# Mapping Broadband Health in America 2024 Release Navigation Guide



## **About the Platform**

The Mapping Broadband Health in America platform puts you in the driver's seat to understand the intersection of broadband and health.

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Click on or lookup the county in the search bar	Select View O	Brachard	binetty.
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#### About the Platform

Mapping Broadband Health in America is a novel, interactive mapping platform created by the Connect2Health<sup>FCC</sup> Task Force to provide compelling insights into opportunities and gaps in the connected health space. By using the mapping platform as a foundation for understanding the intersection of broadband and health, policymakers, practitioners, researchers, and other platform users can chart a concrete path to a more connected and healthing future for all Americans.

#### Maternal Health, Chronic Disease and Opioids

From its initial launch and through various updates and expansions, the platform remains a critical resource that enables users to visualize, intersect and analyze broadby and the analyse users to visualize, intersect and analyze broadby and the analyse intersect and analyze broadby and and county levels. Starting in June 2023, and in response to the analyse to <u>solve Moms' Lives Act</u>, the platform added key maternal health data, including maternal mortality, severe maternal morbidity, maternal care deserts, mental health providers, and maternal age. To drive even more meaningful insights, the platform has now been expanded to include additional broadband and maternal health variables, SDOH indicators, and demographic data, along with its more traditional focus on chronic disease outcomes and data responsive to the opioid crisis.

#### novative Visualization Framework

- Mapping Broadband Health in America reflects a groundbreaking visualization framework that allows users to ask three fundamental questions about how broadband and health data intersect and where broadband can be leveraged to help improve health and health outcomes. These questions are linked to three distinct ways of viewing and manipulating the data to create custom visualizations: the OVERVIEW, BROADBAND, and HEALTH views.
- Where do broadband and health needs coincide? You can explore this in OVERVIEW where we categorize geographic areas (states or counties) into one of four categories keyed to their level of broadband connectivity and population health outcomes: Double Burden, Opportunity, Single Burden, Milestone.
- What is the broadband picture across different levels of health need? Using filtering, the BROADBAND view visualizes the broadband picture based on selected health metrics. You can then compare the broadband picture across different levels of health need.
- What is the health picture in higher or lower connectivity areas?
   Similarly, the HEALTH view visualizes the picture of health based on your selected broadband metrics (e.g., broadband access, rural access, Internet adoption).

51	
2	Dig Deeper
	Additional context to help you
	visualizations is available on the Focus on Broadband and Maternal Health;
	Focus on Broadband and Opioids: Cus on Broadband and Chronic
	Disease pages.

