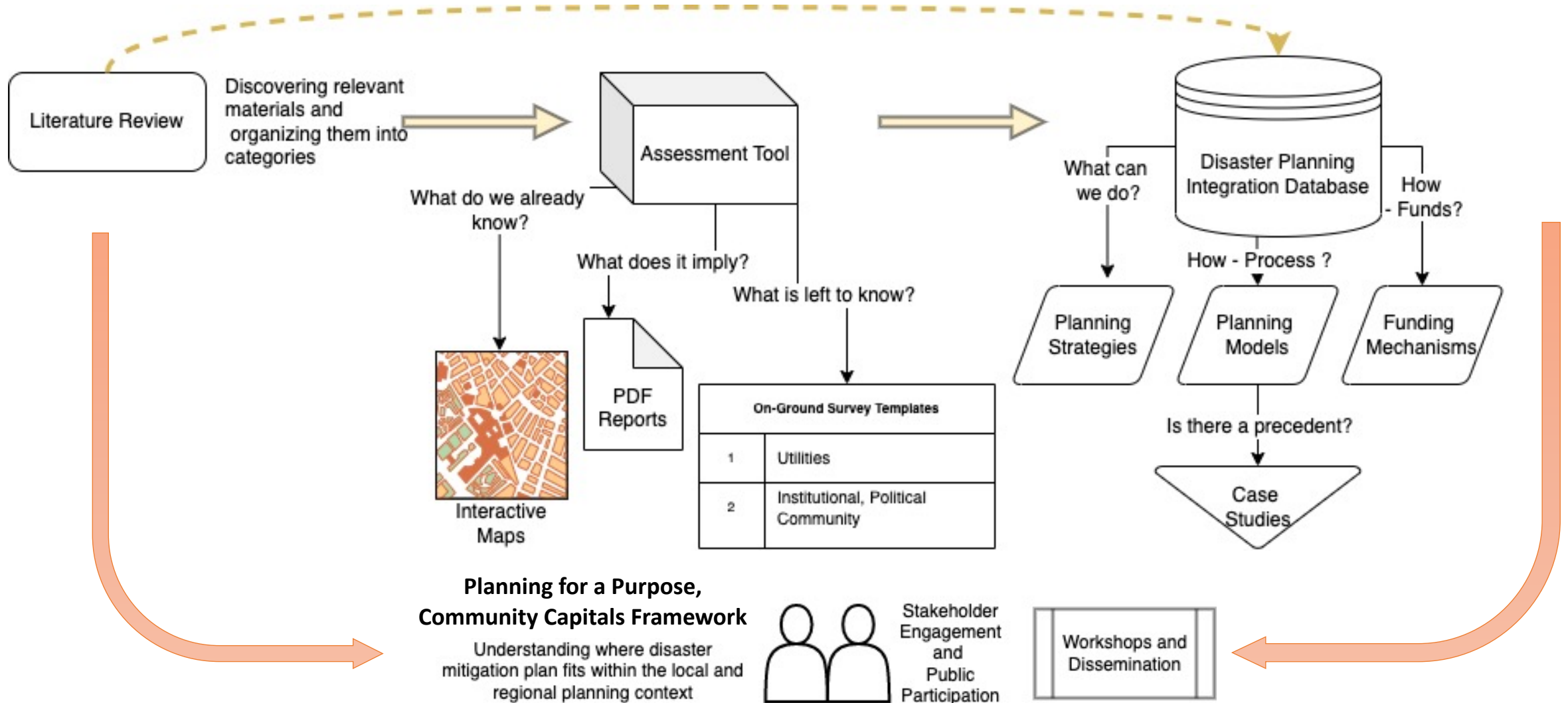


A Disaster Planning Integration Toolkit for Rural Illinois

Arpita Banerjee
Illinois Extension

Toolkit

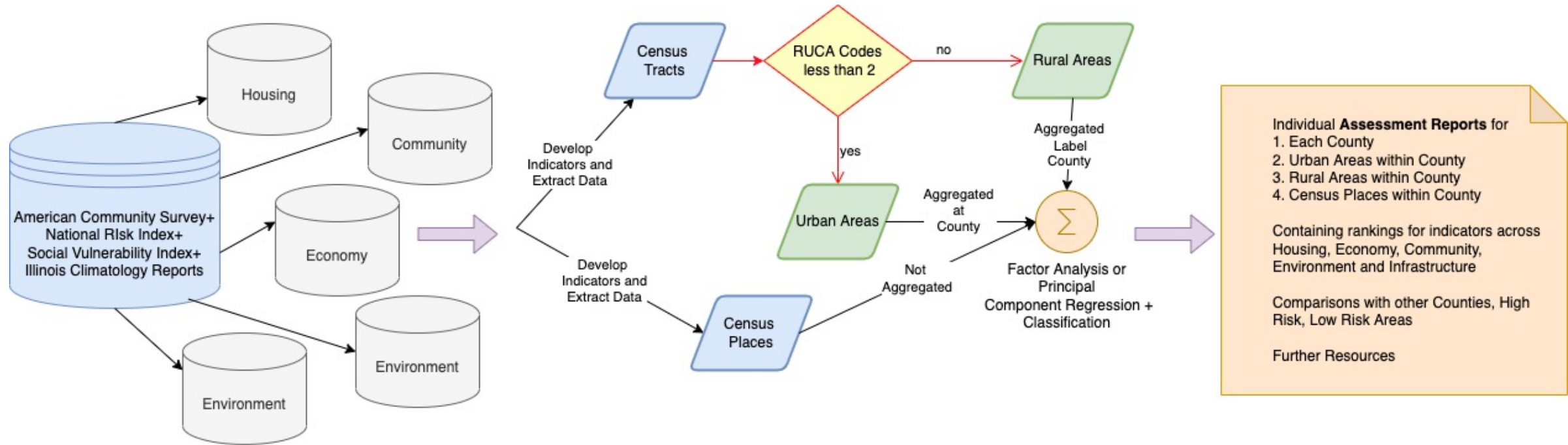
Disaster Mitigation + Economic Development + Green Infrastructure



Assessment Tool

Methods, Data, Demonstration

Community-Level Assessments



Housing/Residential

- Residential Age
- Homeownership
- Housing Affordability
- Housing Stability
- Insurance

Economic

- Types of Businesses
- Diversity and Location Quotient
- Employment and Wages
- Poverty

Environment and Hazards

- Physiographic factors and Environmental Quality
- Land use in floodplains
- History of disasters and past damage

