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Connectivity Hubs Spatial Analysis

All-In to Connect Everyone. We CAN get there from here!



How to use this slide deck

This slide deck provides an overview of a data analysis MCA conducted to identify the areas of greatest need for Connectivity Hubs.

The slides describe how the analysis was done and have maps that show key findings for each variable. The final map shows all the factors combined.

You can use this analysis to see locations that are a strong fit for Connectivity Hubs.

As you review the deck, please know you can find **additional notes in the “speaker notes section”** below the slide. (If this section is not visible to you, you need to click on the short line below the slide and drag the mouse up.)



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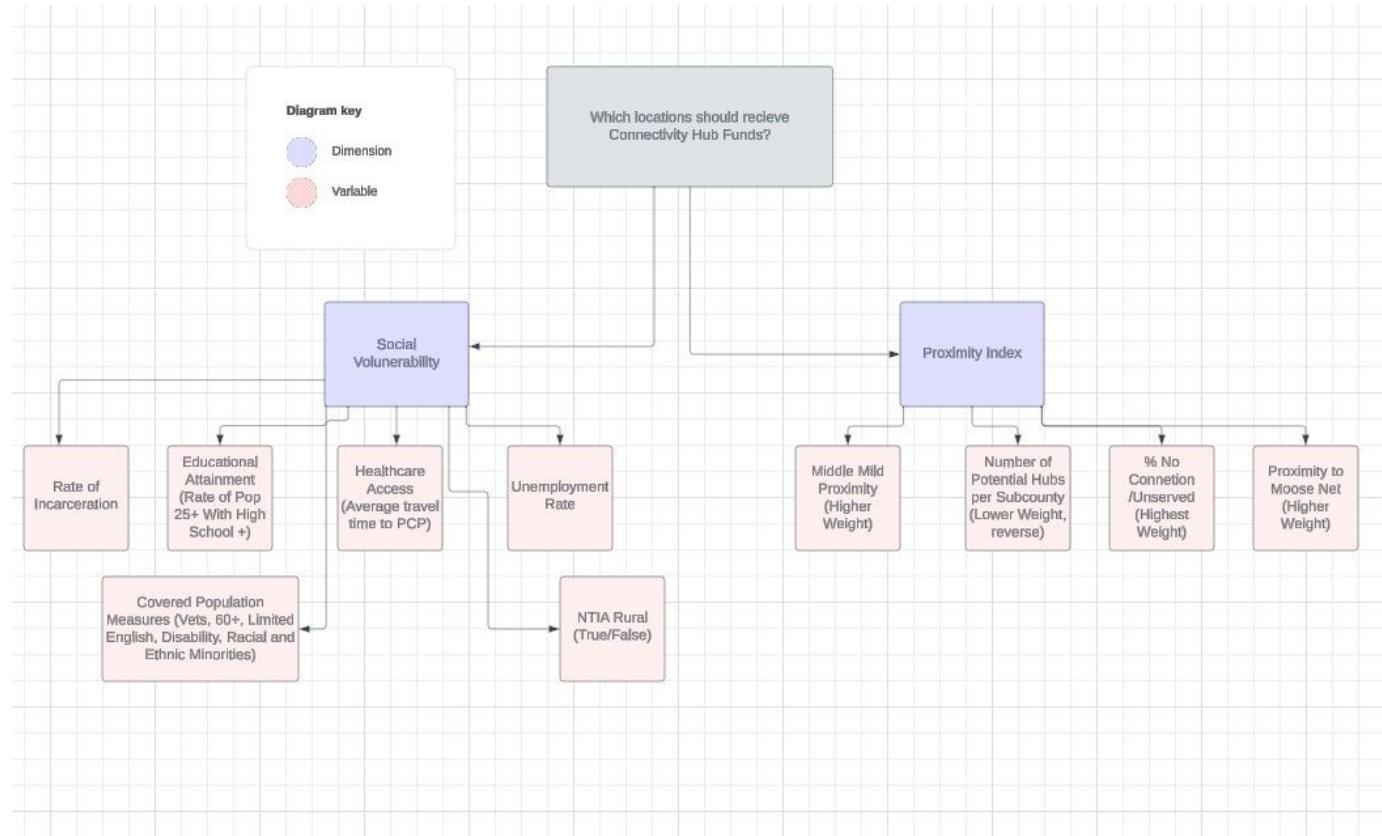
What is a composite index?

