



SAVI
Training Curriculum

MODULE 2A

FIND EXISTING DATA

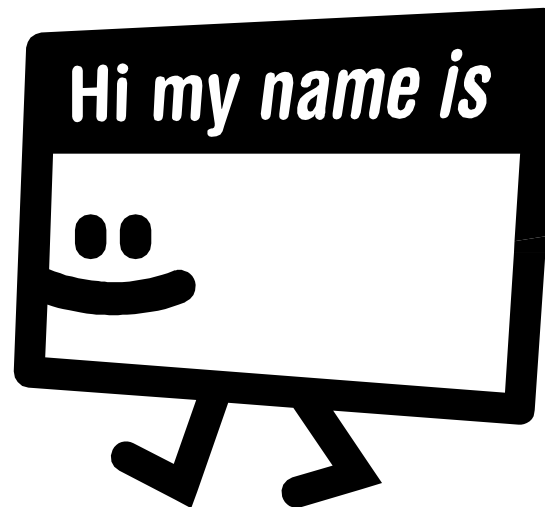
Our Agenda

Introductions, Curriculum Overview	5 min
Module 1A Recap: From Goals to Measurable Questions	5 min
Group Work: Choosing Goals and Measurable Questions	5 min
How to Choose the Right Datasets	30 min
Descriptive Statistics & Metadata	15 min
SAVI Tools Walkthrough	30 min
Group Work: Choosing Your Datasets	30 min

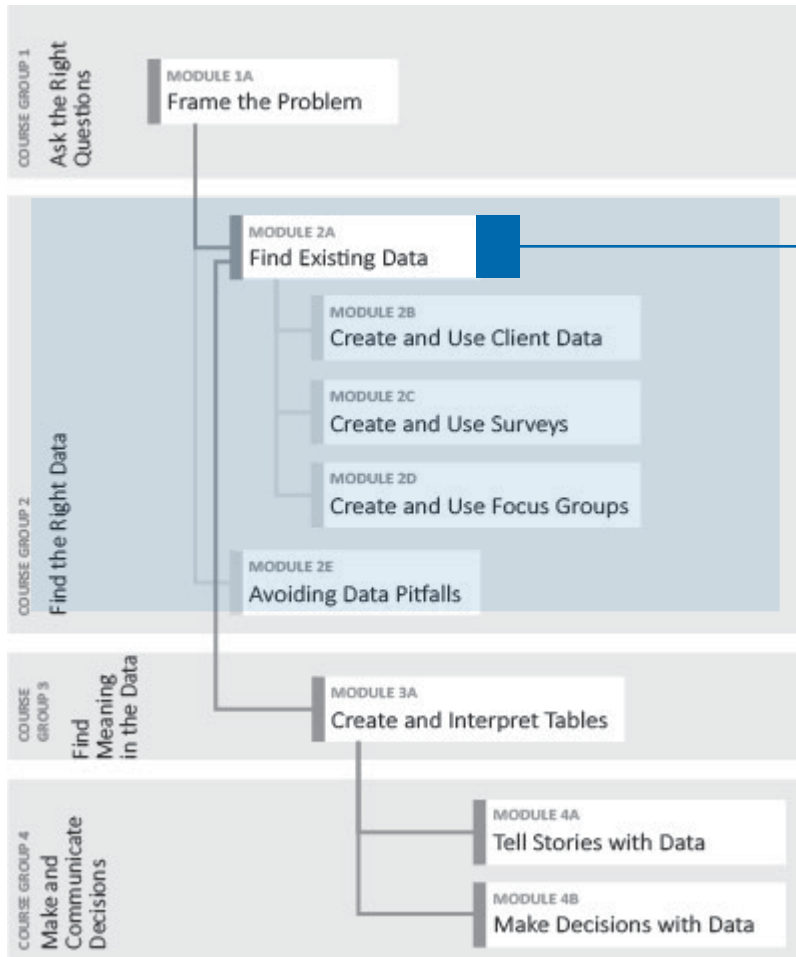


Introductions

Let's share our name, organization, and experience with SAVI.



