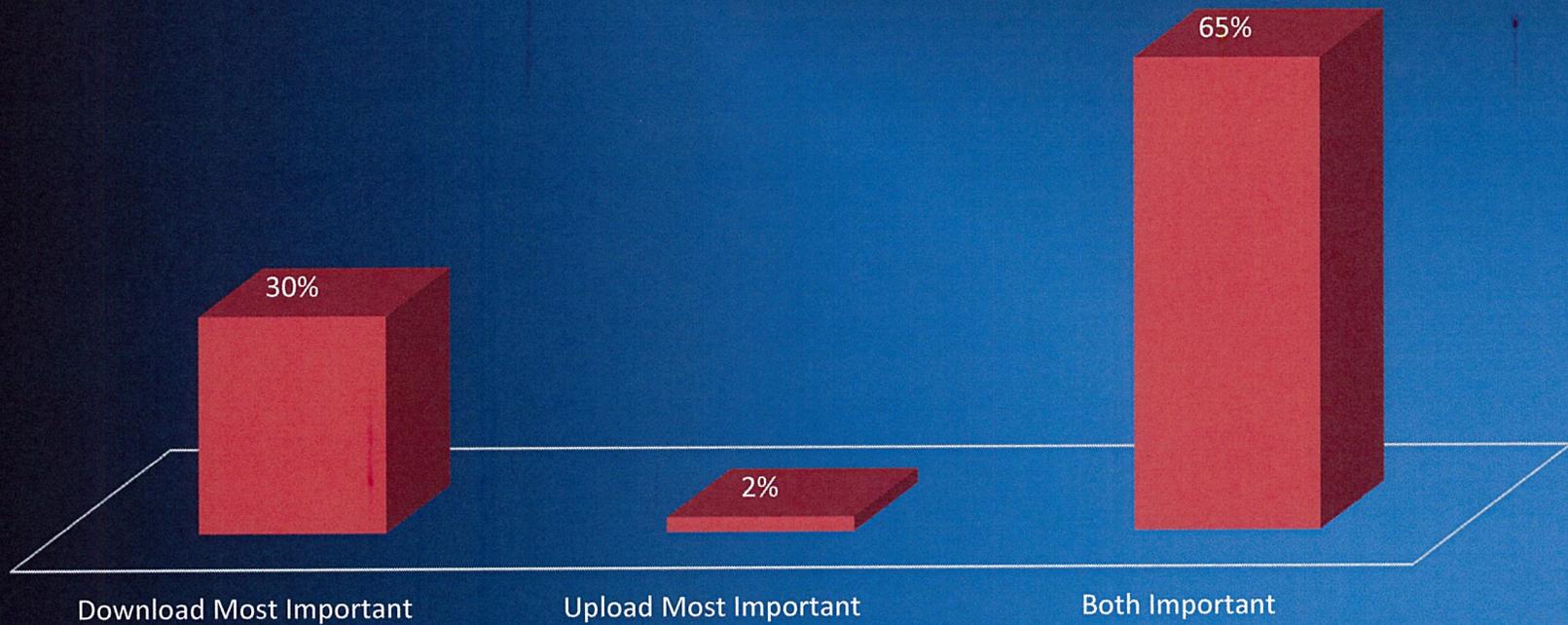
Importance Rating of Select Broadband Service Attributes
(Mean Rating on a 1-5 Scale)



