

# Cape & Islands Region Massachusetts Broadband and Digital Equity Listening Session

September 2023



- Welcome!
- Introducing MBI
- Statewide Planning Process
- Digital Equity and Broadband in the Cape & Islands
- **Breakout Sessions**
- Thank You & Closing

# **Meeting Ground Rules**



Be **fully present** by not checking your phone or computer

Know when to lead versus creating space for others to speak

**Be open** and listen to others. Even when you disagree, suspend judgment, and look for common ground.

Recognize that we are all approaching this process with different levels of understanding and lived experiences surrounding equity and digital equity.



# Introducing MBI

# **About the Massachusetts Broadband Institute**



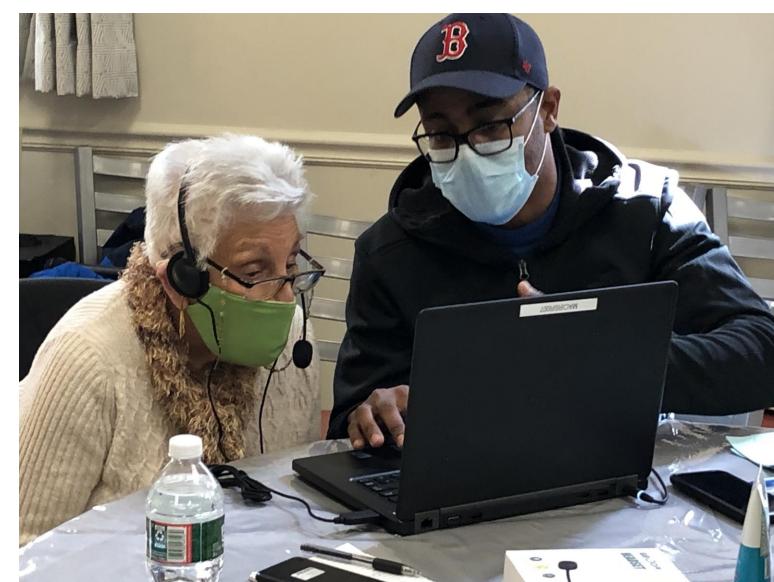
*MBI's mission* is to make affordable high-speed Internet available to all homes, businesses, schools, libraries, medical facilities, government offices, and other public places across the Commonwealth. MBI works closely with key stakeholders to bridge the digital divide in Massachusetts.

## **Investments: Vinfen**

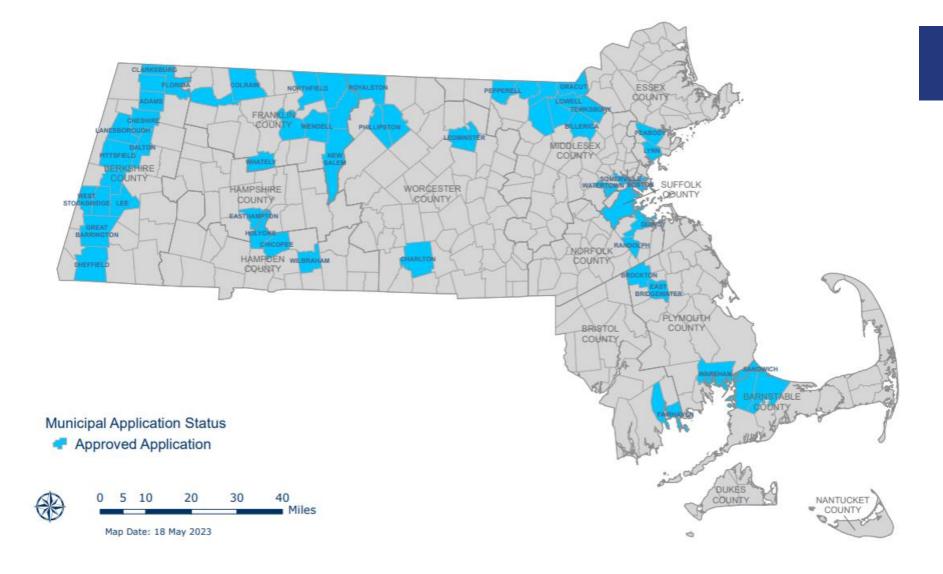
Through a regional network of Human Services providers, Vinfen will support the deployment of 15 regionally based Technology Navigators who will support 4,000 people with disabilities to obtain devices, learn how to use them and enroll in the Affordable Connectivity Program (ACP).

