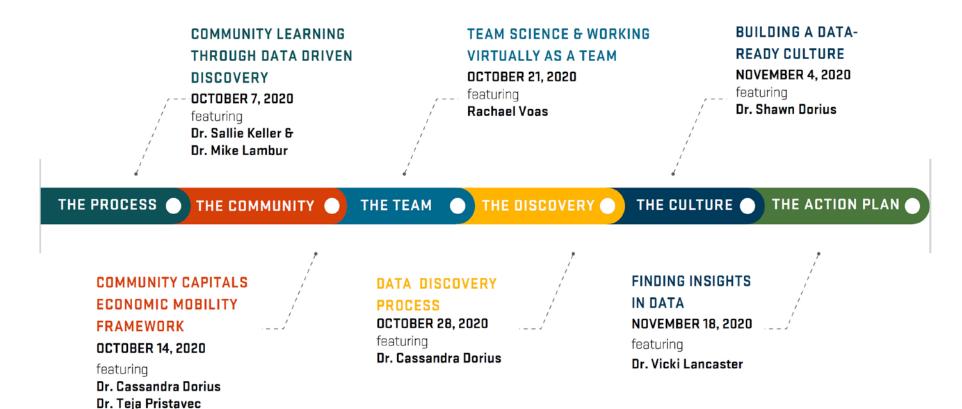


COMMUNITY CATALYST WEBINAR SERIES OVERVIEW











MADE POSSIBLE BY:

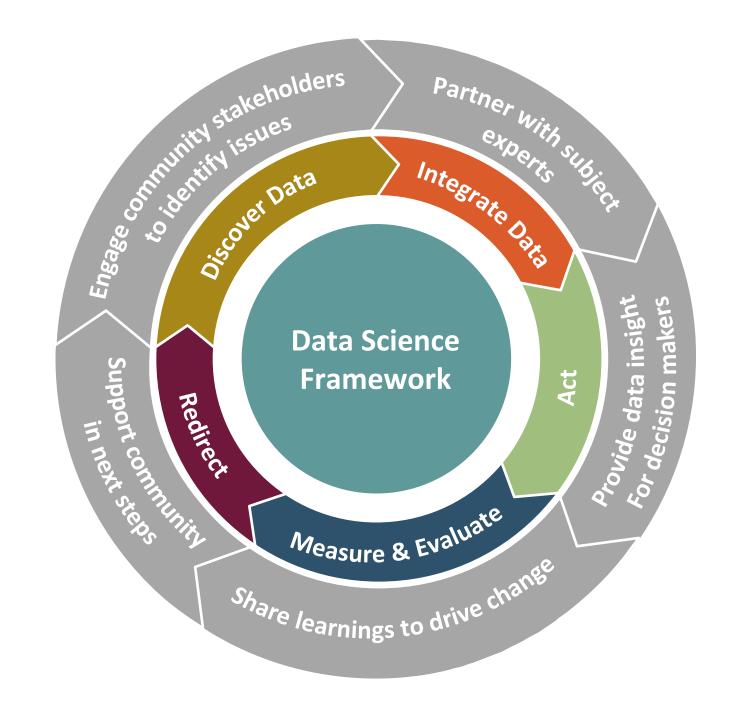




OUR GUIDING PROCESS

Community Learning through Data Driven Discovery (CLD3)

- Outer wheel: continuous interaction and communication across stakeholders
- Middle wheel: data-driven learning process
- Frontier between these two wheels: active collaboration between all partners
- Inner circle: rigorous research framework to guide the data science



TOWARDS A NATIONAL COMMUNITY LEARNING NETWORK

Problem Identification: Questions & Working Hypotheses

Data Discovery [Inventory • Screening • Acquisition]