IMPORTANCE OF DOWNLOAD VS. UPLOAD

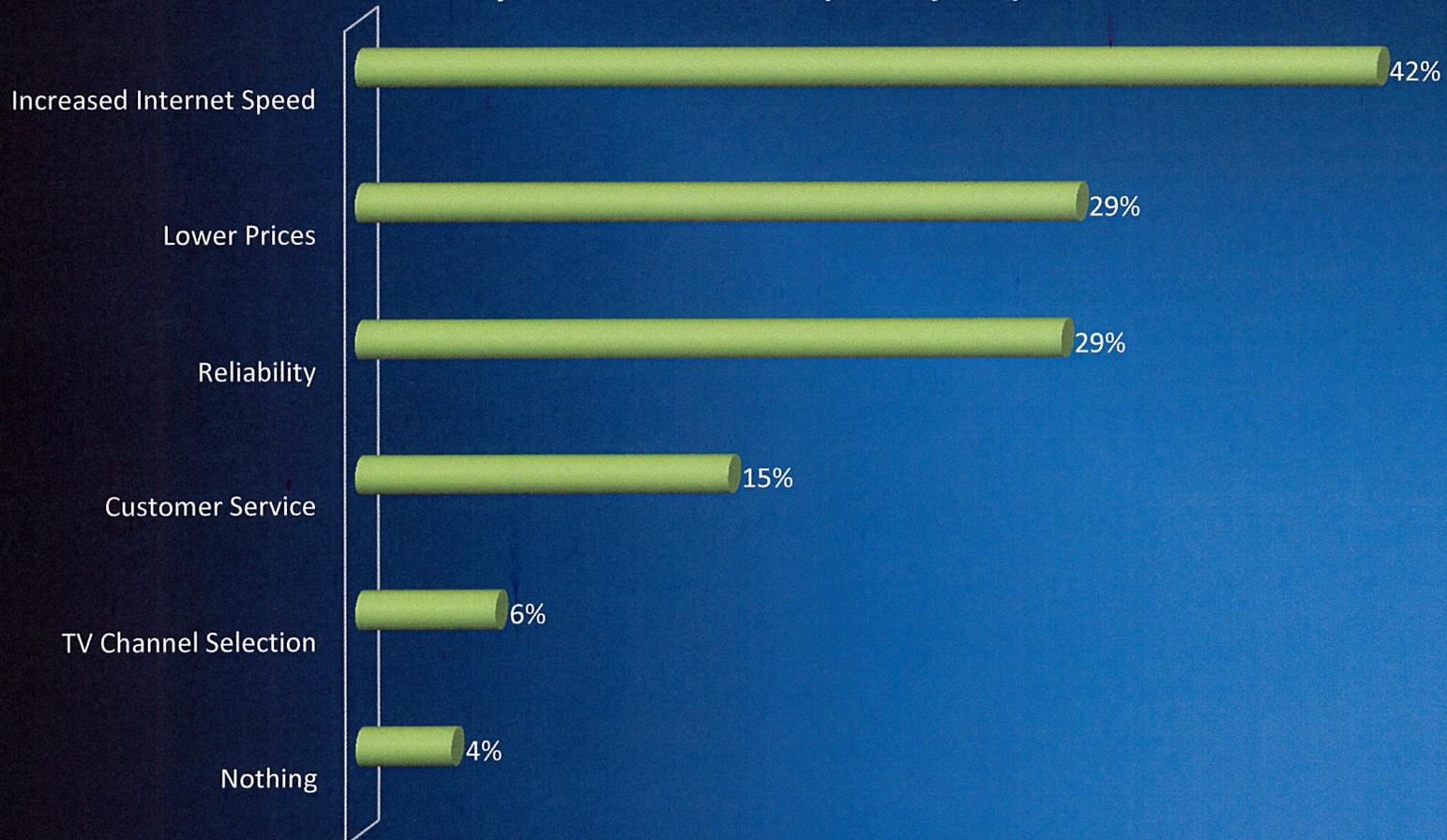
◆ Question 40: “What aspect of Internet speed is most important?”