#### How to get involved?

Connect with Vinfen! Jessie Wolfe, wolfej@vinfen.org



# **MBI's Digital Equity Programs and Partnerships**



Cape & Islands Participants

> Sandwich Bourne Orleans



#### Massachusetts Broadband & Digital Equity Funding

**\$75M** - State ARPA Digital Equity Fund

**\$175M** - US Treasury Capital Projects Fund

**\$1M** - NTIA Digital Equity Act Planning Grant

**\$147M** - NTIA Broadband Equity, Access, and Deployment Grant (including \$5M Planning Grant)



# Ellen Sharpe

Director of Tribal Employment Rights, Mashpee Wampanoag Tribe



# Statewide Planning Process

# **State Broadband and Digital Equity Planning**

#### The State Digital Equity Plan will include...

- Vision and input gathered from communities across the state in the planning process
- Community-identified barriers to digital equity
- An assessment of what's working to advance digital equity
- Strategies to build on existing data, reports, and plans



# How you can further shape the plan!



**Contribute to Asset Mapping Database** 

Fill out Asset Mapping form with relevant assets including programs, organizations, reports, engagement activities



Take our Public Survey

Send to your friends and family!

Promote a Listening Session

Tell your networks about the regional listening sessions!

Boston 9/30 Greenfield 10/3

# Timeline

Summer to Fall 2023	Regional listening sessions, focus groups, public survey, asset mapping
Fall (Oct. & Nov.) 2023	Plan drafting and writing
Winter (Nov. & Dec.) 2023	Public comment period
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February 2024	Ongoing community engagement, challenge process launch, and grant deployment

 $\rightarrow$  Visit broadband.masstech.org for upcoming events and ways to get involved.



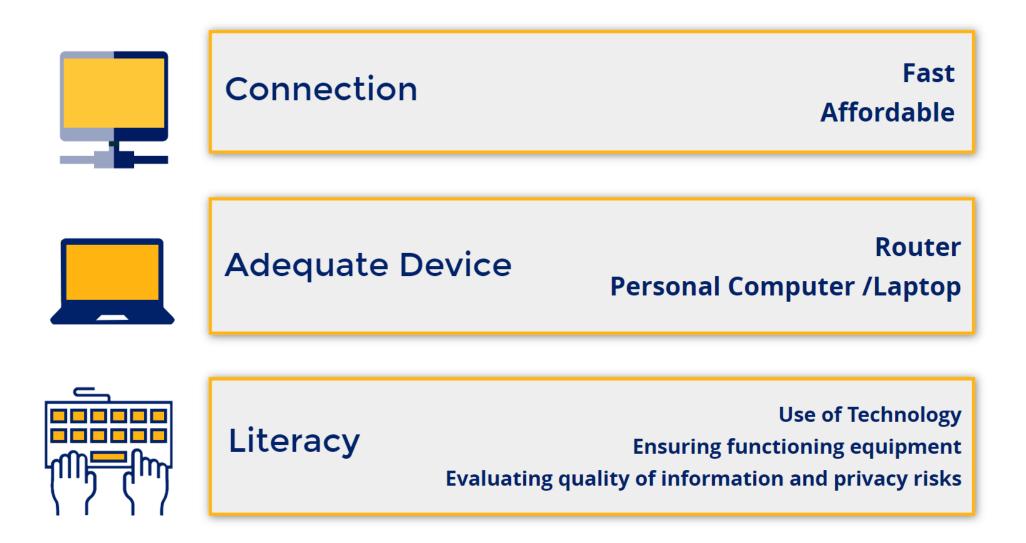
# Existing Conditions

**Digital equity** is a condition in which all individuals and communities have the information technology capacity needed for full participation in our society, democracy, and economy. Digital equity is necessary for civic and cultural participation, employment, lifelong learning, and access to essential services.

