# GIS for Justice: Using a Tool from Outside the Lawyer's Toolbox

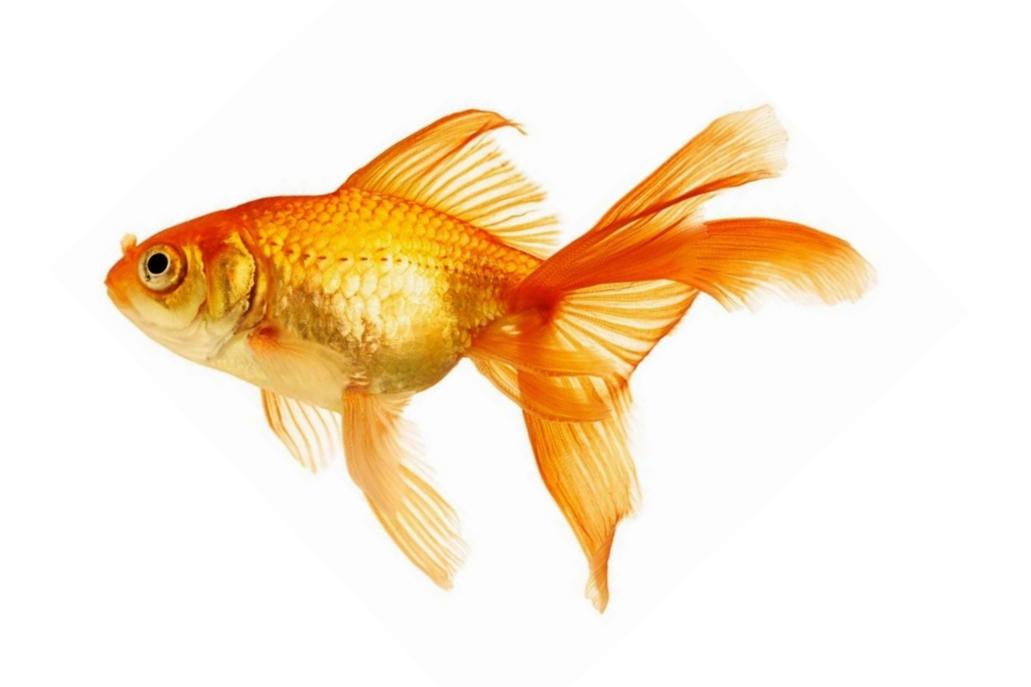
NLADA 2017

Nancy Kinnally The Florida Bar Foundation Alison Davis-Holland Self-Represented Litigation Network Camille Ward Voices for Civil Justice

