

## Climate Justice Working Group Meeting

### **Meeting Procedures**

- Meeting rooms will be muted to reduce noise
- Working Group members should raise their hand to indicate they would like to speak
- Please state your name before speaking for recording purposes
- Remote participants should be on video with name visible per Open Meetings Law





Agenda

### **Agenda**

- 1. Roll Call
- 2. Approve minutes from previous meetings
- 3. Recap of last meeting
- 4. Update on public input
- 5. Landfill indicator update
- 6. DAC Review
- 7. Next Steps







## **Approval of Minutes**



## Disadvantaged Communities Criteria Review



### This meeting we'll talk about

- Public feedback received on DAC criteria
- Updated landfill methodology
- Urban/rural differences and methodology
- Deliberation on additional indicators recommended
- Accessibility of maps



# Summary of Public Feedback



### Snapshot of public feedback

### Responses discussed:

- Data Transparency
- Map Use/Access
- Proximity to DACs
- Race
- Infrastructure Siting
- Land Use
- Immigration
- Community Engagement
- Rural Issues
- Low Income Communities
- Low Population Communities

- Proximity to Resources
- Food Deserts
- Broadband Access
- Landfills
- Proximity to Hazardous Sites
- Air Quality
- Match Considerations for Grant Opportunities
- Connectivity
- Remoteness
- Inconsistencies with lived

### experiences

- Impaired Water Quality
- Representation on the CJWG
- Coastal Flooding
- Climate Vulnerabilities
- Gentrification
  - Population Change



### **Major themes**

- Urban/Rural Dichotomy
  - Several commenters stated that the current DAC criteria fails to capture lived experiences in rural communities
- Transparency and Accountability
  - Issues accessing and using DAC maps
  - Issues understanding how the DAC maps are developed
- Indicators and Burden Attribution
  - Several comments question the relevancy or application of certain indicators, suggested the addition or modification of indicators, or proposed different methods to describe burdens to communities

### **Suggested Indicators**

#### Financial burdens

- Eviction rates
- · Payday loans
- · Predatory financial institutions

### Migration

- Gentrification
- · Net loss of people
- Net migration

#### Community resources/services

- Frequency/health of social institutions such as public libraries
- Lack of community resources (grocery stores, community centers, childcare center, etc.)
- · Lack of public transportation

#### Land/property

- Acceleration of property buying/sale
- Land banks/trusts

#### Water

- · Access to water quality testing
- List of Impaired/TMDL Water
- · Percent septic systems

#### Other

- · Amish/Mennonite populations
- Program opportunity notice (PONs) investments
- Urban sprawl/green infrastructure



## **Suggested Method Changes**

- Urban/rural dichotomy
  - Rural communities should be considered differently than urban communities because they experience different issues related to the environment/climate change
- Various suggestions on considering adjacent-to-DAC communities as DACs
- Census veracity, e.g., tract boundaries not reflective of lived experience



### **Public Feedback: Questions**

Any Questions?

<sup>\*</sup>CJWG members are also invited to reach out with additional questions

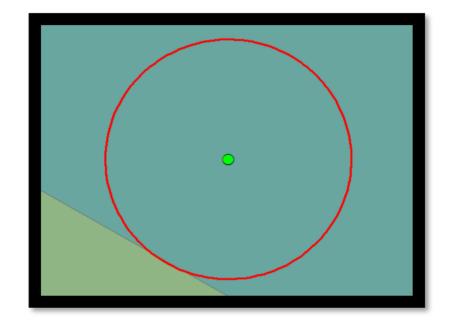


# Reviewing the Landfill Indicator



### **Landfills Version 1**

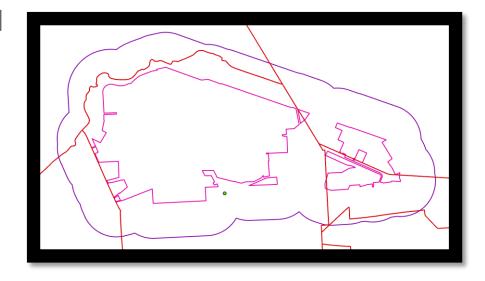
- The DAC Map v.1 mapped landfills as a single point and calculated a 500m proximity area around that point.
- This method does not fully capture the size or impact of landfills on surrounding communities.





### **Landfills Version 2**

- DEC used satellite imagery and tax parcel data to map all 50 landfills in the state and the amount of each landfill's proximity area that occurs in the 2020 census tracts
- The map can be provided to CJWG members for review upon request





### **Landfills: Questions**

Any Questions?

<sup>\*</sup>CJWG members are also invited to reach out with additional questions



### It's been a minute

Recap of DAC Criteria and Annual Review Process



## Goals for this meeting

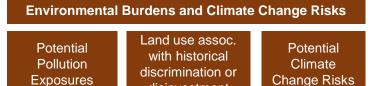
- Understanding of changes to census tracts and data
- Understanding of scenarios with new indicators (diabetes, airport proximity, or others)
- Discussion on what to research for new indicators or data sources
- Plan for working group priorities for following meetings

BUT first we recap!



