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NATIONAL BROADBAND PLAN

# Broadband Adoption & Use in America

## Results from an FCC Survey

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# FCC's Survey of Broadband Adopters & Non-Adopters: Goals

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- Understand broadband users & use
  - What they do
  - What is important to them
  - What triggers adoption
- Understand non-adoption
  - Barriers to access
  - Attitudes toward internet
  - Help frame policy approaches

# Sample

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- 5,005 respondents
- Oversample of non-adopters = 2,334
- Spanish-speaking option
- Cell phones included
  - 30% of sample interviewed on cell phone
- Survey mandated by the Broadband Data Improvement Act (BDIA)

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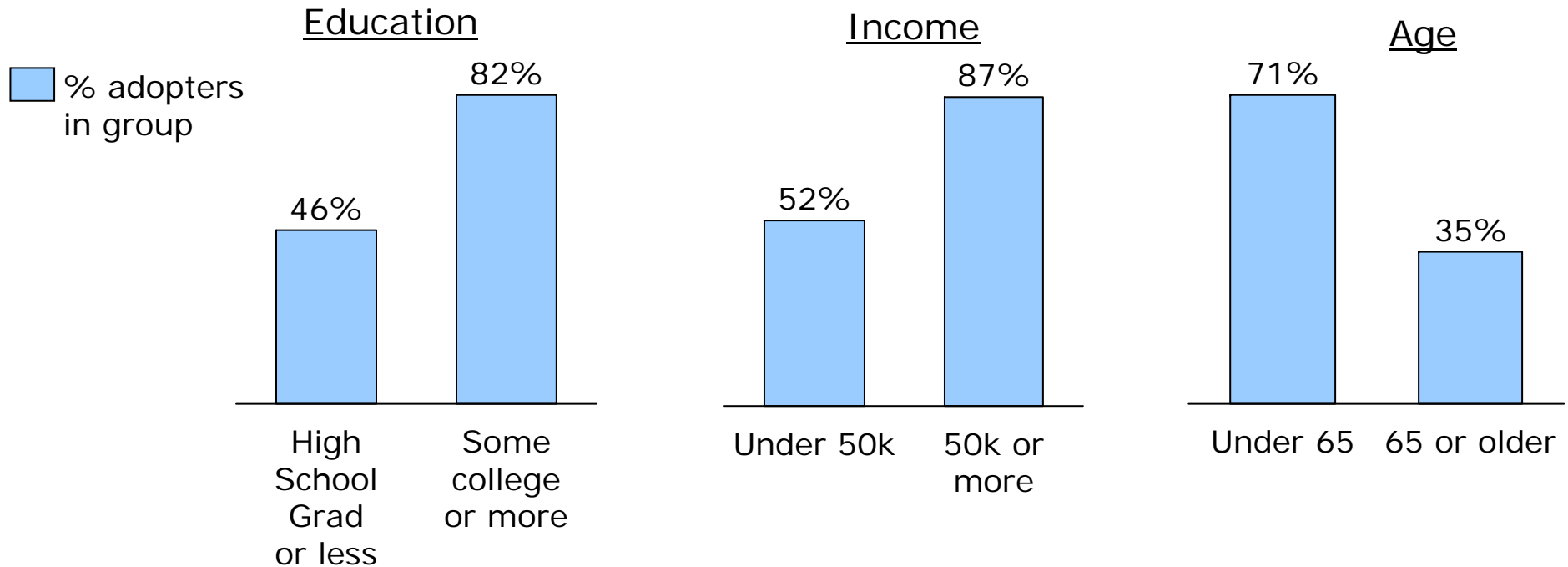
# Adoption

## Overview of findings

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- 78% of Americans are internet users
- 67% of households contain a broadband user
- 65% of Americans are broadband users at home
- 86% of Americans have a cell phone
- 30% of Americans have used the internet on handheld
  - Among all non-adopters, 14% have accessed internet on cell
  - Among African American non-adopters, 20% have done this
  - Among Hispanic non-adopters, 25% have done this