Data Ingestion & Governance

Data Wrangling

Profiling • Preparation • Linkage • Exploration

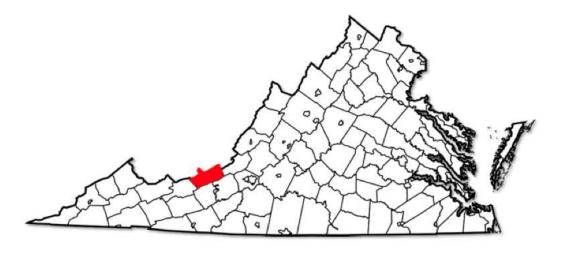
Fitness-for-Use

Statistical Modeling & Analyses









POPULATION: 16,837

SIZE: 360 SQ. MILES

UNEMPLOYMENT RATE: 4.7%

ANNUAL BUDGET: \$53 MILLION

RACE: 95% WHITE*

*WHITE ALONE, NOT HISPANIC OR LATINO

GILES COUNTY, VIRGINIA

ISSUE

 In 2015, Giles County officials realized reactive services make up 61% of the county's operating budget

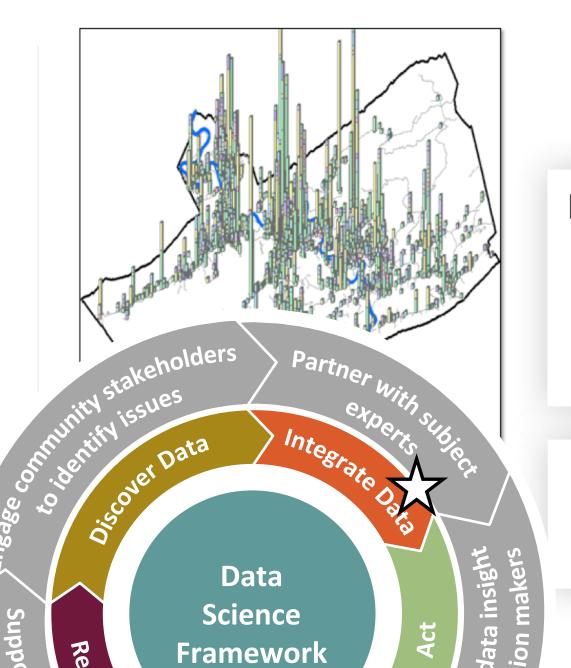
DATA DISCOVERY: WHICH REACTIVE SERVICES ARE BEING UTILIZED?

- General District Court, Circuit Court, Jail
- Community Service, Day Report
- 911 Calls Animal Control, Assaults, B&E, Civil Disturbance, Domestic Problem, Drunk in Public, EMS, Fire, Fight, Larceny, Mental Subject
- Department of Social Services Child Protection, Emergency Removals, Foster Care Placements, Investigations, Relative Placements, Service Cases

TEAM

 Local government, Cooperative Extension professionals, community stakeholders





LINKING SERVICE REQUESTS TO LOCATION

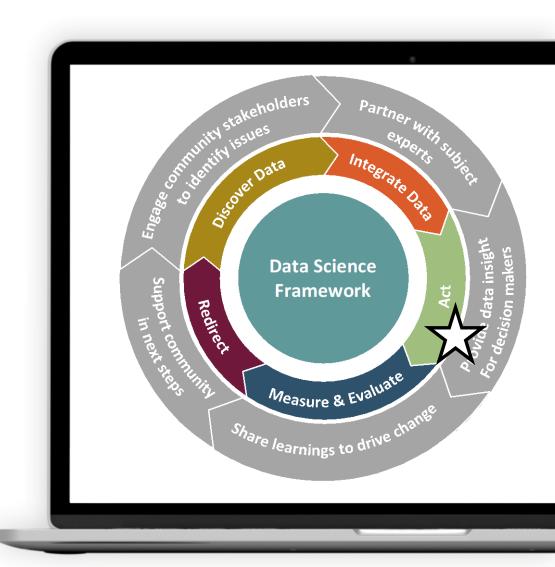
FINDINGS

- •1% of the locations utilized 25% of the services
- •5% of the locations utilized 55% of the funding
- •10% of the locations utilized 71% of funding

GIS locations of the 5,279 reactive service requests in 2014 across the county. Color indicates the service and bar height indicates number of services at that location.