THE FLORIDA BAR FOUNDATION



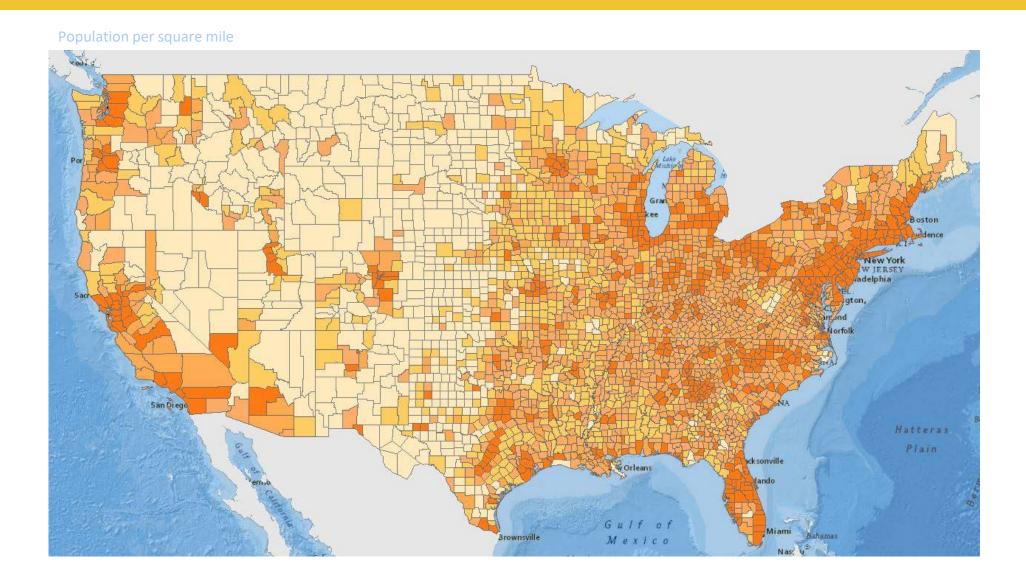
**Civil Justice** 



# Tabular (Before)

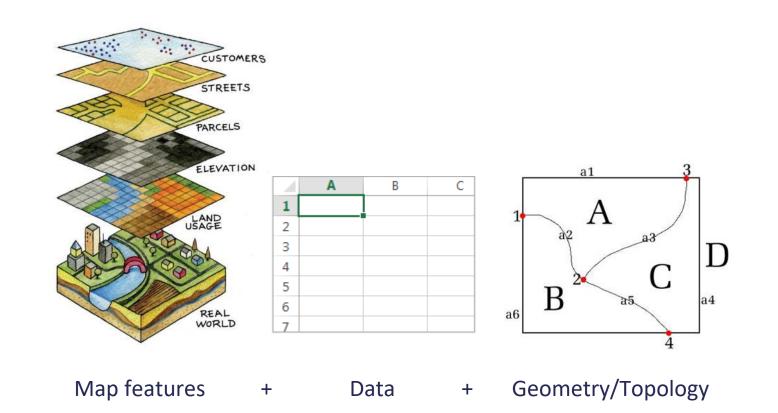
NAME	STATE_NAME	STATE_FIPS	CNTY_FIPS	FIPS	POP2000	POP00_SQMI	WHITE	BLACK	AMERI_ES	ASIAN	HAWN_PI	OTHER	MULT_RACE	HISPANIC	MALES	FEMALES	AGE_UNDER5
Lake of the Woods	Minnesota	27	077	27077	4522	2.5	4396	13	51	11	0	5	46	29	2272	2250	188
Ferry	Washington	53	019	53019	7260	3.2	5480	15	1327	21	4	162	251	205	3764	3496	394
Stevens	Washington	53	065	53065	40066	15.8	36078	111	2266	193	66	271	1081	739	19940	20126	2425
Okanogan	Washington	53	047	53047	39564	7.4	29799	109	4537	176	28	3791	1124	5688	19706	19858	2493
Pend Oreille	Washington	53	051	53051	11732	8.2	10973	17	338	74	24	67	239	241	5881	5851	637
Boundary	Idaho	16	021	16021	9871	7.7	9401	16	199	57	7	85	106	335	4971	4900	687
Lincoln	Montana	30	053	30053	18837	5.1	18100	21	226	59	7	74	350	271	9542	9295	937
Flathead	Montana	30	029	30029	74471	14.2	71689	113	856	346	44	305	1118	1061	36911	37560	4415
Glacier	Montana	30	035	30035	13247	4.4	4693	11	8186	9	7	24	317	159	6553	6694	1075
Toole	Montana	30	101	30101	5267	2.7	4945	8	168	16	1	17	112	61	2716	2551	282
Liberty	Montana	30	051	30051	2158	1.5	2141	0	2	7	0	2	6	4	1063	1095	109
Hill	Montana	30	041	30041	16673	5.7	13263	15	2884	62	3	59	387	208	8306	8367	1190
Sheridan	Montana	30	091	30091	4105	2.4	3982	4	50	12	1	8	48	44	2039	2066	183
Divide	North Dakota	38	023	38023	2283	1.8	2260	0	3	12	0	4	4	14	1146	1137	70
Burke	North Dakota	38	013	38013	2242	2	2225	3	5	3	0	1	5	8	1130	1112	82
Renville	North Dakota	38	075	38075	2610	2.9	2551	6	17	12	0	3	21	19	1307	1303	113
Bottineau	North Dakota	38	009	38009	7149	4.2	6950	16	104	13	1	8	57	35	3600	3549	280
Rolette	North Dakota	38	079	38079	13674	14.6	3435	10	9983	10	0	16	220	110	6741	6933	1208
Towner	North Dakota	38	095	38095	2876	2.8	2799	2	59	2	0	1	13	5	1416	1460	137
Cavalier	North Dakota	38	019	38019	4831	3.2	4739	7	25	5	0	5	50	31	2402	2429	208
Pembina	North Dakota	38	067	38067	8585	7.7	8198	13	123	18	0	109	124	264	4305	4280	432
Kittson	Minnesota	27	069	27069	5285	4.8	5184	8	14	13	0	20	46	67	2621	2664	336
Roseau	Minnesota	27	135	27135	16338	9.7	15671	21	232	283	3	13	115	71	8367	7971	1185
Blaine	Montana	30	005	30005	7009	1.7	3685	12	3180	6	2	16	108	70	3460	3549	569
Phillips	Montana	30	071	30071	4601	0.9	4115	7	350	15	1	17	96	53	2305	2296	227
Valley	Montana	30	105	30105	7675	1.5	6765	10	723	19	1	20	137	60	3802	3873	422
Daniels	Montana	30	019	30019	2017	1.4	1937	0	26	5	2	12	35	32	988	1029	87
Whatcom	Washington	53	073	53073	166814	66.6	147485	1150	4709	4637	235	4159	4439	8687	82188	84626	10210
Bonner	Idaho	16	017	16017	36835	19.2	35574	40	322	101	17	155	626	604	18449	18386	2100
Ward	North Dakota	38	101	38101	58795	28.6	54327	1305	1215	483	36	428	1001	1125	2928 <mark>4</mark>	29511	4348
Koochiching	Minnesota	27	071	27071	14355	4.6	13798	27	309	25	9	11	176	81	7123	7232	779
Skagit	Washington	53	057	53057	102979	53.6	89070	450	1909	1538	163	7381	2468	11536	50982	51997	6718
Williams	North Dakota	38	105	38105	19761	9.2	18367	24	869	36	2	27	436	185	9687	10074	1135
McHenry	North Dakota	38	049	38049	5987	3.1	5911	5	24	2	0	3	42	24	3051	2936	294
St. Louis	Minnesota	27	137	27137	200528	29.7	190211	1704	4074	1333	54	451	2701	1597	98629	101899	10455
San Juan	Washington	53	055	53055	14077	22.7	13372	36	117	125	12	128	287	338	6860	7217	525
Roosevelt	Montana	30	085	30085	10620	4.5	4347	5	5921	46	5	27	269	131	5264	5356	858
Mountrail	North Dakota	38	061	38061	6631	3.4	4376	6	1988	14	3	17	227	87	3262	3369	431
Marshall	Minnesota	27	089	27089	10155	5.6	9873	10	29	17	0	165	61	298	5157	4998	583
Ramsey	North Dakota	38	071	38071	12066	9.3	11138	25	651	31	3	20	198	63	5954	6112	682
Walsh	North Dakota	38	099	38099	12389	9.6	11752	41	126	24	2	311	133	700	6196	6193	711
Beltrami	Minnesota	27	007	27007	39650	13	30394	142	8071	225	8	82	728	394	19557	20093	2825
Pierce	North Dakota	38	069	38069	4675	4.3	4605	5	32	12	0	2	19	28	2297	2378	246
Chelan	Washington	53	007	53007	66616	22.3	55711	172	661	451	77	8121	1423	12831	33158	33458	4750
Pondera	Montana	30	073	30073	6424	3.9	5374	6	929	9	3	8	95	54	3169	3255	398
Clallam	Washington	53	009	53009	64525	24.2	57505	545	3303	731	104	761	1576	2203	32054	32471	3313