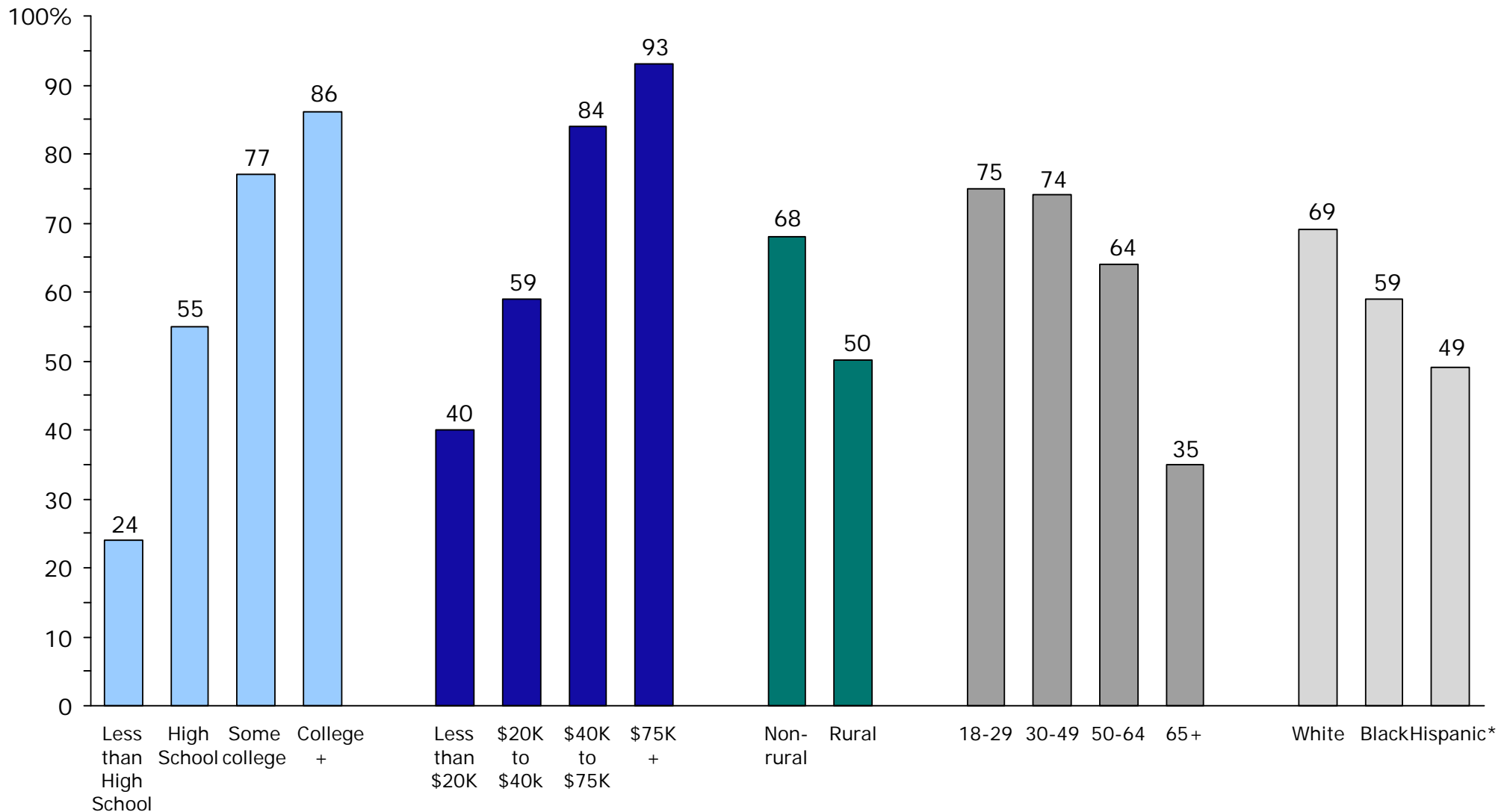
# Main dividing lines on adoption



- People with disabilities (24% of sample): 42% with broadband at home

# Adoption by demographic & socio-economic segment

Percent of American adults



\*Hispanics includes both English and Spanish speaking Hispanics;

# What people pay for broadband

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- Average monthly bill (user reported) from FCC survey: \$40.68
  - \$46.25 for those whose service is not part of bundle
  - \$37.70 for those whose service is part of bundle
- Other sources:
  - Pew (April 2009): \$39
    - Self-reported from survey
  - TNS Telecoms: \$34.50
    - Analysis of consumer bills – 90% bundled offerings, may include promotions
  - Telogical: \$46
    - Providers' stand-alone (i.e., non-bundled) non-promotional offerings
- 70% of broadband users have broadband bill bundled with another service
- Trends:
  - Pew data show price increases from 2008 to 2009.
  - TNS data shows steady prices (for bundles) from 2008 to 2009.



