

SCAN360



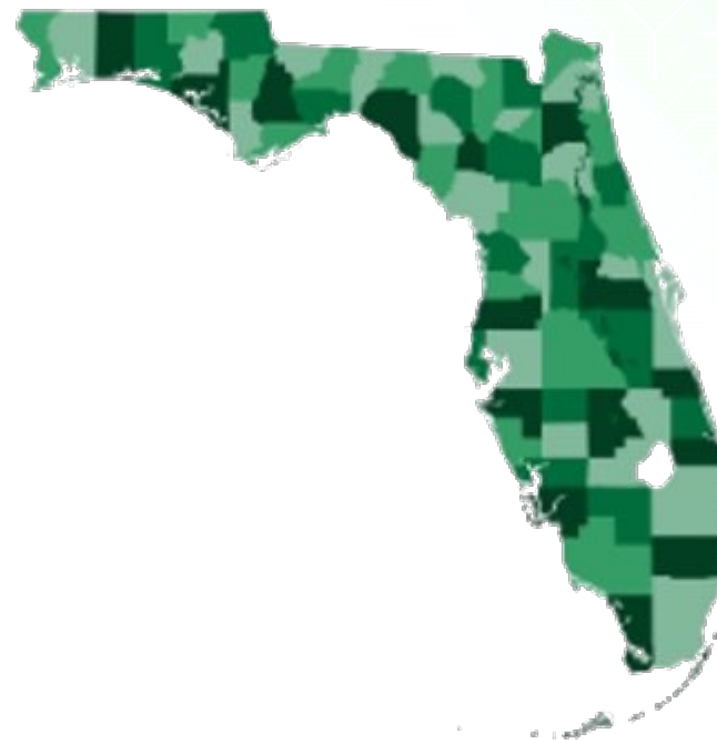
www.SCAN360.com



Outline

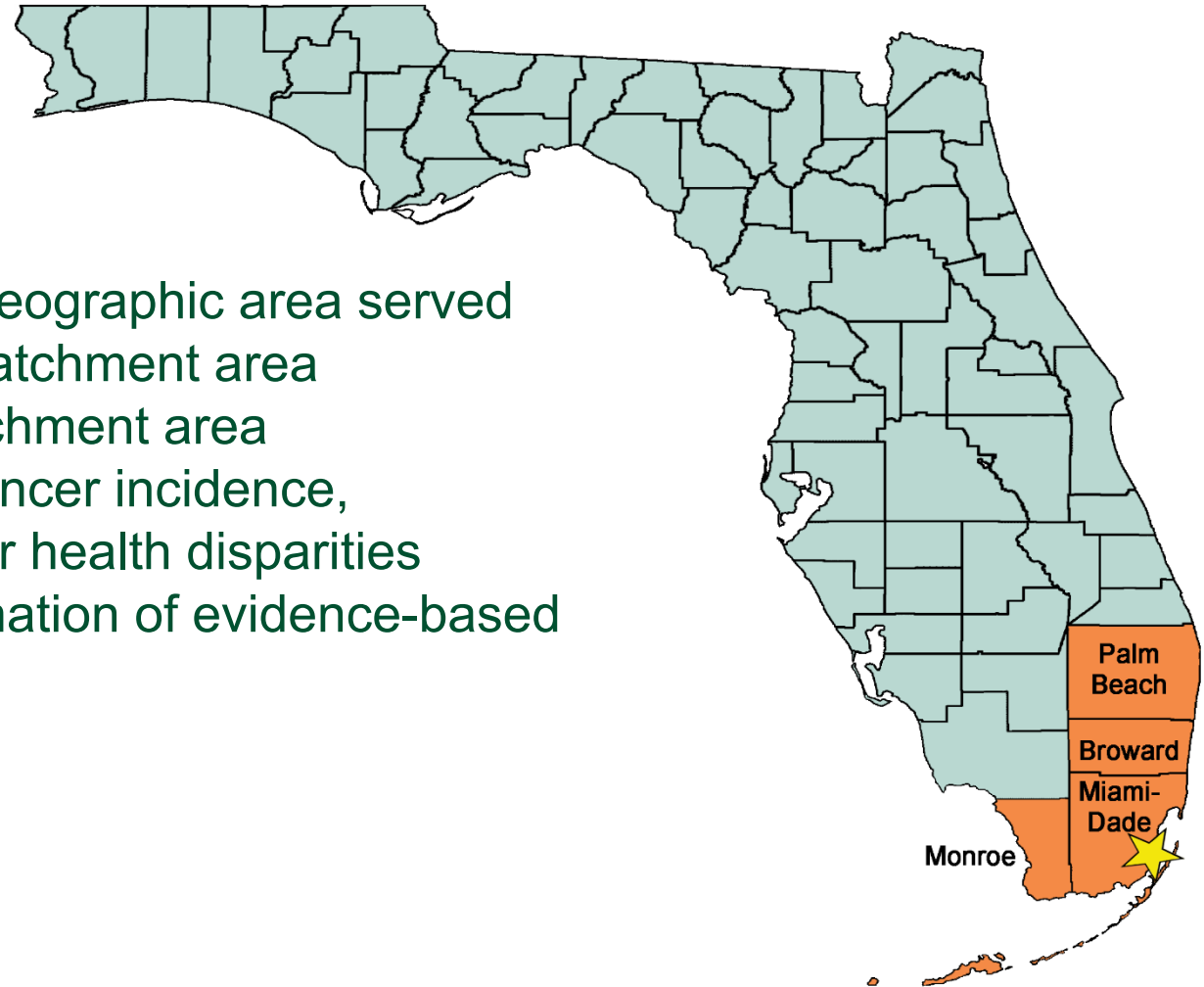
SCAN360 

- SCAN 360 overview
- Current state
 - ✓ Data sources
 - ✓ Features & capabilities
- Future plans



Community Outreach and Engagement

- Define catchment area based on geographic area served
- Perform research relevant to the catchment area
- Engage populations within the catchment area
- Emphasis on unique or unusual cancer incidence, underserved populations, or cancer health disparities
- Establish partnerships for dissemination of evidence-based findings





Impact for 18 different cancers

The screenshot displays the SCAN360 web application interface. At the top, navigation links include "SCAN360", "SCAN CANCER DATA", "NEIGHBORHOOD PROFILES", "COMMUNITY RESOURCES", "RESEARCH & OUTREACH", and "ABOUT SCAN 360". Below this, a secondary navigation bar contains "CANCER MAPS", "DETAILED CANCER STATISTICS", and "RISK AND PROTECTIVE FACTORS", with a "SAVE" button on the right.

The main content area is divided into two panels. The left panel features a "Clear All" button and "Term Definitions" link. It includes a dropdown menu for "Incidence Rate (Age Adjusted)", a "All Cancers" dropdown menu (which is currently open, showing a list of 18 cancer types: Anal, Breast, Cervical, Colorectal, Endometrial, Kidney, Leukemia, Liver, Lung and Bronchus, Melanoma, Non-Hodgkin Lymphoma, Oral and Oral Pharynx, Ovary, Pancreas, Prostate, Stomach, Thyroid, and Urinary Bladder), a "Florida" location dropdown, and a "Data" dropdown. Below these are "Map View" and "List View" options. A map of Florida is visible, with a legend at the bottom showing incidence rate ranges: 0 - 389, 392 - 419, 420 - 442, 443 - 467, and 475 - 1254. A "Population Filters" dropdown is also present.

The right panel also has a "Clear All" button and "Term Definitions" link. It includes a "Select Cancer Data or Contextual Factor" dropdown, a "Select a Cancer Type" dropdown, and a "Select a Location" dropdown. Below these is a "No Neighborhoods Available" dropdown. At the bottom of this panel are "Map View", "Comparison View", and "List View" options, along with a "Map Exposures & Resources" dropdown. A map of Florida is visible, and a "Population Filters" dropdown is at the bottom.

At the bottom of the left panel, the following text is displayed:
Incidence Rate (Age Adjusted)
Florida
Everyone, Male and Female, All Ages:
444 per 100,000
NOTE: In order to protect privacy of individuals, cancer data in areas with less than 10 reported cases have been suppressed from the map.