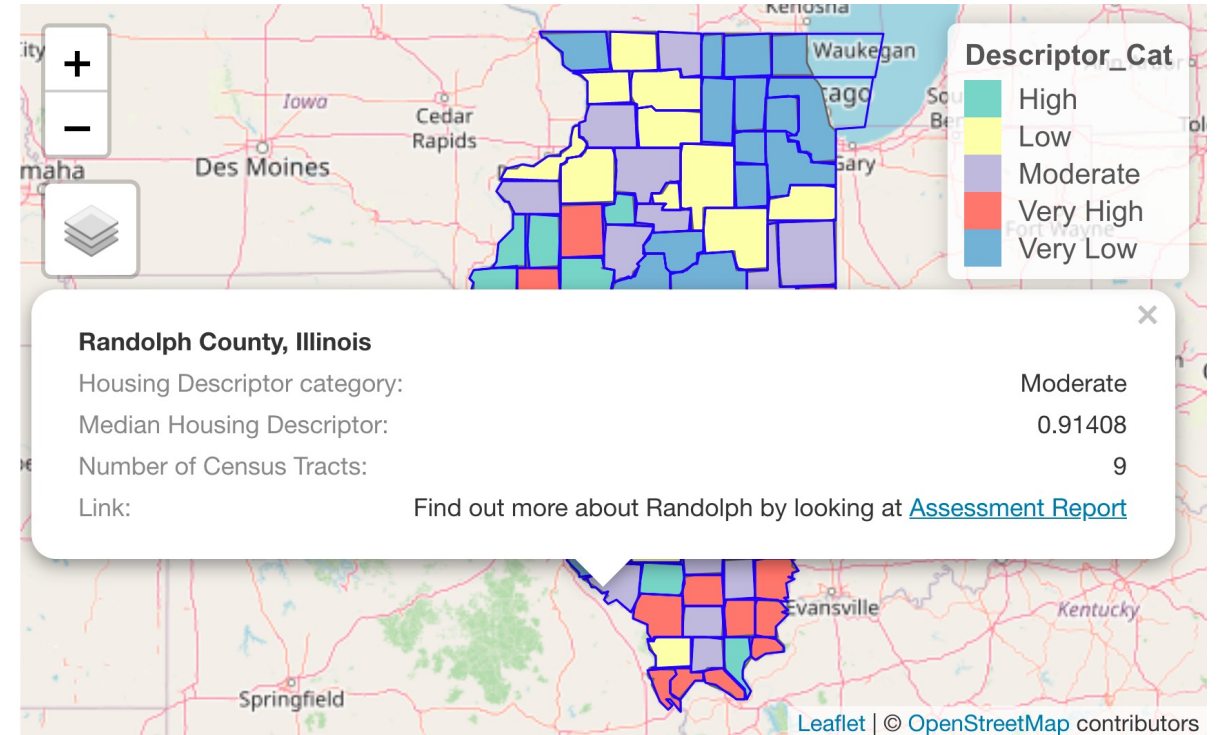
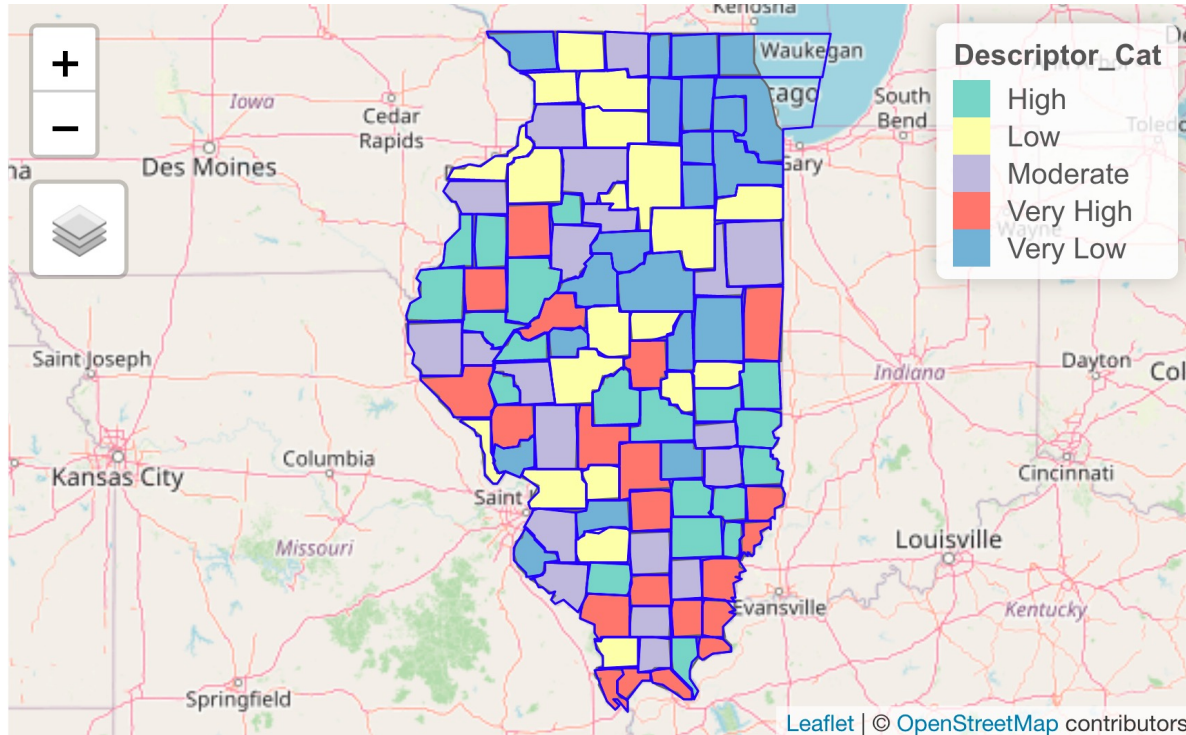
Community/Demographic