- The connectivity hubs analysis uses a composite index to determine suitability of subcounties in Maine for funding
- A composite index is a multi-dimensional, multivariable analysis which is combined into a single index measure
- A common example is the multivariable Human Development Index used by the UN which is based on life expectancy, education, and income



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Flowchart to demonstrate the variables in Connectivity Hubs Composite Index



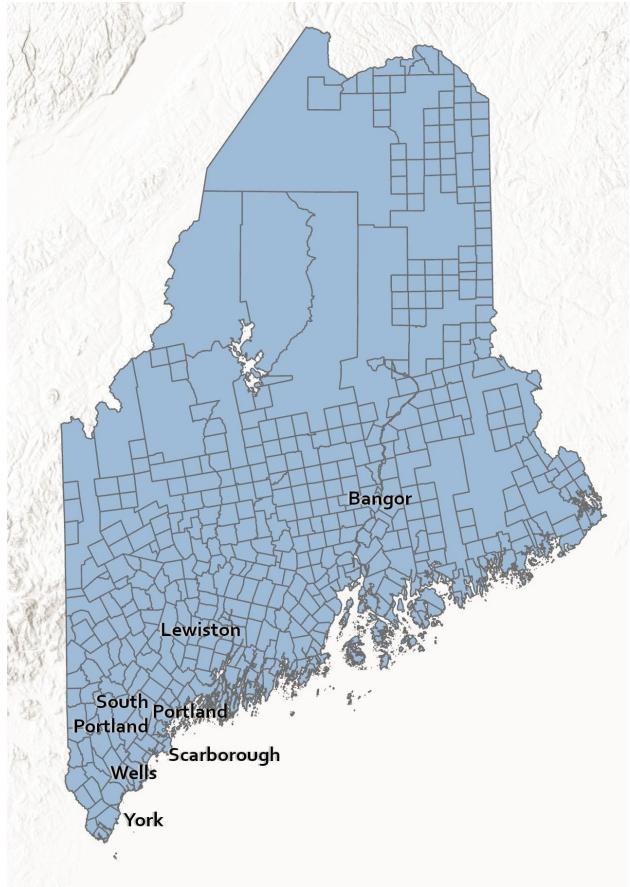
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Social Vulnerability Index (SVI)

- The first step of this analysis looks at the social vulnerability at the subcounty (1) level in Maine.
- Social Vulnerability includes:
 - Rate of High School Graduation *
 - Average Driving Distance from a Primary Care Provider (2)
 - Rate of Unemployment *
 - Whether or not a sub county is rural by [NTIA](#) (3)
 - Rate of incarceration (4)
 - Covered Population Data from the American Census Survey (Rate of Population over the age of 60, Rate of Veterans, Limited English Households, Disability, & Rate of Ethnic or Racial Minorities)*

Example of Maine divided by Subcounty

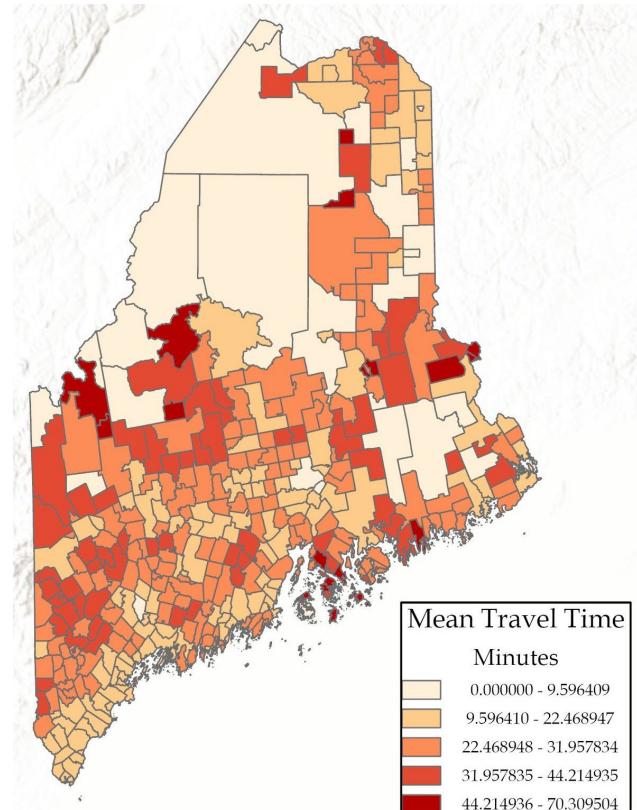
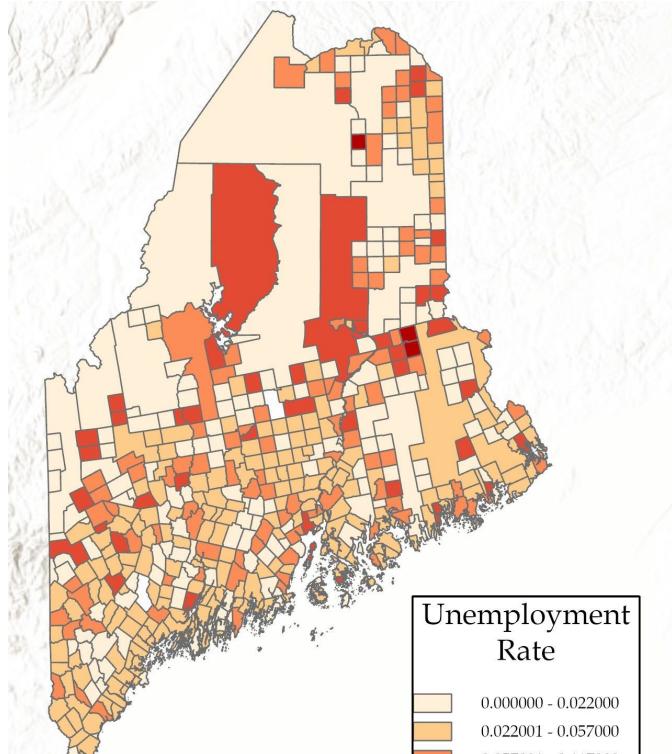