Impact for 18 different cancers

4 different measures of public health significance

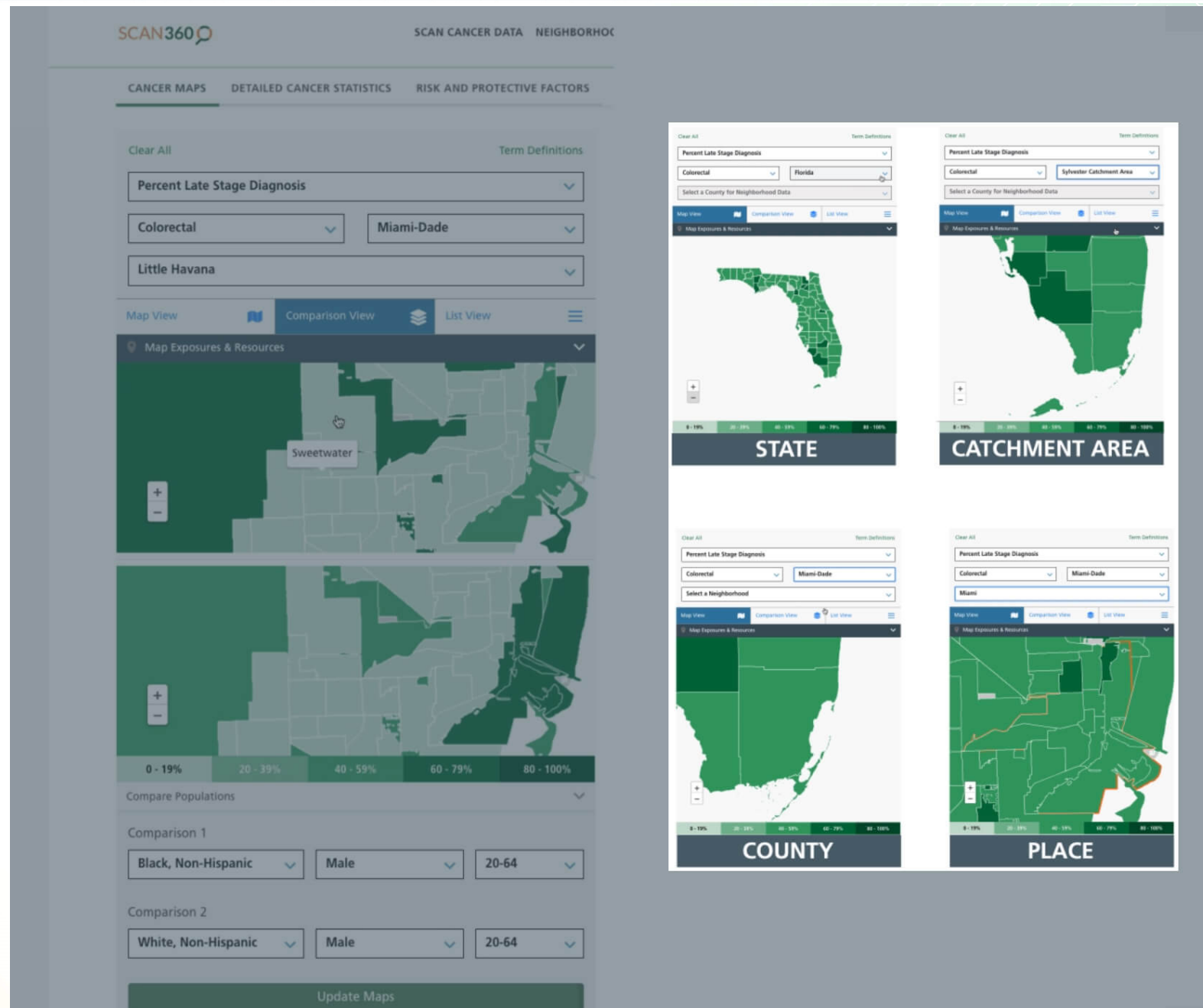
The screenshot displays the SCAN360 web application interface. At the top, navigation links include SCAN CANCER DATA, NEIGHBORHOOD PROFILES, COMMUNITY RESOURCES, RESEARCH & OUTREACH, and ABOUT SCAN 360. The main navigation bar features CANCER MAPS, DETAILED CANCER STATISTICS, and RISK AND PROTECTIVE FACTORS, with a SAVE button on the right. Below this, there are two panels for filtering data. The left panel has a 'Clear All' button and a 'Term Definitions' link. A dropdown menu is open, showing 'Incidence Rate (Age Adjusted)' selected. Other options in the menu include 'Cancer Data', 'Economic Resources', 'Environmental Factors', 'Health and Risk Behavior', 'Housing / Transportation', 'Other Health Outcomes', and 'Socio Demographics'. The right panel also has a 'Clear All' button and a 'Term Definitions' link. It contains a dropdown for 'Select Cancer Data or Contextual Factor', a 'Select a Cancer Type' dropdown, a 'Select a Location' dropdown, and a 'No Neighborhoods Available' dropdown. Below these are view options: 'Map View' (selected), 'Comparison View', and 'List View'. A 'Map Exposures & Resources' dropdown is also present. The main content area shows two maps of Florida. The left map is active and displays a choropleth map of Florida with a legend below it. The legend has five categories: 0 - 27, 30 - 34, 35 - 39, 40 - 44, and 45 - 129. The '35 - 39' category is highlighted. Below the legend, the text reads 'Incidence Rate (Age Adjusted) Florida' and 'Everyone, Male and Female, All Ages: 39 per 100,000'. A note at the bottom states: 'NOTE: In order to protect privacy of individuals, cancer data in areas with less than 10 reported cases have been suppressed from the map.' The right map is a greyed-out version of the same map.