- Age
- Sex
- Race
- Community Composition
- Health

Infrastructure

- Utilities
- Transportation
- Critical and Emergency Facilities

Assessment Tool



- I. County Level Map showing 5 categories of Disaster Resilience, currently developed based on only indicators for Housing Indicators
- II. Hovering over counties show their names
- III. Clicking on a County shows few details along with link to a detailed report
- IV. Report Layout on Next Slide

Sample County Report

Data from Champaign County, IL

Champaign County , Illinois – Sample Report

County Level (Aggregate)

Table 1 Basic Statistics for Champaign, IL

Information	Value
Population	205943
Area	996.27 sq mil
Gross Density (persons/sq mil)	207
Avg HH Size	2.34
Median HH Income	\$ 53936 (annual)

Map 1 County Map for Champaign, IL, showing categories of Disaster Resilience

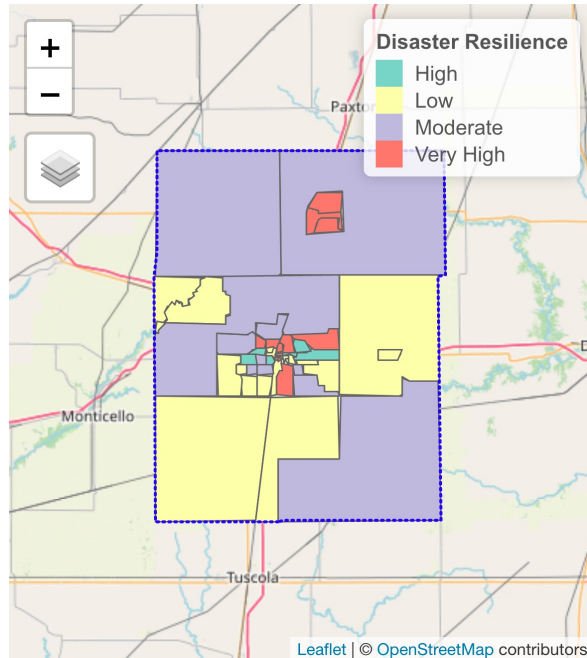
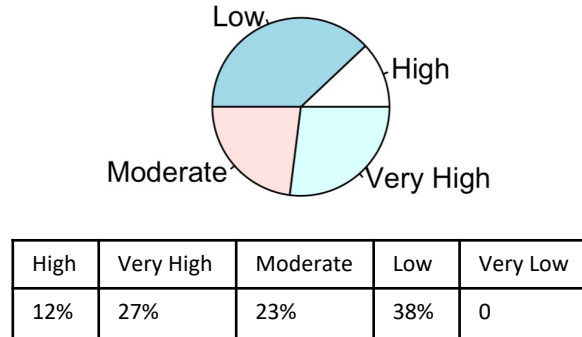
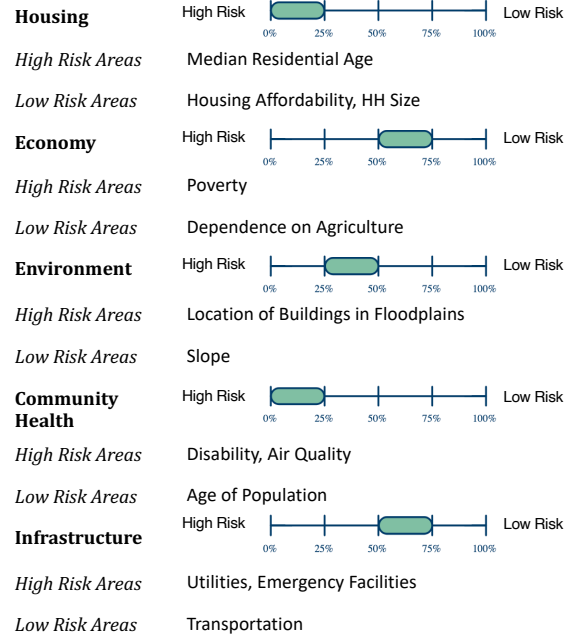