Where We Are in the Training Curriculum



We are here, learning how to determine which data sources to use.

What We Will Learn

- Discover available data sources
- Balance priorities to choose the right data set
- Find substitute or proxy data





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Module 1A Recap: From Goals to Measurable Questions

Goal	General statement of purpose
Objective	Specific, measurable target that aligns with the goal
Outputs	Direct products of program activities, measured in terms of volume of work accomplished
Outcomes	Benefits or changes for individuals or populations during or after participating in program activities

Source: Measuring Program Outcomes, United Way of America



Group Work

In this module, your group will find data for a measurable question. Use this time to choose your question.

3 groups

**5 minutes to
work**





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How to Choose the Right Datasets



Questions to ask about the dataset

These are some of the questions we should ask about the data prior to selecting a dataset.

Type of Data	Geography	Format	Frequency	Cost
Spatial? Chronological? Categorical?	Is it point data? If not, what geography is the data associated with?	Spreadsheet? Report? Text file? Dashboard?	When is the data from? How often is it updated?	Is the data free? If not, is there a one time fee or do I need to pay a subscription?



Can you think of any other questions we should ask about a dataset?





Spatial Data Types

Information in space can be represented in many different ways.



Point





Spatial Data Types

Information in space can be represented in many different ways.



Point



o
r





Spatial Data Types

Information in space can be represented in many different ways.



Point



o
r



Line



Spatial Data Types

Information in space can be represented in many different ways.



Point



o
r



Line



o
r



Spatial Data Types

Information in space can be represented in many different ways.



Point



o
r



Line



o
r



Polygon

(Normally aggregated
data)



Spatial Data Types

Information in space can be represented in many different ways.



Point



o
r



Line



o
r



Polygon



(Normally aggregated data)





Point Information

Benefits

Challenges



Point Information

Benefits

- Ability to 'see' how information relates spatially
- Ability to measure between one location and another
- A lot of point information is available to SAVI users

Challenges

- Confidentiality issues restrict the amount of information that can be made available in a point format.
- Points imply exact location, but are sometimes not exact





Aggregate Information

Benefits

Challenges



Aggregate Information

Benefits

- Provides access to a much wider array of information than would otherwise be available due to confidentiality issues.
- Helps you see the 'big picture'

Challenges

- Only approximate location
- Difficult to derive precise number from map if not labelled
- It is difficult to identify patterns in small areas (i.e., city blocks or small neighborhoods).





SAVI Aggregations

- SAVI collects point specific and aggregated information. Also, in SAVI multiple point data sources are aggregated into multiple geographies.
- Examples of SAVI reporting areas for aggregate information.
 - Census Tract
 - Census Block Group
 - School District
 - County
- SAVI data processing and aggregations let you easily access data that is confidential or difficult to use in its original form.



Hierarchy of Census Geographies



- States
- Metropolitan Statistical Areas (MSAs)
 - Counties
 - Cities
 - Townships
 - Census Tracts (~4,000 people or 1,500 housing units)
 - Block Groups (~1,500 people or 550 housing units)
 - Blocks (Very small)

For more information about census geographies please refer to the Geographic Areas Reference Manual on the Census website.
(<http://www.census.gov/geo/www/garm.html>)



American Community Survey (ACS)

- The American Community Survey is the US Census Bureau's replacement for long form sample data. Long form data is where we got information related to educational attainment, employment, income, and poverty.
- Differences from long-form data
 - Is conducted on a rolling basis, i.e. it is not tied to the decennial census (is released annually)
 - Data presented as an estimate with a margin-of-error
 - Availability of data is dependent on population of the census geography





Data Tradeoffs

Type of Data

Spatial?
Chronological?
Categorical?

Geography

Is it point data?
If not, what
geography is the
data associated
with?

Format

Spreadsheet?
Report?
Text file?
Dashboard?

Frequency

When is the data
from?
How often is it
updated?

Cost

Is the data
free?
If not, is there
a one time fee
or do I need to
pay a
subscription?