Impact for 18 different cancers

4 different measures of public health significance

4 levels of geography



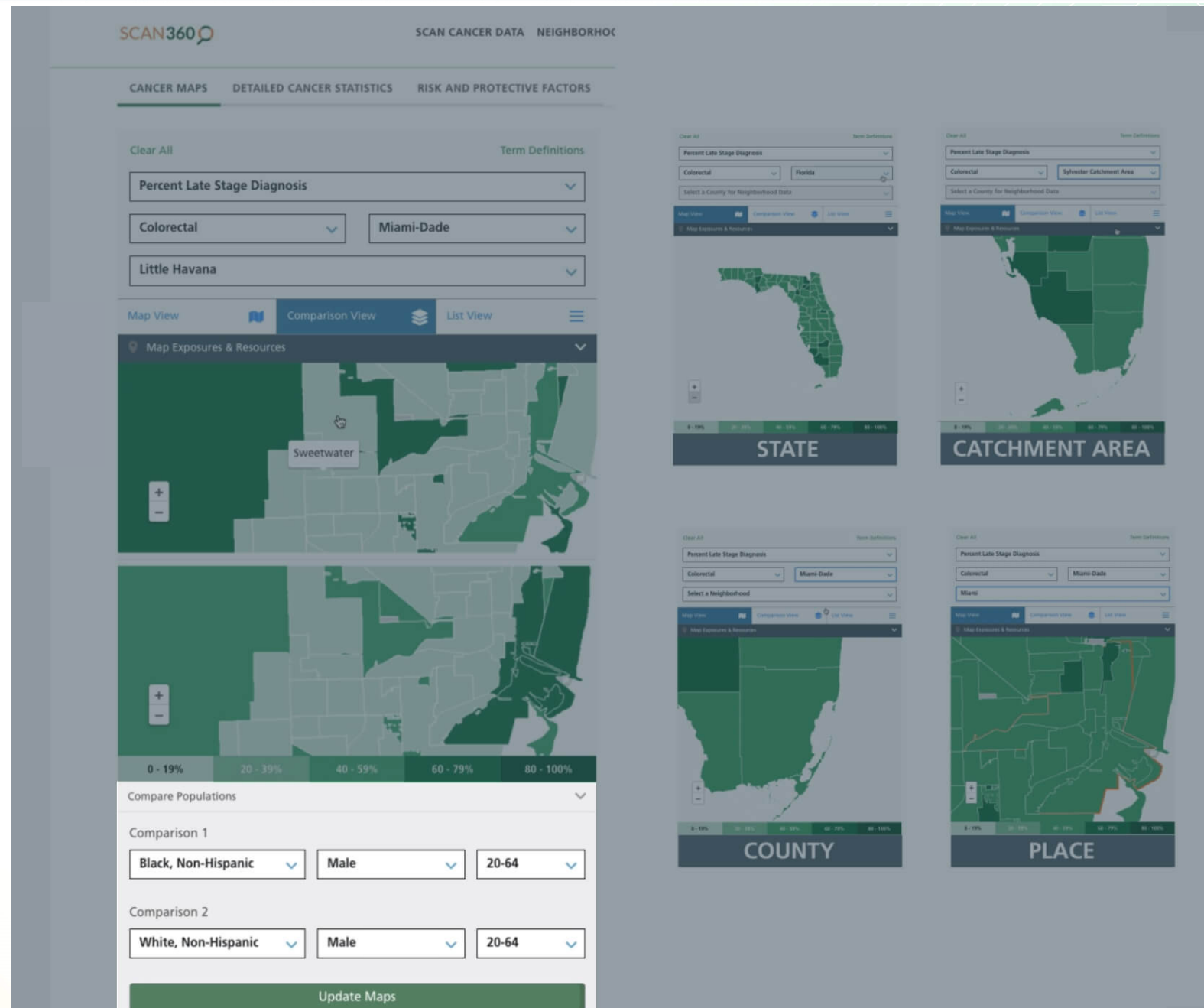


Impact for 18 different cancers

4 different measures of public health significance

4 levels of geography

Comparisons by race/ethnicity, age, sex



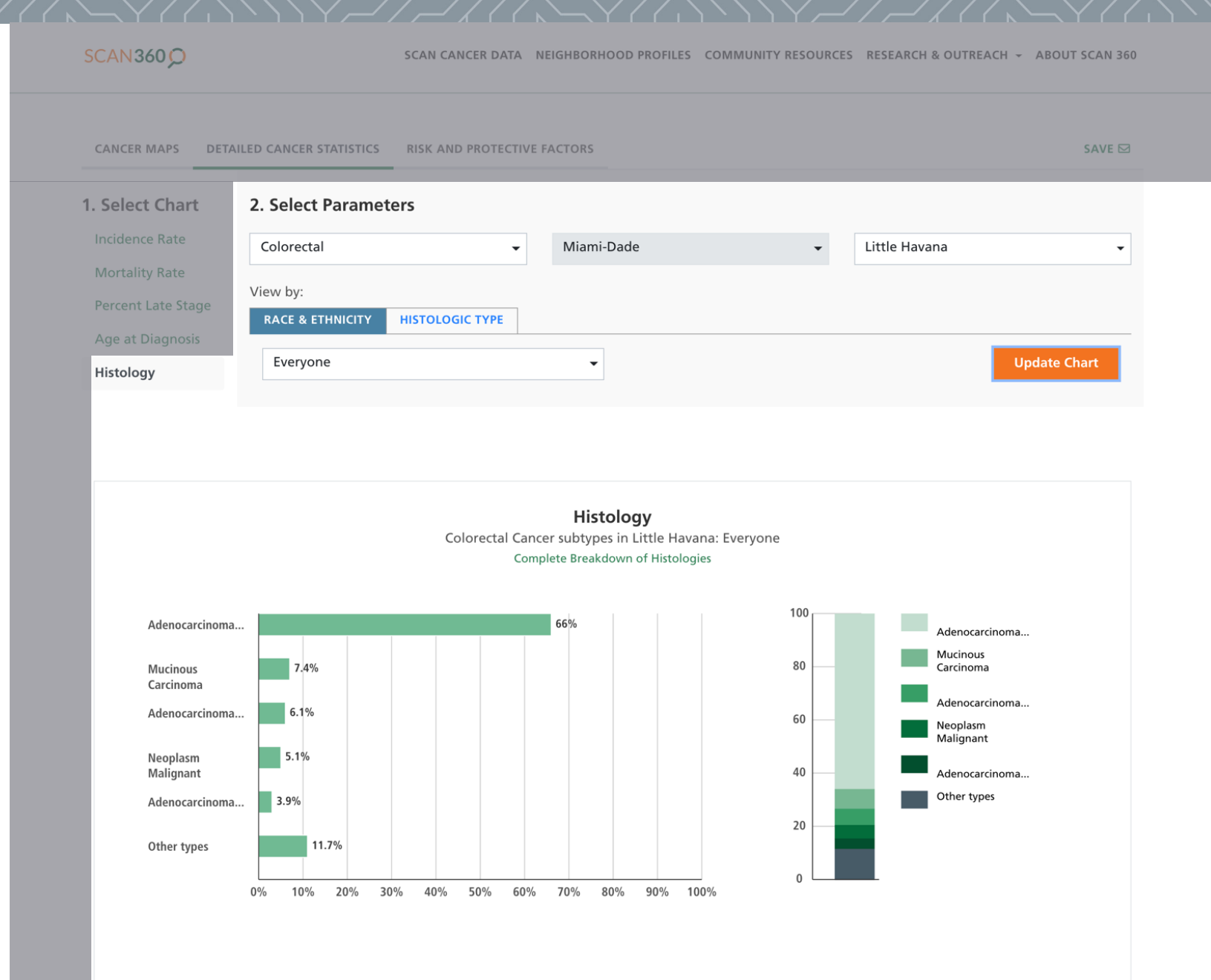
Impact for 18 different cancers

4 different measures of public health significance