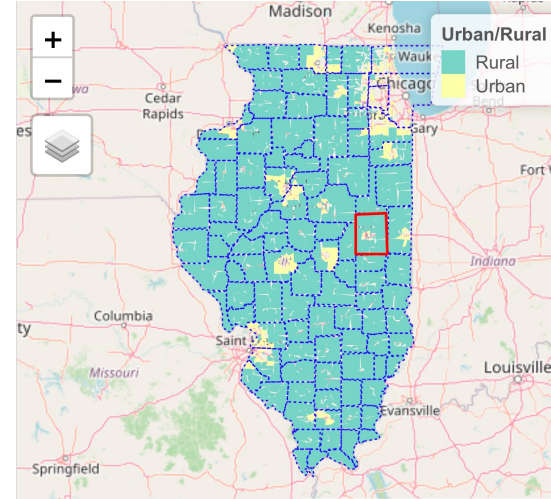
Table 2 Percentage of Census Tracts under each Resilience Category in Champaign, IL



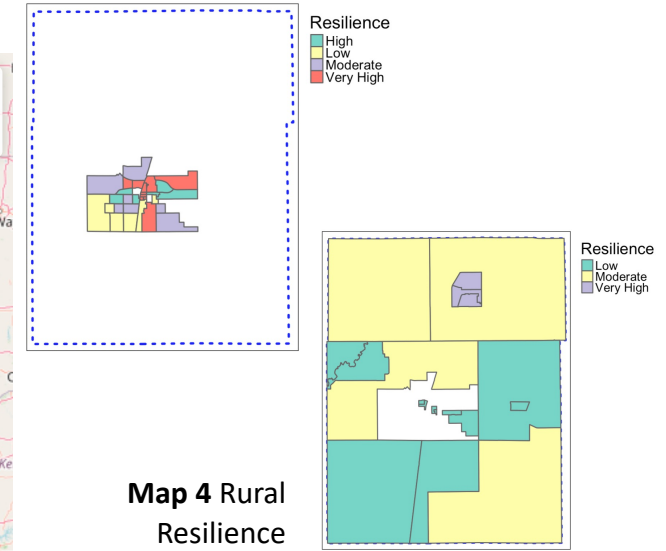
Indicator Group Rankings



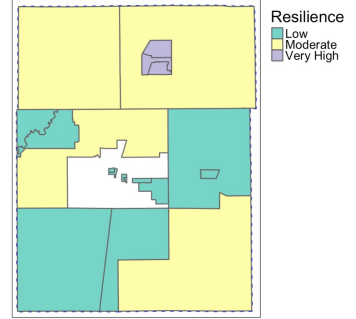
Map 2 State Map showing urban and rural areas