# 1 Indicators: Framework

The Geographic DAC scoring approach uses data from national and state sources to create 45 indicators in the following categories. For each indicator the percentile-rank of each census tract is used in scoring.



20 Indicators in this component

disinvestment



25 Indicators in this component





## **Environmental Burdens and Climate Change Risks: Indicators (20)**

#### Potential Pollution Exposures

- Vehicle traffic density
- · Diesel truck and bus traffic
- Particulate Matter (PM2.5)
- Benzene concentration
- Wastewater discharge

### Land use and facilities associated with historical discrimination or disinvestment

- Remediation sites (e.g., NPL Superfund or State Superfund/Class II sites)
- Regulated Management Plan (chemical) sites
- Major oil storage facilities (incl. airports)
- Power generation facilities
- Active landfills
- Municipal waste combustors
- Scrap metal processors
- Industrial/manufacturing/mining land use (zoning)
- Housing vacancy rate

#### Potential Climate Change Risks

- Extreme heat projections (>90° days in 2050)
- Flooding in coastal and tidally influenced areas (projected)
- Flooding in inland areas (projected)
- Low vegetative cover
- Agricultural land
- Driving time to hospitals or urgent/critical care

This factor has 2x weight





## Population Characteristics and Health Vulnerabilities: Indicators (25)

### Income, Education & Employment

- Pct <80% Area Median Income
- Pct <100% of Federal Poverty Line
- Pct without bachelor's degree
- Unemployment rate
- Pct single-parent households

### Race, Ethnicity & Language

- Pct Latino/a or Hispanic
- Pct Black or African American
- Pct Asian
- Pct Native American or Indigenous
- · Limited English proficiency
- · Historical redlining score

### Health Impacts & Sensitivities

- · Asthma ED visits
- COPD ED visits
- Heart attack (MI) hospitalization
- Premature deaths
- Low birthweight
- · Pct without health insurance
- · Pct with disabilities
- Pct adults age 65+

### Housing, Energy, Communications

- Pct renter-occupied homes
- Housing cost burden (rental costs)
- Energy poverty / cost burden
- Manufactured homes
- Homes built before 1960
- Pct without internet (home or cellular)

Within this factor, both income metrics have 2x weight

Within this factor, Pct Latino/a and Pct Black have 2x weight





### **Scoring Approach: Overview**

Score census tracts **relative to each other**:

- (a) Percentile ranks of all indicators (e.g., relative index from 0-100)
- (b) Multi-step scoring approach (weighted averages of (1) indicators within factors, then (2) factors within components)
- (c) Add Environmental/Climate component by Population/Health component to get overall score

This results in an overall score that serves as a \*relative ranking\*

The overall score can be used to determine each tract's relative score statewide or regionally.





### **Scoring Approach: Multi-Step Process**

Estimate factor scores as weighted averages of indicator percentile ranks (step 1), then estimate component scores as weighted average of percentile scores.



Factor scores are weighted and added before adding:

Climate Risks are given double weight within Component to equalize the combined weights of Environmental factors (Pollution Exposures + Land Use) with Climate.



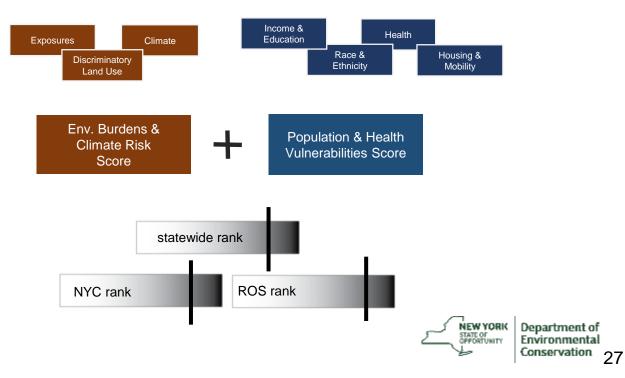


## **Scoring Approach: Combining Data**

Group Indicators into Factors (factor scores are weighted average of indicator percentiles)

Combine Factors into **Component** Scores (also weighted averages)

Add components to generate an overall score (used to calculate a relative ranking statewide and regionally)

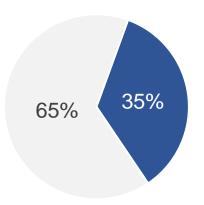




### **Designation: Include 35% of Tracts**

CJWG considered including 35% of census tracts in New York as Geographic Disadvantaged Communities

