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MTUG Webniar: September 25th, 2019









MBC in 2019

- Same mission and focus on representing the voice of internet users in statewide discussions
- **Leadership transition**
- **New organizational structure**
- **Building new partnerships**
- Increasing capacity to do work beyond grass roots policy advocacy

Maine Broadband Coalition (MBC) is a network of public policy professionals, educational institutions, businesses, non-profit organizations and individuals who care deeply about Maine's economic future. An important purpose of the MBC is to assemble cogent, factbased information to help public policy makers and Maine citizens make the best choices about building a robust and productive information technology infrastructure — decisions we are all facing right now. We welcome one and all to this effort.

2019 MAINE BROADBAND SUMMIT

OCTOBER 28 & 29, 2019 · THOMAS COLLEGE · WATERVILLE, MAINE







Join us for Maine's annual broadband summit, focused on inspiring and empowering community leaders to address the challenges of bringing reliable, high-speed internet to Maine.

Day 1 of the two-day conference will bring together local leaders from communities across Maine to share experiences and updates on their community-driven broadband projects.

On Day 2, local leaders will be joined by state and regional leaders, technical experts, and affiliated partners to help connect communities with resources and tools for reaching broadband goals

For more information please see:

http://www.islandinstitute.org/event/2019-maine-broadband-summit

Everybody gets a Gig

My Goal:
Put broadband in
every conversation
around Maine's
economy.

Build stronger community partnerships.

Expand the understand of the potential of broadband

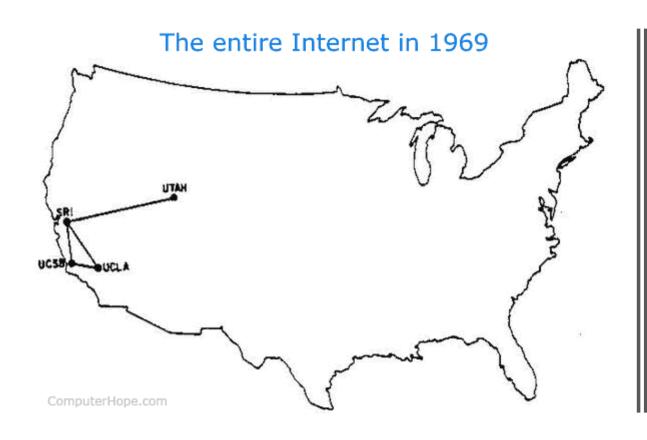
How we build this stuff is important.

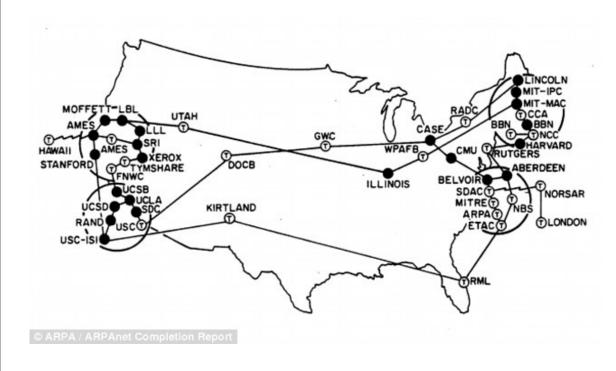
Who owns it is important.