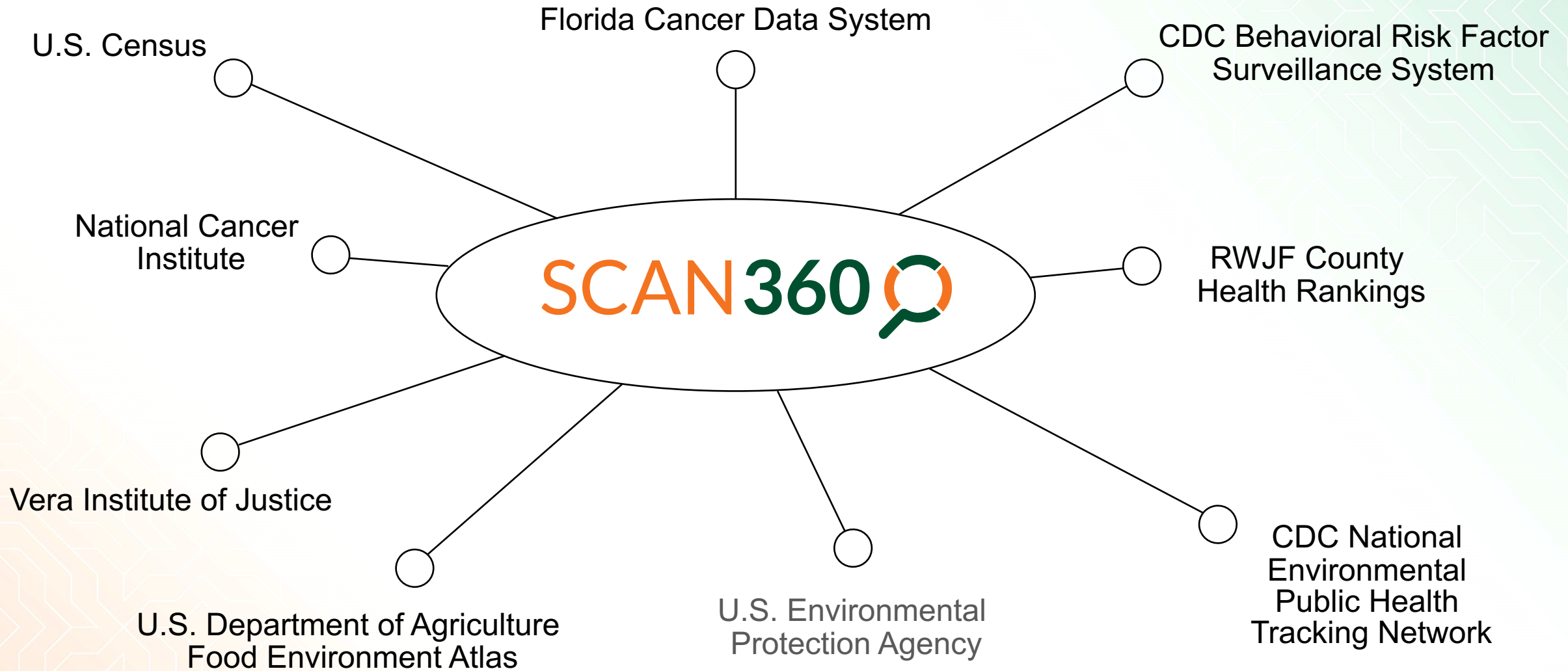
4 levels of geography

Comparisons by race/ethnicity, age, sex

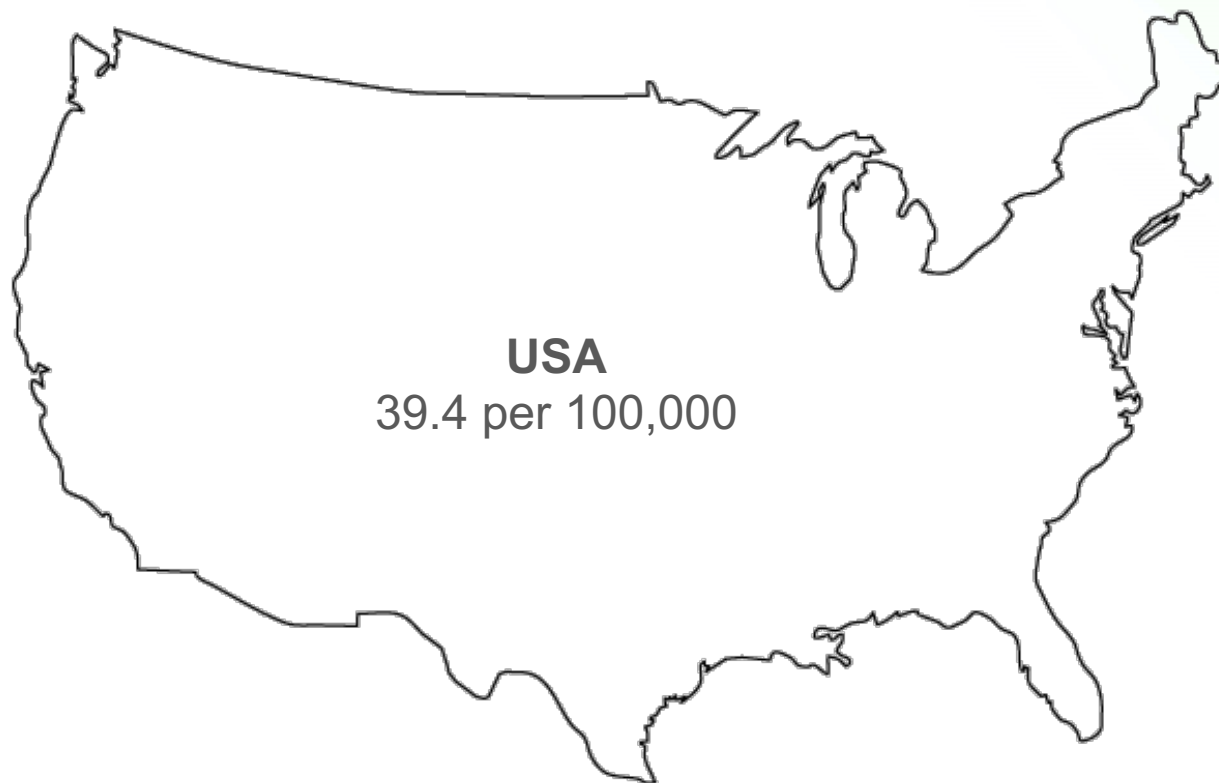
Cancer Histology



Integrating Disparate Sources

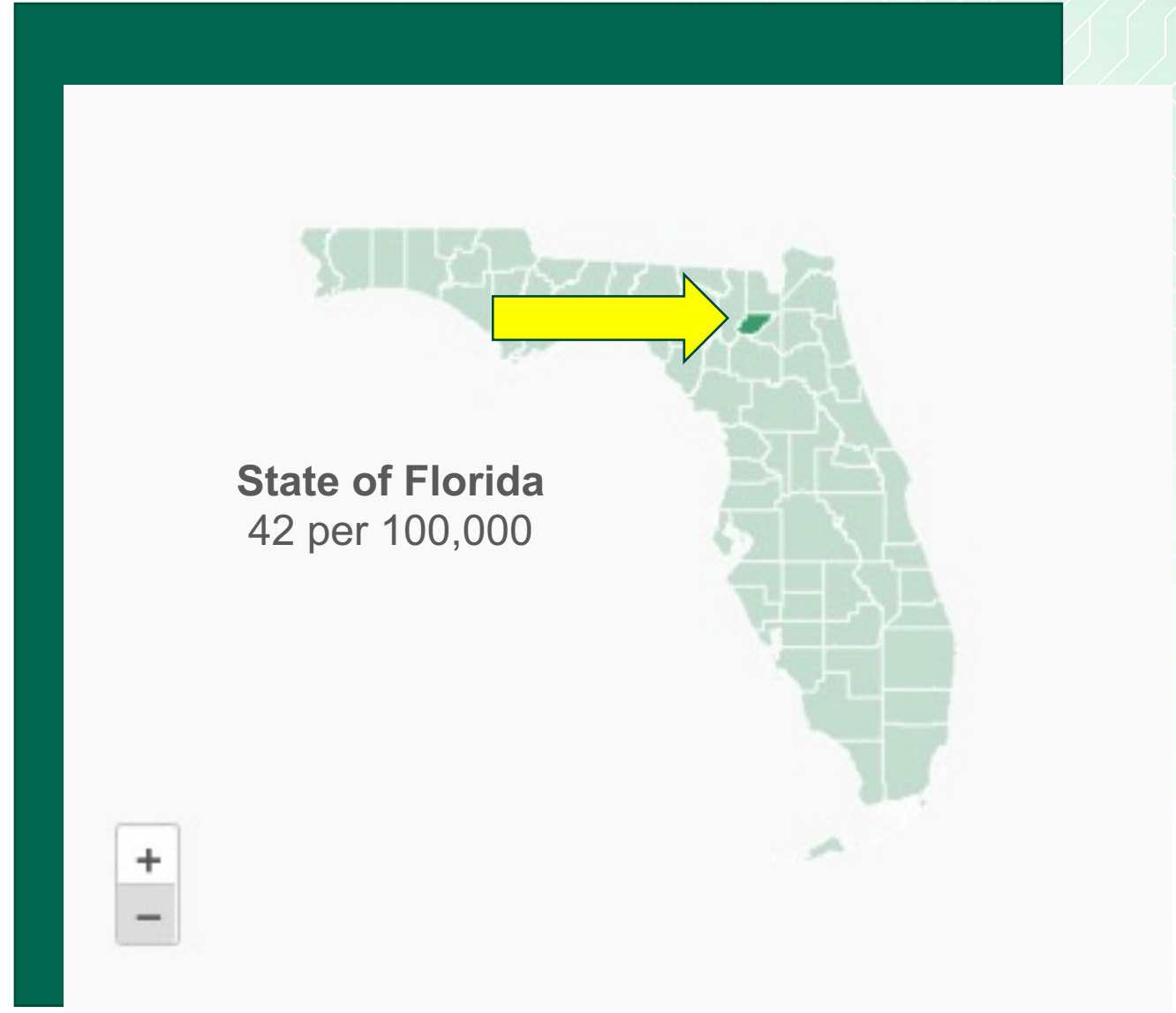
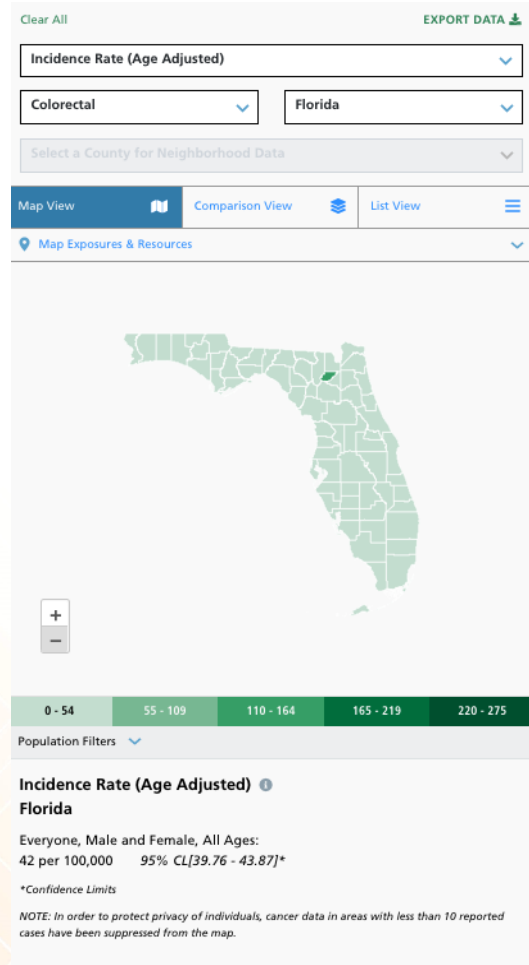


Colorectal Cancer



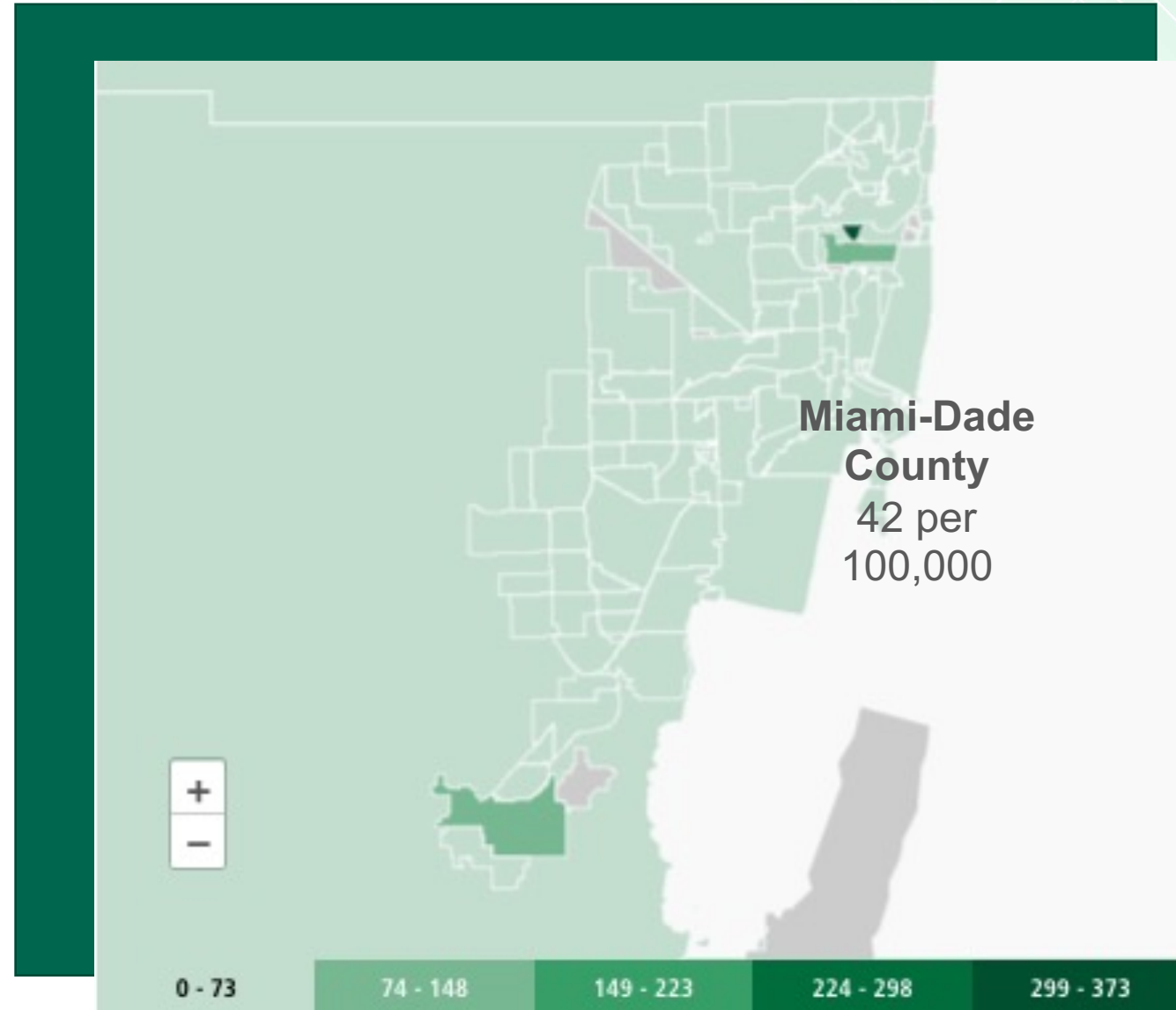
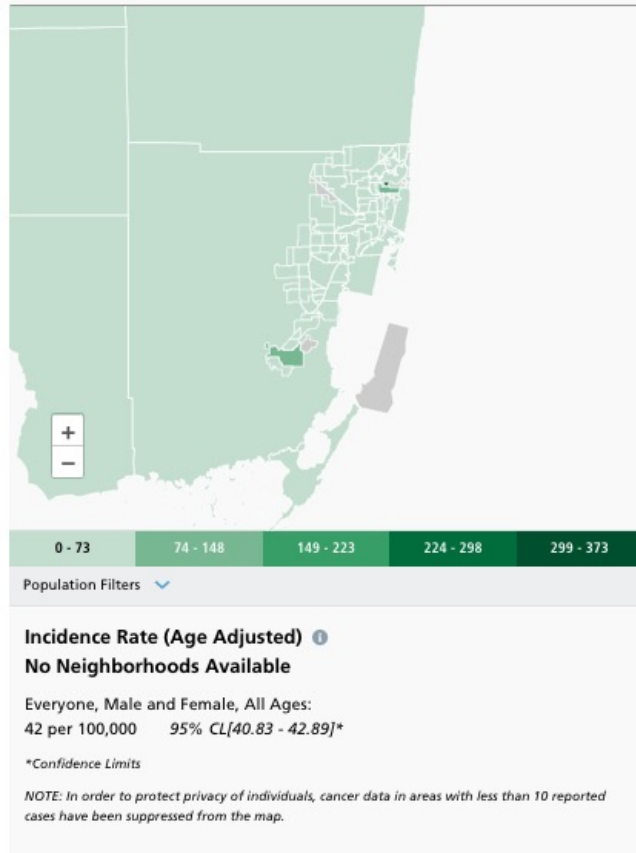
By State