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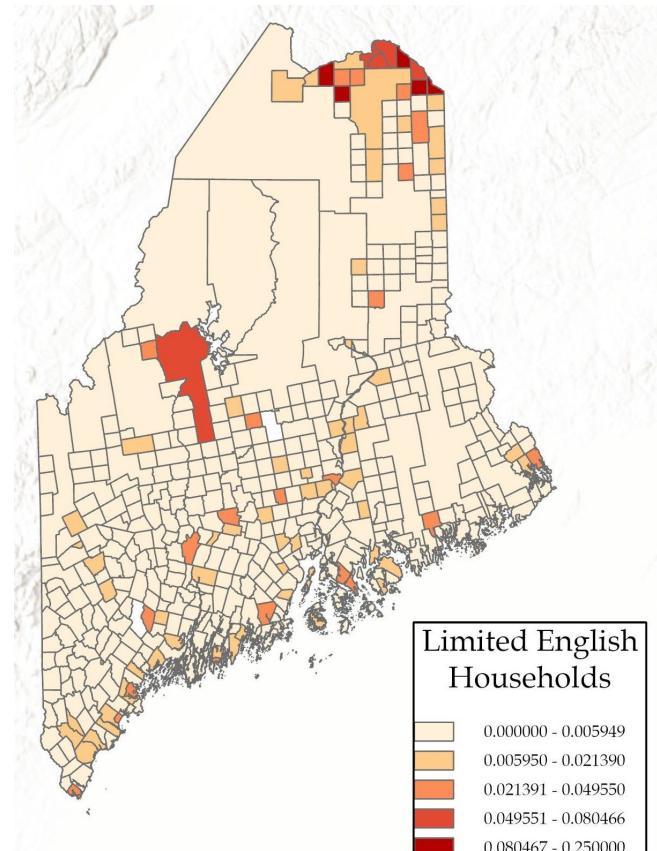
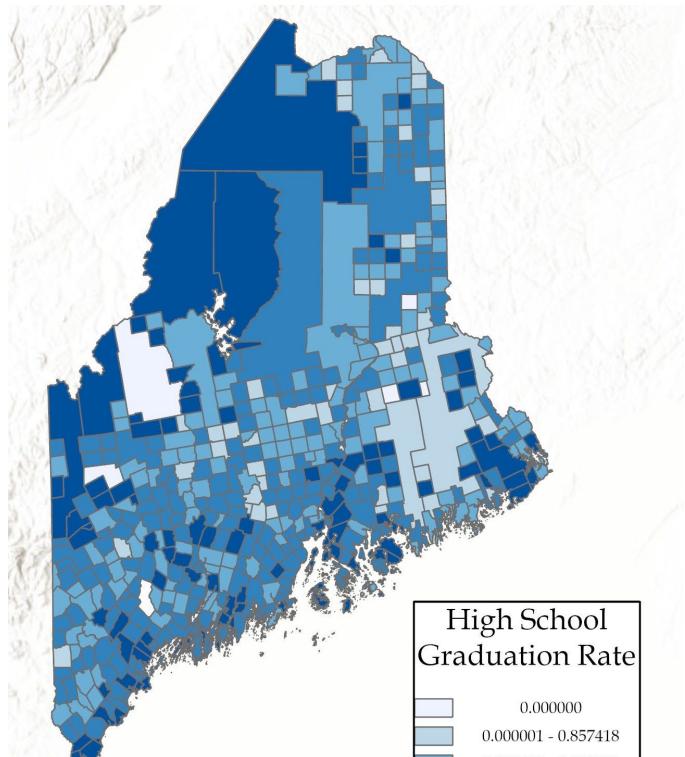
Social Vulnerability Index

