

# Mobile Loaves and Fishes (MLF): A 3-D Printed Village

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Estimated number of individuals  
who suffer chronic homelessness  
in the contiguous U.S.:

580,466

# MLF's Community First! Village

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The country's first master planned development aimed at reducing chronic homelessness with a revolutionary focus on community.

# Community First! Village Layout

- 51 acres
- 480 individuals, currently
- 330 microhomes, 6 of which were 3D printed
- 210 RV/Park Homes



Total estimated amount of  
damage to property incurred by  
severe weather events in 2020:

\$3.73 trillion



# Resilient

Lavacrete, reinforced concrete

# Dignified

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ICON 3D-Printed Microhome



# Goal

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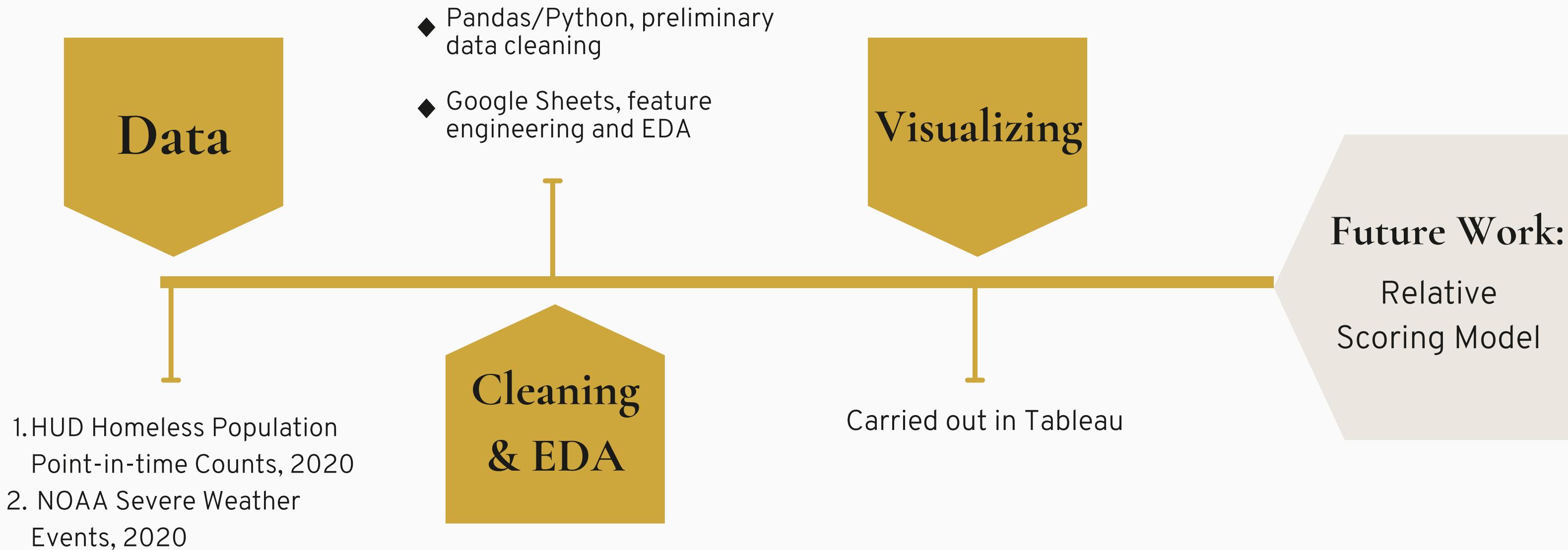
Determine potential locations with the largest opportunity for impact for the next Community First! Village

# Solution Path

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- ✓ Determine locations with the highest rates of chronic homelessness
- ✓ Locate areas with high climatic vulnerability
- ✓ Develop a relative scoring algorithm to choose a location with the most impact potential