## Same Data - Now on a Map



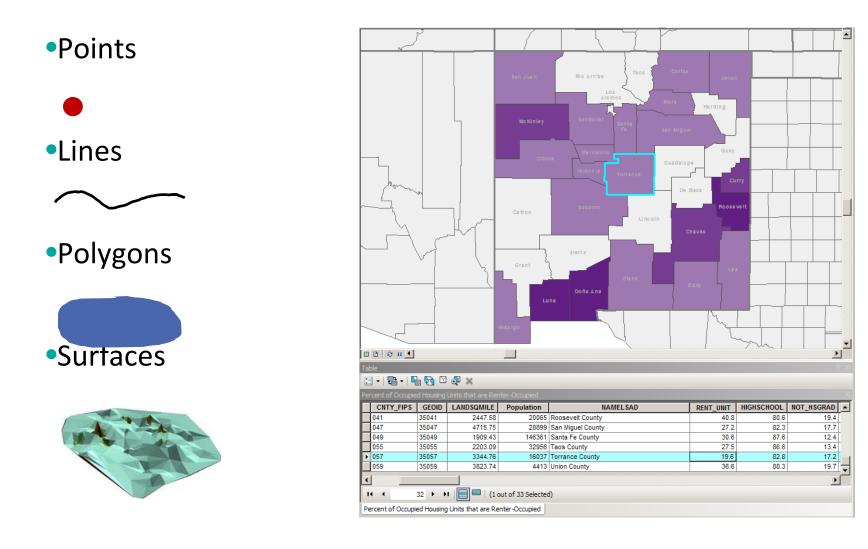
# GIS is a Thinking Map

Connects map features to data and uses topology to analyze space



# How GIS Works... Map Features Linked to Data

2



## Benefits of Using GIS & Maps for ATJ

#### Accessible

"Clear to everyone from students to senior decision makers."

#### Concise

"We were able to distill large quantities of complex data into a simplified image that can be quickly interpreted."