Importance of Internet Speed on Download vs. Upload



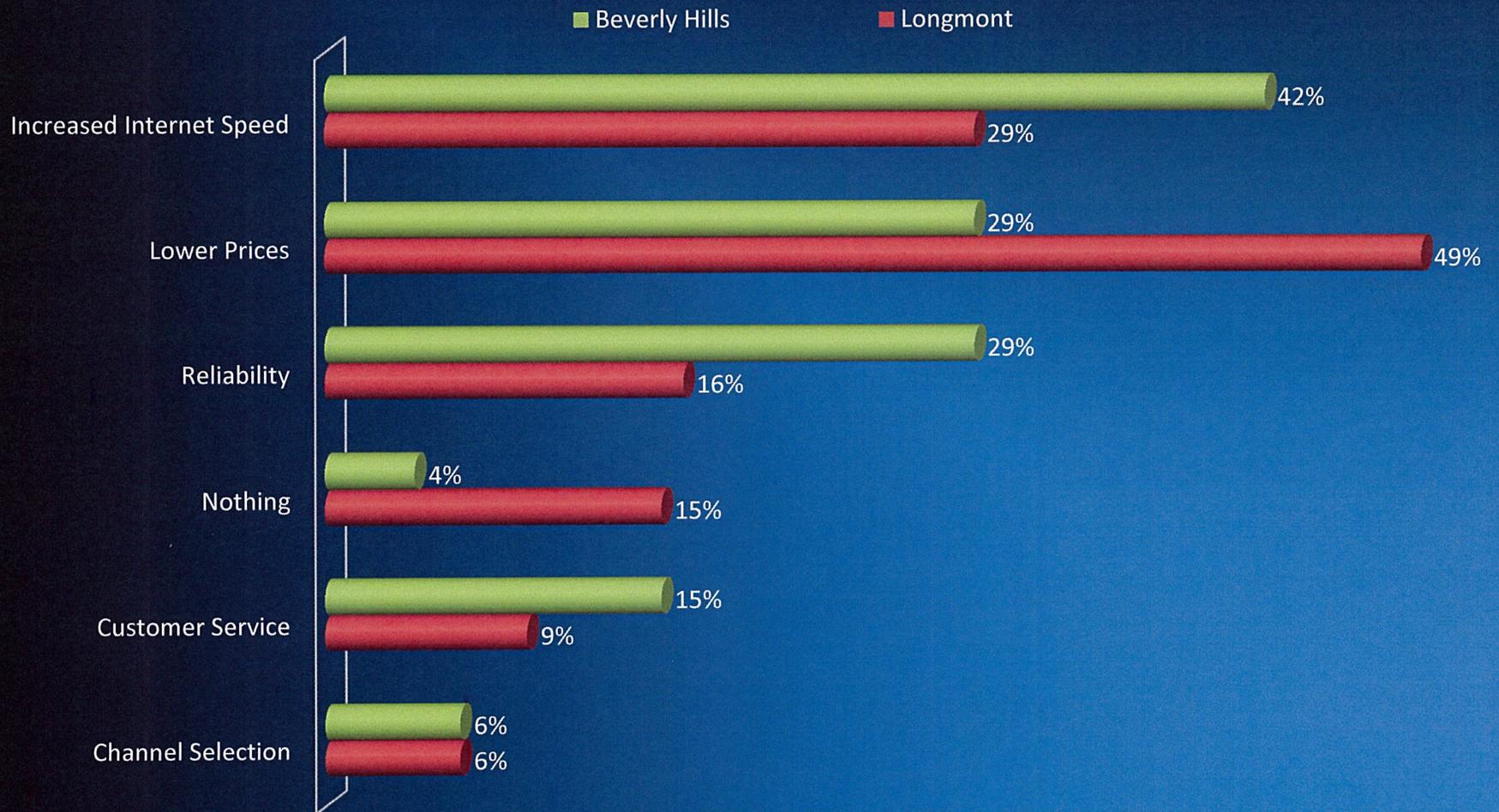
- ◆ Increased Internet speed dominates the wish list for services improvement as Internet speed has gained importance...

Q39: "What would you like to see most improved from your current broadband services?"



BENCHMARKED CUSTOMER NEEDS

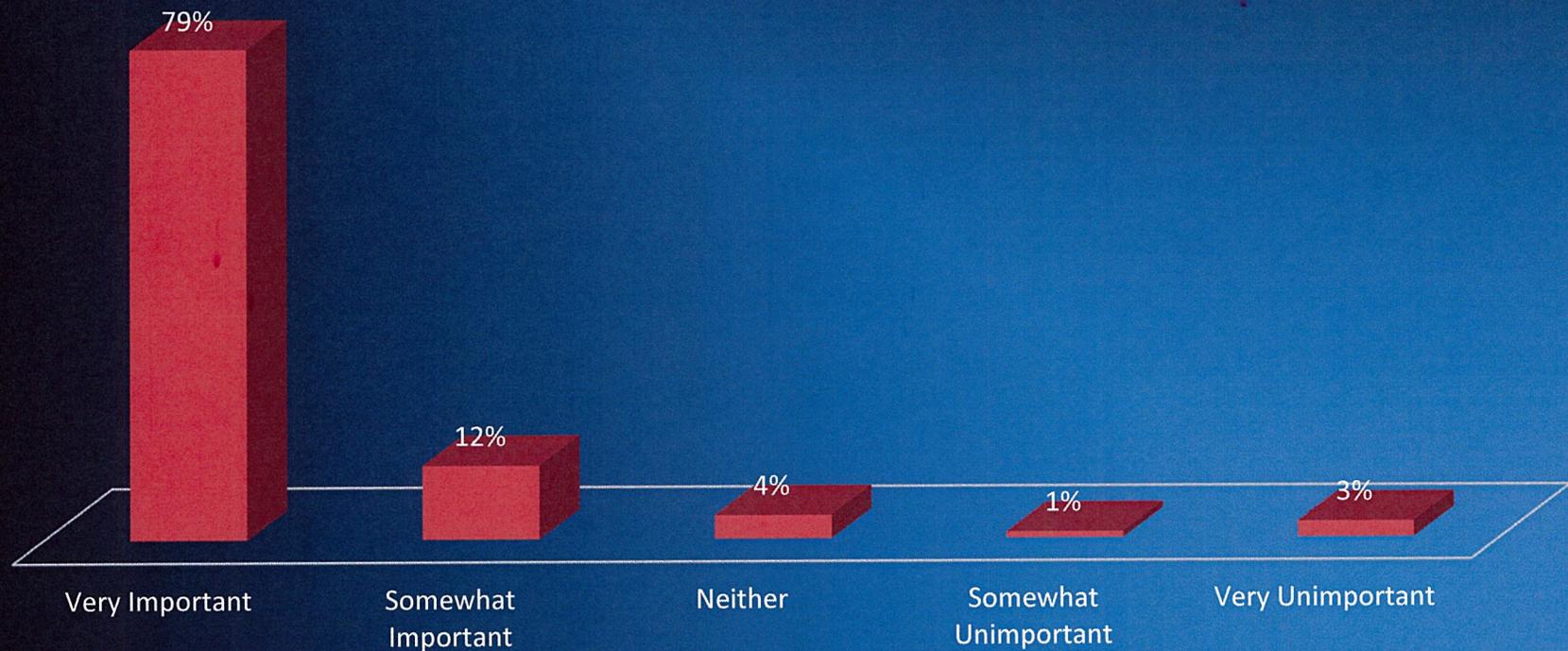
Q39: "What would you like to see most improved from your current broadband services?"