	PURLIC LAW 117-247-DEC 20 2022 13	6 STAT	2347			
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			Maternal Health Crisis			
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	117th Congress		<ul> <li>The U.S. is facing the increasing pr women with opioid related disprese</li> </ul>	evalence of worsening mental health and substance use disorders among some ac at dollway increased by 181% between 2016 and 2017. Mantal health issues (	when the second sector of second second second	at minutes of
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	Be it enacted by the Senate and House of Representatives of		<ul> <li>Recent data show that over 80% improving maternal health and adds</li> </ul>	of maternal deaths could be prevented. Telefecth and other broadsand enab-	According to the Centers for Disease Control	and Prevention
	the United States of America in Congress assembled,	Data Ma to Save 1	have higher threadland connectivity health catoonnes.	tend to have befor health, strongly suggesting that access to and adoption of b	Non than \$45,000 people IP in the Uni     Thermanber of armsal rated as endored.	od States have don't have overdones involving opicids since the epic badro remains more than six lineas higher if that I was in 1999.
	SECTION 1. SHORT TITLE.	Lives Ac	Data Manning to Save	Mome' Liver Act	<ul> <li>There were approximately \$1,800 spin</li> </ul>	i eventione deaths is $3323.0^\circ$ and $10\%$ involved synthetic opicities
	This Act may be cited as the "Data Mapping to Save Moms' Lives Act"	47 050 0	To address these tragic maternal health of	subcomes, the FCC is playing an increasingly greater role in advancing corrected	<ul> <li>Providence data reflects that the number further decition in drug coordinal dealths</li> </ul>	nof drug overloose deaths began to oscrease in 2023 \$1, the first tim \$, although much work remains.
	SEC 2 MARRING BROADRAND CONNECTIVITY AND MATERNAL		ofter advanced brouchand-enabled heat 24/}, which directs the FOC to incorporate	In inclusion plant in the United States, in December 2022, President likter signed to publicly svalishie data on maternal mortality and servere maternal morbidity in	Of course, optiod overdown may also be non- disprocortionally affect runs and underserved	fatel. These non-fatel opicid connections place apprilicant bankers on ones. For example:
	HEALTH OUTCOMES.		consultation with the Centers for Devaal outcomes' by generaling maps that pro-	Control and Prevention (CDC), Congress streed to "Increase line quality of mole- ide insight on the intersection of broadband and material health "where material	<ul> <li>These wave nearly 283,000 hospitalized</li> <li>Must of Pasia Councilalizations and area</li> </ul>	one and enveryoncy department risks <sup>of</sup> related to optical potenti sprey data uses not for by Madicana, Medicana, or the patenase
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	date of the enactment of this Act, the Federal Communications	Deadline Time per	The 2024 eleane includes additional mat	erral health and infant health data that can be inversion for a unity of question	In reception of the ponetics of broadband to its Hispong disactions (Health in America pre	help studenticiders respond to this ones, particularly in runal areas, C form/to indiside data on drug misuae. In response, the Connect2Hea
	Commission shall incorporate publicly available data on maternal		<ul> <li>Ask questions live, what is the statu</li> <li>Generate actionable insights for pol</li> </ul>	s of internet connectivity in areas where malienal mortality, severe maternal mort sizes and programs about how broadband connectivity can be inversiged to impri-	statefolders, for instance, policymakors can services to startify asses that could benefit to	e ang magang panan nang may marakan ang maging manang manang nang nang nang nang nan
	mortality and severe maternal morbidity, including for not less than 1 year postportum into the Manning Broadband Health in		d sparities. • Display selected data on broadbane	I connectivity (e.g., fixed and mobile access, Internet adoption, naral access) and	and sport make and convectivity, with a pa	tous tious on identifying areas where broadband enubled interven
	America platform of the Commission.		<ul> <li>customized maps at the state and o</li> <li>View maternal mortality, severe maternal</li> </ul>	ounty levels. amai morbibility, or infant mortality rates fittered by demographics, social and ecor	The integration of drug mituse data into the la	accord Broakband Health in America platform is a multi-phase proje
	(b) CONSULTATION WITH CDC.—The Federal Communications		first trimester, and runality to visualiz	a patients, possible disparity issues, and locations where broadband enabled in	What's new? In the October 2024 release, a m	por and research men water way advertision and users.
	Disease Control and Prevention regarding the maternal mortality		Mapping the Intersect	on of Broadband and Maternal Health	swrenivp, updated brokband access and a Madicarej, Opioid Use Disorder prevalence, V	topion variables, access to core via transportation, poor mental hear minan prevalence, race and ethnicity, tood insecurity, social uuliverab