#### Engaging

"These maps prompted discussion and critical thinking and allowed us to compare local jurisdictions to state trends. Authoritative "Provide accurate data across geography and time."

#### Informative

"Help provide context for why access to justice is so necessary by broadening our scope of focus onto statewide demographics."

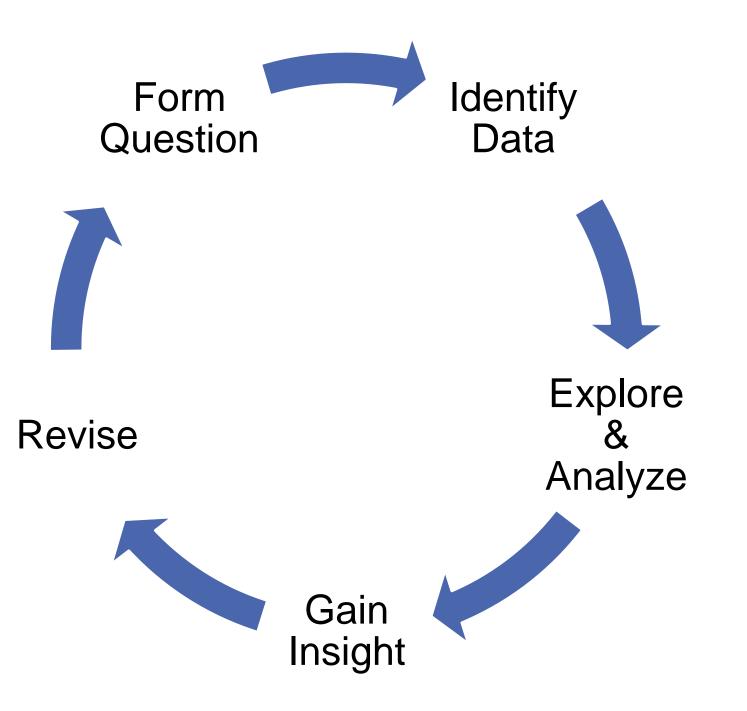
#### Strategic

"By understanding the people in the community we are able to more effectively plan for meeting their needs."



## **Questions to Consider**

- What story are we trying to tell?
- Who do we need to reach?
- What will be compelling/convincing to them?



## **Applications of GIS in the Justice Community**



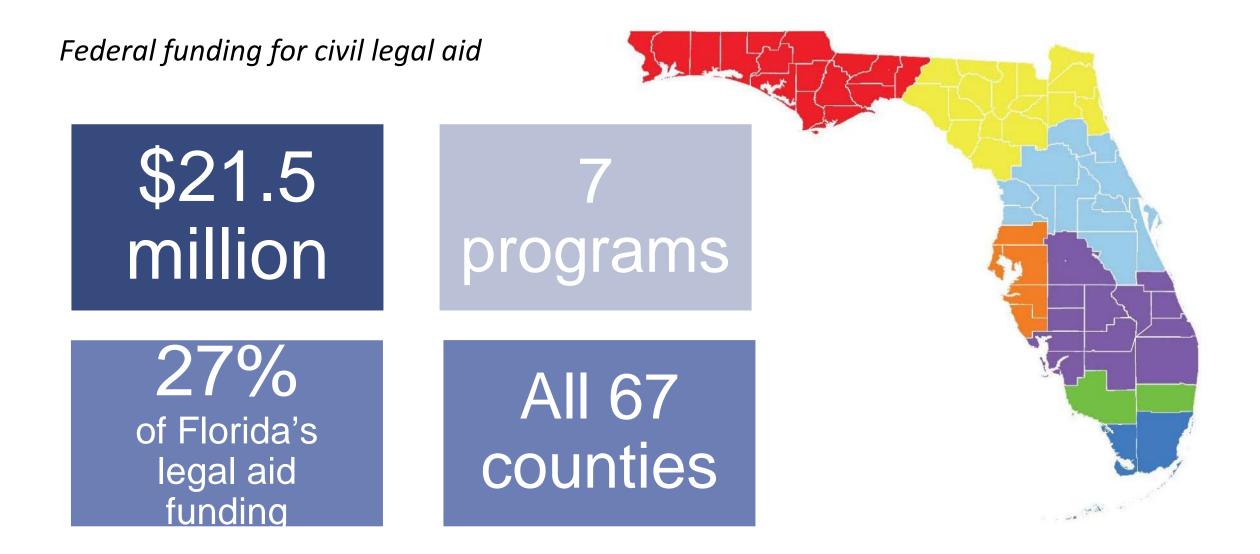
Opportunity



Advocacy

Strategic Planning

# Florida's Legal Services Corporation Funding



# ABA Days in Washington, April 26-27, 2017



How do these leaders show Florida's congressional delegation the impact of LSC funding on Florida?