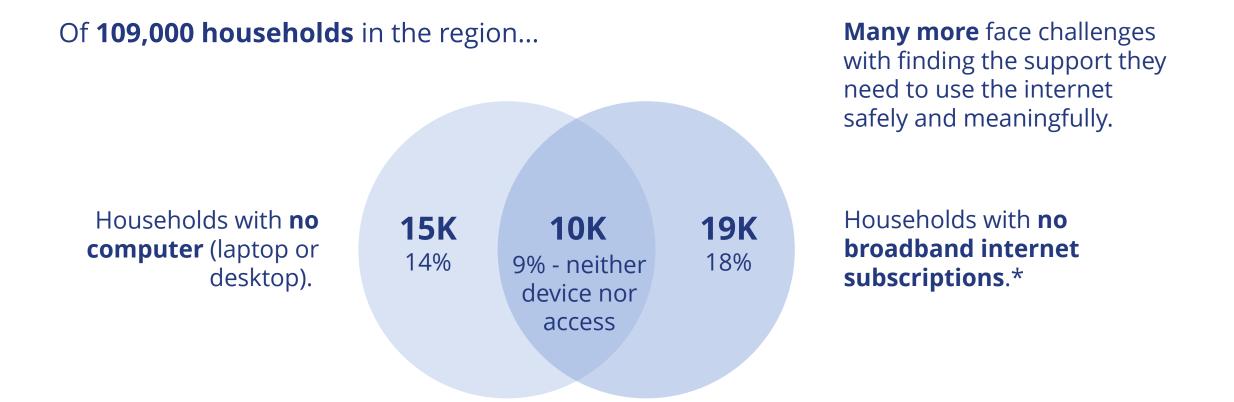
- National Digital Inclusion Alliance

Image Source: Detroit Community Technology Project

# **Determining Factors of Digital Access**



# **Digital Gaps in the Cape & Islands**



These challenges have **disproportionate impact for specific population groups** depending on a range of socioeconomic, historical, and geographic factors.

\* Residents with no broadband access (cable, fiber optic, or DSL) in their household. **Source:** U.S. Census Bureau

## **Statewide Survey - Preliminary Findings**

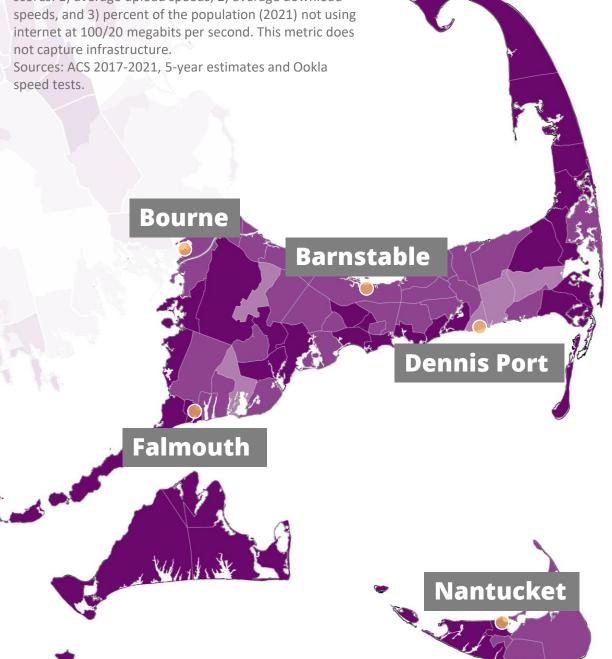
#### **Total Responses x Region**

#### Covered Population Responses in Cape Cod & Islands



Region	Responses	Target	Covered Population	Responses	Target
Connecticut River Valley	821	307	Aging Individuals	480	43
Greater Boston Region	1,091	1,085	Veterans	61	7
Cape Cod & Islands Region	828	112	People of Color	209	14
Southeast Region	1,101	608	Households with Limited English**	0	1
Northeast Region	1,034	455	Individuals with Disabilities	78	15
Central Mass Region	175	378	Low-Income Households	43	13
Berkshire Region	918	55	Residents in Rural Areas	230	31
Unknown	62	-	*R	esponse numbers	are updated as of
Total	6,030	3,000	-	Wedne an estimate based	sday, 9/13, 12pm.