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Descriptive Statistics

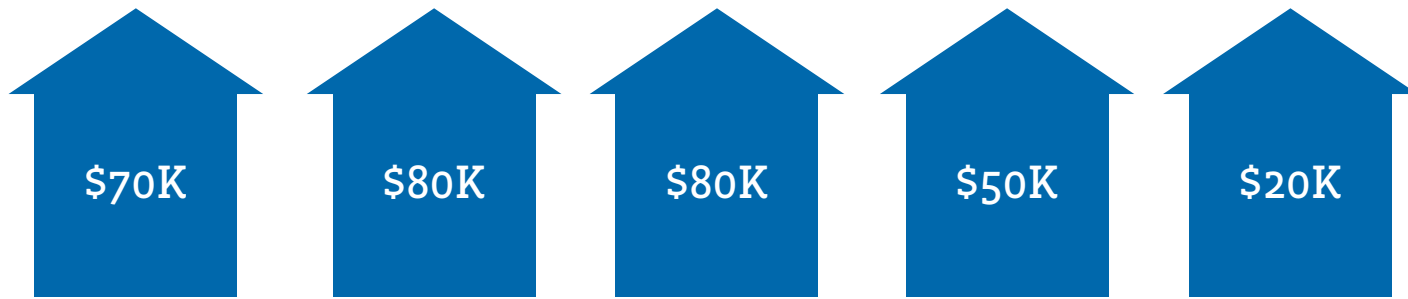
Mean

- The average value



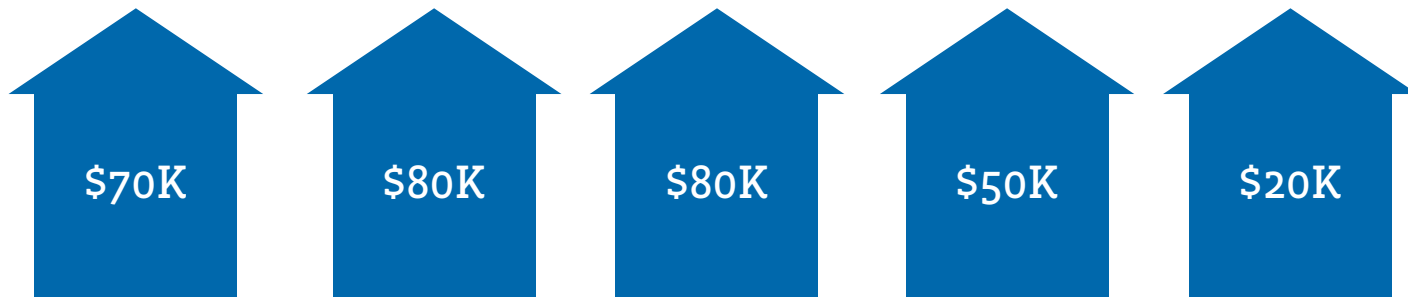


Mean





Mean



$$\text{Mean} = \frac{(70,000 + 80,000 + 80,000 + 50,000 + 20,000)}{5} = \$60,000$$