Colorectal Cancer



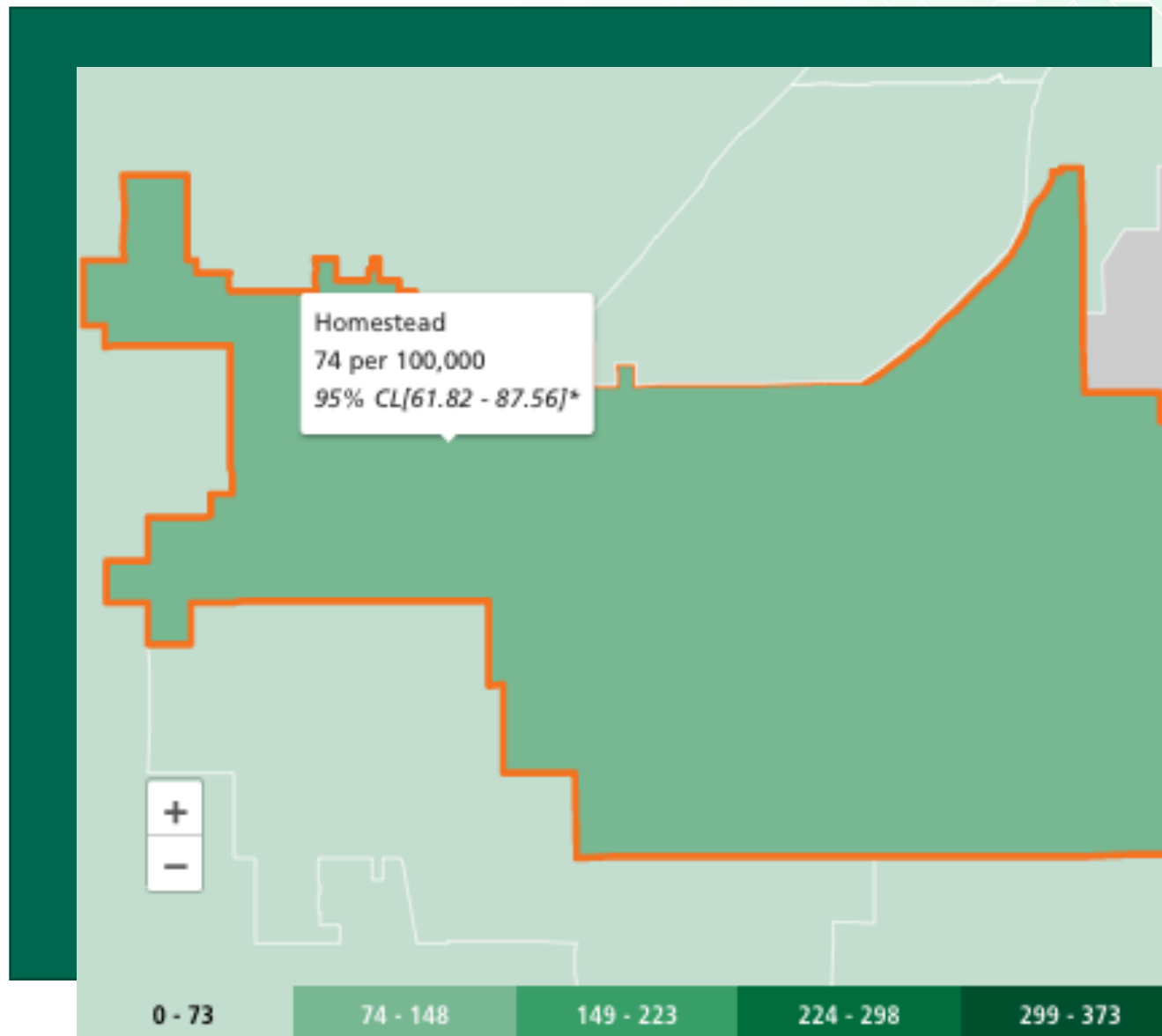
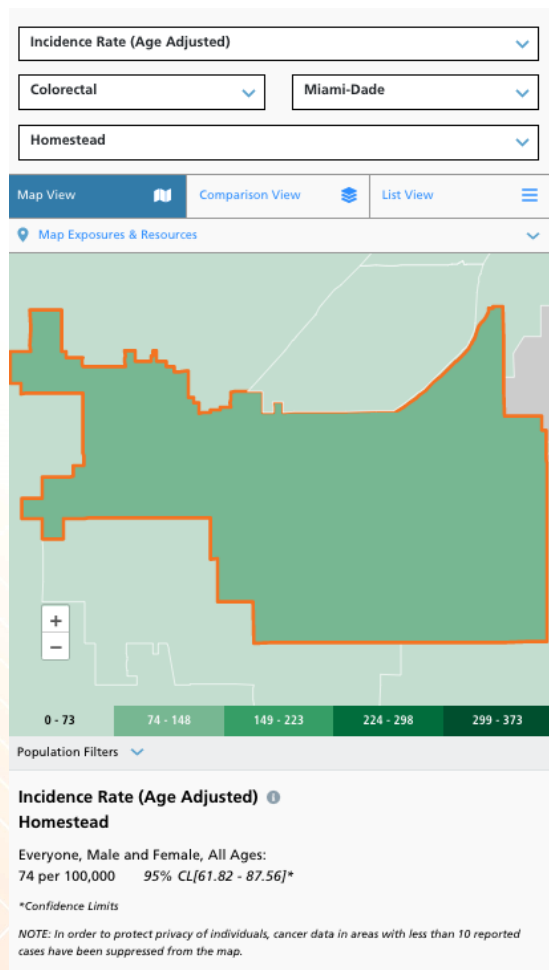
By County