IMPORTANCE OF LOW COST HIGH-SPEED INTERNET

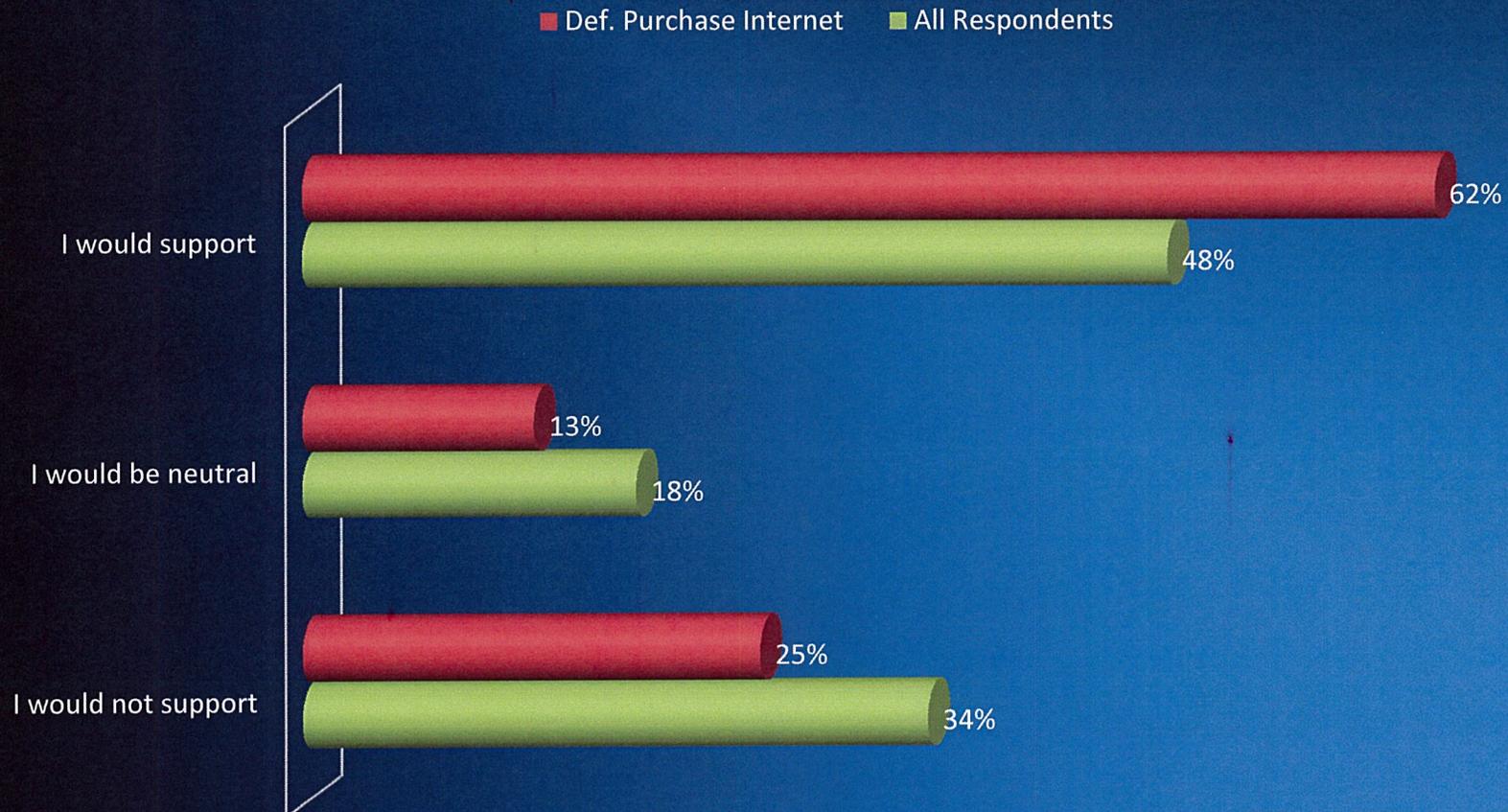
- ◆ Question 37: “In your opinion, is the availability of low-cost, high-speed Internet important to the future local economy?”