Rates of Unemployment and Healthcare Access

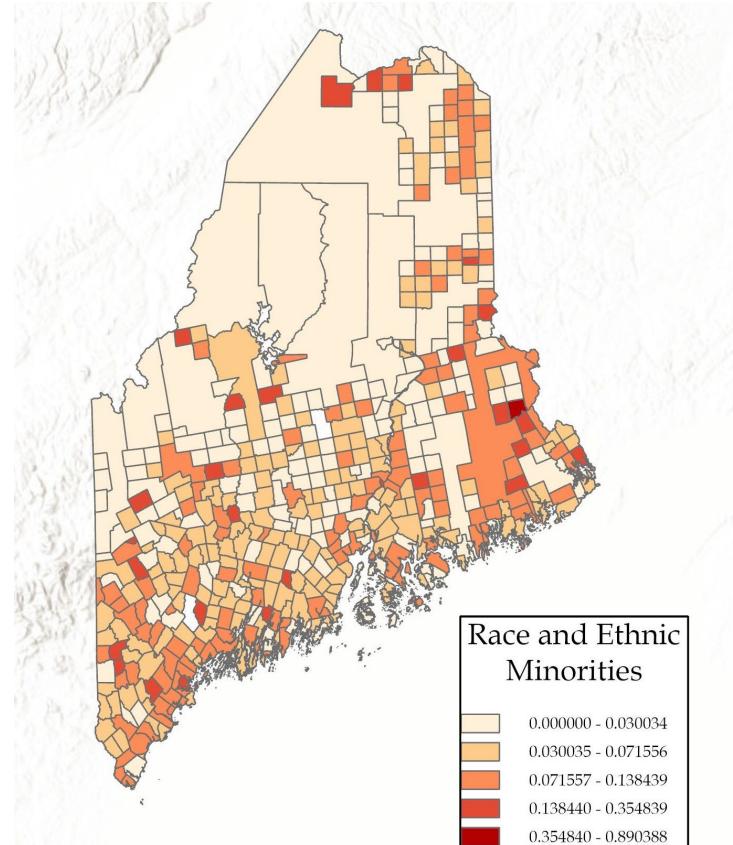
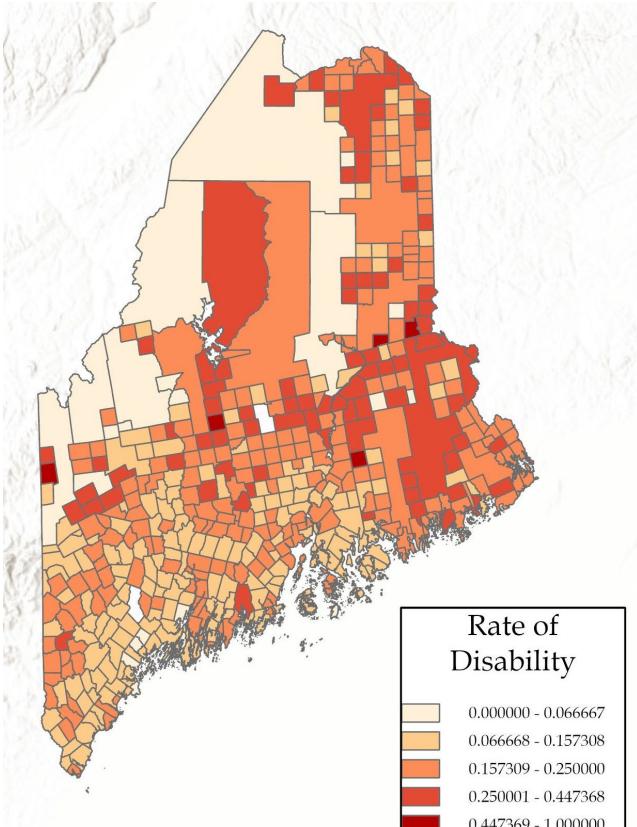