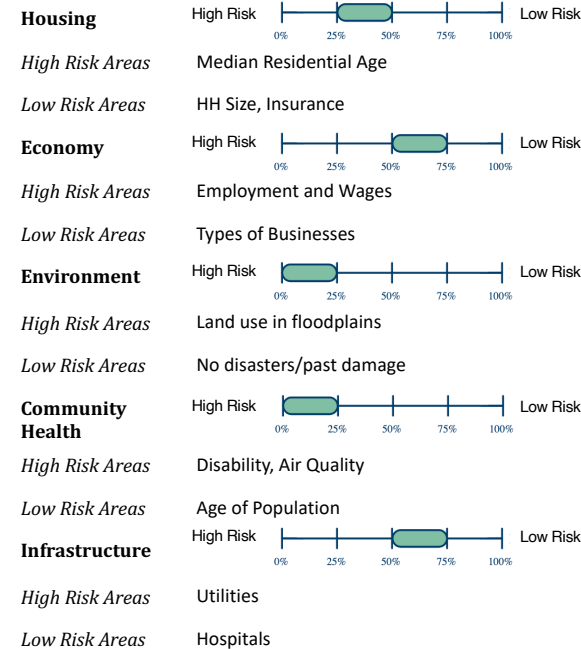
Map 3 Urban Resilience



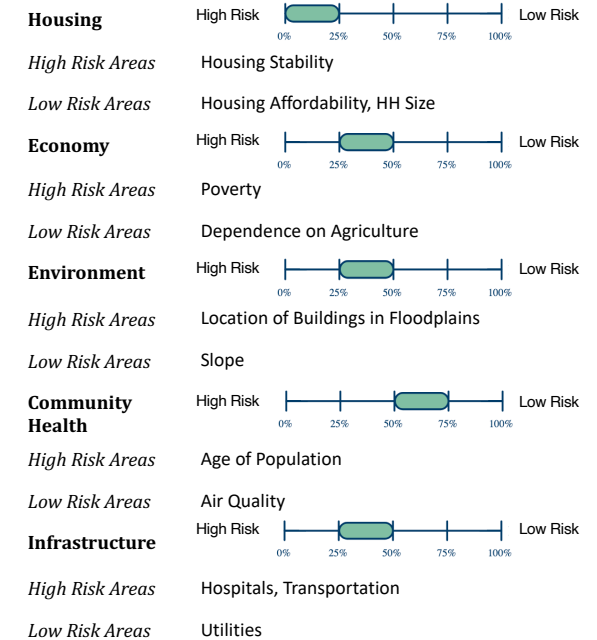
Map 4 Rural Resilience



Urban – Indicator Rankings



Rural – Indicator Rankings



Census Places