Colorectal Cancer



By Place

Colorectal Cancer



Demographics By Place

Homestead

MAPS DETAILED CANCER STATISTICS RISK AND PROTECTIVE FACTORS SAVE 

1. Select Chart

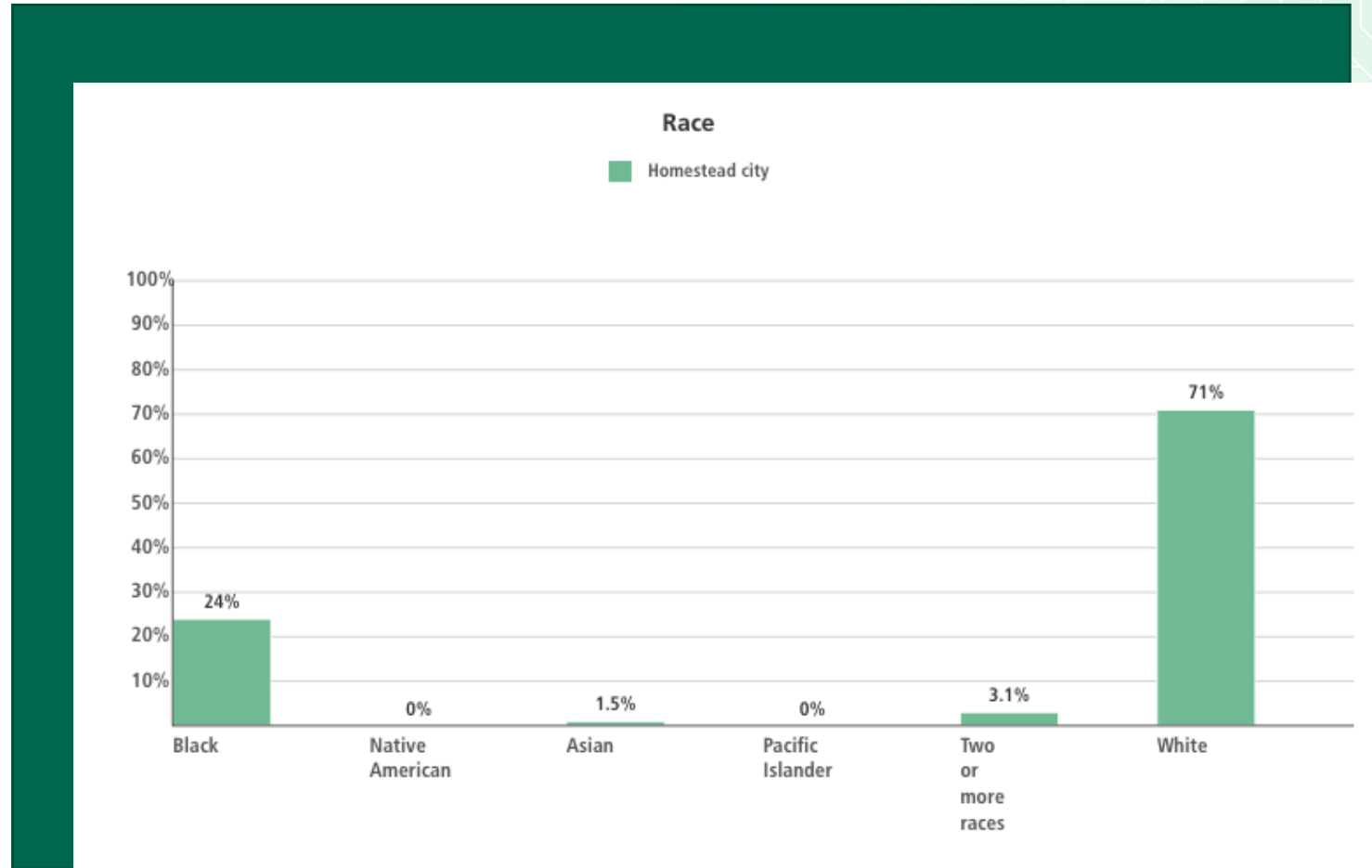
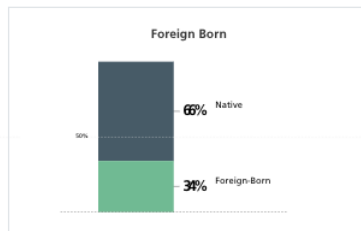
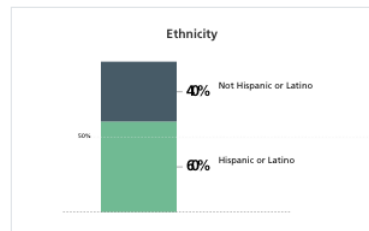
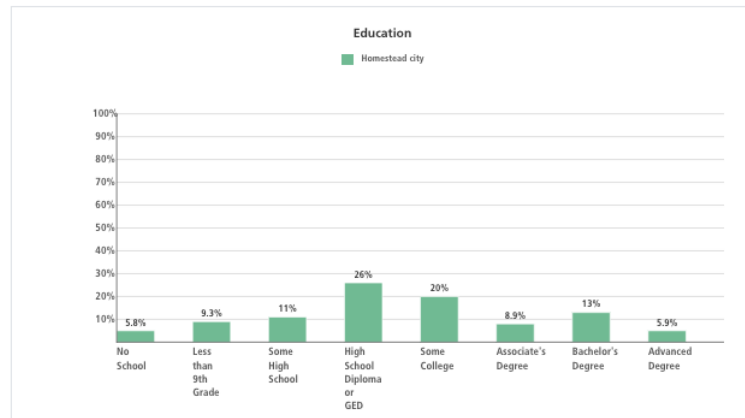
- Socio Demographics
- Economic Resources
- Housing/Transportation
- Healthcare Access