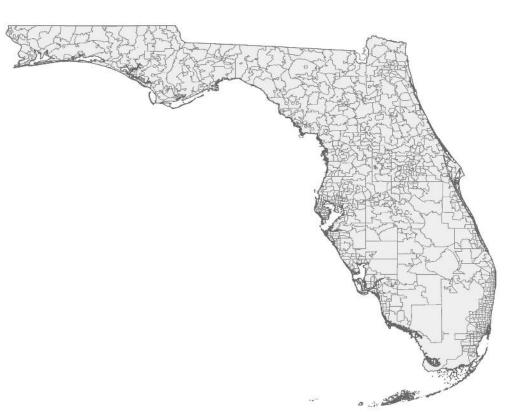
## Florida Bar Foundation Data

Cases closed by 30 Florida civil legal aid organizations in 2015, including:



# Where did people benefit from LSC-funded organizations?

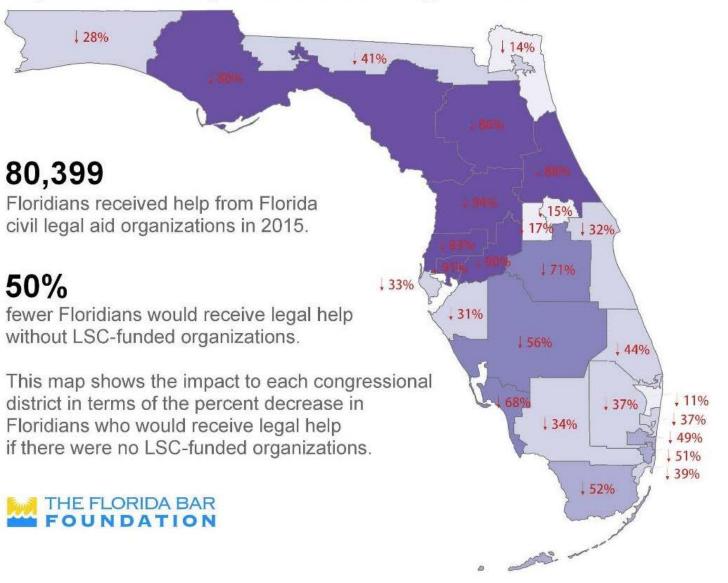
Map distribution by ZIP -> not so relevant



Where did people benefit from LSC-funded organizations?

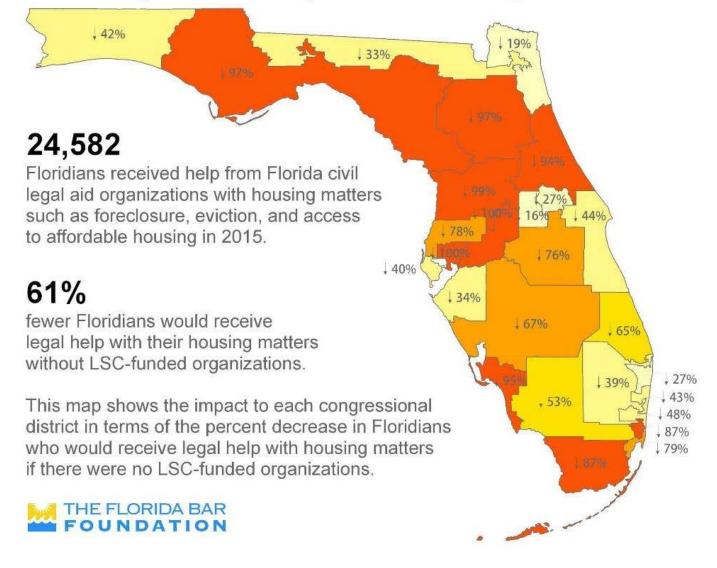
Maps by congressional district show each member of Congress the impact on his or her district.