## What online activities are most important? (among broadband users)

Making it easy to communicate with friends and family, even if they are far away	68%
Keeping up with the news in my community	39%
Sharing content with others, such as photos, videos, or text	34%
Shopping online	23%
Watching TV shows, movies and other video online	10%
Playing games online	9%

## What triggers adoption? (among those online two years or less)

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- Most important reasons for getting access:
  - 31%: To email & stay in touch with family & friends
  - 19%: My children needed it for school
  - 10%: I needed it for school
  - 9%: To gain access to music, movies, entertainment
  - 7%: My children wanted internet access
  - 6%: My job required online access
  - 3%: To share photos or videos with families and friends
  - 2%: A provider made a special offer too good to pass up

# Key points on adoption findings

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- Remains a multi-faceted tool for adopters:
  - Communications
  - Socializing
  - Information gathering
  - Sharing → content & creativity
  - Problem solving → health care, job search, transactions
  - Personal enrichment → education
  - Leisure → entertainment, games
- Path dependence:
  - Late adopters value much the same thing as early adopters

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# Non-Adoption

## Non-Adopters: 35% of adult population

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- 3 baskets of non-adopters:
  - 22% -- non-internet users
  - 6% -- dial-up users at home
  - 6% -- online users who do not access the internet from home
- Most non-adopters can get service where they live:
  - 4% of adults cite lack of available infrastructure as reason for non-adoption.

## Understanding the reasons for non-adoption

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- Asked respondents to list the reasons for non-adoption from a menu:
  - Half of non-adopters list 3 or more reasons why they don't use the internet or broadband
- Follow-up question posed to pin respondent down on most important reason
- Probed general attitudes about broadband use

## Types of barriers non-adopters asked about ...

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- Non-users (22%) & not-at-home users (6%)
  - Monthly cost too expensive
  - Not comfortable with computer
  - Worried about online hazards
  - Activation/installation fee too much
  - Cannot afford computer
  - Nothing online I want to see
  - Internet is a waste of time
  - Can access internet all I want at work
  - Not available where I live
- Dial-up at home (6%) [in addition to several listed above]
  - Happy with current service
  - Don't need additional speed
  - Don't want long-term contract
  - Don't use the internet that much