# Methodology



# Insights

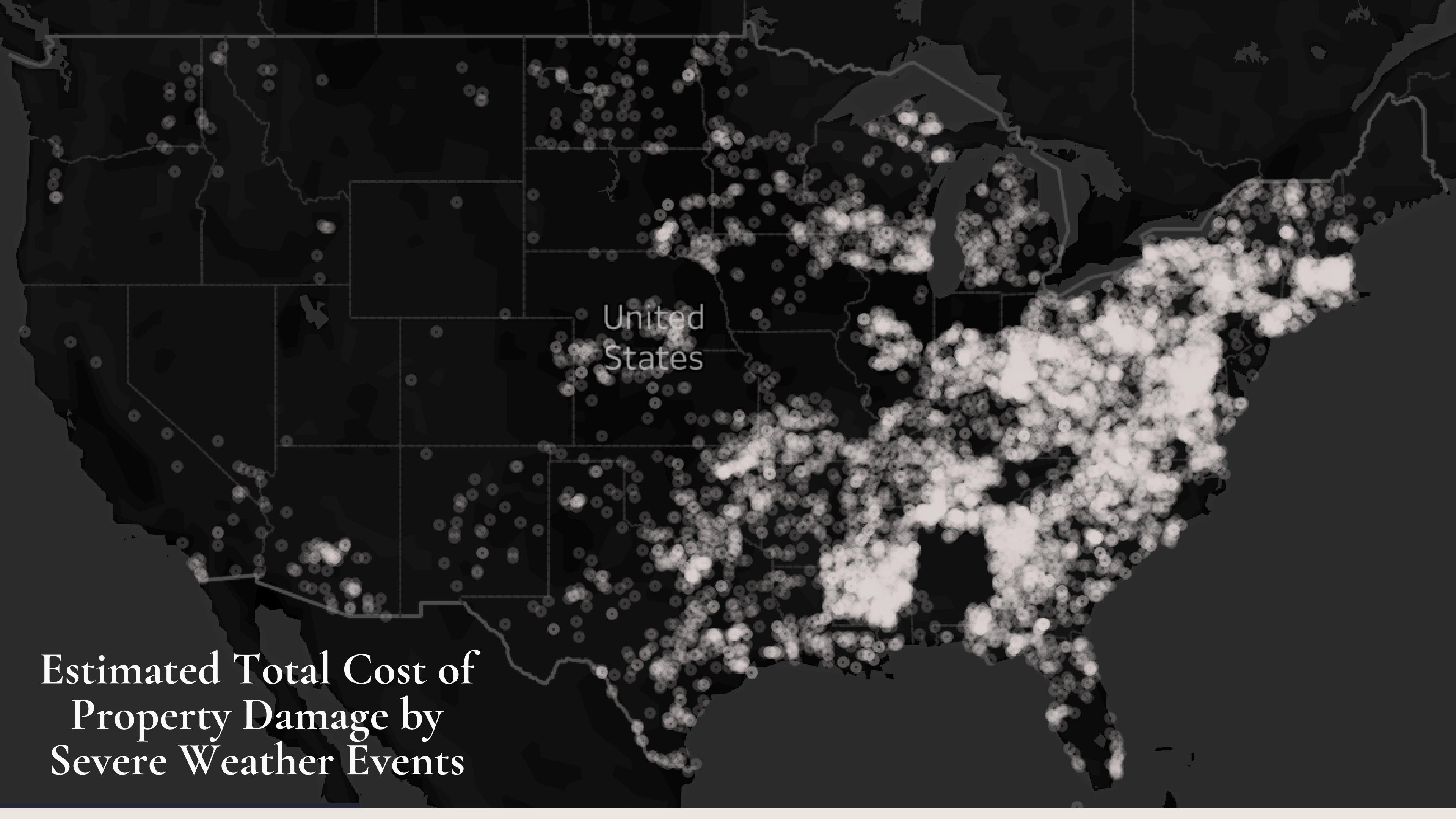
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# Point-in-Time Estimations of Homeless Population

United  
States

# Estimated Total Cost of Property Damage by Severe Weather Events

United  
States





Recommendation:  
D.C.



Recommendation:  
Boston, MA



Recommendation:  
Dayton, OH

# The work continues

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In addition to the data analyzed, I would incorporate financial feasibility data into a relative scoring model which would find reasonable location options for the 3D-Printed Community First! Village.