Map 5 Census Places in IL and Champaign

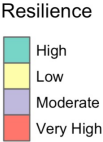
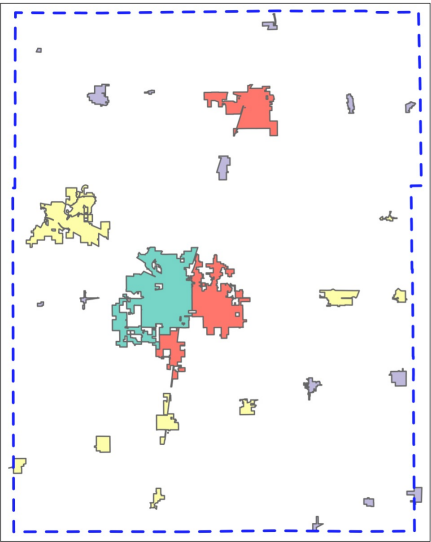
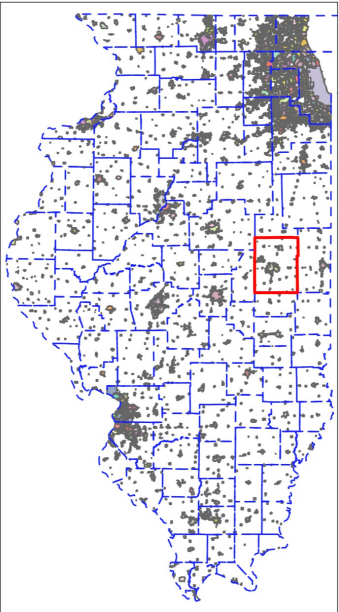
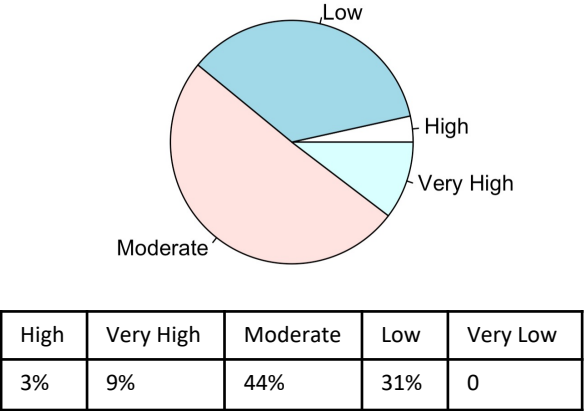
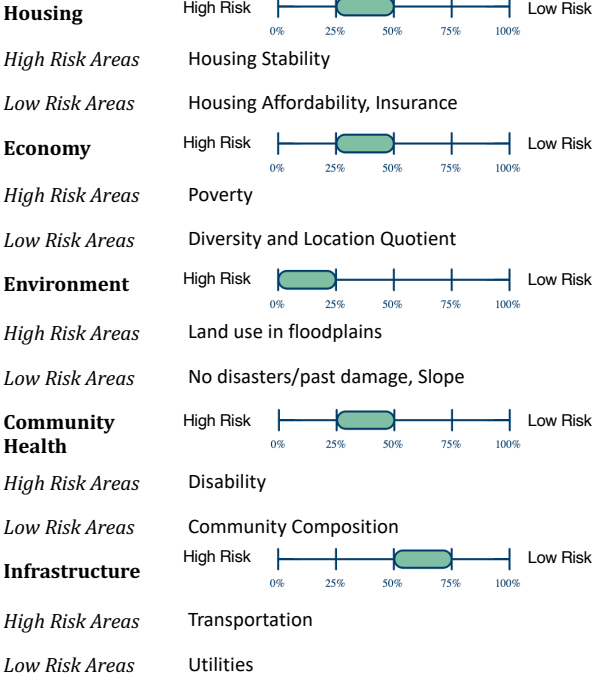