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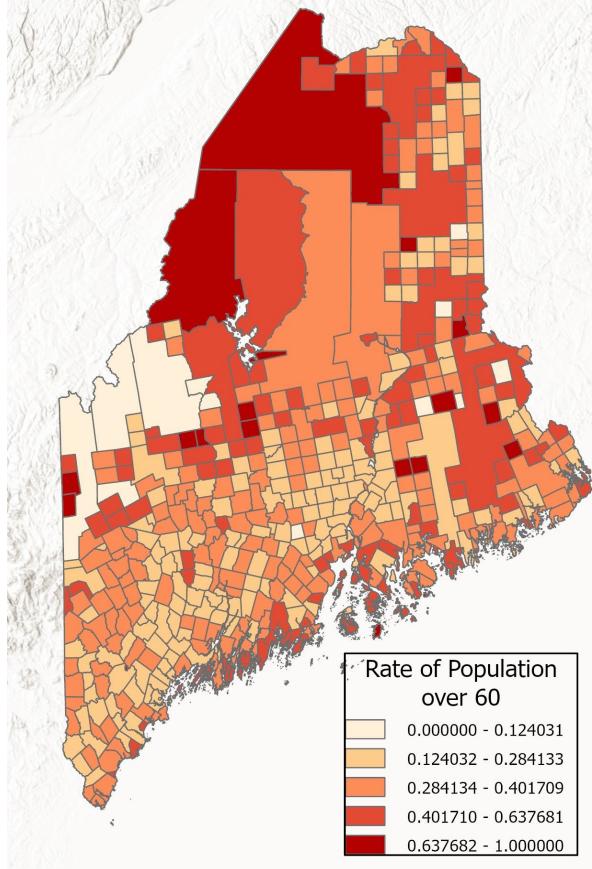
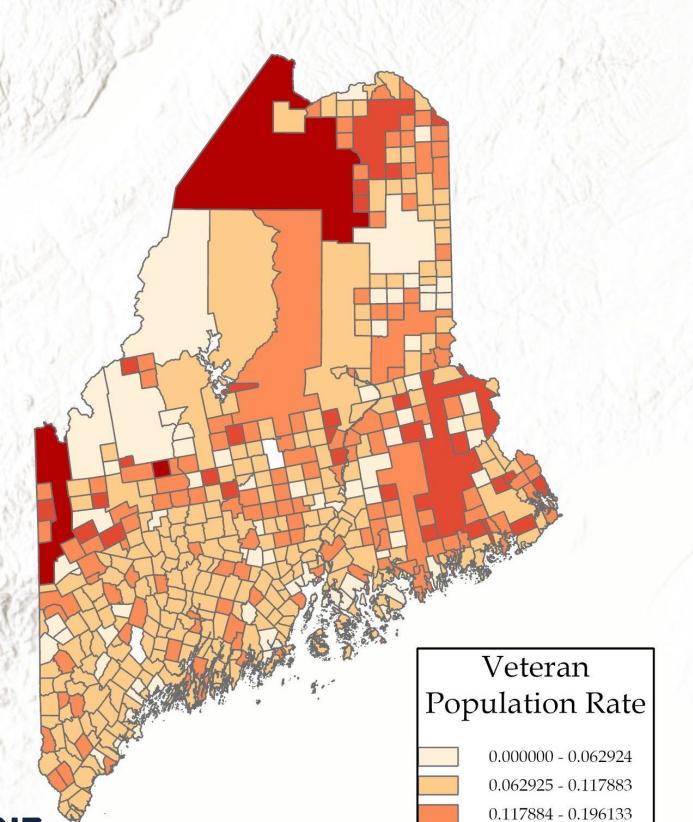
Rate of High School Graduation & Limited English Households