CONSIDERING OPPORTUNITIES: TAKING ACTION

- The map identified clusters
 where positive change could occur
 through more efficient delivery of
 reactive services
- •Cooperative Extension is helping replicate approach in another county in SW Virginia



GILES COUNTY F.O.C.U.S. PROGRAM

"FOCUS ON FAMILIES UTILIZING SERVICES"

GEOGRAPHIC DATA-DRIVEN SERVICE INTERVENTIONS

COUNTY DAY REPORTER CENTER AS AN ALTERNATIVE TO INCARCERATION

31% reduction of recidivism rate

INMATE WORK PROGRAM

 Annual increase of 15,000 hours of community service

TANF WORK PROGRAM

 44% reduction in families on TANF

SUMMER YOUTH WORK PROGRAM

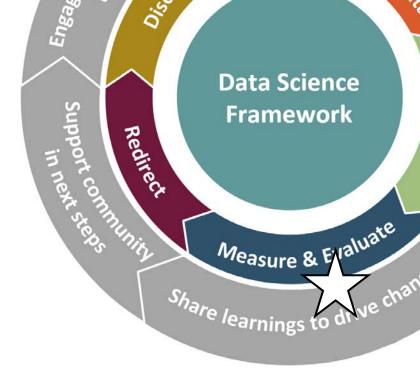
50 students and over 90 local businesses are involved

ENHANCED PRE-KINDERGARTEN EDUCATION

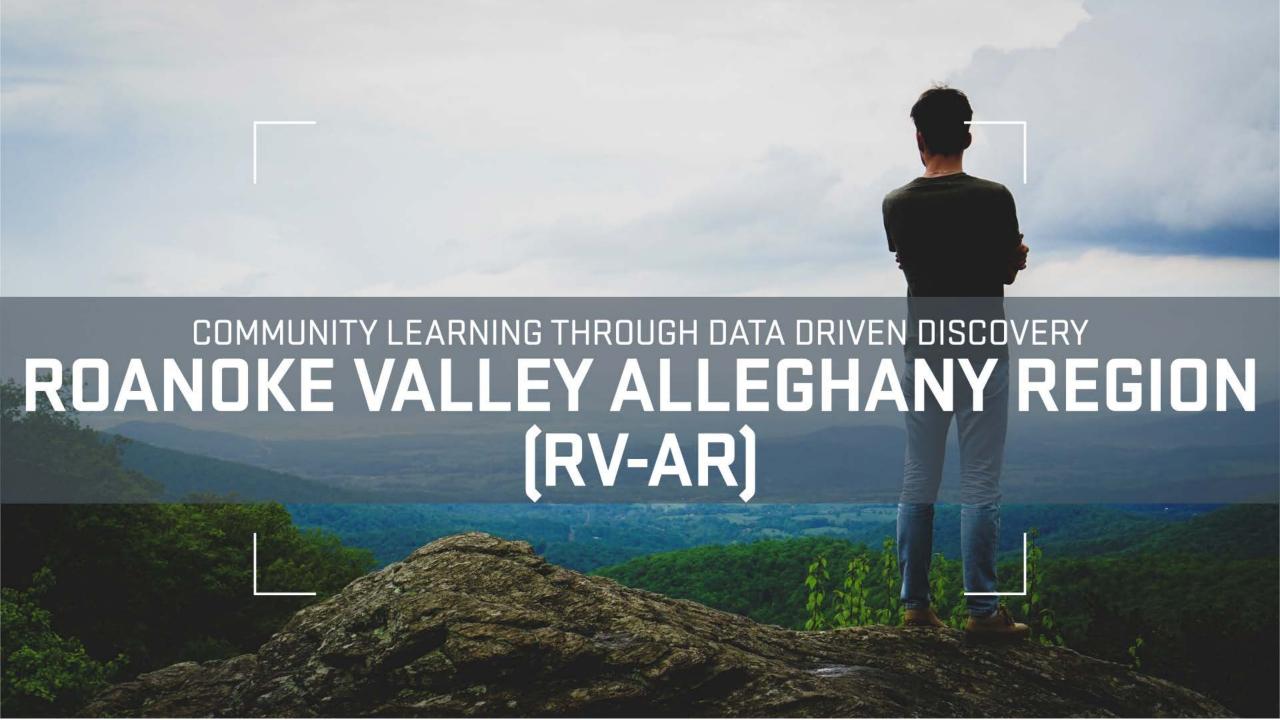
 County continues to add new slots to accommodate more children