## **Civil Legal Aid Floridians Would Lose Without Legal Services Corporation-Funded Organizations**



People facing housing insecurity

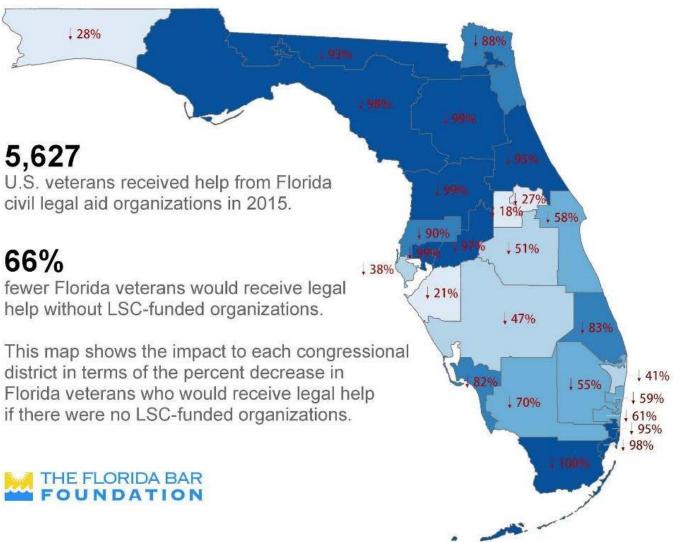
## Housing-Related Legal Aid Floridians Would Lose Without Legal Services Corporation-Funded Organizations



## Veterans

## **Civil Legal Aid Florida Veterans Would Lose Without** Legal Services Corporation-Funded Organizations

66%



## Abuse survivors

## **Civil Legal Aid Florida Abuse Survivors Would Lose** Without Legal Services Corporation-Funded Organizations

68%

## 7,704

\$ 52%

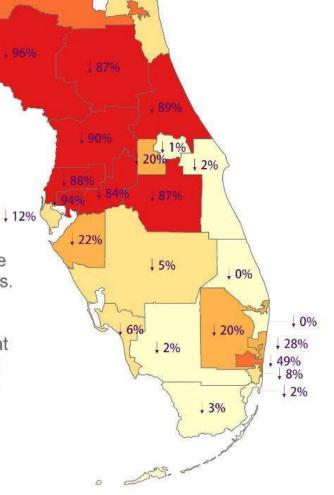
survivors of domestic abuse and child neglect/abuse received help from Florida civil legal aid organizations in 2015.

## 41%

fewer Florida abuse survivors would receive legal help without LSC-funded organizations.

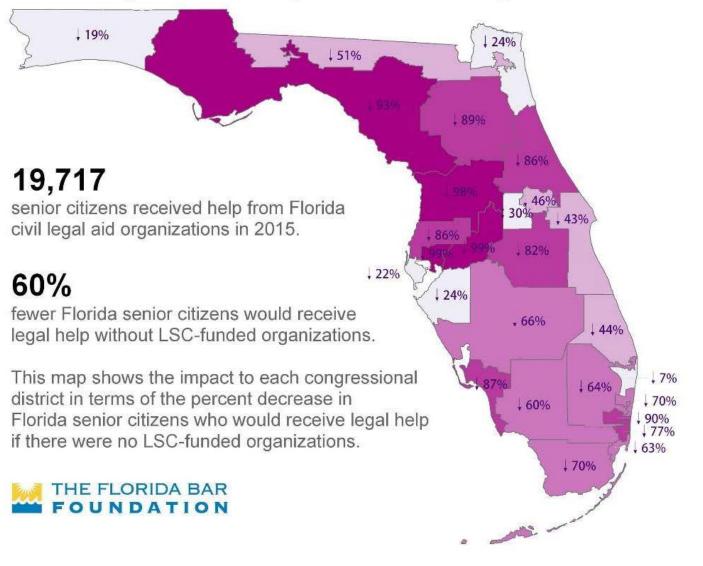
This map shows the impact to each congressional district in terms of the percent decrease in Florida abuse survivors served if there were no LSC-funded organizations.





Seniors

## **Civil Legal Aid Florida Senior Citizens Would Lose** Without Legal Services Corporation-Funded Organizations



# 27 Congressional District Profiles

Percentage and raw numbers of constituent services that would be lost without LSC organizations

- Overall
- U.S. veterans
- Abuse survivors
- Seniors
- Housing matters

Services Florida District 15 Would LOSE Without Legal Services Corporation-Funded Organizations

prepared for U.S. Rep. Dennis Ross

In 2015, civil legal aid organizations addressed the legal needs of 2,681 Florida District 15 constituents.

2,419 constituents were helped by organizations funded by the Legal Services Corporation.

**175,018** people are eligible for civil legal aid in Florida District 15 based on household income.

Without LSC-funded organizations, civil legal needs addressed in Florida District 15 by legal aid would **FALL** by:









## **90%** fewer constituents would get civil legal help without LSCfunded organizations in Florida District 15

Florida's LSC-funded programs helped stabilize the lives of 35,196 children in 2015

LSC-funded organizations provide low-income Americans the civil legal help they need to ensure their safety, stability and livelihoods. They keep families in their homes, protect the vulnerable from abuse, aid survivors recovering from natural disasters, and secure people's access to education and health services.



