

Rules of the Road

This is a structured, informal conversation

- Hold your questions 'til the end there's time for Council and Residents
 - Write them down so you remember them, and can submit them if they aren't addressed in the limited meeting time

 This is our first community-level discussion of costs
 – more detail and committed costs will come from the Request for Proposal (RFP) process



Agenda

- Agenda
- Introductions
- Outcomes
- EFCI Objectives
- Planning & Community Engagement Funds
- Implementation Cost Planning Estimate
- Funding Models
- Business Models
- Council Discussion and Questions
- Resident Discussion and Questions
- Next Steps



Outcomes for Today

- Increased council understanding of the Fiber Initiative
- Initial visibility to estimated costs and timeline
- Business model to address costs
- Council and Committee in sync
- Committee available to Council and Community



History Repeating Itself

- 1800's U.S. Government wisely invested in cross-country rail system
- 1930's U.S. Government invested in **Rural Electrification Act** that brought electricity to every corner of the country
- 1950's President Dwight D. Eisenhower invested in the Interstate Highway System
- Now, in the 21st Century, the U.S. is investing in High-Speed
 Symmetrical Fiber Broadband Internet

The need is here. The money is available. The time is NOW.



Why fiber, why now?

When compared to cable, fiber generally:

- Offers greater bandwidth than copper cables of the same diameter
- Has **faster speeds** about 70% of the speed of light with less degradation than cable
- Can carry signals farther than copper cable
- Is more reliable immune to temperature, weather, and moisture
- Doesn't carry a current so not effected by electromagnetic interference (EMI)
- Is thinner and sturdier withstands more pull pressure than copper, less prone to damage & breakage
- Offers flexibility for the future
- Has a lower total cost of ownership (TCO)



EFCI Mission

To provide access to community-driven, affordable, end-to-end fiber optic-based Internet connectivity providing fast, tiered, reliable, symmetrical upload and download to all Eastport residents and businesses

- Symmetrical: Same upload (Maine to the world) and download (world to Maine) speeds
- **Tiered**: Multiple offerings providing specific upload/download speeds and pricing to help users select the best cost/performance option for their needs



Eastport Fiber Objectives

- Implement an end-to-end fiber optic network providing "future-proof" access for the next 60-75 years
 - Optical Network Terminals determine system throughput, can be upgraded without touching the fiber
- Engage, educate, and involve residents and businesses from the start
- Tiered services packaging cost and symmetrical upload/download speeds
- Customers select the best cost/performance option to meet their needs
- Symmetrical (upload/download) performance (1 GB or better top tier)
- Obtain **grants to minimize Eastport costs** (planning, implementation, community engagement, etc.)
- No local tax impact to residents





Eastport Fiber Objectives

- Leverage state and federal programs to reduce access costs for qualifying residents
 - Affordable Connectivity Program (ACP)
- Service Level Agreement (SLA) with Internet Service Provider (ISP) partner to provide high availability and performance regardless of weather, time of day, system maintenance etc.
- Firm partner commitment to a completion timeline
- Eastport-owned infrastructure
- Transparency and engagement as the plan matures
- Out-year revenue to the City of Eastport once any loans/bonds are paid off
- Council vote approves the plan, authorizes partner contract & grant submission



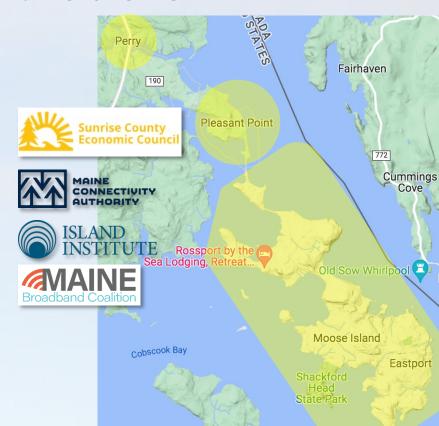
Misconceptions

- Residents will be forced to give up their current ISP
 - No. If you're happy with your current service/ISP, you can keep it
- Eastport has to pay ISPs for loss of business with migration to fiber
 - No. The loss of customers to Eastport Fiber is just the nature of business
- Eastport faces costs approaching \$10M
 - No. We don't have final costs but current estimates are much lower
- The only way to pay for Eastport participation is by raising taxes
 - No. By working with a partner where Eastport owns the infrastructure and receives a monthly percentage of every subscription fee, we can pay off any loans without effecting taxes. The system pays for itself.