2. Select Parameters

Miami-Dade Homestead

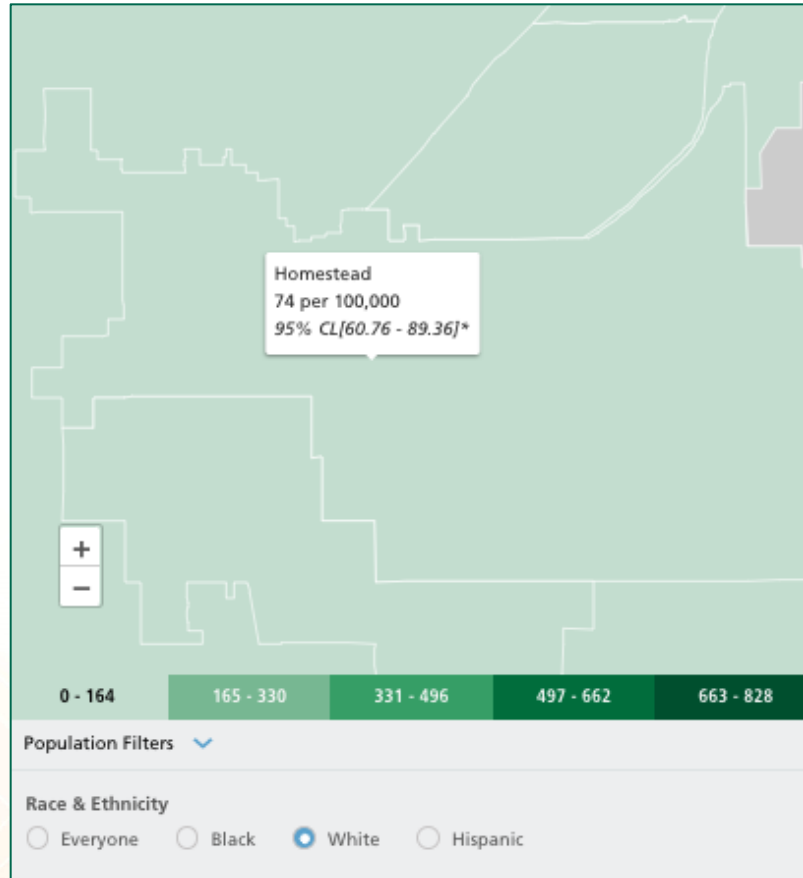
Data Comparisons

Clear

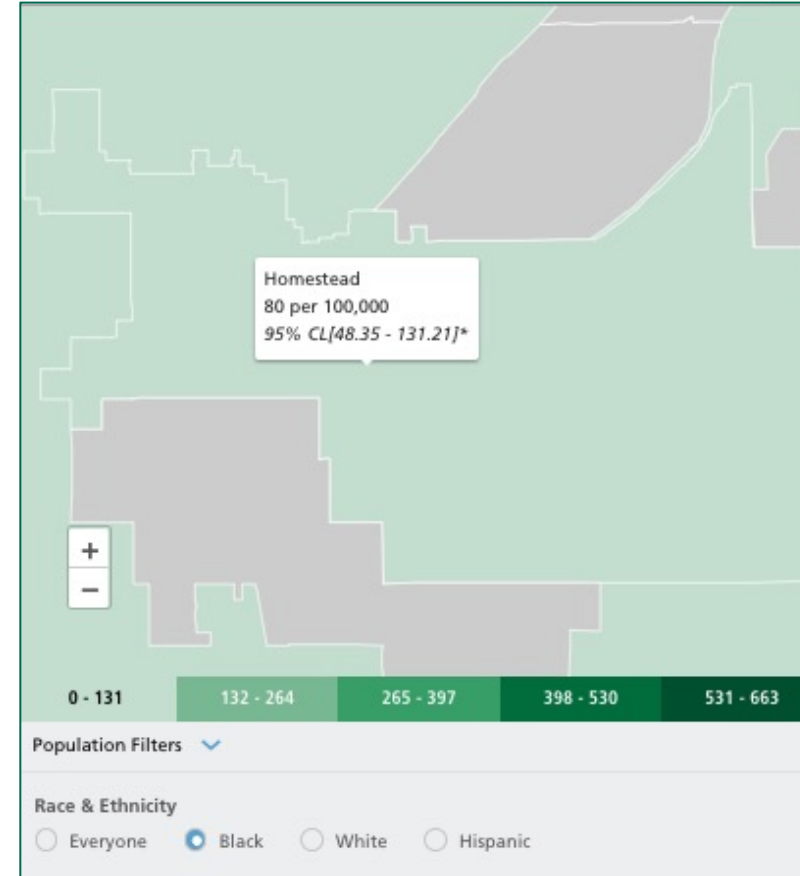


By Race

Colorectal Cancer



White: 74 cases per 100,000



Black: 80 cases per 100,000

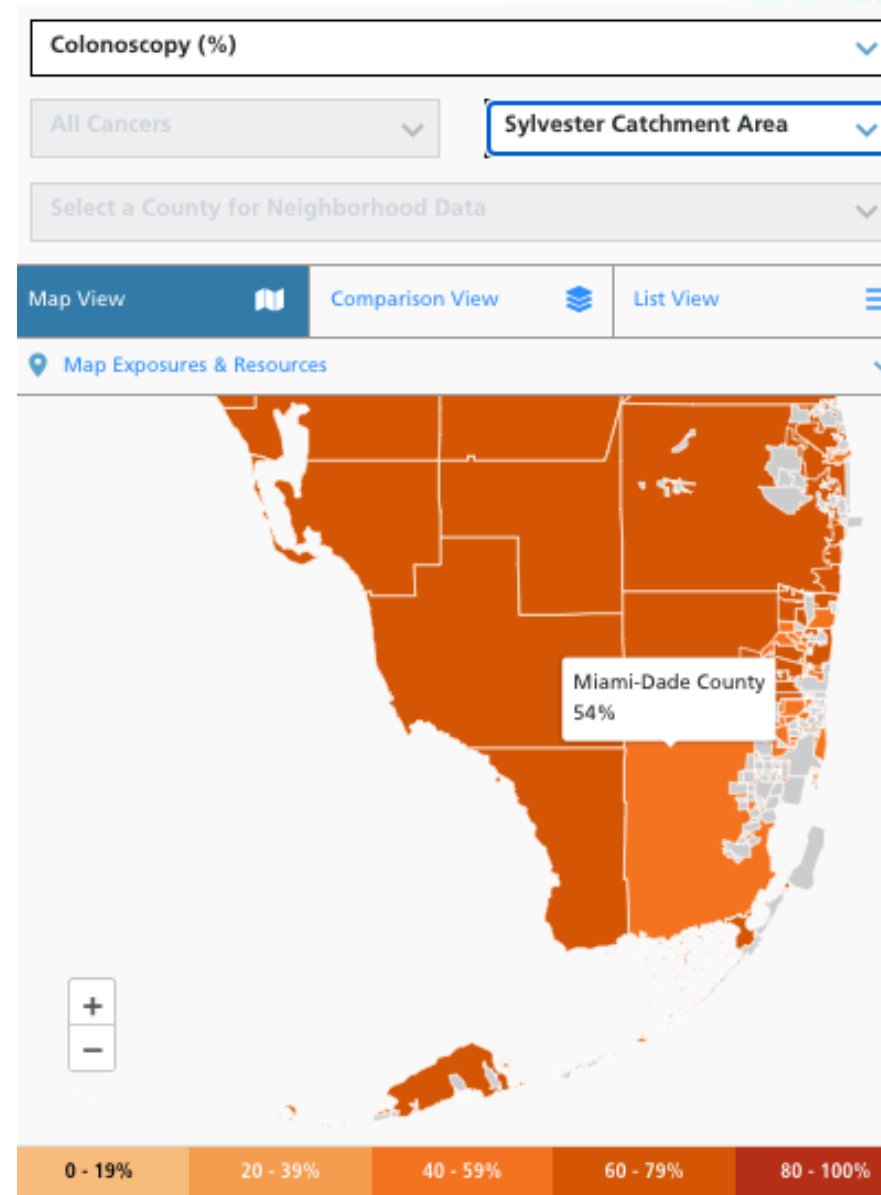
Screening

Homestead

The Healthy People:

(2020; <https://www.healthypeople.gov/2020/data-search/>)

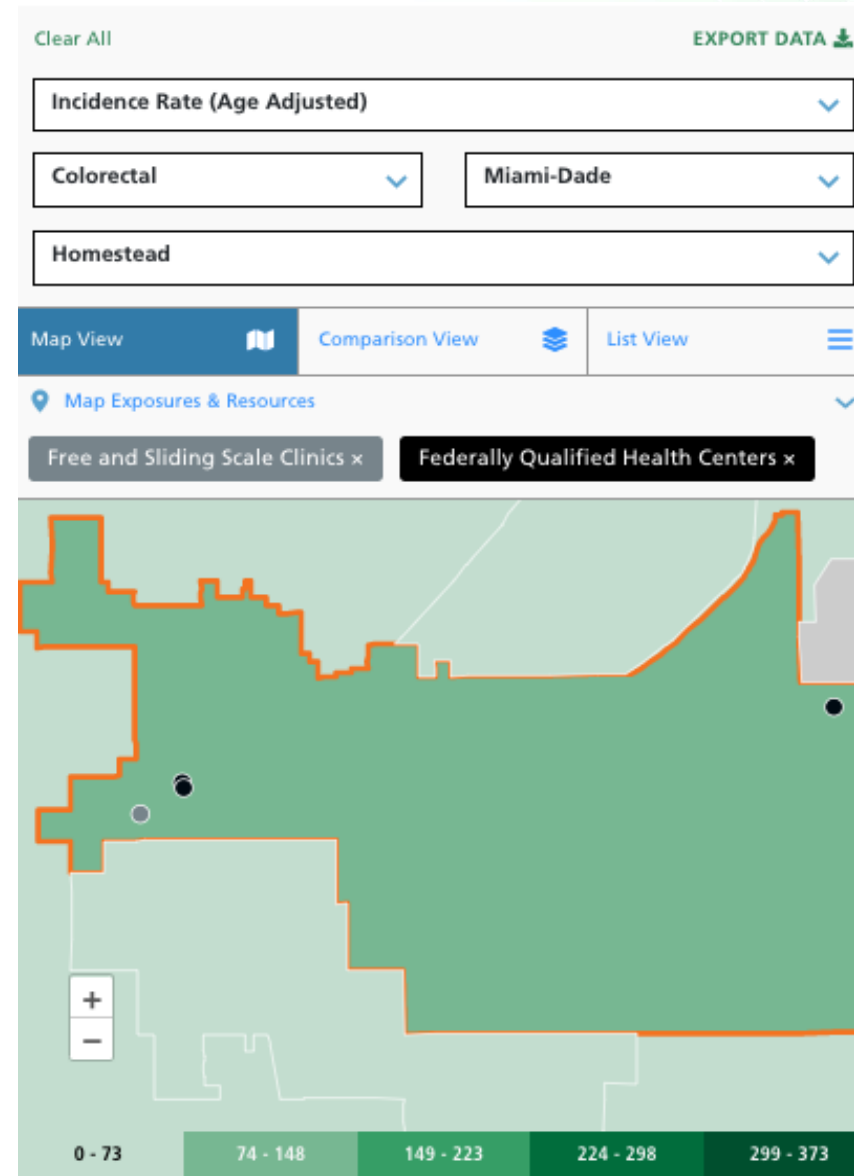
- Baseline colonoscopy screening rate target of 70.5%
- Miami-Dade: 54%



Access to Care

Homestead

- Identify gaps in accessible care
- Highlight underserved areas



Game Changer Vehicles

- ▶ Address the cancer burden in our South Florida community
- ▶ **Sylvester Game Changer Vehicle**
 - ▶ The following services are provided for **FREE**:
 - ▶ Cervical cancer screening
 - ▶ Colorectal cancer screening
 - ▶ Prostate cancer screening
 - ▶ Hepatitis C viral exposure screening
 - ▶ HIV testing
 - ▶ Sexually transmitted infections (STI) screening
 - ▶ In-person counseling and/or referrals for common health concerns
 - ▶ Cancer health education rooted on prevention & early detection



SCAN360 Updates

Rate Calculations

Scan360 package

- Provides functions and population datasets to calculate disease incidence and mortality rates
- Modeled after SEER*Stat Software for age-adjusted rate calculations

SEER population data

- Separate county & tract population dataset files
 - Standard population for age adjustments
 - Stratification by sex, age, race, ethnicity
-
- ✓ SCAN360 rates are now comparable to rates published by NCI/SEER
 - ✓ Increased accuracy; SEER Population datasets provide yearly population estimates