ACCESS TO COMMUNITY COLLEGE EDUCATION

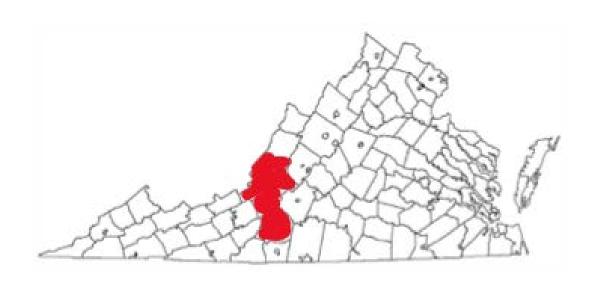
81 new students enrolled



TWO YEARS LATER: THE RESULTS







• **POPULATION:** 334,233

• **SIZE:** 2319 SQ MILES

• **UNEMPLOYMENT RATE:** 2.5%

• RACE: 82% WHITE*

*WHITE ALONE, NOT HISPANIC OR LATINO

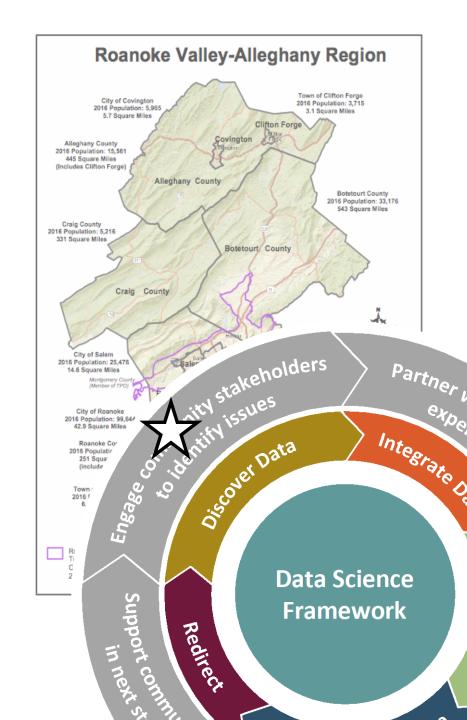
ROANOKE VALLEY-ALLEGHANY (RV-AR) REGION COMMISSION

ISSUE

- Despite being located near many universities, few graduates remain in the region
- RV-AR Commission would also like to attract experienced workers from other areas and retain graduating students and current workers by improving their economic mobility

QUESTION

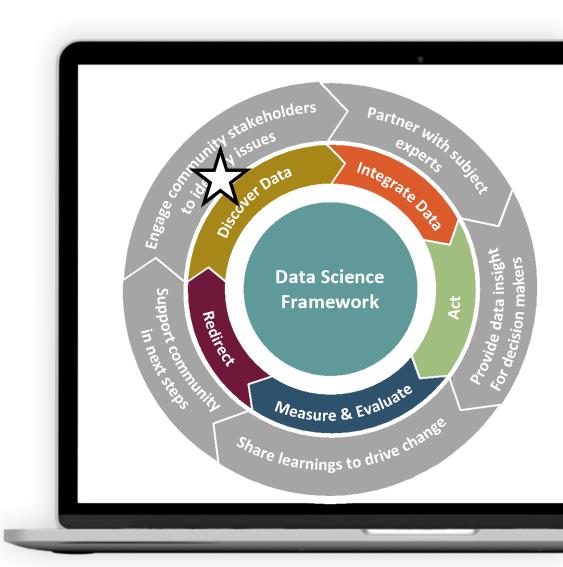
 What are the factors that make an area attractive to workers and families?



RV-AR REGION FRAMING QUESTION

COMMUNITY LEARNING THROUGH DATA DRIVEN DISCOVERY (CLD3)

- Identify insights from other communities
- •Explore with Commission placing question in a data context



WHAT DATA SOURCES MIGHT INFORM THE QUESTION?