Importance of Having Low Cost High-Speed Internet



- ◆ About two-thirds of respondents support or are neutral to paying a monthly \$5 surcharge to help fund the new fiber network...

Q41: "Would you support adding a \$5 monthly fee to your water bill to partially fund the construction and operation of this network for the first 3 years of operation?"

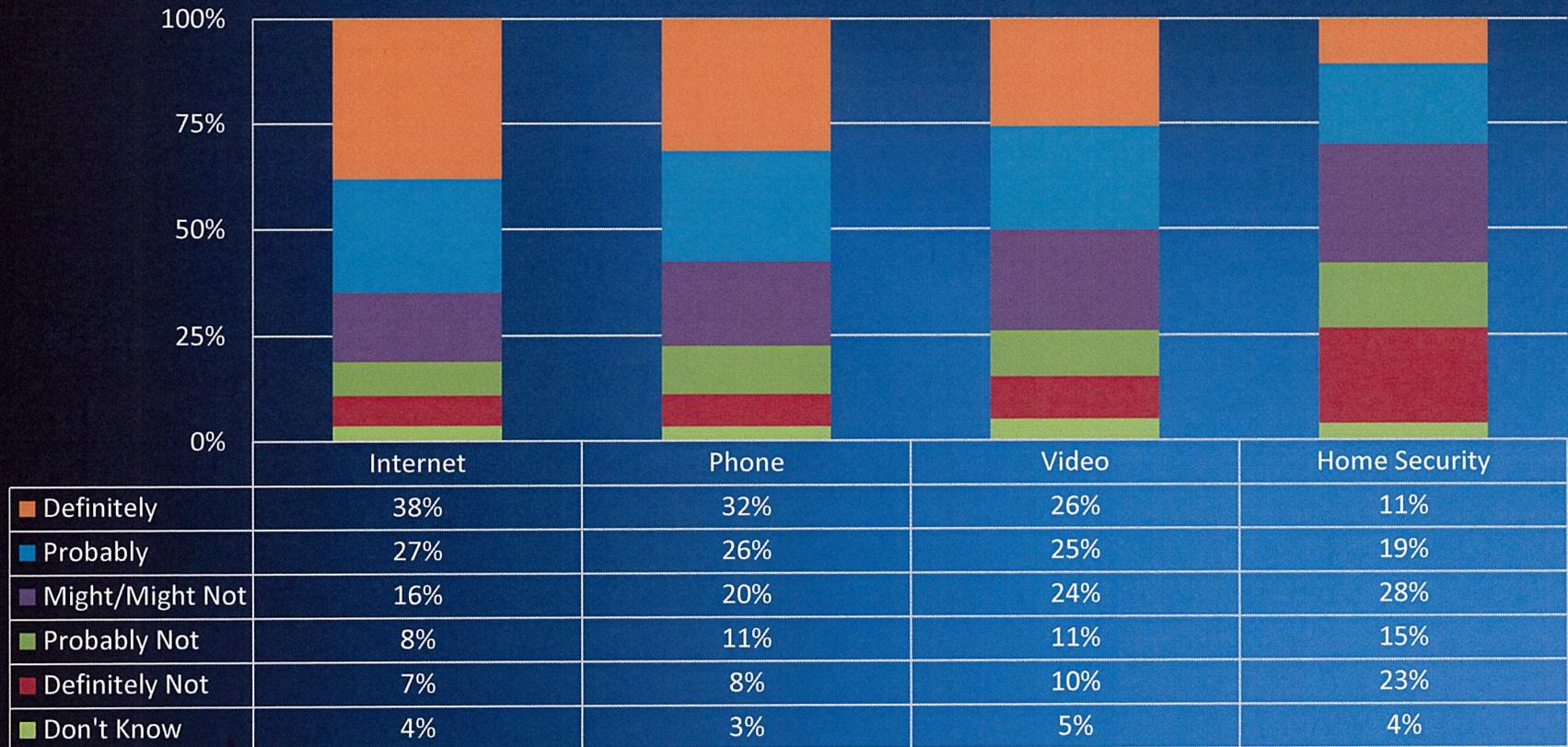


Market Assessment

FTTP Market Potential

- ◆ 65% of respondents indicated they would definitely or probably switch to the FTTP system for Internet service...

Q32-35: "How likely would you be to subscribe to [insert service] if it were 10% less than [insert incumbent provider] charges?"



