

INTRODUCTIONS

Please share your:

- Name
- Organization
- Role
- First memory of using the internet or a device

AGENDA

- Introductions
- Project overview
- Defining key terms
- Existing conditions in Falmouth
- Community engagement exercises
- Wrap-up



Background



- COVID-19
- ARPA, IIJA Digital Equity Act, BEAD



- MBI developing State Digital Equity Plan (SDEP)
- Funding for municipalities



- Commission is a service provider for municipalities
- Supporting regional digital equity & broadband initiatives
- Falmouth embarking on municipal plan

This project was funded by the Massachusetts Broadband Institute at the MassTech Collaborative under the Municipal Digital Equity Planning Program. Funding was provided by Massachusetts ARPA State Fiscal Recovery Funds.

WHAT IS A DIGITAL EQUITY PLAN?

Purpose of the plan

- Understand current landscape of digital equity
- Prepare for future funding opportunities
- Equitable implementation: ensure that all benefit from infrastructural and programmatic investments

WHAT IS A DIGITAL EQUITY PLAN?

Plan Elements

- Introduction & Town Vision for Digital Equity
- Current State of Digital Equity

 Existing conditions, knowledge gaps, challenges, and opportunities
- Community Engagement Process

 Who was engaged and how were they engaged
- Key Findings

 Discoveries from data collection and community engagement
- Recommendations

 Recommendations for driving solutions, funding, and evaluation

Tasks and Timeline

Conditions Data

Collection

Develop Municipal Kickoff, Asset **Digital Equity Plan Coordination With** Workshop/ **Mapping & Outreach** Preparation Preparation **Municipal Staff** JANUARY - MARCH November 2024 **SUMMER 2024 SEPTEMBER 2024** 2025 **AUGUST** -**OCTOBER & DECEMBER 2024** SEPTÉMBER 2024 **NOVEMBER 2024** Community Stakeholder Workshop Existing

Outreach

1-on-1 conversations, survey distribution, targeted workshop outreach, and pop-ups, to occur up through workshop date

Project Roles

Commission staff:

- Project management
- Conduct stakeholder & community outreach
- Collect and compile data
- Facilitate community workshop
- Draft digital equity plan

Town of Falmouth & Falmouth MLP:

- Inform a shared town vision & goals
- Local guidance & sounding board
- Support outreach
- Participate in community workshop
- Identify implementation roles for town & MLP
- Implement digital equity plan

Community members:

- Contribute to town vision & goals
- Provide information that will inform plan: challenges, opportunities, recommendations
- Engage in community outreach activities
- Take the MBI survey
- Attend community workshop
- Review plan and submit public comments
- Support town implementation of digital equity plan



Digital Equity: The Goal

"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."

Components of Digital Equity



Internet Connection

Affordable, fast, reliable, accessible.



Devices

Adequate, needsappropriate, affordable, accessible.



Literacy/Skills

Ability to use technology, functionality, trust, privacy concerns.

Covered Populations

Digital Equity (DE) & Broadband, Equity, Access, and Deployment (BEAD)