INTERNAL LABOR FORCE •



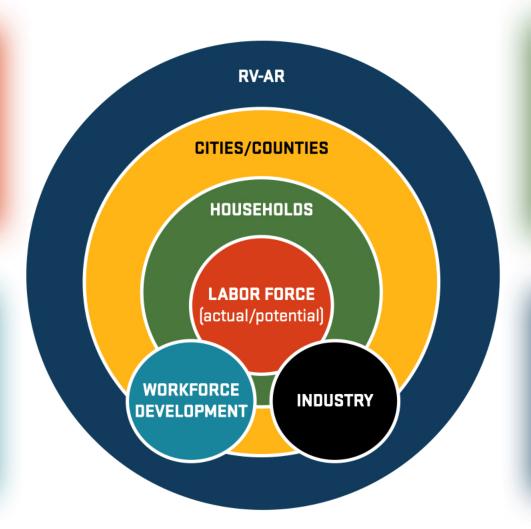


WORKFORCE CHALLENGES

- Drug use
- Prisoner re-entry
- Childcare costs
- Commute times
- Job & skill match

WORKFORCE TRAINING

- Certifications
- High school workers
- Company engagement with schools
- Job quotient



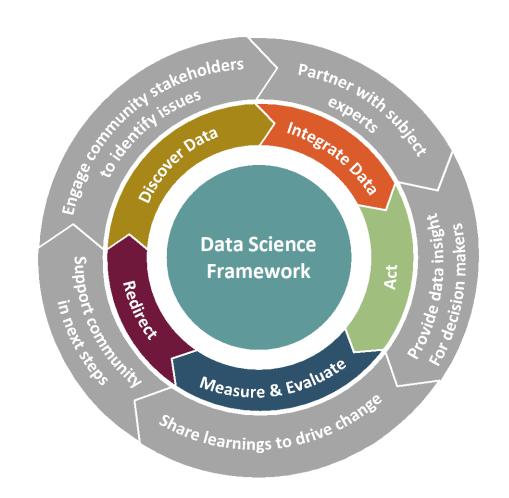
COMMUNITY METRICS

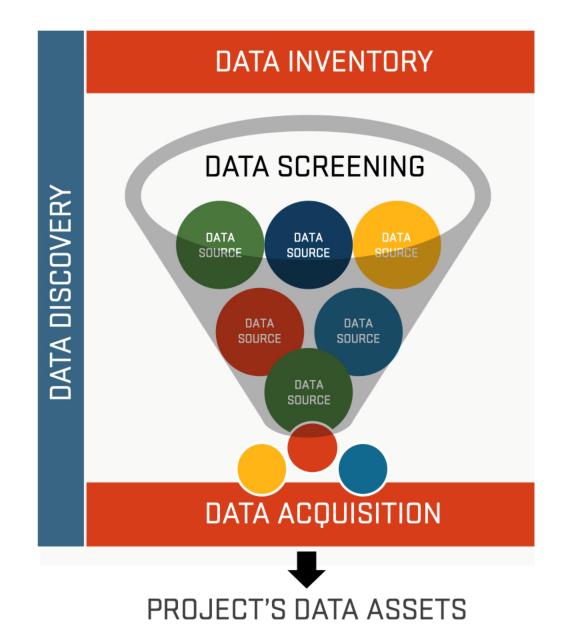
- Park access
- · Walkability score
- Housing age & affordability (owned & rented)
- Cultural base
- Primary education ratings

TRANSPORTATION

- Commute times
- % Car ownership
- % Walking, biking, public transit

MOVING FORWARD





RV-AR REGION DATA DISCOVERY

HS GRADUATION RATE [2]

2012: 91% 2017: 92.1%

CHANGE: +1%

TOP 5 EMPLOYERS (4)

- 1. Roanoke Memorial Hospital
- 2. Roanoke County School Board
- 3. U.S. Dept. of Veteran Affairs
- 4. Kroger
- 5. HCA Virginia Health System

PERCENT DESIGNATED AS FOOD INSECURE (1)

2010: 10.8% 2016: 11.0%

CHANGE: +1.8%

ACCESS TO PARKS [5]

2010: 24.8% 2015: 51.3%

CHANGE: +107.2%

PERCENT UNEMPLOYMENT [4]

2010: 8.01% 2017: 4.3%

CHANGE:-46.0%

POPULATION [1]