PENETRATION CALCULATIONS

- ❖ Uptown uses a 'Likert Scale' with Overstatement Adjustment
 - ❖ Conservative research techniques from the Packaged Goods sector
 - ❖ Clearly specify purchase intent vs. "interest" and removes overstatement bias
- ❖ Example: "How likely would you be to subscribe?"

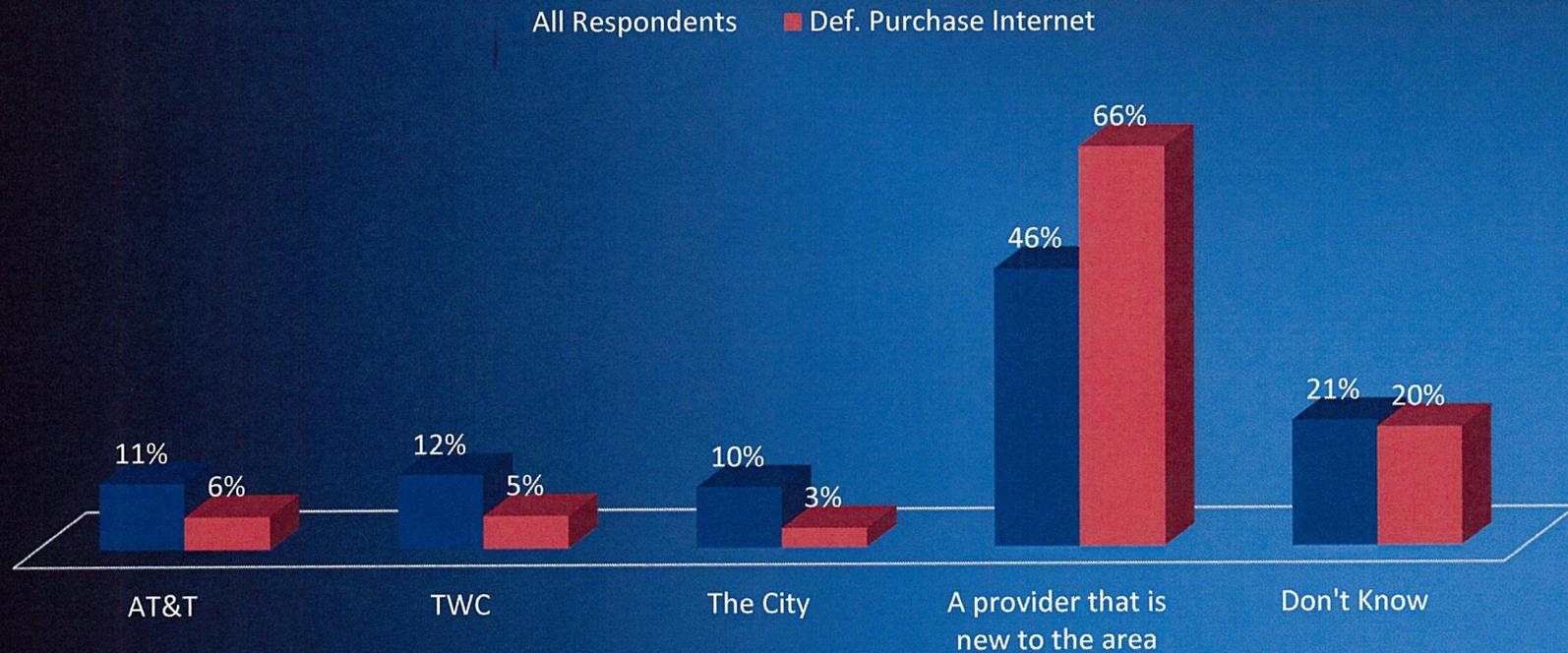
❖ Definitely Would	21.5%	x 70% = 15.0%	
❖ Probably Would	35.6%	x 30% = 10.7%	
❖ Might/Might Not	20.0%	x 10% = <u>2.0%</u>	
❖ Probably Would Not	10.4%		27.7% = Penetration Estimate
❖ Definitely Would Not	4.4%		
❖ Don't Know	8.1%		