Case closure data are from The Florida Bar Foundation for 2015. Location is based on the client's ZIP code and county of residence and tied to Census Bureau's ZIP Code Tabulation Areas, then to Congressional districts.



## thefloridabarfoundation. org/materials-aba-days/

## srln.org/WIIFM

# Florida Civil Legal Aid

The Critical Second Responders Helping Floridians Recover from Hurricane Irma

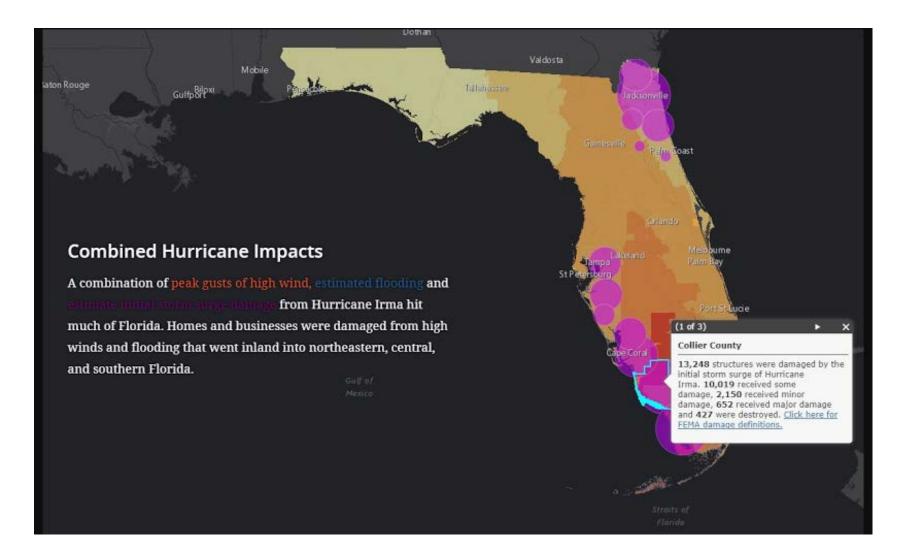


thefloridabarfoundation.org /interactive-story-mapshows-hurricane-impactsfloridas-vulnerablepopulations/

srln.org/HurricaneIrma

Story Map: https://arcg.is/CCDzi

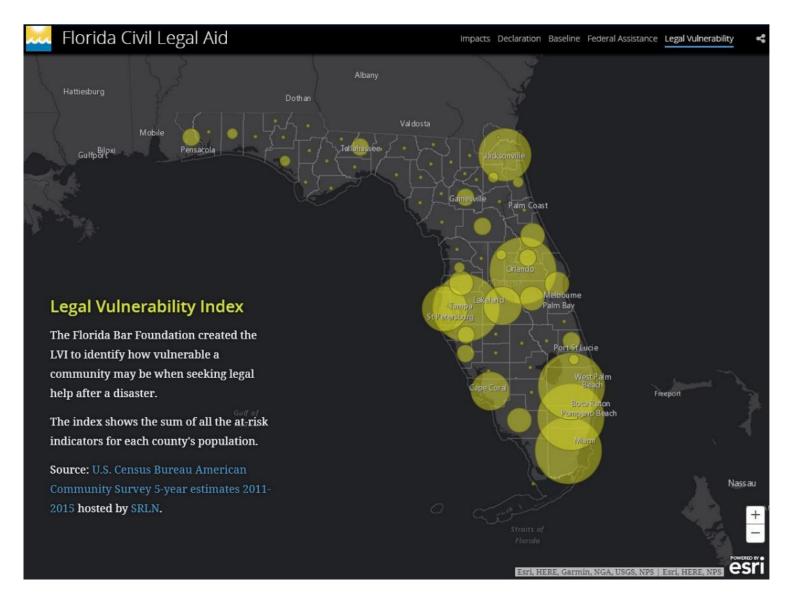
## Hurricane Irma Story Map



Data resource for Florida Bar Foundation grantees and others

- hurricane impacts
- social vulnerability
- housing/location affordability
- FEMA applications
- D-SNAP applications
- Legal Vulnerability

# Legal Vulnerability Index



Displays the sum of multiple at-risk indicators for each county's population.