	and severe maternal morbidity data that should be incorporated		ongoing consultation with the CDC, rules	openaned timetative to report to the Act, the task force parened and impairing ant opencies within the U.S. Department of Health and Human Services, and oth provide statements	The platform - which is available at www.fcr.pl and spark collaborations. Specifically:	$c_{\rm chailf}/raps F$ - allows users to identify and characterize the spe
	under subsection (a).		And the matter is needed as the second	agong paulon.	<ul> <li>Users can ask questions like, what is the augment prescription drup monitoring p</li> </ul>	e statue of internet connectivity in seven where the opioid online is be regrams and connectivity for health vs. Albit drug use.
	Approved December 20, 2022.		better inverage broadband and broadban	of enabled health inchrologies to improve maternal health. Consistent with that in the to adhealth additional lists of the second seco	<ul> <li>Users can display aslected data on ople the national, state, and county/aveit th</li> </ul>	id metally and prescription raise from the CDC with the fixed broad It explore the intersection between drug mease and internet connec
			Maternity Care, Intersecting Maternal He maternal bealth, the onle of tenedband or	alth and Broadband Data," to gather public and prode sector thought leaders to a social dependent of hadds, and the intributions of this temperature to improve	<ul> <li>retrice on internet adoption, rural bros</li> <li>Percent change to opposit mortality and</li> </ul>	thand access, and device commutity is a selected geographic area. resolution rates exacts users to exustan transfer and identify potent
			Read or the feetback the Task Corner	experiences as lotal represent all framework to outle the effect or dependent balance	interventions ingrit prove hultul.	
			October 2034 minore; pmy will be consid	seed for the future	<ul> <li>Plan Sators affecting space make an</li> </ul>	overdate have been added, including poor vierbal health days and
			16hat's New? In the 2021 release, a runt Instantaneity, diabates, obsolbt, smolth	are of new variables relevant to the broadband connectivity and maternal health r o downo preparato, breastfeeding initiation, one-term tech, low birth usidef, our	<ul> <li>Optisci Use Oborder prevalence, a key</li> </ul>	enditi sustonne variable, has been added.
			broadband access and adoption variable prevalence. food insecurity, and poolal w	<ul> <li>access to care via transportation, poor mental health days, health insurance or averability.</li> </ul>	<ul> <li>Liters can also filter by rarality and our food insecurity, and the social ultrenation</li> </ul>	ity other key <b>community factors</b> (such as now and ethnicity, and o ity index) to better understand the interaction between dug misus
					<ul> <li>Circl angoing challenge to the wally the referencess.</li> </ul>	conveniently-level data are not available for all relevant data points;
	LEGISLATIVE HISTORY S. 198 (H.R. 1218):			<sup>®</sup> C2H∝		
	RECOMPANY NO. 111-250 (Comm. on Energy and Commerce) accompanying HR. 1218.			SOCIAL DETERMINANTS OF HEALTH DOM/ Broadband Connectivity	Opioid Mortality and R	Prescription Rates
	SENATE REPORTS: No. 117-65 (Comm. on Commerce, Science, and Transporta- tion).				Drug wixuse vertable	Description
	CONGRESSIONAL RECORD, Vol. 168 (2022): Mar. 2, considered and passed Senate.			Haddhave Acons/Gastry	AL MARK	Dearth and mints that that drug investions for any reason po
	Dec. 5, considered in House. Dec. 6, prior proceedings vacated; considered and passed House, amended.			g Oducation Access/Gaulity Access/Gaulity	Any opicit	Deaths and mends due to overbooks for any masons and invo methadone, synthetic opicids other than methadone, and other
	Dec. 13, Senate concurred in House amendment.			Convertic Stability	Prescription opicide	Deaths and immeds due to countinees for any reason and invol-
	0			RISK FACTORS OUTCO	Synthetic opioids	Deaths and rends due to overdoses for any meson and invol-
				O Orronk Oleane Severe M	Herola	Dealts and rends due to overticses for any meson and invite
				Smithing During Programmy Motion		
<b>_</b>				Maternal Age Maternal I	Open preservents	Prescriptions include any initial or term precorption departed insurances, Medicard, Medicald, cash or its equivalent. Opixid technologies, hydrotectinger, methalises, monthline, second
_				6 Low Birts Weight Indant M	Oprost use disorder	Prevalence of everything Opened Lise Departer (CLUO) among
			(2)			
				MATERNAL HEALTH CARE	Broadband and Opioids Concepts	al Model
				Preconception Prenatal Care Labor and Octivery Care	conceptual model for intersecting brasidband use chander, eventiese, and morphits at a sec	and drug misure data. Specifically we identified key enderso takes addor-level - forming a potential mailmap for levenums broadband
					as part of the overall solution. These factors a reamon any P famp)	d their relationships are presented in the resulting Conceptual Mod
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# **Getting Started**