2010: 330,749

2017: 334,781

CHANGE: +1.2%

OBESITY RATE (6)

2010: 28.9% 2014: 28.7%

CHANGE: -0.5%

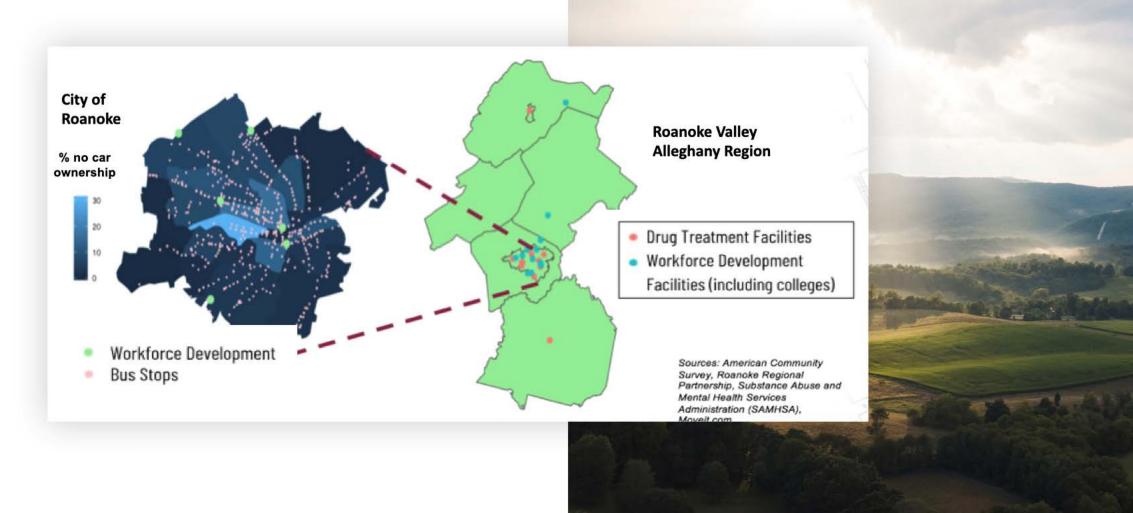
MEDIAN INCOME (1)

2010: \$48,087 2016: \$47,855

CHANGE: -0.5%

THE PART OF THE PA

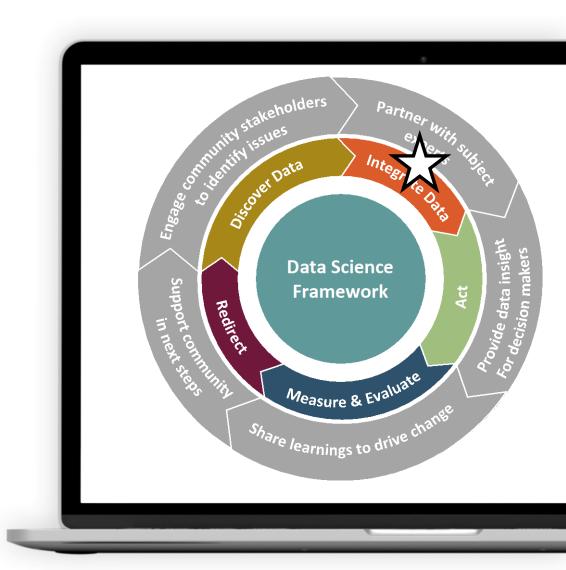
DATA DISCOVERY: MAPPING ACCESS



FORMULATING DATA INSIGHTS

COMMUNITY LEARNING THROUGH DATA DRIVEN DISCOVERY (CLD3)

- •Explore with commission useful metrics
- Integrate important data/information



ATTRACTIVENESS COMPOSITE INDICATOR

TRANSPORTATION

- Commute Times (% < 1 hour)
- Vehicle Ownership (% own a vehicle)
- Public Transportation (% public transit is primary means to work)