Covered Populations and Underrepresented Communities

Identify groups and communities disproportionally impacted by digital inequity



Low-income households



Indigenous and Native American persons



People with language barriers



Aging individuals



Members of ethnic and religious minorities



Racial and ethnic minorities



Incarcerated individuals



Women



Rural inhabitants



Veterans



LGBTQI+ persons



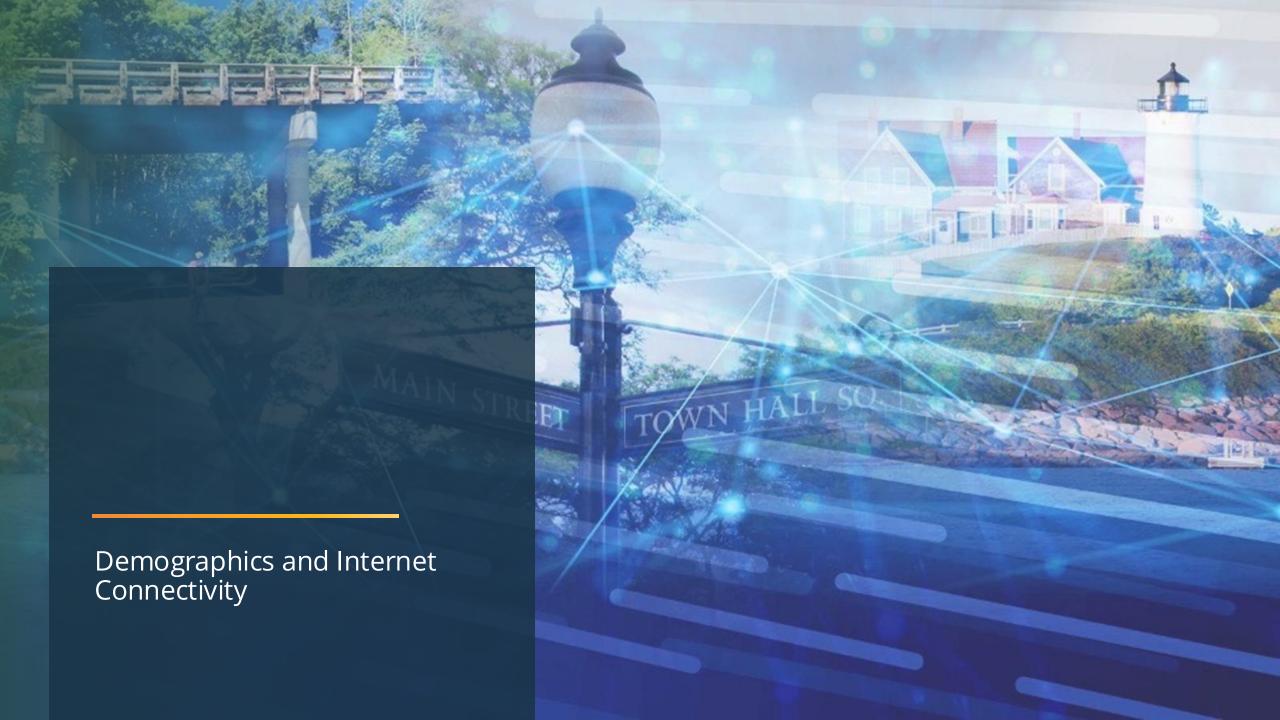
Persons adversely affected by persistent poverty or inequality



Persons of color



Persons with disabilities



Data Reviewed

American Community Survey, 2022 5-year Estimate Tables

- DP02, Selected Social Characteristics In The United States
- DP03, Selected Economic Characteristics In The United States
- DP04, Selected Housing Characteristics
- DP05, ACS 5-Year Demographic and Housing Estimates
- **S0101**, Age And Sex
- **\$1602**, Limited English Speaking Households
- B16005, Nativity By Language Spoken At Home By Ability To Speak English For The Population 5 Years And Over
- **\$1701**, Poverty Status In The Past 12 Months
- **\$1901**, Income In The Past 12 Months (In 2022 Inflation-adjusted Dollars)
- S2802, Types of Internet Subscriptions by Selected Characteristics
- B25093, Age of Householder by Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months
- B25072, Age of Householder by Gross Rent as a Percentage of Household Income in the Past 12 Months
- **B01001A B01001H**, Sex by Age and Race

 B19037A though B19037H, Age and Race of Householder by Household Income in the Past 12 Months

2020 Decennial Census Tables

 DP1, Profile Of General Population And Housing Characteristics

MA Department of Secondary and Elementary Education

- 2023-24 School Attending Children
- 2023-24 Enrollment By Race/Gender Report

Other

- Affordable Connectivity Program Enrollments And Claims, Through December 2023
- FCC National Broadband Map Data
- Massachusetts Broadband Institute Digital Equity Survey, Preliminary Falmouth Results

General Demographics

2022 American Community Survey 5-Year Estimates

Town of Falmouth

KEY DEMOGRAPHIC INFORMATION

POPULATION
32,694
MEDIAN AGE

56.5

HOUSING UNITS
22,138
SEASONAL

6,691 (30.2.%)

HOUSEHOLDS

14,237

HOUSEHOLD SIZE

2.27

11,966 (84.0%)

HOLD SIZE RENTERS
2,271 (16.0%)