## **Welcome Screen**





## **Help Guide**

The Help Guide explains how to explore the intersection of broadband and health data using the platform and walks you through its features. You can access the Help Guide through the Welcome Screen, "Help me use the Platform  $\rightarrow$ " button or by clicking "NEED HELP?" on the right side of the map while using the platform.





## **Set View**

The platform allows you to intersect broadband and health data of interest in three unique ways, called "Views." To begin, use the buttons above the map to select a view.

Selec	ct View 🚯		
	Overview	Broadband	Health
Selec Broad Sele	t Variables 🚯 Iband Health ct Variable - Select Variable	Overlay Select Overlay	
	Overview: Shows where broadband and health needs coincide	Broadband: Displays the broadband picture filtered by health	Health: Displays the health picture filtered by broadband



## **Set Variables: Broadband**

Use the "Broadband" dropdown box to explore data on Internet Adoption, Broadband Access, Rural Access, and Device Select Variables Broadband health Ownership. Internet Adoption - Any Speed ... Select Va Broadband (none) Select Variables Broudband Overlay Filter 1 Internet Adoption nternet Adoption - Any Speed ... 🔹 Select Variable Select Filter Select Overlay (none) Broadband Adoption Internet Adoption Internet Adoption - Any Speed Broadband Adoptic Internet Adoption - Any Speed Internet Adoption - High Speed (Self-Report) Internet Adoption - High Speed (Self-Report) Broadband Access Broadband Access Rural Access Divice Ownership Rural Access .0 -----Device Ownership ~ Unreliable Withheld (D) memology @ Manhox @ OnenStreetMan

### **Broadband Variables**

### Internet Adoption

- Broadband Adoption
- Internet Adoption Any Speed
- Internet Adoption High Speed (Self-Report)

### **Broadband Access**

- Fixed Broadband Access
- Mobile Access
- Fixed Broadband and Mobile Access

### **Rural Access**

- Rural Fixed Broadband Access
- Rural Mobile Access
- Rural Fixed Broadband and Mobile Access

### **Device Ownership**

- Households No Device
- Households Smartphone Only
- Households Desktop or Laptop Only



## Set Variables: Health (1 of 3)

### Use the "Health" dropdown box to explore data on Maternal Health.



### Maternal Health Variables

### **Health Outcomes**

- Maternal Deaths
- Maternal Mortality Rate
- Late Maternal Death Rate
- Severe Maternal Morbidity Rate
- Infant Mortality Rate

#### Access to Care

- Maternity Care Deserts
- Mental Health Provider
   Shortage
- Physician Access

### **Risk Factors**

- Maternal Hypertension
- Maternal Diabetes
- Pre-pregnancy Obesity
- Low Birth Weight
- Preterm Births
- Smoking During Pregnancy
- Breastfeeding Initiation



## Set Variables: Health (2 of 3)

### Use the "Health" dropdown boxes to explore data on Chronic Disease.



### **Chronic Disease Variables**

### Health Outcomes

- DiabetesObesity
- Poor/Fair Health
- Sick Days
- Injury Deaths
- Premature Deaths
- Breast Cancer Incidence
- Breast Cancer Mortality

### **Quality of Care**

Preventable Hospitalization

### Access to Care

- Dental Providers
- Physician Access

### **Risk Factors**

- Smoking
- Excessive Drinking
- Physical Inactivity
- Mammography Screening
   Prevalence