Rates of Disability & Racial & Ethnic Minorities

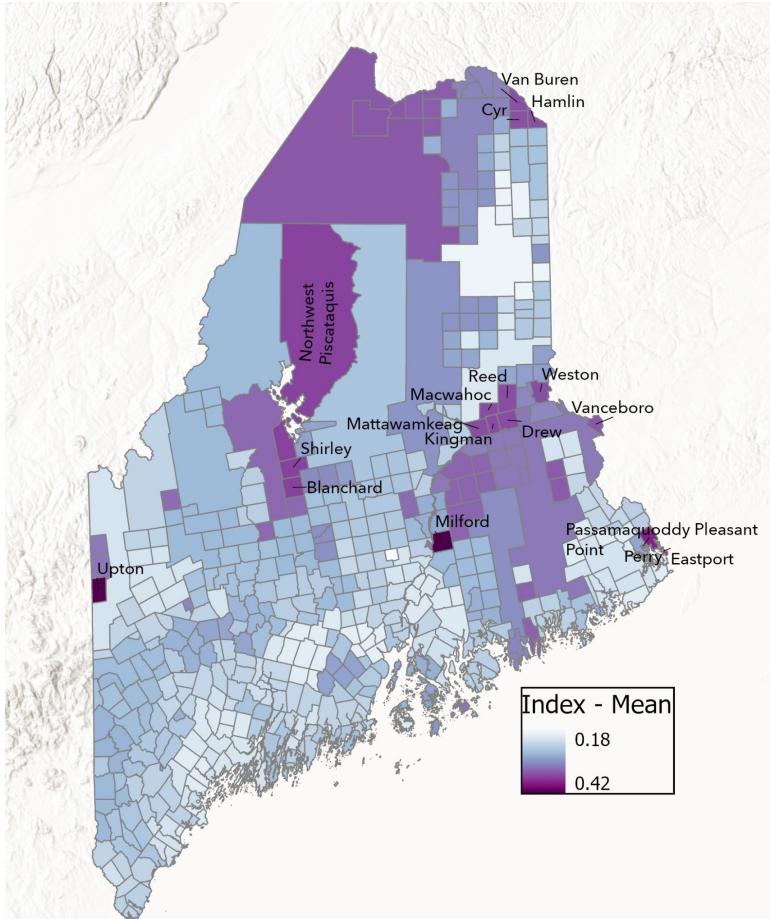


Rates of Veterans



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Social Vulnerability Composite Index



Proximity Index

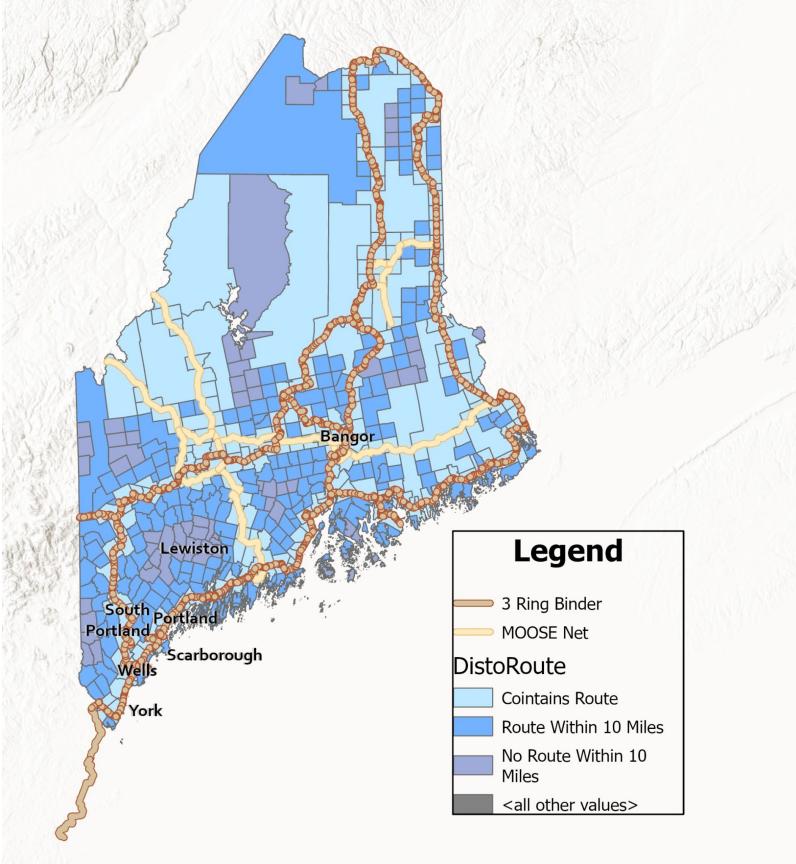




Proximity Index (SVI)