- Income below 125% (poverty)
- Renters
- Uninsured (health)
- Immigrants
- Limited English Proficiency

## **Future Plans: Mapping Data on Services Provided**



- FEMA Denials
- Consumer Fraud
- Domestic Violence

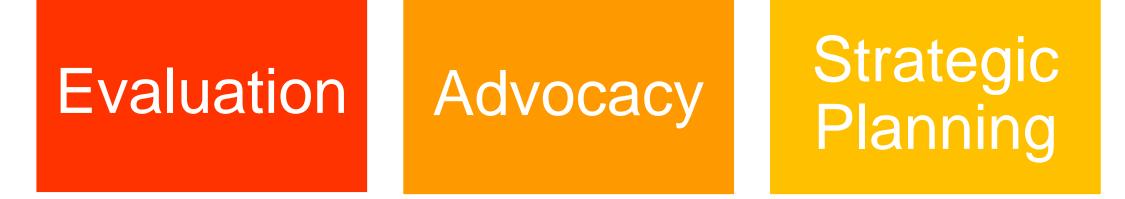
- Landlord/Tenant Issues
- Mortgage Foreclosure Prevention
- Problems Faced by Marginalized Communities

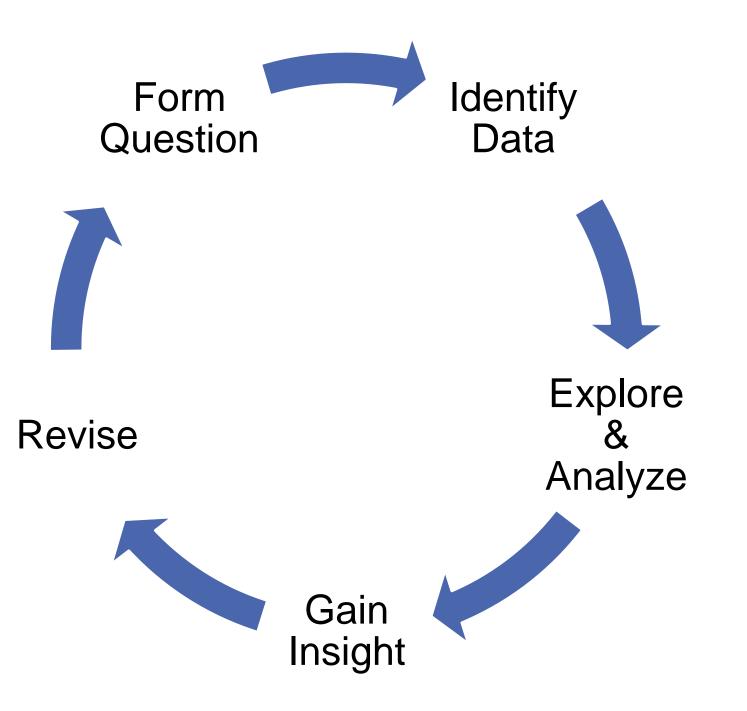
## **Applications of GIS in the Justice Community**

We can use these tools to show:



They can help us do a better job with our:





# **YOUR TURN**

Now, we want you to consider a problem or challenge you are confronting in your own work.

Work in pairs and use the handout to brainstorm:

- What story you want/need to tell about your challenge
- How you might begin to tell it through GIS

# **YOUR TURN**

Work in pairs and use the handout to brainstorm:

What story do you want/need to tell about your challenge?

Whom do you need to reach?
What will convince them?

How might you begin to tell your story through GIS?

What data would you need?

What data you already have access to?

# **Identify Open Source Data**

data.gov ArcGIS Online - www.arcgis.com/home/index.html factfinder.census.gov Wikipedia listing of GIS data sources

srln.org/GISDataResources srln.org/GISforJustice to join listserv & connect with others

## America's Civil Courts: Whom Do We Serve?

Every year in America, <u>tens of millions of people find themselves in</u> <u>court, without a lawyer</u>, lost in a system built for lawyers.

The <u>Justice for All Project</u> has called on <u>Access to Justice</u> <u>Commissions</u> and coalitions around the country to develop consumer-oriented, comprehensive strategic plans. These plans will support 100% access to effective assistance for essential civil legal needs through court simplification and offering a continuum of services to include information, advice and appropriate levels of representation.

Consumer-oriented solutions require a deep and accurate understanding of the people being served. Each county is different, with unique communities of people, needs, resources and service networks.

This tool showcases publicly available data to help inform service design and identify collaborative opportunities that best meet the needs of individual counties, while also laying the foundation of future research and evaluation.

SCROLL DOWN TO LEARN MORE ABOUT YOUR COMMUNITY.



srln.org/whom-do-we-serve

# **Tips for Generating Media Interest**

# Plan Ahead

- Consider Timing
- Have Strong Supporting Materials

Loop Us in

bit.ly/joinjusticevoices

## **Information on Your Presenters**

## **Nancy Kinnally**

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**Civil Justice**