	Residential	Small Business
Video	27.7%	0%
Internet	36.3%	30%
Telephone	31.9%	25%
Home Security	0 (16.1%)	0%

PROVIDER PREFERENCE

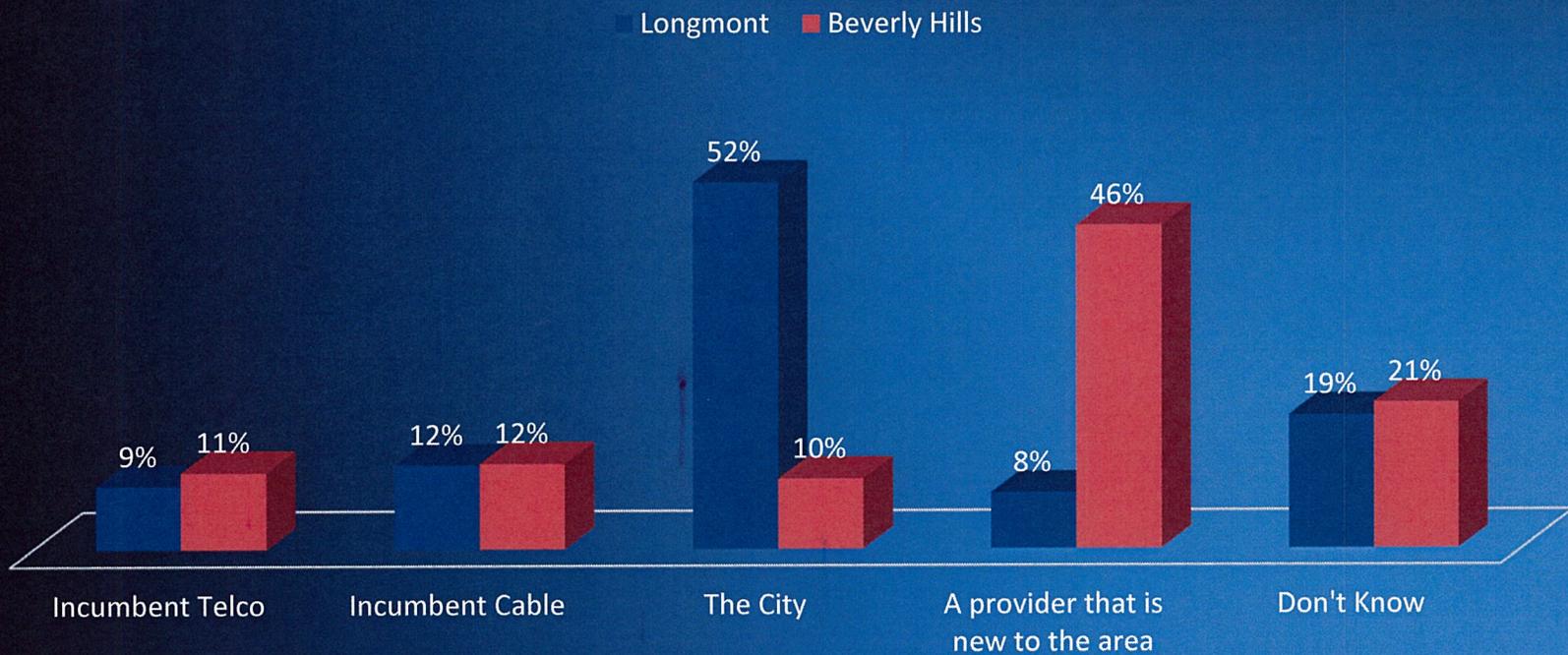
- ◆ The majority of respondents, when given the choice, would prefer to receive high speed Internet from a new service provider...