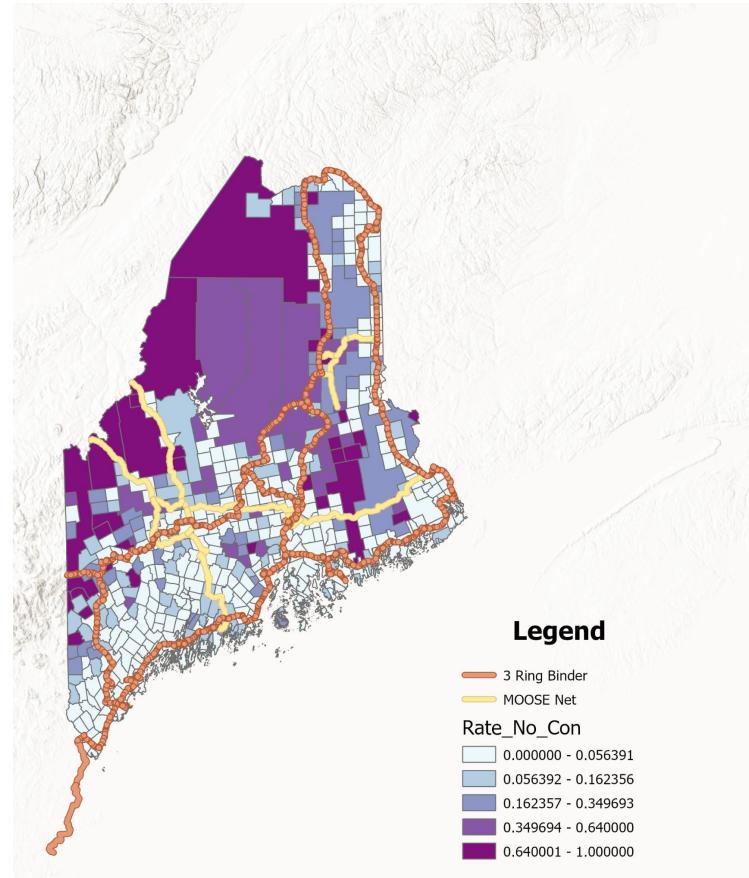
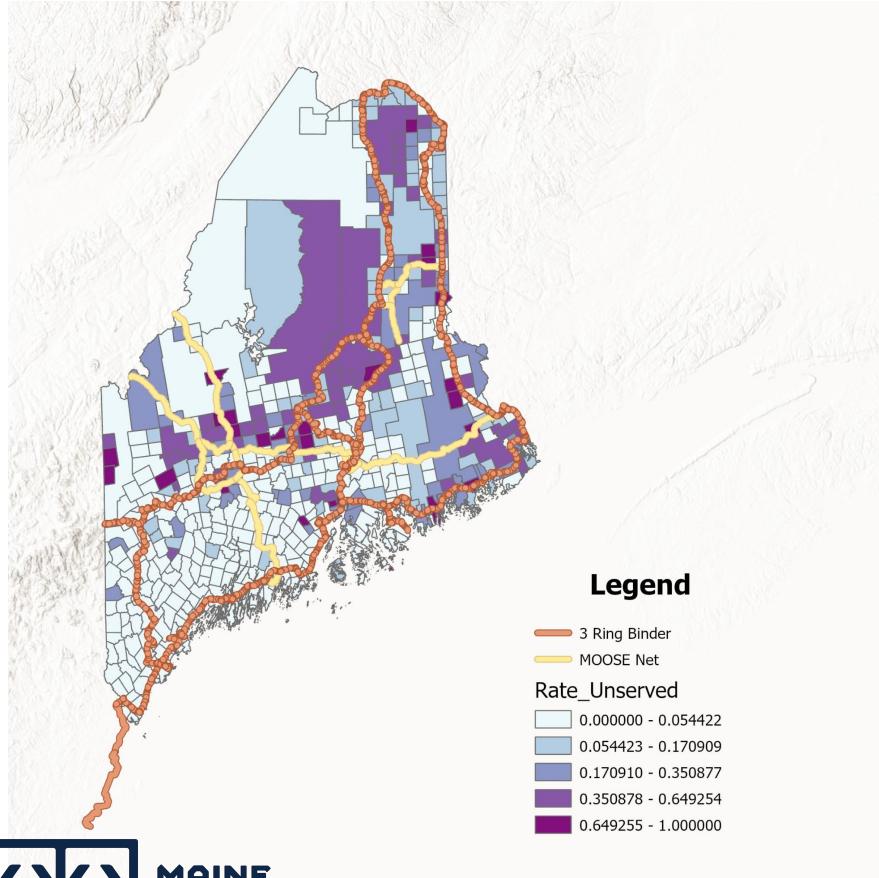
- The second step of this analysis looks at proximity factors at the subcounty level in Maine.
- Proximity Factors include:
 - Proximity to middle mile and MOOSE Net routes
 - Rate of unserved and no connection locations in a subcounty (1)
 - Number of community anchor institutions (CAI)