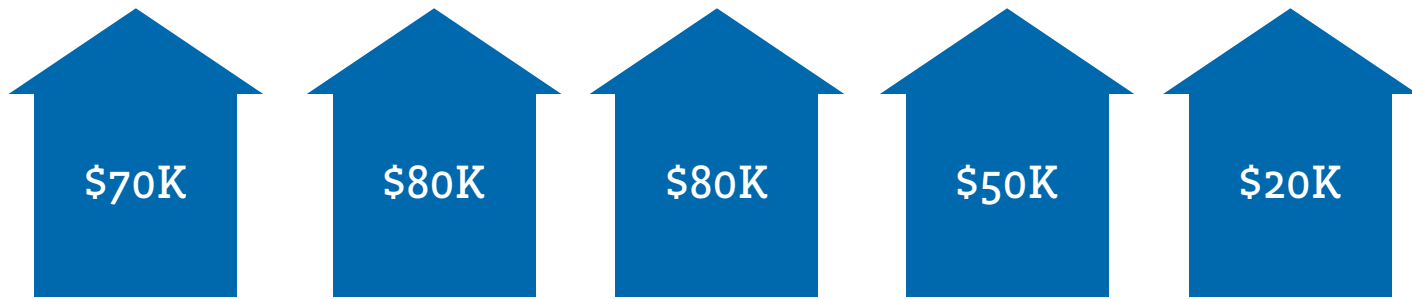
Median

- The middle value





Median





Median

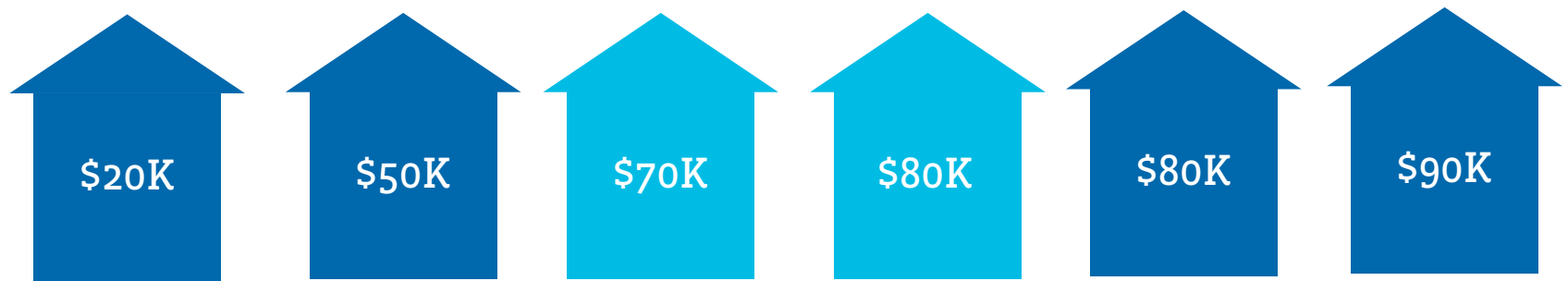


Median = \$70,000





Median



Median = \$75,000



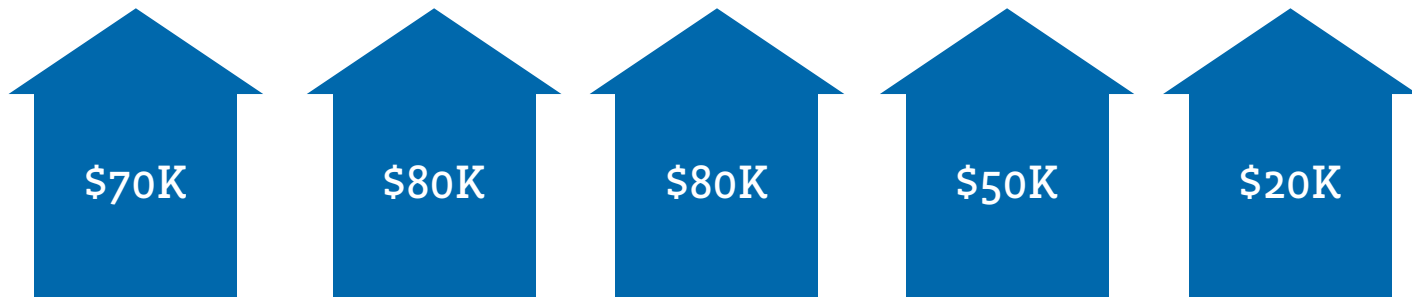
Mode

- The most frequent value





Mode





Mode



Mode = \$80,000





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Metadata



What does data documentation (metadata) provide?

- Source Provider
- Abstract
- Purpose
- Method of Collection
- Assumptions
- Known Limitations
- Collection
- and much more...