OWNERS

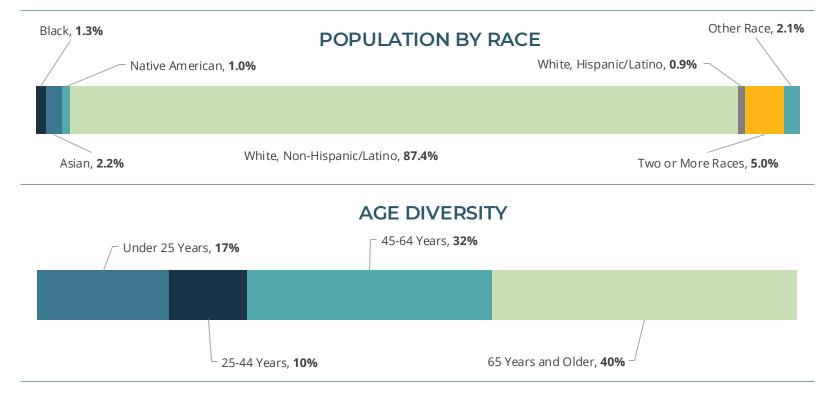
BROADBAND
91.5%
NO COMPUTER

4.7%

MEDIAN SALES PRICE **\$705,000** (2022 Home Sales)

HOUSEHOLD INCOME \$89,809 Median FAMILIES IN POVERTY 4.5%

(Various Sources)



COVERED POPULATIONS

Veterans

People in Poverty

Aging Population (60+)

With a Disability

Language Barrier



6.5%



5.6%



45.5%



15.8%



2.1%

General Demographics

2022 American Community Survey 5-Year Estimates

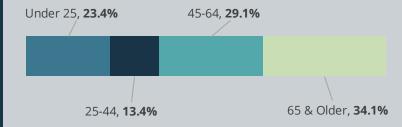
Census Tract 143

West Falmouth

POPULATION: 3,748



MEDIAN AGE: 58.1



HOUSING AND INCOME

| HOUSING UNITS 3,627 | HOUSEHOLDS 1,541 | OWNER UNITS 1,491 (96.8%) | HOUSEHOLD INCOME \$149.583 |
|---|----------------------------------|-------------------------------------|----------------------------|
| seasonal units 754 (25.3%) | HOUSEHOLD SIZE 2.87 | RENTER UNITS 50 (3.2%) | % HHPOVERTY 2.9% |

CONNECTIVITY



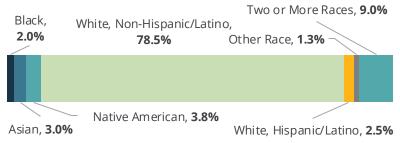


No Home Computer **1.0%**

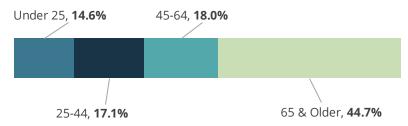
Census Tract 148

Downtown/Falmouth Heights





MEDIAN AGE: 62.5



HOUSING AND INCOME

| HOUSING UNITS 2,964 | HOUSEHOLDS 1,905 | OWNER UNITS 1,000 (52.5%) | HOUSEHOLD INCOME \$50.594 |
|---|----------------------|---------------------------------|-----------------------------|
| SEASONAL UNITS 250 (10.7%) | HOUSEHOLD SIZE 2.65 | RENTER UNITS 905 (47.5%) | % HH POVERTY 9.2% |

CONNECTIVITY



Has Internet Subscription



No Home Computer **10.7%**

Covered Populations

2022 American Community Survey 5-Year Estimates

Census Tract 143

West Falmouth

POPULATION: 3,748





Veterans

6.5%



People in Poverty

5.6%



Aging Population (60+)

45.5%



With a Disability

15.8%



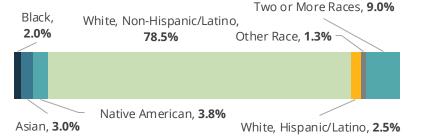
With Language Barrier

2.1%

Census Tract 148

Downtown/Falmouth Heights

POPULATION: 3,679





Veterans

8.5%



People in Poverty

22.6%



Aging Population (60+)