Distance to Routes

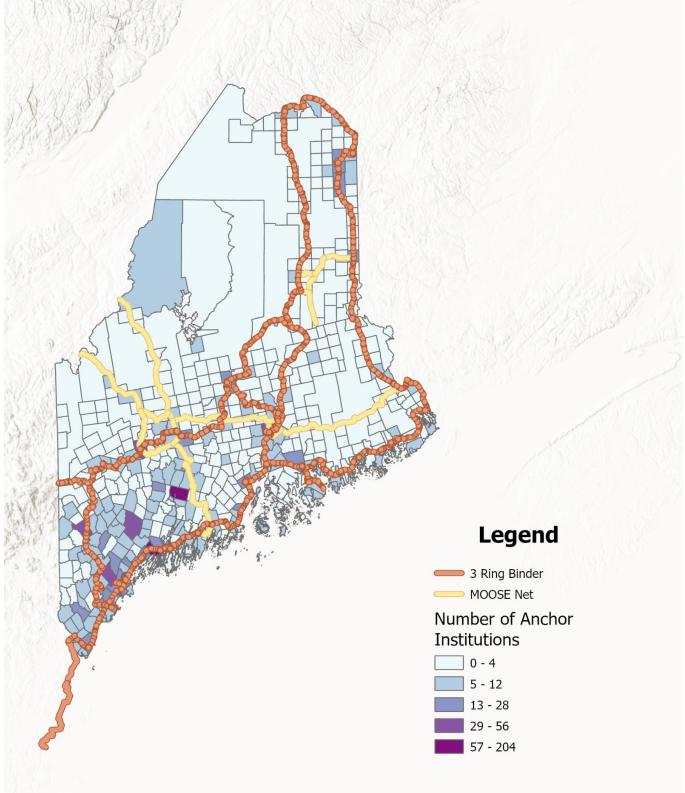


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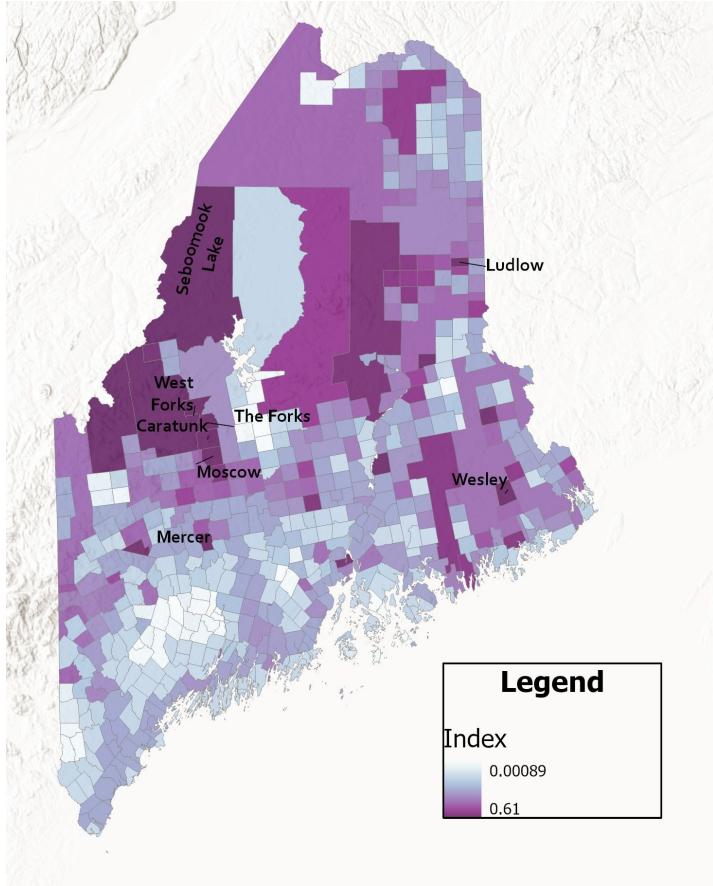
No or Poor Internet Availability (No Connection & Unserved)



Number of Community Anchor Institutions



Proximity Index



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Combined Index

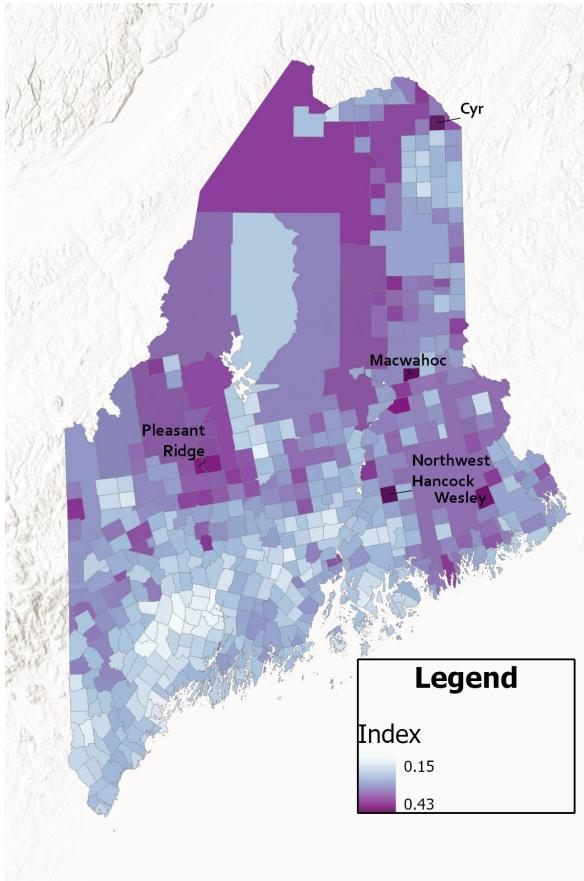




Interpretation of the Composite Index

- A higher Social Vulnerability Index and higher Proximity Index result in a higher composite index.
- A higher overall composite index indicates a more ideal candidate for Connectivity Hubs funding.

Combined Composite Index



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