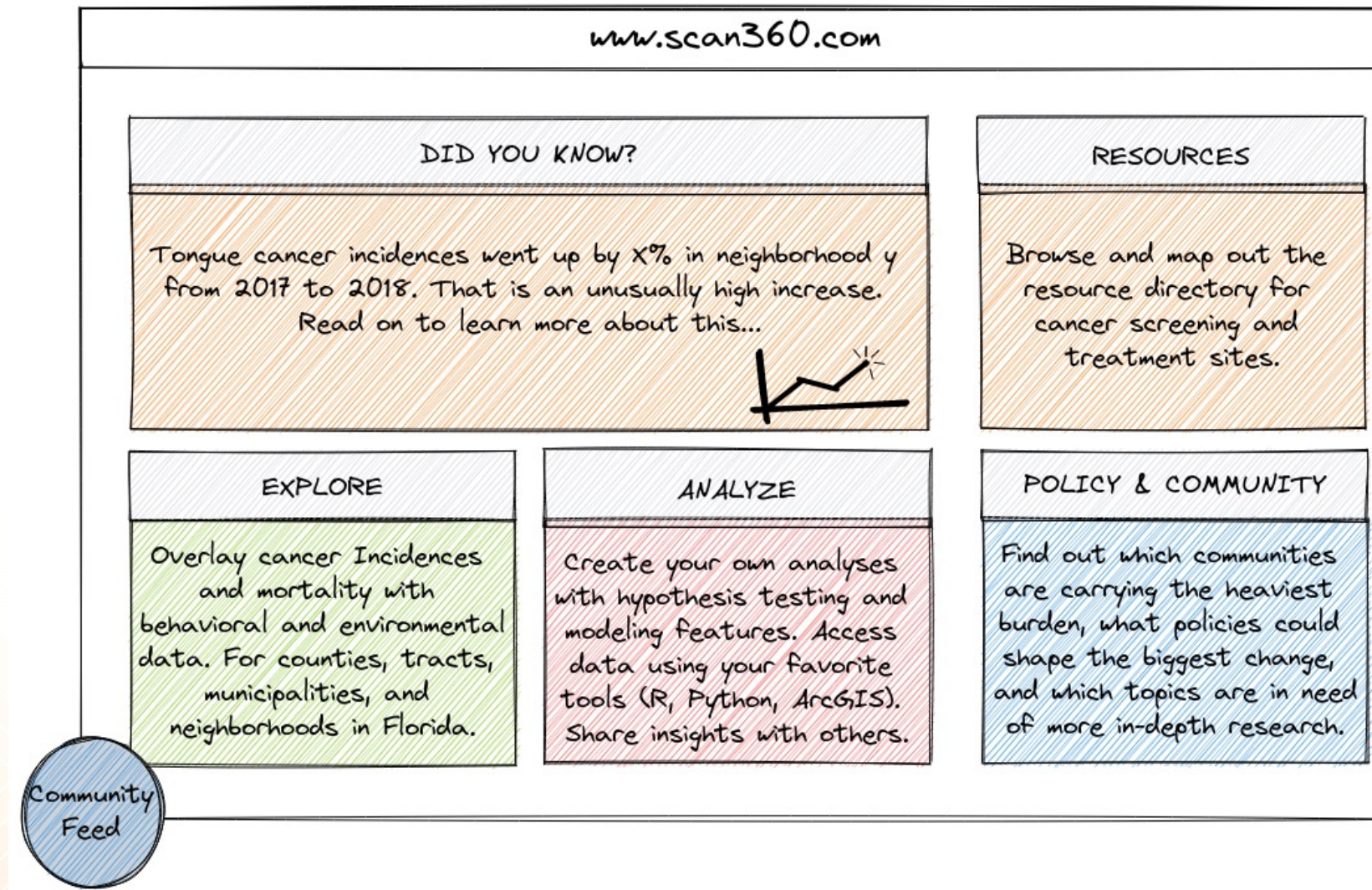
SCAN360 Updates

Aims for Users

Aims/User Groups	General Public	Policy Makers	Researchers	Community Leaders	Practitioners
Modernized UI	✓	✓	✓	✓	✓
Up-to-date data	✓	✓	✓	✓	✓
Historic data		✓	✓	✓	✓
Community Features	✓	✓	✓	✓	
Self-serve data access			✓	(✓)	✓
Analytics platform			✓	(✓)	
Integration with EPIC					✓

SCAN360 Updates

Modern Web UI



SCAN360 Updates

Example: Fact-sheet

Cancer Statistics

Increased Incidence compared to United States

*Incidence/mortality data source: statecancerprofiles.cancer.gov

OVERALL	Cancer Type	Catchment	US	Ratio
	Leukemia	17.8	14.2	1.3
	Cervix	8.9	7.7	1.2
	Oral Cavity & Pharynx	13.7	11.9	1.2
	Non-Hodgkin Lymphoma	21.7	19.1	1.1
BLACK				
	Cervix	12.0	8.7	1.4
	Leukemia	12.6	10.7	1.2
	Melanoma of the Skin	1.2	1.0	1.2
	Non-Hodgkin Lymphoma	16.5	14.2	1.2
	Uterus	31.5	27.6	1.1
HISPANIC				
	Bladder	14.9	10.8	1.4
	Thyroid	18.4	13.7	1.4
	Oral Cavity & Pharynx	9.4	7.2	1.3
	Melanoma of the Skin	6.0	4.7	1.3
	Leukemia	14.6	11.4	1.3

Note: Mortality-rate-ratios and incidence-rate-ratios are comparison measures calculated by dividing the incidence or mortality rate of the SCCC catchment area by the reference population rate (in this case, the reference populations are FL or the US). When an incidence-rate or mortality-rate ratio is greater than 1, this indicates that the catchment area's rate exceeds that of the reference population.

Cancer Statistics

Increased Mortality compared to United States

*Incidence/mortality data source: statecancerprofiles.cancer.gov

OVERALL	Cancer Type	Catchment	US	Ratio
	Cervix	2.5	2.2	1.1
	Stomach	3.1	2.9	1.1
BLACK				
	Non-Hodgkin Lymphoma	4.9	3.9	1.3
	Cervix	3.8	3.2	1.2
	Ovary	6.4	5.7	1.1
	Stomach	5.3	5.0	1.1
	Uterus	9.3	8.8	1.1
HISPANIC				
	Melanoma of the Skin	0.8	0.6	1.3
	Brains & ONs	3.8	3.1	1.2
	Lung & Bronchus	18.4	16.2	1.1
	Bladder	2.6	2.4	1.1
	Leukemia	4.8	4.4	1.1

Note: Mortality-rate-ratios and incidence-rate-ratios are comparison measures calculated by dividing the incidence or mortality rate of the SCCC catchment area by the reference population rate (in this case, the reference populations are FL or the US). When an incidence-rate or mortality-rate ratio is greater than 1, this indicates that the catchment area's rate exceeds that of the reference population.

SCAN360 Updates

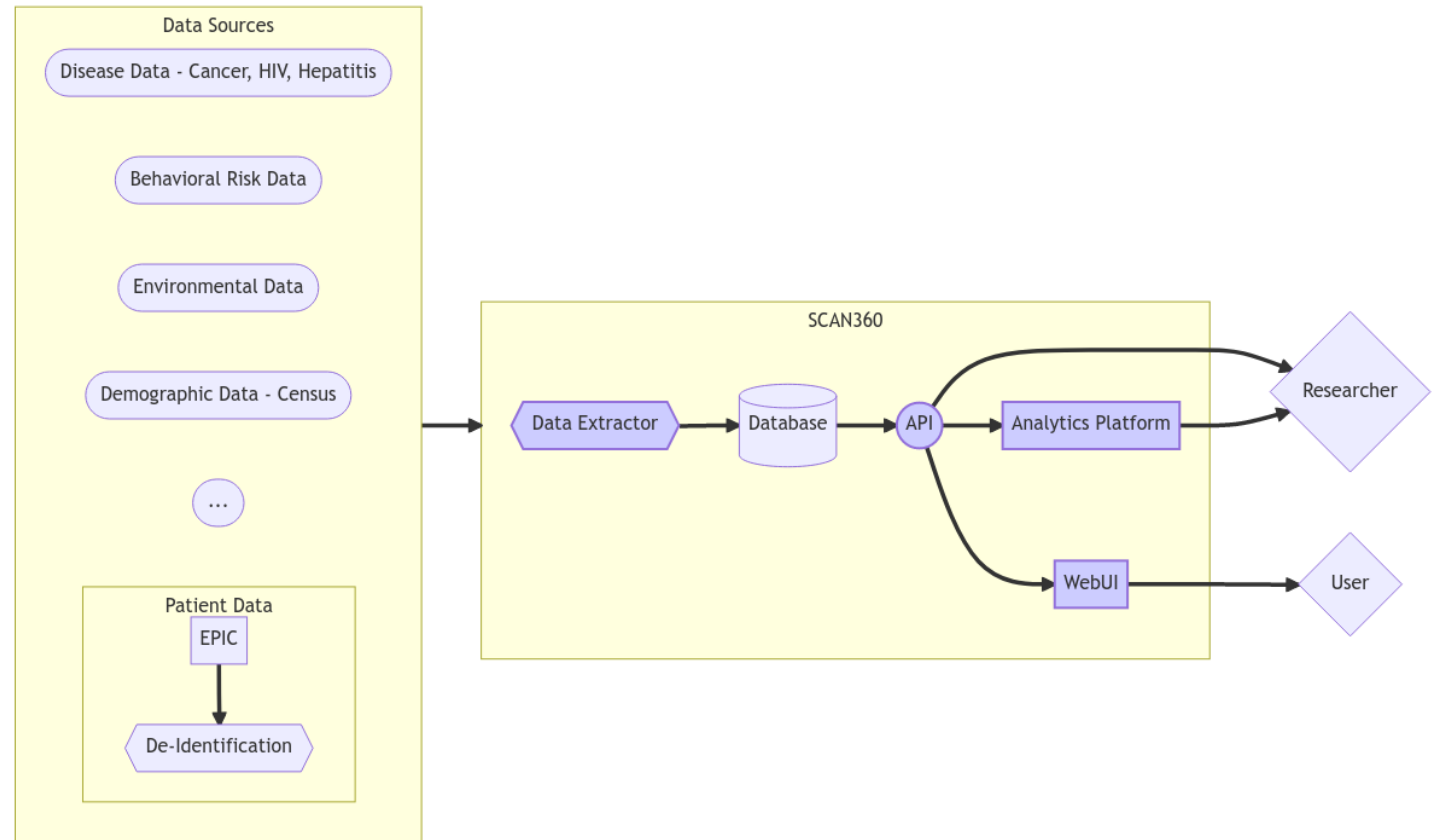
Technology Stack & Data Model

Backend Modules

- Rate Calculations
- Coverage Metrics
- Download Manager

Frontend

- Mobile friendly
- Barrier-free
- Cancer data stories / factsheets
- Neighborhood & SDG profiles
 - ✓ Dynamic comparison tables



Thank You



A Cancer Center Designated by the
National Cancer Institute