Note: The availability gap score is comprised of three scores: 1) average upload speeds, 2) average download



## **Access and Quality** of Service

**26%** of statewide survey respondents reported that their internet service is not good enough to meet their household's needs.

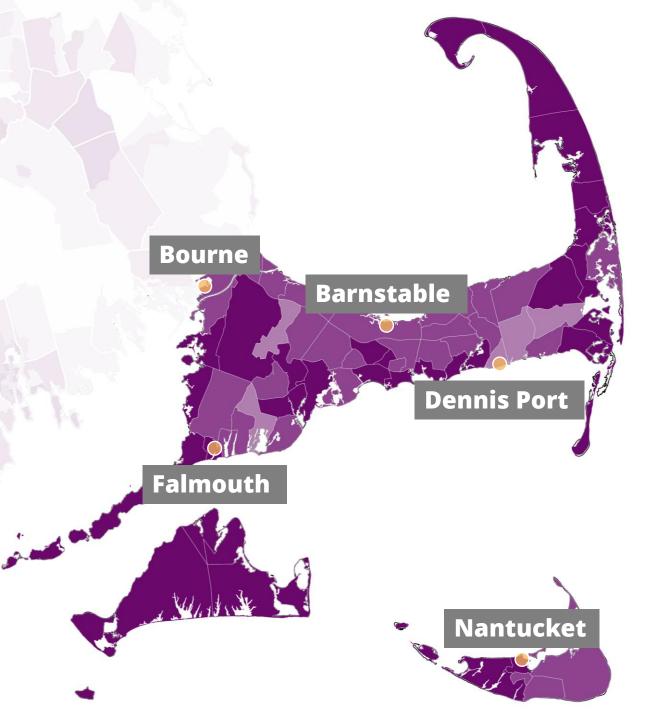
**95%** of municipalities in the Cape Cod & Islands region have little or no competition in the broadband market.

#### Legend

The availability gap score ranges in value from 0 to 100, where 100 indicates the highest gap in availability.

LOW

HIGH



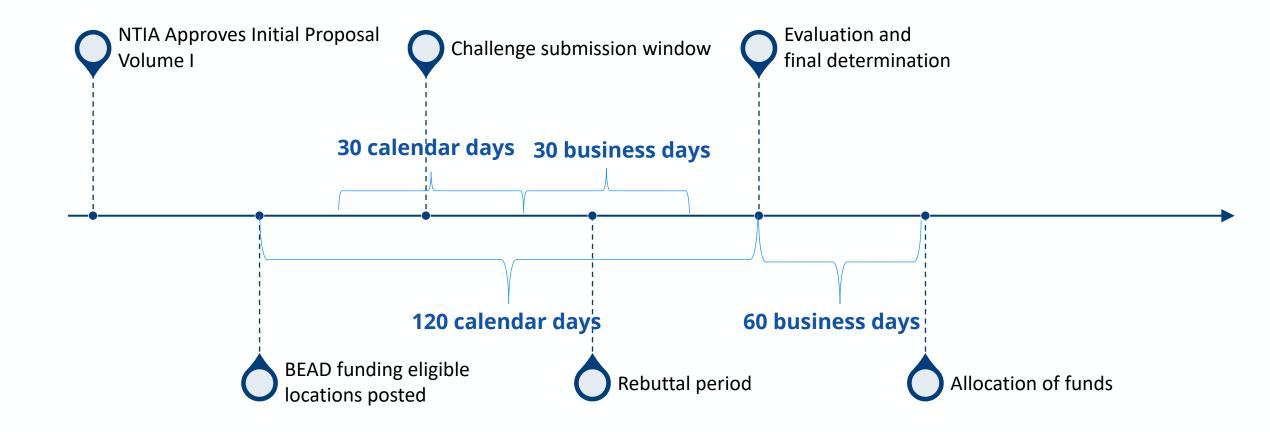
## Access and Quality of Service

In the Cape Cod & Islands region, there are ~1,670 Unserved or Underserved locations.