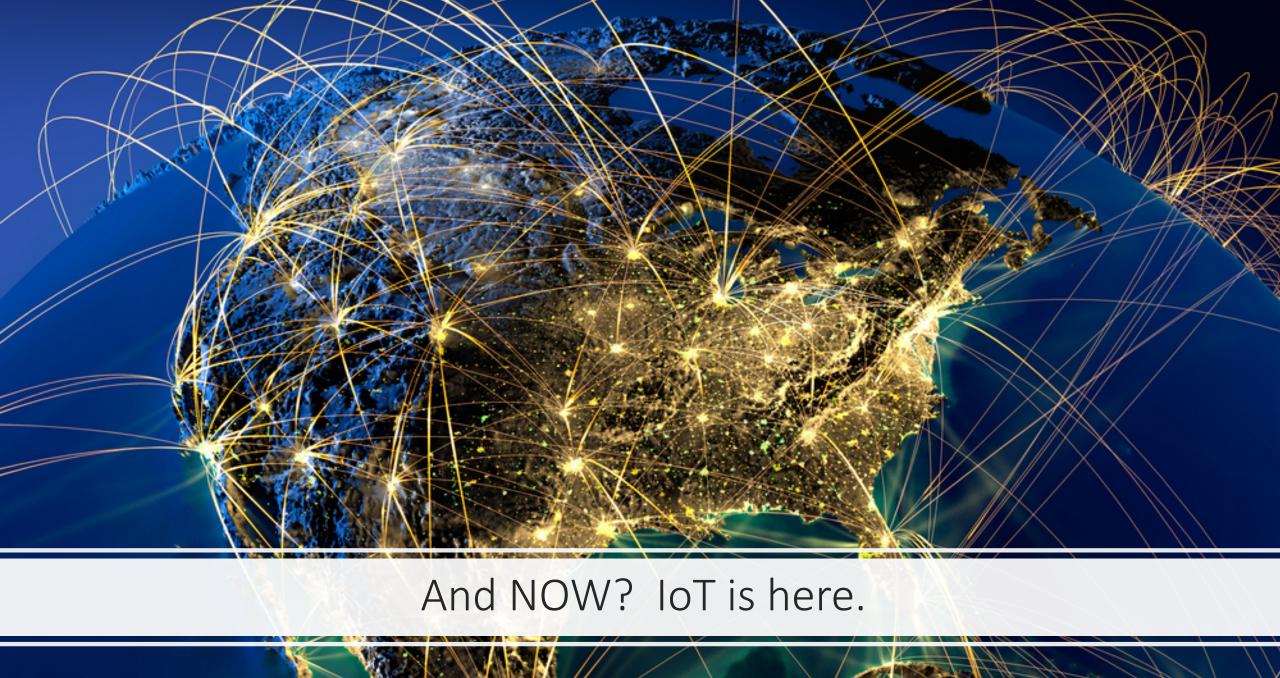
Get real data on economic impact.

Everybody gets a GIG! (bit)

Where it Started





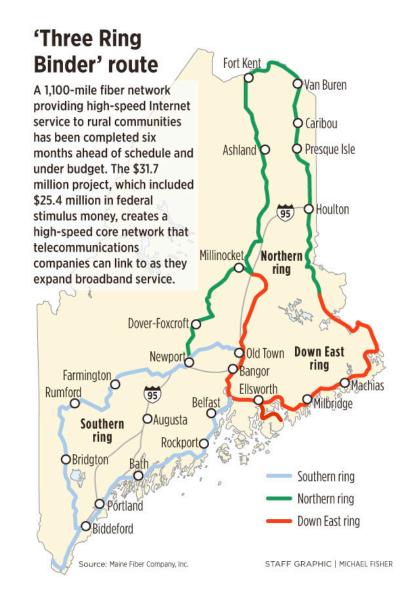


We are using more. LOTS MORE. That is only going to increase.

- World Wide Users:
- 12/1995 16 M 3/2019 4,346M (up 33M since 12/2018)
- Average monthly data use for households grew from:
 - 2017: 201.6 gigabytes
 - 2018: 268.7 gigabytes in 2018
 - Growth rate of 33
 - An increase of 67.1 gigabytes in just a YEAR
 - EVERYBODY NEEDS ACCESS TO A GIG(bit)