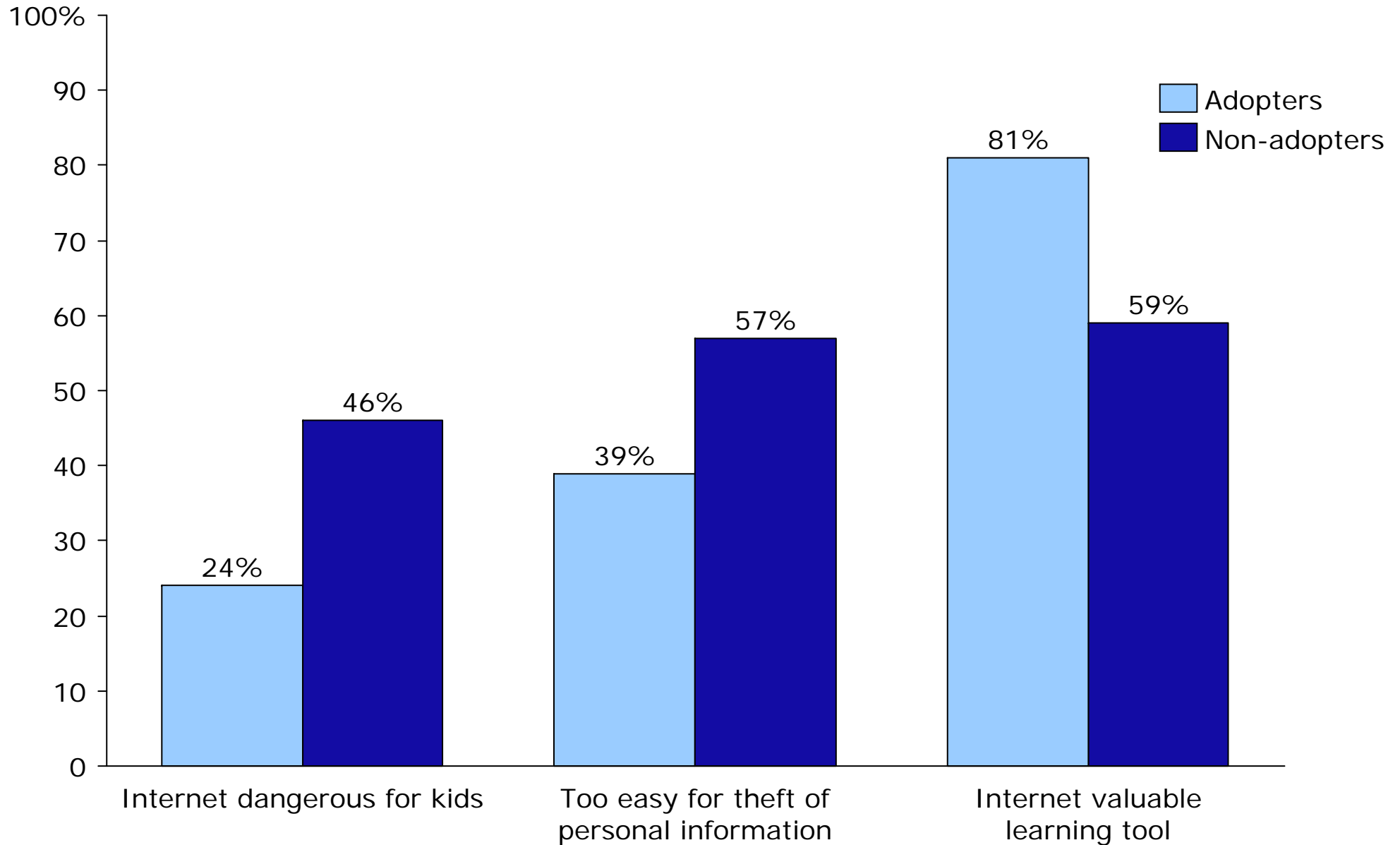
# Main reasons people do not adopt

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- **Cost** – 36% cite a reason pertaining to this:
  - 15% specifically point to monthly fee for service
  - 10% say they cannot afford a computer
  - 9% activation fee/reluctance to enter into long-term contract
- **Digital literacy** – 22% of non-adopters:
  - 12% say lack of comfort with computers
  - 10% cite hazards of online life (e.g., worries of “bad things that can happen” online)
- **Relevance** – 19% of non-adopters:
  - Content with current dial-up service/don't need more speed (5%)
  - Believe internet is a waste of time (5%)
  - Nothing they want to see online (4%)
  - Don't use internet much (4%)
- Remaining reasons:
  - 15% -- other or combination of several reasons
  - 5% -- not available where they live
  - 3% -- can use the internet all they want at work