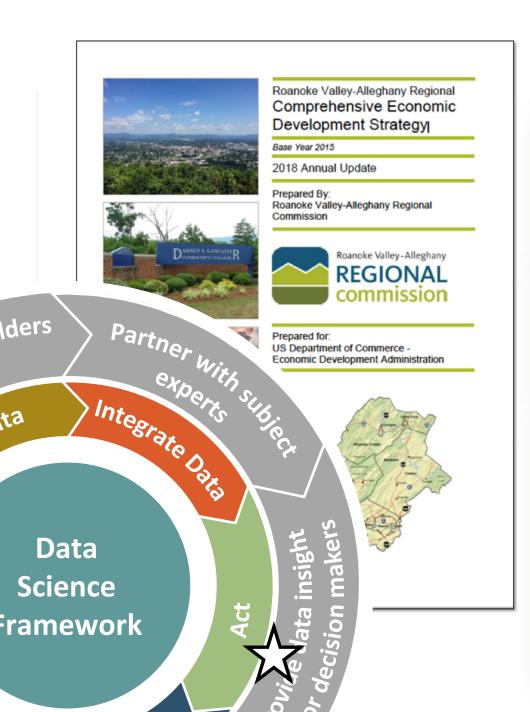
HOUSING

- Size of Home (% 3+ bedrooms)
- Type of Home (% apartments/single family homes)
- Age of Home (% built after 1990)

COMMUNITY

- Resident Type (% renters / owners)
- Family Presence (% singles / families)
- Diversity (% non-white)
- Employment (% employed)
- Active Post-Secondary (% enrolled in college)





POLICY ACTIONS

TRANSPORTATION

 Development of a Regional Transit Vision and Demand Management Plan

HOUSING

Develop plan to rehabilitate housing

COMMUNITY

- Involvement in planning
- Increasing workforce credential opportunities at community colleges
- Recruit businesses to the area and encourage entrepreneurship
- Continue expansion of outdoor greenways