53.0%



With a Disability

24.5%



With Language Barrier

4.3%

Falmouth Public Schools Student Population

Falmouth Public Schools

| | 2013-14 | 2023-24 |
|----------------------------|------------------------|----------------------|
| Enrolled* | 3,541 | 2,892 |
| Race* | | |
| White | 2,958 (83.5%) | 2,153 <i>(74.4%)</i> |
| Black | 150 (4.2%) | 148 <i>(5.1%)</i> |
| Asian | 92 (2.6%) | 48 (1.7%) |
| Hispanic | 124 (3.5%) | 302 (10.4%) |
| Native American | 43 (1.2%) | 33 (1.1%) |
| Multi-Race | 170 (4.8%) | 203 (7.0%) |
| Characteristics* | 2013-14 | 2023-24 |
| First Language Not English | 122 (3.4%) | 343 (11.9%) |
| English Language Learner | 49 (1.4%) | 218 <i>(7.5%)</i> |
| Students With Disabilities | 674 (18.7%) | 714 <i>(24.4%)</i> |
| Low Income | 1,042 (29.4%) | 1,141 (39.5%) |
| High Needs | 1,458 (40.5%) | 1,562 <i>(53.3%)</i> |

[•]Includes all students enrolled, regardless of hometown.

SOURCE: Mass. DESE 2023-24 Enrollment By Race/Gender Report

Falmouth

School-Aged Children

Total

3,302

| Local Public | 2,644 |
|-------------------|-------|
| Vocational | 200 |
| Collaboratives | 26 |
| Charter | 119 |
| Other Districts | 71 |
| Private/Parochial | 200 |
| Home Schooled | 42 |

Total Public Schools 3,060

SOURCE: Mass. DESE 2023-24 School Attending Children Report

Falmouth Public Schools Student Population

Student Diversity

| School | Grades | Enrolled | White | Black | Hispanic | Asian | Multi- Racial | Native American | Native Hawaiian Pacific Islander |
|------------------------------|--------|----------|-------|-------|----------|-------|------------------|--------------------|---|
| East Falmouth Elementary | K-4 | 298 | 69.5% | 7.7% | 9.7% | 3.0% | 9.1% | 1.0% | 0.0% |
| Teaticket Elementary | K-4 | 255 | 72.9% | 5.5% | 11.0% | 1.6% | 8.2% | 0.8% | 0.0% |
| Mullen-Hall Elementary | K-4 | 376 | 73.1% | 1.6% | 13.8% | 2.7% | 7.7% | 1.1% | 0.0% |
| North Falmouth Elementary | K-4 | 297 | 82.8% | 1.3% | 7.7% | 1.3% | 6.1% | 0.7% | 0.0% |
| Morse Pond School | 5-6 | 480 | 72.5% | 5.8% | 12.1% | 1.7% | 7.3% | 0.6% | 0.0% |
| Lawrence | 7-8 | 459 | 74.7% | 4.8% | 10.2% | 0.9% | 7.6% | 1.7% | 0.0% |
| Falmouth High | 9-12 | 727 | 75.4% | 7.0% | 8.9% | 1.2% | 5.2% | 1.5% | 0.0% |
| Total | | 2,892 | 74.4% | 5.1% | 10.4% | 1.7% | 7.0% | 1.1% | 0.0% |

Townwide Student Population

SOURCE: Mass. DESE 2023-24 Enrollment By Selected Population Report

[•]Includes all students enrolled, regardless of hometown.

Falmouth Public Schools Student Population

Selected Populations

| School | Grades | Enrolled | First Language Not English | English Language Learner | Students With Disabilities | Low Income | High Needs |
|------------------------------|--------|----------|-------------------------------------|--------------------------------|----------------------------------|---------------|---------------|
| East Falmouth Elementary | K-4 | 298 | 13.1% | 12.1% | 41.6% | 53.0% | 74.5% |
| Teaticket Elementary | K-4 | 255 | 14.5% | 11.8% | 24.3% | 53.7% | 65.1% |
| Mullen-Hall Elementary | K-4 | 376 | 17.0% | 13.6% | 17.6% | 39.9% | 53.2% |
| North Falmouth Elementary | K-4 | 297 | 6.7% | 4.4% | 14.8% | 22.9% | 35.0% |
| Morse Pond School | 5-6 | 480 | 10.4% | 4.4% | 21.0% | 36.9% | 48.8% |
| Lawrence | 7-8 | 459 | 12.0% | 6.5% | 26.4% | 41.8% | 54.9% |
| Falmouth High | 9-12 | 727 | 10.7% | 5.1% | 21.6% | 35.6% | 47.3% |
| Total | | 2,892 | 11.9% | 7.5% | 23.3% | 39.5% | 52.6% |

Townwide Student Population | **RED** = 25% or above.