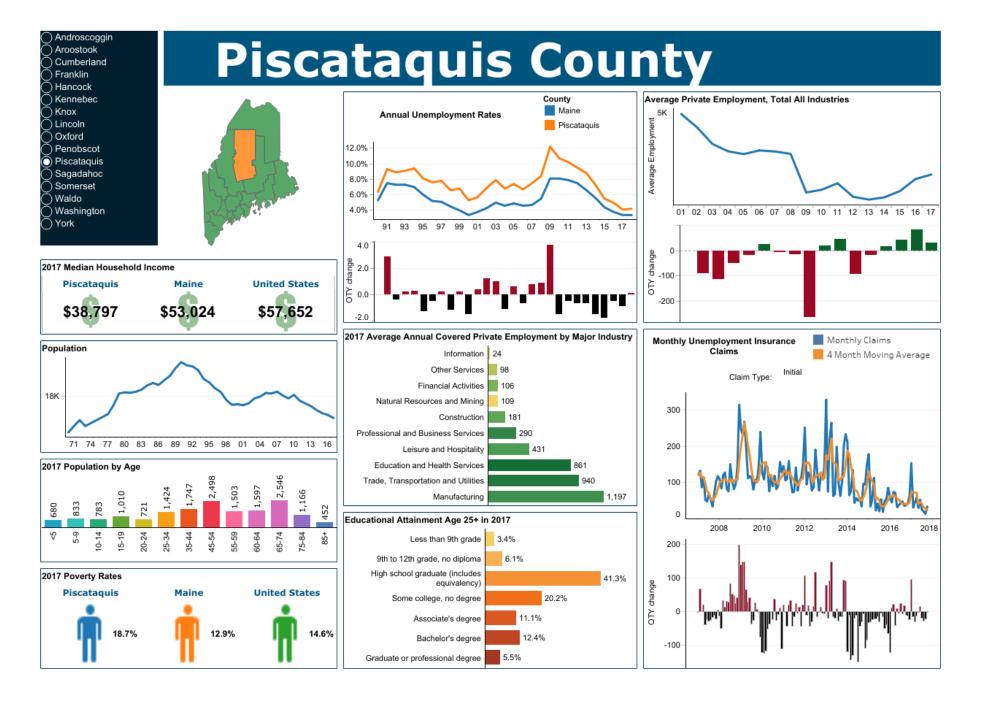
Maine Assets

- 3 Ring Binder
- Maine School Library Network
- Great Local providers/Vendors
- Maine Broadband Coalition ©
- ConnectME ©
 - Community Planning
 - Infrastructure
- Momentum



MAINE HOUSEHOLD DATA 25/3 MBPS			
			% of households
		Households with less	with less than 25/3
County	Total households	than 25/3 Mbps	Mbps
Maine	722,106	83,144	11.5
Piscataquis	7,5 72	5,826	76.94
Franklin	11,684	6,196	53.03
Hancock	23,748	8,290	34.91
Waldo	16,820	5,395	32.07
Washington	14,065	4,399	31.28
Oxford	20,723	5,498	26.53
Somerset	21,376	4,917	23.00
Aroostook	29,852	5,080	17.02
Lincoln	15,021	1,385	9.22
Penobscot	61,787	5,461	8.84
Sagadahoc	15,613	1,366	8.75
Knox	16,813	1,276	7.59
Kennebec	50,829	1,047	2.06
York	82,588	972	1.18
Cumberland	117,871	1,068	0.91
Androscoggin	44,747	318	0.71

- Dramatic gap between rural and urban counties
- Developed using FCC Form 477 data
 which assumes that if one address in a
 census block is covered the entire block
 is covered so the availability is
 overstated.
- Information is accurate from a directional perspective and is aligned to what the FCC will use to make their decisions.



) Androscoggin **Kennebec County**) Aroostook Cumberland) Franklin) Hancock Kennebec County Average Private Employment, Total All Industries) Knox Kennebec **Annual Unemployment Rates**) Lincoln Maine Oxford 음 43K 8.0%) Penobscot) Piscataguis \$ 42K) Sagadahoc 6.0%) Somerset) Waldo 4.0%) Washington 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17) York 91 93 95 97 99 01 03 05 07 09 11 13 15 17 2.0 change 2017 Median Household Income **United States** Kennebec Maine 0.0 \$50,116 \$53,024 \$57,652 2017 Average Annual Covered Private Employment by Major Industry Monthly Claims Monthly Unemployment Insurance Population Claims Natural Resources and Mining | 351 4 Month Moving Average 120.. Claim Type: 115.. Financial Activities 1,504 110.. 2,009 Construction 105.. Other Services 2.059 1.000 100. Manufacturing 71 74 77 80 83 86 89 92 95 98 01 04 07 10 13 16 Leisure and Hospitality 5.075 Professional and Business Services 5,283 2017 Population by Age 11,748 Trade, Transportation and Utilities 6,687 Education and Health Services 12,658 2,677 Educational Attainment Age 25+ in 2017 2008 2010 2012 2014 2016 75-84 Less than 9th grade 3.6% 400 9th to 12th grade, no diploma High school graduate (includes 2017 Poverty Rates equivalency) Kennebec Maine **United States** 20.7% Some college, no degree 10.6% Associate's degree 12.9% 14.6% 16.4% Bachelor's degree Graduate or professional degree

Digital Age Makes Possible:







2017 Digital Economy in the US

2006-2016 Growth Rates:
Digital Economy 5.6%
Overall Economy 1.5%

- 5.1 Million Jobs
- 6.9% of GDP (\$1.35 Trillion)
- \$132,223 in average compensation

BUT GUESS
WHAT? You need
to be connected to
a fast, reliable
network

Significant Changes in workforce are here

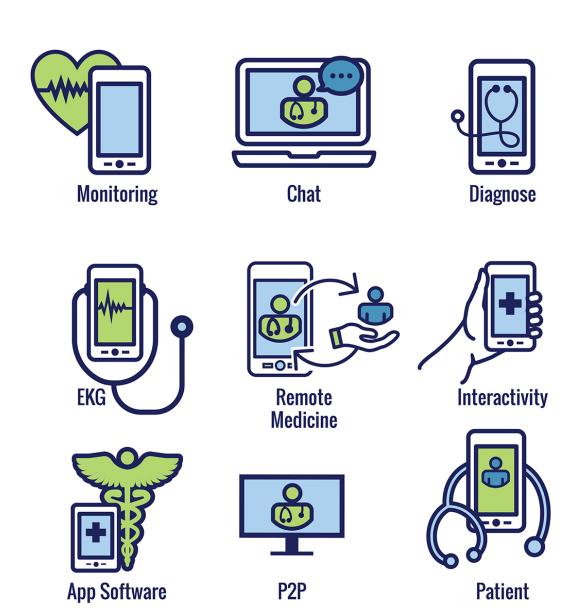
- Up to 54 million workers in the US (one-third of workers) in 2030 may need to switch occupational categories
- Google, Apple and 12 other companies no longer require a B.A
- 82% of middle-skill jobs require digital skill, and increase of 4% since 2015 (46% of all jobs)

sources: McKinsey Global Institute (2017)
Capital One; Burning Glass, and Glass Door