Q36: "Among the following list of potential providers, who would you prefer to receive high-speed Internet service from?"



PROVIDER PREFERENCE BENCHMARKED

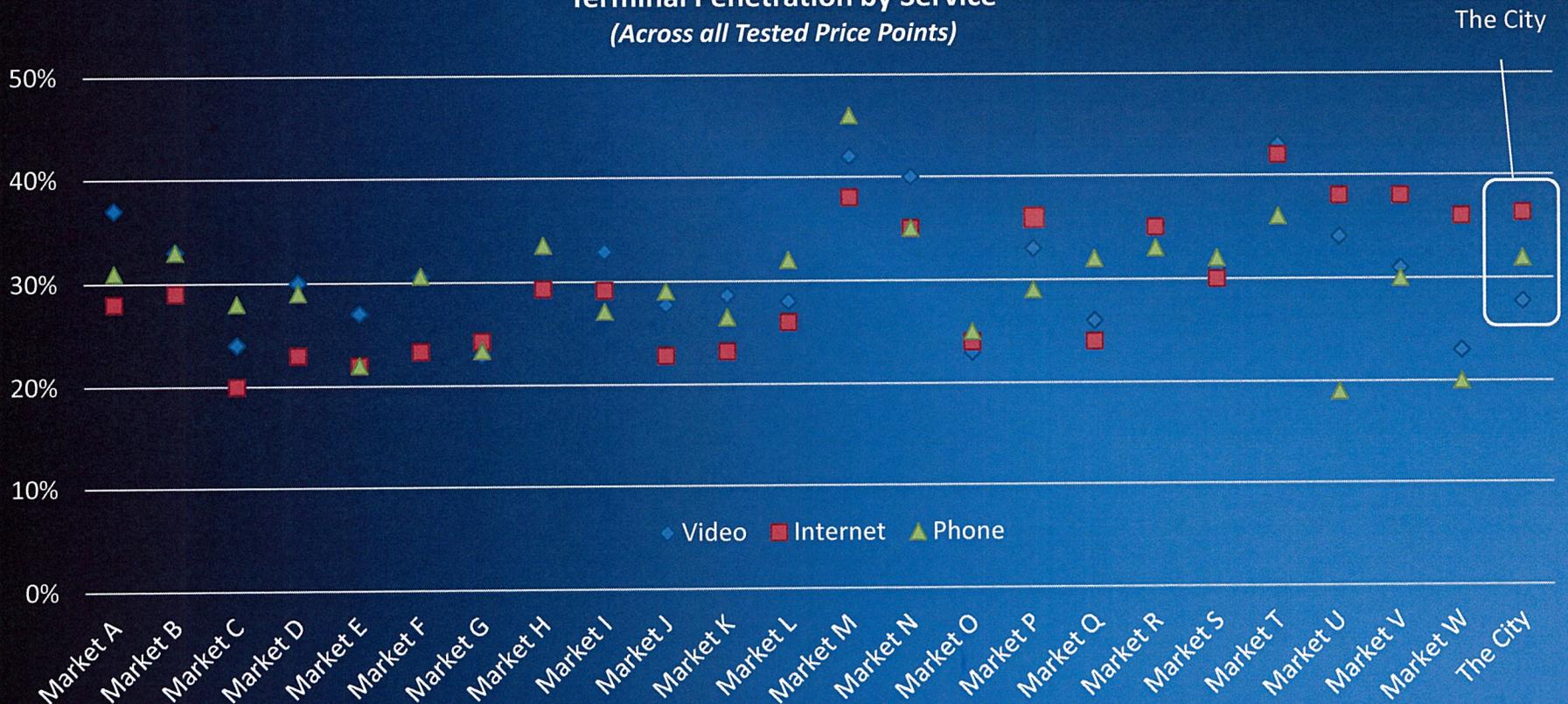
Q36: "Among the following list of potential providers, who would you prefer to receive high-speed Internet service from?"



PURCHASE INTENT BENCHMARKING

- ◆ Penetration estimates are strong for all 3 services compared to the other markets for which Uptown has completed quantitative forecasting...

Terminal Penetration by Service
(Across all Tested Price Points)



INTERNET PENETRATION OF MUNI OVERBUILDERS

Internet Penetration
(By Month Since Launch)



VOICE PENETRATION OF MUNI OVERBUILDERS

Phone Penetration
(By Month Since Launch)