**Metadata is VERY
important to the
analyst!**



Where to find SAVI Data Documentation

- SAVI Data Documentation is accessible through the SAVI Tables page:

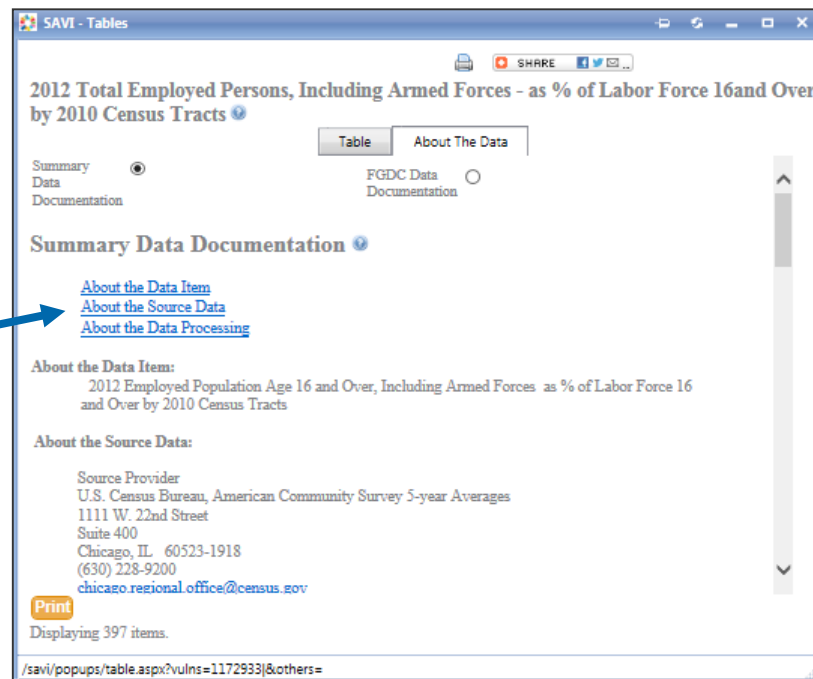
The screenshot shows the SAVI Tables page. The top navigation bar includes links for LATEST, LEARN, SEE, HOW TO, and USE SAVI. Below this is a secondary navigation bar with links for QUICK INFO, COMMUNITY PROFILES, SELECT DATA, MAP, CHARTS, TABLES (highlighted), INDICES, DATA STORIES, and SAVI ADVANCED. The main content area displays a table titled '2012 Total Employed Persons, Including Armed Forces - as % of Labor Force 16 and Over by 2010 Census Tracts'. A callout box with the text 'Click About The Data' points to the 'About The Data' button located above the table. The table has columns for FullID, County, 2010 Census Tract ID, 2012 Total Employed Persons Including Armed Forces as % of Labor Force 16 and Over, and Margin Of Error. The data rows show results for Boone County, 2010 Census Tract 8101.00 and 8102.00.

FullID	County	2010 Census Tract ID	2012 Total Employed Persons Including Armed Forces as % of Labor Force 16 and Over	Margin Of Error- 2012 Total Employed Persons Including Armed Forces as % of Labor Force 16 and Over
18011810100	Boone County	8101.00	96.1%	+/- 3.27
18011810200	Boone County	8102.00	94.7%	+/- 3.98



Where to find SAVI Data Documentation

- The “Summary Data Documentation” choice is selected, and there are three options
- Each option contains different information about the data





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SAVI Tools



SAVI Classic

www.savi.org

- Data: Thousands of indicators
- Geo. Scope: Central Indiana
- Geo. Detail: Nearly all geographies that SAVI processes
- Combine data into custom boundaries: No
- User interaction: Highly customizable, more technical





SAVI Classic - Geographies

SAVI creates data for more than 20 geographies including:

- Blockgroups
- Tracts
- Zip codes
- Community Development Corporations
- Police Jurisdictions
- Indy Neighborhoods
- Health Planning Areas
- Primary Care Service Area
- Townships
- School Corporations
- County
- Metropolitan Statistical Areas
- Indiana State House Districts
- Indiana State Senate Districts





SAVI Classic – Topics

SAVI has indicators on multiple categories:

- Demographics
- Economy
- Education
- Environment
- Health
- Housing
- Public Assistance
- Public Safety
- Sites, Programs, & Agencies
- Transportation & Mobility