Telehealth

Most significant innovation in modern Health care Mobile health is a \$23B industry, expected to grow to \$102B by 2022.



Telework:
21st Century
Economic
Development

50% of US workforce hold jobs that are compatible with Telework

- Teleworkers can save \$4000 per year by not commuting
- Companies can save \$2000 a year per employee
- Increased productivity and reduces turn over
- Environmental savings from less transportation, smaller building, less heat and air conditioning.



Digital Inclusion taking advantage of the promise of the internet with required components

Affordable and Robust high speed connection

Internet Enabled affordable devices that meet the needs of the user

Digital literacy training

Quality technical support

Applications and online content that encourage self-sufficiency, participation and collaboration

source: National Digital Inclusion Alliance

What is happening now in Maine

Community Planning

Maine Community Foundation/Island Institute

Next round of CME grants

FCC: \$20.4B RDOF reverse auction

USDA: RUS and ReConnect

Potential Telehealth initiative

In state
Funding:
Where we are right now.

ConnectME Fund (.25% on landlines and broadband – about \$900K)

\$2m in the Governor's Budget (surcharge on phone lines)

Pending bond bills. Infrastructure only.

CMP Power Line?

Foundations (Libra) Other potential investors.

Success Stories

Islesboro, South Portland, Downeast Broadband Utility, Cambridge

Community planning efforts taking root: Oxford, Franklin, Lincoln, Piscataquis

Community Planning success - Bowdoinham

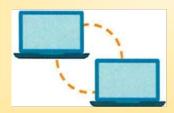
Federal Funding Successes – Cranberry Isle, Alton, Sanford

Challenges: It's all work. Timing is critical. Partners are required.

Unlocking Rural Maine's digital potential: High Speed connectivity disrupts the role that location traditionally plays in the economy.

Broadband as an economic tool is cheap

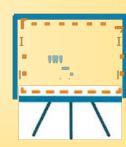
- \$47 B per year to GDP
- 360,000 jobs in the next three years
- 4:1 ROI on investment



Increase Connections in Rural Maine

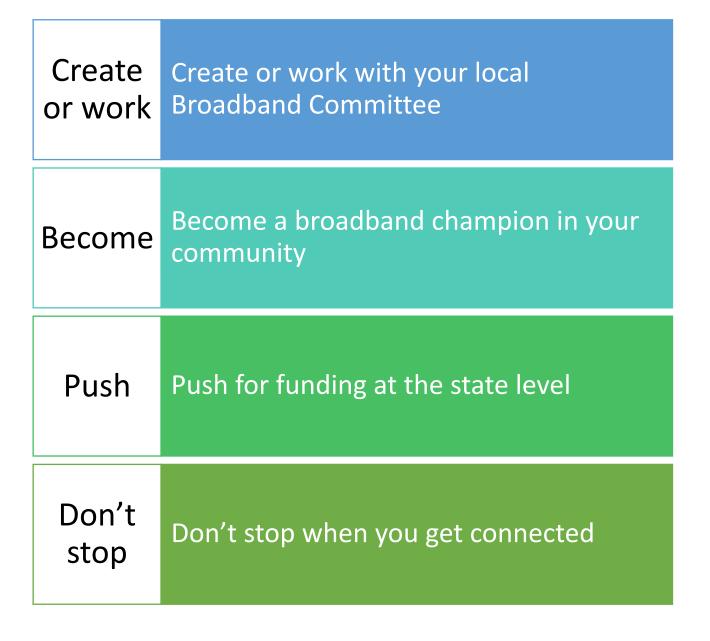


Increase the talent pipeline of candidates trained in digital skills (cloud, digital marketing)



Increase adoption of digital training and digital tools by rural small businesses so they can scale their operations

What can you do?



Don't forget to attend the 2019 Maine Broadband Summit!

For More resources:

- ConnectME Authority
 https://www.maine.gov/connectme/home
- Island Institute http://www.islandinstitute.org/broadband
- Maine Broadband Coalition https://www.mainebroadbandcoalition.org

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