Table 3 Percentage of Census Places under each Resilience Category in County, IL



Places – Indicator Rankings



Appendix

Will contain comprehensive list of how every indicator fares at the county level, best performing counties and values of state average for each county. It has not been included here for legibility and conciseness.

Further Resources

Need to Assess in further detail?

The following *questionnaires* should help

- [On-ground Housing Survey template](#)
- [On-ground Community Resilience template](#)

See *Strategies* for

- [Housing](#)
- [Environment and Hazards Mitigation](#)
- [Community Resilience](#)

See *Funding Mechanisms* for

- [Housing Projects](#)
- [Green Infrastructure](#)
- [Emergency management](#)

See *Case Studies* for planning precedents

- [Greening Greensburg.](#)

- [Manual for Easy Search Library](#)
- [Planning Processes](#)

Easy-search Keywords:

COAD

Funding Matrix

Emergency Management

Rural Housing

Short Term Recovery

Disaster Planning Integration Database

Library containing all relevant and available materials

Disaster Planning Integration Library Interface

Audiences and Beneficiaries

- Select - ▼

- ☐ Rural Communities
- ☐ Individuals
- ☐ Local Governments
- ☐ Regions
- ☐ University Extensions
- ☐ Private Organizations

- ☐ Non-Profits
- ☐ NGOs
- ☐ Faith-based Organizations
- ☐ Civic Organizations
- ☐ Planners
- ☐ Policy Makers

Document Type

- Select - ▼

- ☐ General Resource
- ☐ Foundational Research
- ☐ Specific Plan
- ☐ Web-based Resource
- ☐ Planning Tool
- ☐ Manual for Local

- Organization
- Others

Planning Areas

- Select - ▼

- ☐ Housing/Residential
- ☐ Infrastructure/GI
- ☐ Economic Development
- ☐ Disaster Mitigation
- ☐ Community Resilience
- ☐ Natural Resources or

Agriculture

Type of Disaster

- Select - ▼

- ☐ Tornado
- ☐ Flood
- ☐ Drought
- ☐ Extreme Weather
- ☐ Earthquakes
- ☐ Wildfires

- ☐ Man-Made Disasters
- ☐ Biological Disasters
- ☐ Soil Erosion/Landslides
- ☐ Agricultural Disasters