SOURCE: Mass. DESE 2023-24 Enrollment By Selected Population Report

[•]Includes all students enrolled, regardless of hometown.

Devices in Use by Household

| More Than One Device | West Falmouth Tract 143 | Falmouth/North Falmouth Tract 144.02 | East Falmouth Tract 145 | Davisville/ Seacoast Shores Tract 146 | Teaticket Tract 147 | Downtown/ Falmouth Heights Tract 148 | Woods Hole Tract 149 |
|-----------------------------------|--------------------------|--------------------------------------|-------------------------|--|----------------------------|---|----------------------|
| Desktop Or Laptop | 90.5% | 89.0% | 83.1% | 90.2% | 86.3% | 66.4% | 92.0% |
| Other Computer | 0.0% | 4.5% | 0.5% | 3.4% | 1.9% | 3.1% | 1.7% |
| Smartphone | 94.8% | 94.3% | 83.3% | 90.6% | 84.6% | 75.9% | 88.2% |
| Tablet/Portable Wireless Computer | 67.4% | 70.0% | 70.4% | 70.5% | 61.5% | 58.7% | 67.8% |
| Likely Multiple Connections | 86.5% | 84.0% | 83.7% | 77.2% | 85.4% | 69.6% | 76.6% |
| One Device Only | | | | | | | |
| Desktop Or Laptop | 3.2% | 1.6% | 4.0% | 3.4% | 4.8% | 5.7% | 6.1% |
| Other Computer | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Smartphone | 5.5% | 3.5% | 4.6% | 3.7% | 3.7% | 12.5% | 1.7% |
| Tablet/Portable Wireless Computer | 1.0% | 1.7% | 0.7% | 1.5% | 0.0% | 5.8% | 0.3% |
| No Computer | 1.0% | 0.4% | 8.3% | 3.2% | 7.4% | 10.7% | 2.9% |

Internet Coverage

Internet Service Providers in Falmouth Marketing Speeds: Self-Reported to FCC

FCC Methodology

- A census block is considered to have access if at least one broadband provider advertises speeds of 100 Mbps download and 20 Mbps upload of higher.
- Download and upload speed represent maximum advertised speeds providers report making available.
- A property is considered connected if a provider can install connections within 10 business days.

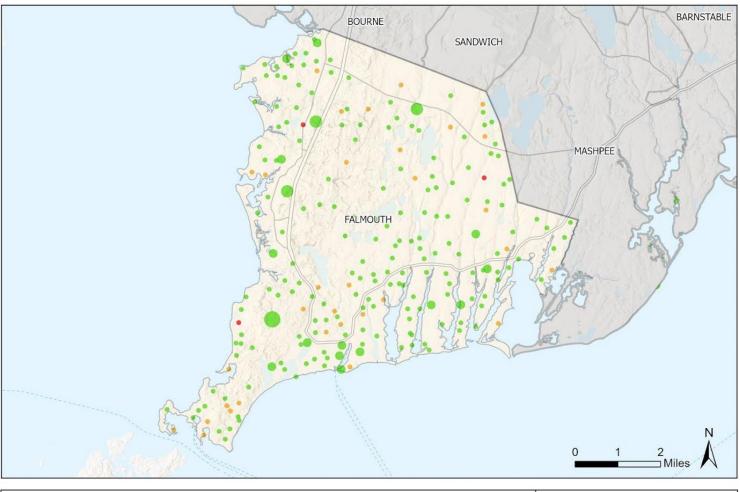
| | | Download (Max MBPS) | Upload (Max MBPS) | Coverage |
|-----------|---------|----------------------------|--------------------------|----------|
| Cable | | | | |
| Xfinity | 1200 | 35 | 539 | 2.6% |
| Xfinity | 2000 | 200 | 20,320 | 97.2% |
| | | Combined Towr | nwide Coverage | 99.8% |
| Licensed | l Fixed | Wireless | | |
| T-Mobile | 100 | 20 | 2,039 | 9.8% |
| VERIZON | 200 | 30 | 212 | 1.0% |
| VERIZON | 300 | 20 | 2,426 | 11.6% |
| Fiber-to- | Premis | ses | | |
| Xfinity | 100 | 100 | 9 | 0.04% |
| Xfinity | 200 | 200 | 6 | 0.03% |
| Xfinity | 300 | 300 | 5 | 0.02% |
| Xfinity | 500 | 500 | 12 | 0.06% |
| Xfinity | 1000+ | 1000+ | 8 | 0.04% |