# Comparing attitudes about internet: broadband vs. non-broadband users



## The information and communications goods & services among non-adopters

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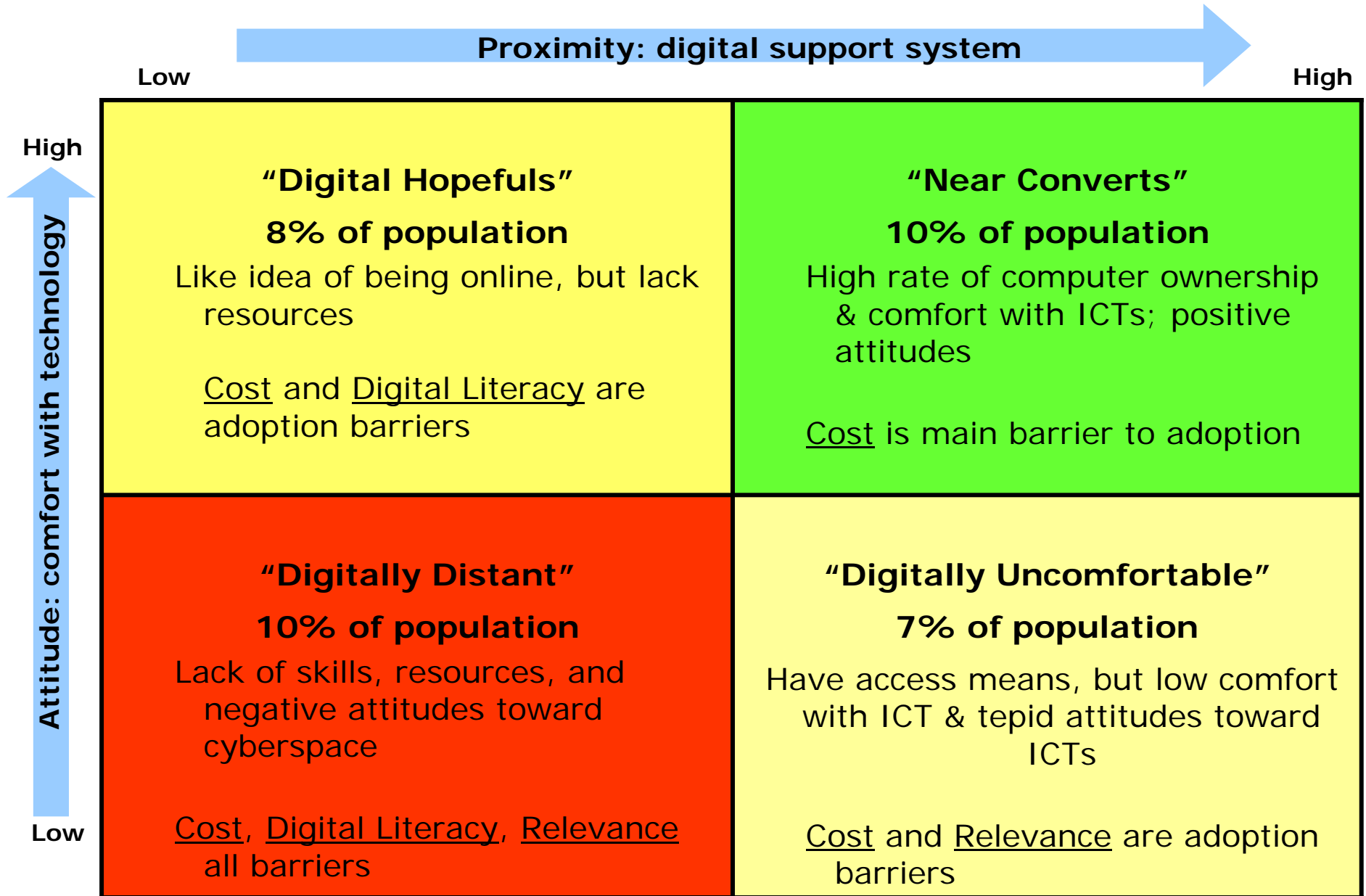
- 80% have cable or satellite TV at home
- 70% have cell phones:
  - Pay \$73 for service (figure includes multiple line service)
- 49% say they are computer users:
  - 34% **very** comfortable using a computer
  - 39% **somewhat** comfortable using a computer
- 42% have at least one working computer at home
  
- Among half who are non-computer users:
  - 35% have used a computer in the past
- 24% of all non-adopters have at some point used broadband (work, friends house, past at home service):
  - 8% of non-users “un-adopted” – they used to have broadband

# Segments of non-adopters

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- Where do non-adopters fall along 2 dimensions:
  - Proximity to information & communications technology (ICTs)
  - Attitudes toward ICTs
- Good chance to adopt:
  - High proximity, positive attitudes
- Low chance to adopt:
  - Low proximity, negative attitudes
- In between:
  - Low proximity, positive attitudes
  - High proximity, negative attitudes

# Creating segments of non-adopters indicates potential conversion points



# Implications

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- Easiest-to-convert segment (Near Converts) need relief on level of monthly bill.
- Solving cost for non-adopters necessary but not sufficient:
  - Digital literacy and relevance typically a role for non-adopters
- Comprehensive approaches to address non-adoption needed:
  - Segment analysis shows at least three-quarters of non-adopters have more than one key issue
- Adoption is an individual decision that takes place in a social context:
  - Indicates solutions should be driven at local & community level to cultivate social infrastructure around adoption