IndyVitals

www.indyvitals.org

- Data: 50-60 SAVI indicators
- Geo. Scope: Marion County
- Geo. Detail: Neighborhood areas
- Combine data into custom boundaries: No
- User interaction: Very quick to get data, advanced levels allow more customization, detail



IndyVitals - Topics

- Overall
- Built Environment
- Economy and Jobs
- Education
- Equity and Empowerment
- Health & Safety
- Natural Systems
- Some Assets:
 - Libraries
 - Schools
 - Greenways
 - Parks





Indiana Impact

www.indianaimpact.org

- Data: 50-60 indicators tracking change related to UWCI's core mission: education, financial stability, and health
- Geo. Scope: State of Indiana
- Geo. Detail: Counties, UW Service Areas
- Combine data into custom boundaries: No
- User interaction: Very quick to find data, not as customizable



Indiana Impact - Topics

- Population
- Education
- Income
- Health





Community Assessment Tool

www.assessment.savi.org

- Data: Hundreds of SAVI Indicators
- Geo. Scope: Central Indiana
- Geo. Detail: Counties, townships, tracts, school corps
- Combine data into custom boundaries: Yes
- User interaction: Quick to get data, create customizable report



Community Assessment Tool – Geographies & Tools

Geographies:

- Counties
- Townships
- School Corporations
- 2010 Census Tracts

Topics:

- General Economics and Demographics
- Education
- Health
- Financial Stability
- Basic Needs
- Assets:
 - Basic Needs
 - Education
 - Foundational
 - Health
 - Financial Stability





Community Profiles

<http://profiles.savi.org/>

- Data: 100-200 indicators
- Geo. Scope: Central Indiana
- Geo. Detail: Most geographies SAVI processes
- Combine data into custom boundaries: Yes
- User interaction: Quick to get data, create customizable report





Community Profiles - Geographies & Tools

Geographies:

- 2010 Blockgroups
- 2010 Census Tracts
- Townships
- Counties
- Zip Code Tabulation Areas
- Indy Vitals Neighborhoods
- School Corporations
- GINI Neighborhoods
- Health Planning Areas

Topics:

- Demographics
- Economy
- Education
- Environment
- Equity
- Financial Stability
- Health
- Housing & Neighborhood Development
- Infrastructure & Amenities
- Safety





Topic Profiles

<http://profiles.savi.org/topics>

- Data: 100-200 indicators
- Geo. Scope: Central Indiana
- Geo. Detail: 4-5 geographies
- Combine data into custom boundaries: No
- User interaction: Quick to get data, Indicators combined by topic





Topic Profiles

<http://profiles.savi.org/populations>

- Data: 100-200 indicators
- Geo. Scope: Central Indiana
- Geo. Detail: 4-5 geographies
- Combine data into custom boundaries: No
- User interaction: Quick to get data, Indicators combined by population





Community Profiles - Geographies & Tools

Geographies:

- 2010 Blockgroups
- 2010 Census Tracts
- Townships
- Counties
- Zip Code Tabulation Areas
- Indy Vitals Neighborhoods
- School Corporations
- GINI Neighborhoods
- Health Planning Areas

Topics:

- Demographics
- Economy
- Education
- Environment
- Equity
- Financial Stability
- Health
- Housing & Neighborhood Development
- Infrastructure & Amenities
- Safety



Class Work

Let's explore each group's measurable question in a SAVI tool. We will walk through each example together.

3 groups

**10 minutes
each**



Group Work

Identify which data other sets you could use to answer your measurable questions by using the SAVI data source search tool

3 groups

**15 minutes
to work**

**5 minutes
each to
present**





What's Next?

- Want to learn how to collect and use your own data?
 - Module 2B: Create Your Own Data
 - Module 2C: Use Your Own Data
- Want to learn about how to better assess your data sources?
 - Module 2D: Avoid Data Pitfalls
- Want to learn how to analyze data?
 - Module 3A: Create and Interpret Tables





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Any Questions?