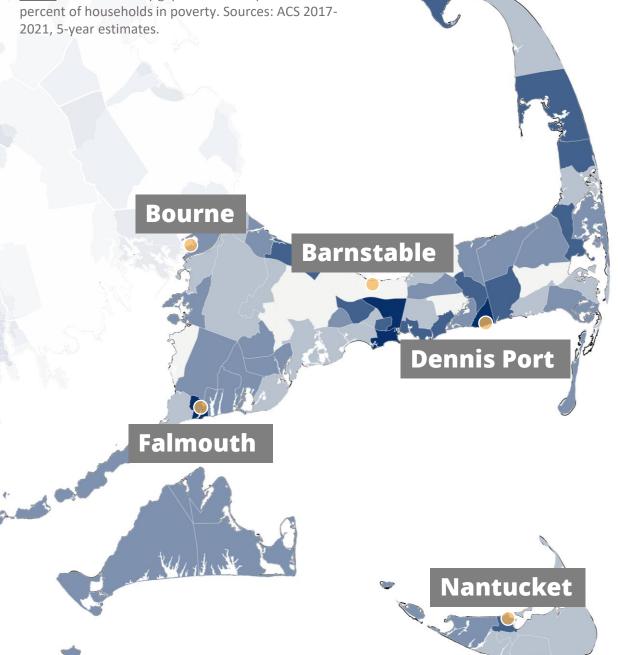
Top 5 Municipalities – Unserved Locations		
Edgartown	247	
Gosnold	188	
Nantucket	143	
West Tisbury	99	
Barnstable	82	

Top Municipality Underserved Loca	-
Bourne	101

## **Challenge Process**



Note: The affordability gap score is comprised of



# **Affordability Gap**

Over **1** in **3** survey respondents statewide reported having at least some difficulty paying for their internet.

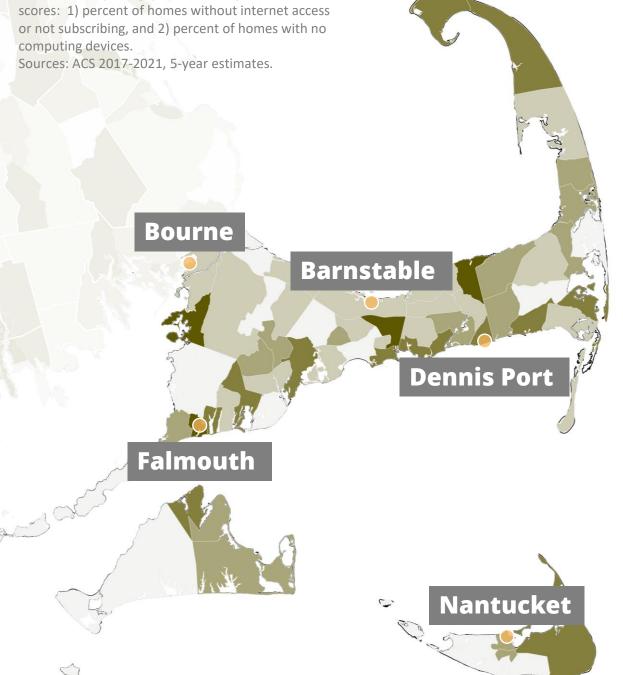
The average for the lowest broadband price regionwide is **\$79.50**.

#### Legend

The affordability gap score ranges in value from 0 to 100, where 100 indicates the highest gap in affordability.



Note: The adoption gap score is comprised of two computing devices.



# **Adoption Gap**

In the Cape Cod & Islands region, adoption gaps are highest in towns such as Barnstable and North Falmouth.

Statewide, nearly half of survey respondents without internet at home cite cost as a prohibiting factor.

#### Legend

The adoption gap score ranges in value from 0 to 100, where 100 indicates the highest gap in adoption.



# **Community Anchor Institutions**









Museums and Cultural and Religious Centers





#### **Public Housing**

# **Assets in the Cape & Islands Region**

MBI is collecting unique assets that contribute to digital equity in each region.