Planning Components

- Select - ▼

- ☐ Surveys/Assessments
- ☐ Strategies
- ☐ Planning Processes
- ☐ Funding Mechanisms
- ☐ Case Studies

Dropdown Menus
contain pre-defined categories. Users can select desired inputs by clicking and selecting items from the scrollable dropdown menus

Search... 🔍

Search Bar
Can help search unlisted items

COAD

Emergency Management

Funding Matrix

Long Term Recovery

Rural Housing

Frequently Used Terms
For direct access to most searched topics

Hypothetical Demonstration

Step 1

Select items from drop-down menus

Audiences and Beneficiaries	Document Type	Planning Areas	Planning Components
<div><div>- Select -</div><div><input checked="" type="checkbox"/> Rural Communities</div><div><input type="checkbox"/> Individuals</div><div><input type="checkbox"/> Local Governments</div><div><input type="checkbox"/> Regions</div><div><input type="checkbox"/> University Extensions</div><div><input type="checkbox"/> Private Organizations</div><div><input type="checkbox"/> Non-Profits</div><div><input type="checkbox"/> NGOs</div><div><input type="checkbox"/> Faith-based Organizations</div><div><input type="checkbox"/> Civic Organizations</div><div><input type="checkbox"/> Planners</div><div><input type="checkbox"/> Policy Makers</div></div>			

Showing search results 2 out of 5

Click

A Toolkit for Rural Housing

J. D. McClanahan, Illinois Extension - 2021

Abstract: The toolkit provides stakeholders in rural cities, towns, unincorporated areas and counties of Illinois with guidance on ...[Read full abstract](#)

Click

Contains:

Funding Mechanisms

Strategies

Strategies

Strategies

Federal Disaster Funding Streams and Post-Disaster Community Best Practices

Zach Kennedy, Carrie McKillip, Ashley Mueller, et al., Illinois Extension - 2021

Abstract: The document includes funding mechanisms through federal funding matrices, address local data gathering ambiguities ...[Read full abstract](#)

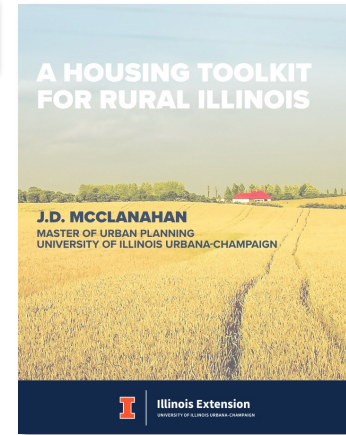
Contains:

Funding Mechanisms

Strategies

Case Studies

Planning Processes



A Toolkit for Rural Housing

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Funding Mechanisms

Organizations Providing Funding

Illinois Housing Development Authority (IHDA), United States Department of Housing and Urban Development (HUD), United States Department of Agriculture (USDA)

Broad Areas of Funding

HUD - LIHTC (Low Income Housing tax Credit) Program, Housing Choice Vouchers

IHDA - LIHTC, affordable rental housing, community programs, information to local lenders and realtors

USDA - Rural Development, Single Family Housing Program, Multi-Family Housing Program

Step 2

Select Document and topic from search results

Step 3

View Document along with required information

Progress Update

Assessment Tool

Tasks Completed

Data has been extracted from 3/5 indicator groups and analyzed

First batch of reports generated with housing data

Applicability of methods and final report template has been finalized

Tasks Remaining

Raster Analysis for Environmental and Infrastructural Data to create final reports for hosting

Disaster Planning Integration Library

Tasks Completed

Interface has been finalized and 60+ documents have been incorporated into the library (will be an ongoing process as more information becomes available)

Testing on interface to understand its usability has been performed

Tasks Remaining

Adding more resources as they become available and web-hosting

Planning Process and Dissemination

Tasks Completed

Two possible modules –

1. Stand alone plans for communities with no prior experience
2. Integration into existing plans

Planning for a Purpose as a model for Action Planning

Tasks Remaining

Finalizing processes, developing manuals and stakeholder engagement