Stakeholders: We're not in this alone

- Sipayik and Perry collaborating on fiber initiative
- Eastport City Council & government
- Eastport residents, schools, and businesses
- Sunrise County Economic Council
- Island Institute
- Maine Connectivity Authority (MCA)
- Maine Broadband Coalition
- National Digital Equity Center (NDEC)
- Potential Industry partners (installation, support, ISP)



Planning & Community Engagement Grants

Island Institute planning grant

\$ 5,500

Eastport matching funds (ARPA)

\$ 5,500

• Maine Connectivity Authority "Get Ready" grant

\$10,000

Working Total:

\$21,000

SPEN

\$2500 National Digital Equity Center (NDEC) Digital Equity and Inclusion (DEI) plan

\$4200 Community engagement, education, communications

\$1500 Broadband survey

\$2000 supporting equipment for event recording/video/communications

Total: \$10,200 [\$10,800 uncommitted]

Gap (\$35,000 technical survey)



Implementation Cost Planning Estimate



- Desktop survey numbers from Pioneer Broadband (no cost to city)
 - Same metrics as full engineering survey (need full survey for grant)
 - Reasonably accurate
- Initial cost estimate to begin exploring gap funding options
- Communities averaging +/- 75% of total cost via MCA grant process
- Eastport should plan to cover 25% of implementation cost



Implementation Cost Planning Estimate

• Pioneer Broadband desktop survey: \$1,755,929

Every house

Every small business

• \$35,000 technical survey

• Other costs: \$175,600

\$1,967,000 Total

\$491,750 25% not grant funded

\$500,000 Gap



Implementation Cost Planning Estimate

- Pioneer Broadband desktop survey: \$1,755,929
 - Every house
 - · Every small business
- \$35,000 technical survey
- Other costs: \$175,600
- DBU buy-in
- Administration
- System management
- Maintenance
- Legal review
- Insurance
- Debt service & city payout

\$1,967,000

\$491,750 25% not grant funded

\$500,000 Gap





- City bond
 - Legal fees
 - 20-year term
 - Payout?

- City loan
 - Current interest rate
 - 20-year term
 - Annual payment



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 - Payout?

- City line of credit
 - Current interest rate
 - Use after grant spend
 - Only use as needed

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- City bond
 - Legal fees
 - 20-year term
 - Payout?

Subscriber fees being collected before need for line-ofcredit

- City line of credit
 - Current interest rate
 - Use after grant spend
 - Only use as needed

- City loan
 - Current interest rate
 - 20-year term
 - Annual payment

Business Model to Fund Gap

- Tax No tax impact
- Monthly per subscriber revenue pays loan/bond costs
 - Downeast Broadband Utility
 - Axiom
- Once loan/bond is paid, becomes recurring city revenue
 - Capital asset
 - Money to enterprise fund initially for fiber needs/costs only



Business Model to Fund Gap (Loan)



Fiber Offer





Business Model to Fund Gap (Loan)



Fiber Offer



Loan payment

• \$3,373/mo

• \$40,475/yr

135 x \$25 = \$3,375/mo; \$40,500/yr

Note: Per subscriber return to Eastport: \$25



Business Model to Fund Gap (Loan)

ISP Partner

Loan payment

• \$3,373/mo

• \$40,475/yr

DBU model: DBU bills, collects fees, services loans with city's 25% cut

\$59/mo Average

Fiber Offer

100/100

30%

Take rate = 327

327 x \$25 = \$8,175/mo; \$98,100/yr

Note:

Per subscriber return to Eastport: \$25 After loans paid, funds to an enterprise fund – sole use is fiber connectivity

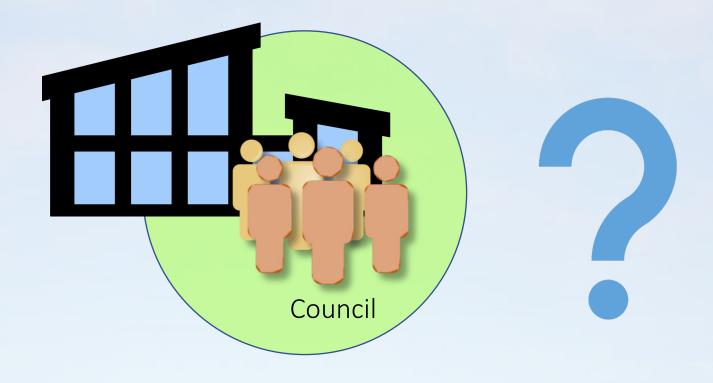


What's Next?

- RFP to candidate ISPs lock-in costs & commitment
 - Downeast Broadband Utility (DBU)
 - Axiom
 - Fidium (Consolidated Communications)
 - Spectrum
- Publish Facebook group
- Community engagement events & activities
 - Community chats about Fiber and Eastport
 - General
 - Specific audiences (youth, small business owners, older residents, etc.
 - Learning events on Internet, leveraging best value from fiber, etc.
 - Informational flyers, posters, and FAQ info sheets



Council Discussion & Questions





Resident Discussion & Questions