Digital equity assets submitted to date for the region

#### Example Assets:



#### Elder Services of Cape Cod & Islands: Senior Planet Courses -

Free computer classes covering computer basics, protecting privacy online, intermediate classes, and computer essentials.



#### Cape Cod Community College

**Adult ESOL** - Digital literacy support interwoven throughout curriculum to support students through their learning journey.

# Broadband & Digital Equity Planning Update

#### STEVEN TUPPER, DEPUTY DIRECTOR CAPE COD COMMISSION



SEPTEMBER 28, 2023

CAPE COD

## Broadband and Digital Equity Planning Activities



## **Broadband and Digital Equity Activities**



### **Regional Broadband Needs Assessment**

#### Process overview

Assessment of existing conditions of fixed and mobile broadband networks and service availability

2

3

Data collection: statistically valid survey, provider engagement, speed tests, focus groups

Identification of infrastructure gaps and barriers to <u>access (includes affordability/skills/devices)</u>

4

Recommendations for addressing gaps identified through the process

5

6

Coordination with Commission-led/ MBI-funded equity planning and implementation efforts

**Public presentations** 

#### **Project will deliver:**

- Assessment, which is foundational to building long-term strategies
- Documentation of service availability and quality, and of gaps to access
- Recommendations on policy and program options to improve connectivity and access

June '24

**July '23** 

Regional Broadband Needs Assessment

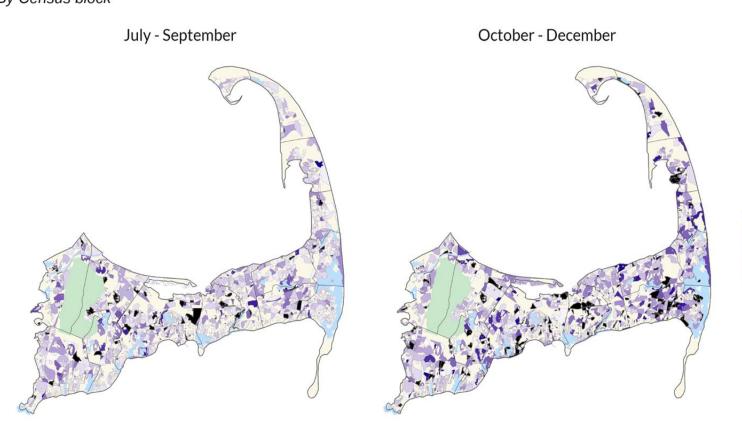
### **Progress & Project Highlights**

- Reviewed existing conditions data, including federal, state, and local data sources.
- Statistically valid phone survey of 700 participants concluded, covering:
  - Service, availability, reliability and speed at specific locations.
  - Costs, data caps, and overage fees.
  - Online activities of internet users and frequency of broadband use.
  - Satisfaction with service and perception of ISP.
  - Interest in alternative services and providers.
  - Barriers to adoption (digital equity considerations).
  - Seasonal usage.
- Speed testing ongoing: public speed tests and regular speed monitoring (conducted by staff and volunteers).
- Up next: engagement with providers (Comcast, OpenCape, mobile) and focus groups with key populations.

# Regional Broadband Needs Assessment

Preliminary Ookla speed test data analysis:

Fixed download speeds in Barnstable County were 60% lower in Q3 (summer) than in Q4 (off-season). Average fixed download speeds (Mbps) in Q3 and Q4 of 2022 By Census block