## **Set Variables: Health** (3 of 3)

### Use the "Health" dropdown box to explore data on Opioids.



### **Opioids Variables**

### Health Outcomes

- All Drugs Death Rate
- All Drugs Death Rate Trends
   Opioids Prescription Trends
- All Opioids Death Rate
- All Opioids Death Rate Trends
- Prescription Opioids Death Rate
- Prescription Opioids Death Rate Trends
- Synthetic Opioids Death Rate
- Synthetic Opioids Death Rate Trends
- Heroin Death Rate
- Heroin Death Rate Trends
- Opioid Use Disorder

### **Risk Factors**

- Opioids Prescription Rate

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## **Adjust Variable Data Thresholds and Filters**

Select View 🚯		
Overview	Broadband	Health
Select Variables Broadband Health Fixed Broadband Access (%)  National Median: 85.4% National Median: 10.2% 51.5 85.4 100 5 10.2 15.5	Overlay     Select Overlay     23	

In OVERVIEW View, the sliders are used to set the broadband and health thresholds to create the C2H Regional Categorization. The default thresholds are the national median values for the respective Broadband and Health variables, unless noted otherwise. When the slider is moved, the national median remains visible, as in the Broadband variable above.

To adjust the threshold, slide the moveable dot under the variable. The map will update to reflect the broadband connectivity status and health need based on your selections.



## **Select a Map Overlay**

Use the "Overlay" dropdown box to select demographic data to display on your customized map.



### Overlay Options

(Numbers are Based on National Median)

#### Population

- Population
- Female
- Age (Over 65 Years)

### Access to Care

 Number of Hospitals with Mammography Service

### Social and Economic Factors

- Unemployment
- Median Household Income
- Education

Overlay variables appear as dots on your customized map. Larger dots represent data above the national median, while smaller dots represent data below the national median.



## Select Platform Filters (1 of 2)

Use the "Filters" dropdown boxes to filter results based on selected health variables, social and economic factors, and other demographic measures. Up to two filters can be selected.



### C2Hfcc

## Select Platform Filters (2 of 2)

Use the "Filters" dropdown boxes to filter results based on selected health variables, social and economic factors, and other demographic measures. Up to two filters can be selected.



### Filter Options (Continued)

### Race / Ethnicity

- American Indian or Alaska Native
- Asian
- Black or African American
- Hispanic or Latino
- More than one race
- Native Hawaiian or Other Pacific Islander
- White

### **Social and Economic Factors**

- Distance to ER
- Food Insecurity
- Households No Vehicle
- Poverty
- Social Vulnerability Index
- Veteran Status

### Health Insurance

- Health Insurance
- Medicaid
- Medicare
- Private Insurance

#### **Risk Factors**

- HIV Prevalence
- Poor Mental Health Days

#### Rurality

- Rurality Min/Max
- Rurality Quintiles

#### **Community Factors**

Severe Housing



# Navigate the Platform





## **Move Around the Map**





## **Set to State or County Level**





## **Review Detailed Geographic Information**



After you select a specific state or county, additional contextual information will appear to the left of the map. All information updates automatically when you select a new state or county.



## **Expand Alaska and Hawaii**



Alaska and Hawaii appear in separate panels on the top left side of the map. Click on the zoom buttons inside these panels to zoom in (+) or zoom out (-) of Alaska and Hawaii.

To minimize and focus on the contiguous United States, click on the arrows in the top left corner of these panels.



Smaller buttons will now appear for Alaska and Hawaii in the lower left corner of the map. Click these buttons to display larger visuals again.



## **Reset Selections**

Use the "Reset" button on the far right of the Control Panel to remove all selections and start again on a new customized visualization.