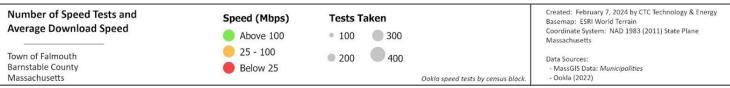
NOTE: OpenCape and other similar services are not required to self-report advertised speeds to the FCC and are not included in the data.

Internet Coverage

Fixed and Mobile
Broadband Needs
Assessment
CTC Technology and Energy
Prepared for Barnstable County

Average Download Speeds





Data from Expired Affordable Connectivity Program (ACP)

As of Feb. 1, 2024

ACP Provided:

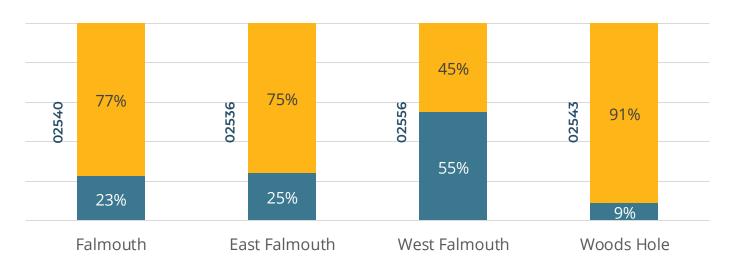
- Service discount up to \$30/month
- Service discount up to \$75/month on qualifying Tribal lands
- Device discount up to \$100 for a qualifying device

The **Affordable Connectivity Program** expired in April 2024. It was an FCC benefit program to assist households afford broadband connections for work, school, healthcare and more.

Townwide:

- Eligible Households: 3,600 (Appx) 11% of households
- Households Enrolled: 891 (25%)

Missed Connections



■ % Eligible Households Enrolled

■ % Eligible Households NOT Enrolled



Community Engagement Overview

Learn from **practitioners** and **community members** on **challenges** within the digital world and **opportunities** to advance digital inclusion.

- Public participation to inform which will be developed by the community for the community.
- Continued collection of data.
- Outreach responsive to diverse needs that yields equitable participation.
- Engagement with populations most impacted by the digital divide.



Community Engagement Strategy

Digital Equity Survey (MBI)

- Targeted and broad distribution of survey by entities across town.
- Offered online and in paper, in multiple languages.

Community Pop-Ups

- Multiple (approx. 3) pop-ups hosted at welcoming local spaces to meet people where they are at in the community.
- Informal, semi-structured conversations with residents to solicit authentic feedback.

Stakeholder Interviews

• 1-to-1 and email-based communication between Commission staff and key stakeholders to inform final plan.

Community Workshop

- Includes presentation of project, data, and ample time for community discussion and feedback.
- Attendees include municipal and community-based organization staff as well as the public broadly.



Community Workshop

- Hosted in welcoming community location, ideally with a connection to covered populations.
- Presentation: overview of plan, key definitions, and data.
- Exercises:
 - Asset mapping
 - Challenges and opportunities
 - Visioning and goal-setting
- Opportunities for feedback and questions.

Digital Equity in Falmouth

What does digital equity look like in Falmouth?

What challenges exist for Falmouth community members?

How does your organization or department contribute to digital equity? Do you offer services that support residents with the internet or technology?

What other entities support Falmouth community members with internet, technology, and other related needs? Who else is part of this landscape?

Planning Questions

Pop Ups

Which populations should we target for popups? Which community organizations should we partner with to host? Select 3 venues.

Community Workshop

Where should the community workshop take place? Other logistical considerations (date, time, other accommodations)?

Vision and Goals

What would a successful digital equity plan look like for the Town of Falmouth? What would you like this process to achieve?