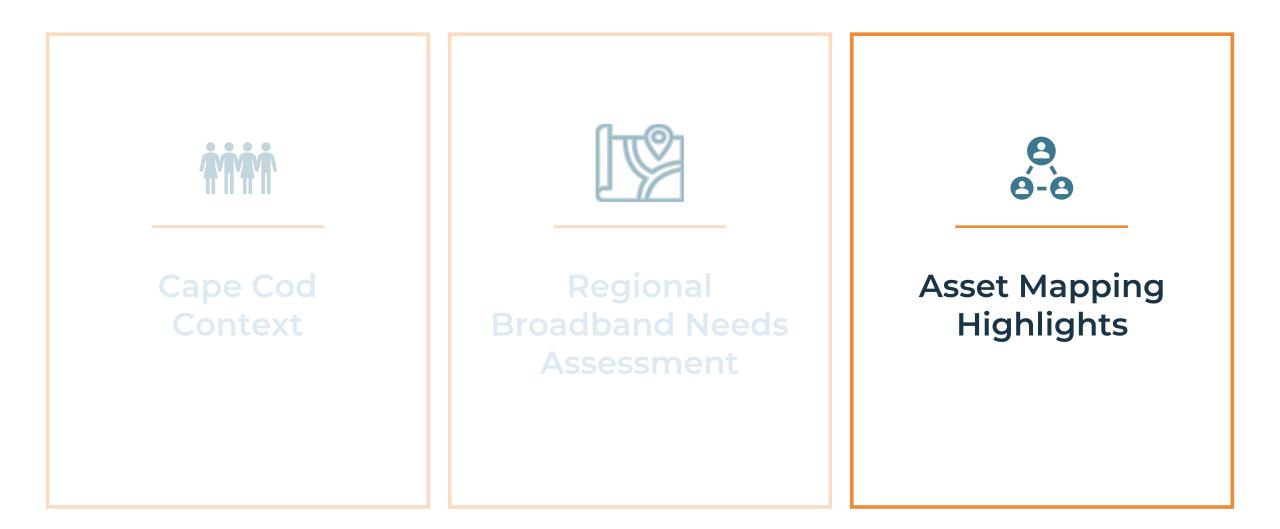
Source: Ookla (2022)

Notes: Outliers have been removed from the Ookla tiles, and remaining tiles were aggregated to the Census block-level. Only Census blocks with tests in both quarters are featured in the figure. Blocks exceeding 200 Mbps are represented in black (these blocks range from 201 to 636 Mbps). Areas in blue are large bodies of water and the area in green is Camp Edward. The average download speed in Barnstable County was 25 Mbps in Q3 and 40 Mbps in Q4.



150 100 50

## **Broadband and Digital Equity Activities**



# Asset Mapping Highlights

# Key Takeaways for Cape Cod

- Library services often include: access to devices and wi-fi onsite, hotspot and device lending, and digital literacy support through library staff.
- Councils on Aging across the region are partnering with Elder Services of Cape Cod & the Islands to offer digital literacy courses. Other services include: individualized programs to walk seniors through specific tech questions, group courses that incorporate elements of digital equity, and 1-on-1 support.
- Health and human services agencies frequently embed elements of digital equity within programs designed to achieve broader goals.

# Broadband & Digital Equity Planning

# www.capecodcommission.org/broadband

# **STEVEN TUPPER**, DEPUTY DIRECTOR stupper@capecodcommission.org



SEPTEMBER 28, 2023

CAPE COD COMMISSION



# Breakout Discussions

# **Remember the Ground Rules**



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Know when to lead versus **creating space for others to speak** 

**Be open** and listen to others. Even when you disagree, suspend judgment, and look for common ground.

Recognize that we are all approaching this process with different levels of understanding surrounding equity and digital equity.

**Respect confidentiality**. What is discussed in this room stays in this room.

### **Breakout Rooms**

We look forward to hearing from you on the topics below.

### Virtual Breakout Rooms:

Please follow this jam board link:

XX

### In Person:

Staff will assign breakout group participation

# **Visioning Exercise**

Thank you for your participation in breakout discussions. We would like to move into a visioning exercise to close out today's activity.

# What does Internet for All mean to you?

Imagine it's five years in the future. The Digital Equity Plan has been a resounding success. After some initial challenges, Massachusetts's solutions are having a huge impact on the world in ways you'd never even imagined!

• Take 1 minute to scan the QR code to the right and use one word to answer the question above.



# Closing Session

04

## **Report back**

Thank you for your participation in our facilitated discussion. We want to learn more about what you heard and discussed.

What was discussed in your breakout room?

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# Thank you!

# Contact MBI at

broadband@masstech.org

broadband.masstech.org/internetforal