			C' Reset
Mapping Broadband Health in A	merica		🛓 Download Data 🛛 🎓 Share 🕞 Export to PDF
Internet Adoption - Any Speed and Infant With overlay of Female	Mortality Rate		C Reset
Click on or lookup the county in the search bar	Select View ()		
	Overview	Broadband	Health
About Broadband and Maternal Health	Select Variables  Broadband Health Internet Adoption - Any Speed (	Overlay Filter 1	-
The United States is the only developed country with increasing maternal mortality and severe maternal morbidity rates and, according to the CDC, more than 80% of maternal deaths are preventable. Broadband connectivity is related to	National Median: 87 Subscribership     National Median: 6.2       21     87	<49.876% •     ≥49.876% •       *numbers are national median	



# **Create Your Custom Map**





## **Use the Map Legend: OVERVIEW View**

The legend explains what is being shown on the map and includes a map key and the definition section.

R	<ul> <li>Double Burden</li> <li>Opportunity</li> <li>Single Burden</li> <li>Milestone</li> </ul>	<ul> <li>Unreliable</li> <li>Suppressed</li> <li>Withheld</li> <li>Unavailable</li> </ul>	N

In "OVERVIEW", once you select a broadband and health variable, the map is sorted into categories that allow users to quickly understand the relationship between broadband connectivity status and health need by geography. States and counties will fall into one of four categories:

- **Double burden:** Area has *lower* connectivity status and *higher* health need than threshold
- Single burden: Area has *lower* connectivity status and *lower* health need than threshold
- **Opportunity:** Area has *higher* connectivity status and *higher* health need than threshold
- *Milestone*: Area has *higher* connectivity status and *lower* health need than threshold

Occasionally, data is unavailable either because it is **unreliable**, **suppressed**, **or withheld**. These three categories are shown as patterns on the map. You can view the specific definition by hovering over the word in the legend.

Note: Consistent with CDC guidance, some maternal mortality data on the platform has been suppressed.



## **Use the Map Legend: OVERVIEW View**

The legend explains what is being shown on the map and includes a map key and the definition section.





## Use the Map Legend: BROADBAND or HEALTH Views

In the BROADBAND or HEALTH view, the map key displays the selected broadband or health variable in quintiles (fifths) from higher need (left) to lower need (right). The quintiles correspond directly to the quintiles that appear underneath the variable dropdown and use the same colors. For reference, the national median is shown as a thin red line.





## **Nationwide Plot and Statistics: OVERVIEW View**

The Plot panel depicts the number of states or counties represented in your custom map by C2H categorization. The Statistics panel provides the number and population of states or counties in each category. The View Details button provides downloadable lists of the states or counties in each category.









## **Nationwide Plot and Statistics: BROADBAND View**

### Use the "BROADBAND" View to visualize Broadband filtered by Health variables



Statistics		View Details
County Categories	<b>Population Count</b>	County Count
O 0 - 20 %	1,043,736	109
○ > 20 - 40 %	2,319,117	158
○ > 40 - 60 %	6,495,558	350
● > 60 - 80 %	21,424,535	680
● > 80 - 100 %	300,156,616	1,844
O Unavailable	0	1

![](_page_26_Figure_4.jpeg)

![](_page_26_Picture_5.jpeg)

## **Nationwide Plot and Statistics: BROADBAND View**

Use the "HEALTH" View to visualize Health filtered by Broadband variables

![](_page_27_Figure_2.jpeg)

![](_page_27_Picture_3.jpeg)

# **Download and Share**

![](_page_28_Picture_1.jpeg)

![](_page_28_Picture_2.jpeg)

## **Data Sharing Toolbar**

![](_page_29_Figure_1.jpeg)

![](_page_29_Figure_2.jpeg)

### Download data

Select "Download Data" in the top right corner to download the data behind the platform and visualizations. You can download at the National, State, and County levels in both CSV and JSON formats.

### Share

Select "Share" in the top right corner to generate a link to your customized map, including your selected variables, the overlay, and filters.

### Export to PDF

Select "Export to PDF" in the top right corner to generate a PDF showing your customized map and supporting visualizations. You can select which elements, including plots, statistics, and supporting visualizations, should be included in the PDF export.

![](_page_29_Picture_9.jpeg)