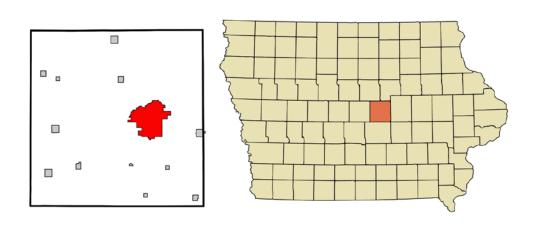


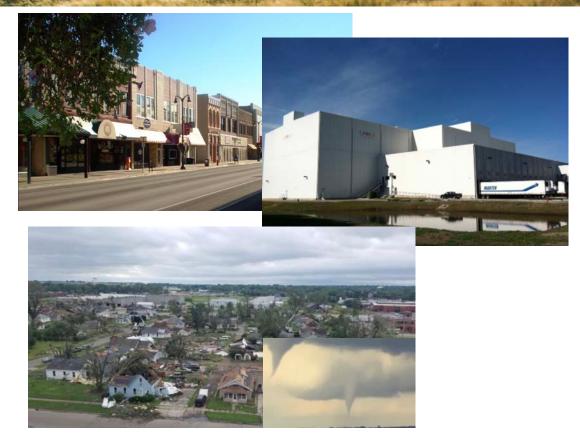
POPULATION: 27,275

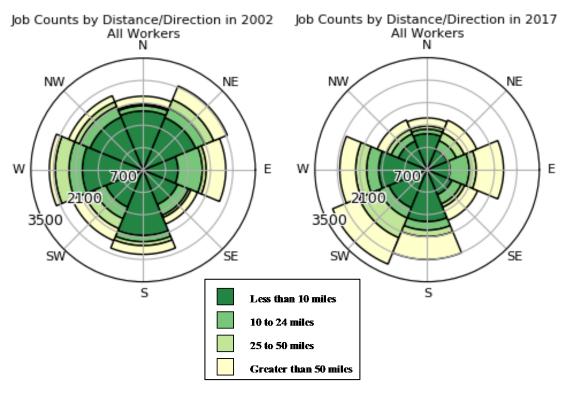
SIZE: 19.28 SQ MILES

RACE: 60.9% WHITE*

* WHITE ALONE, NOT HISPANIC OR LATINO





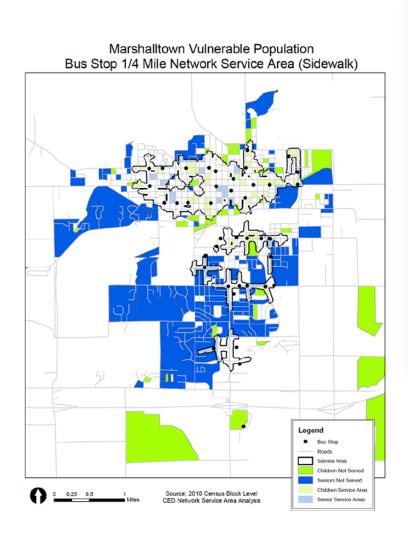


Data Source	2000 Census	2010 Census	2014-2018 ACS
Total Population	26,023	27,552	27,275
Percentage Hispanic	12.6	24.1	29.9

Of the 29.85% Hispanic residents (ACS 2014/18): 43.44% were 18 years of age or younger

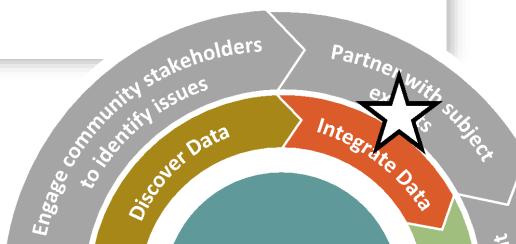


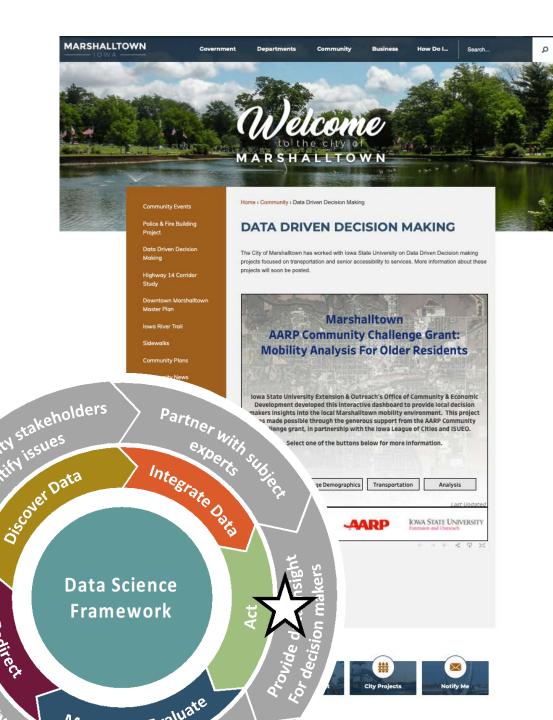
LINKING TRANSPORTATION ROUTES TO INFORMATION ON VULNERABLE POPULATIONS



FINDINGS

Local transportation systems are crucial to mobility, commerce, public safety, quality of life, community vitality, and economic development. Using mapping techniques, neighborhoods were identified that were in greater need of bus routes. In particular, elderly and minority citizens were being underserved.





ACTIONS TAKEN

AARP Community Challenge Grant with Iowa League of Cities. CED took action!

Additional Funds to Support Public Access to Data Resources

A new DSPG Data-Driven Dashboard provided Marshalltown citizens up-to-date information about their town.

Supports the work of the city council and other local government.

AWARD WINNING PROJECT

The map identified locations where new bus routes could provide improve transportation access to vulnerable groups. Marshalltown took action!





At the conclusion of the CLD3 project, Kevin Pigors, Marshalltown Municipal Transit Administrator and his team (right) received the <u>Federal Transit Authority</u>

<u>Award of Excellence</u> and the <u>Iowa Transit Authority</u>

<u>Award of Excellence</u> for highest percentage increase in ridership among rural transit providers (11% or 9,825 riders).



DON'T FORGET TO JOIN US NEXT TIME!

COMMUNITY CAPITALS
ECONOMIC MOBILITY
FRAMEWORK

OCTOBER 14, 2020

featuring

Dr. Cassandra Dorius

Dr. Teja Pristavec

+ ENCOURAGE COLLEAGUES
TO ATTEND:

Register online:

workspace.oregonstate.edu/catalyst