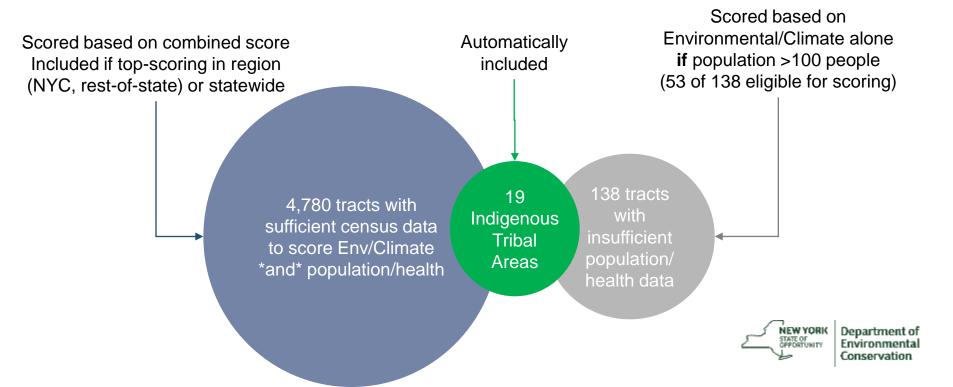
1,736 of New York's 4,918 census tracts identified as Geographic DACs.



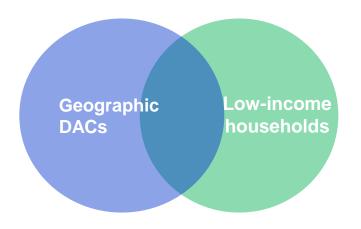


## Designation: Overview of Approach

Bubbles are not sized to scale.



## 4 Individual Criteria



Include low-income households located anywhere in the State in the Disadvantaged Communities criteria **for the purpose of** investing or directing clean energy programs, projects or investments (i.e., only for purposes of ECL 75-0117).



## 5 Individual Criteria

**Poverty:** Annual household income at or below 100% of Federal Poverty Level

**Low income:** Annual household income at or below 60% State Median Income (SMI), or categorical eligibility with other low-income programs

Selected to (a) align with publicly-administered programs, (b) minimize additional income documentation and screening (SNAP, SSI, Temporary Assistance), (c) and start at low-income threshold, which can be reassessed after 1 year

**Moderate income**: Annual household income above 60% of SMI, but lower than 80% of Area Median Income (and sometimes 80% state median income)



# Moving to 2020 census tracts



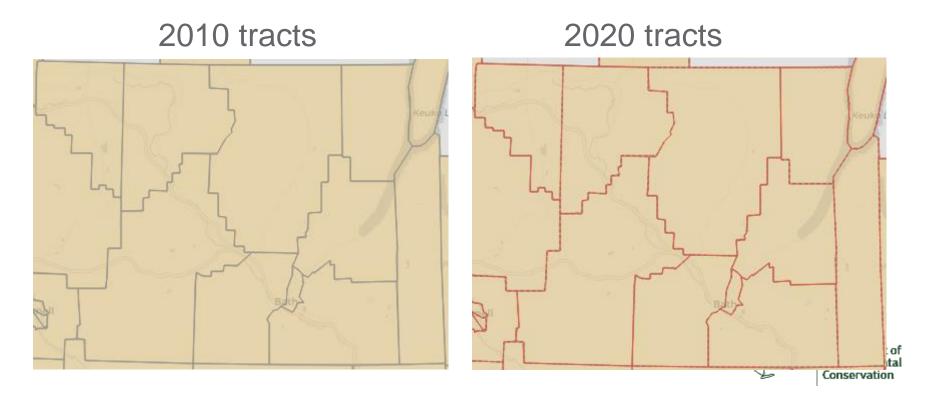
### **Data Updates – Census Tract Transition**

Region	2010 Tracts*	2020 Tracts	Net	%
Capital Region	282	326	44	16%
Central NY	218	244	26	12%
Finger Lakes	308	358	50	16%
Long Island	607	671	64	11%
Mid-Hudson	536	600	64	12%
Mohawk Valley	149	158	9	6%
New York City	2,167	2,327	160	7%
North Country	111	134	23	21%
Southern Tier	171	189	18	11%
Western NY	369	404	35	9%
TOTAL TRACTS	4,918	5,411	493	10%

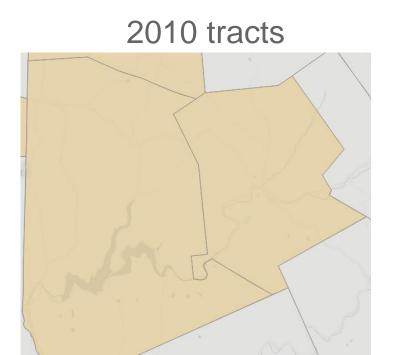


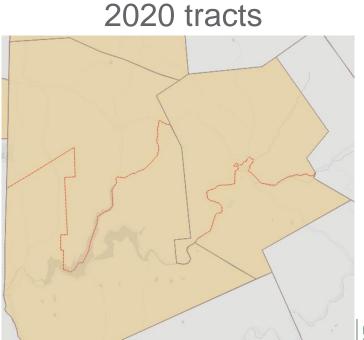
<sup>\*</sup>Counts are based on 2019 data using the 2010 tracts as a foundation

## **Same Tracts (Most Cases)**



### **New Tracts (Lots of Cases)**

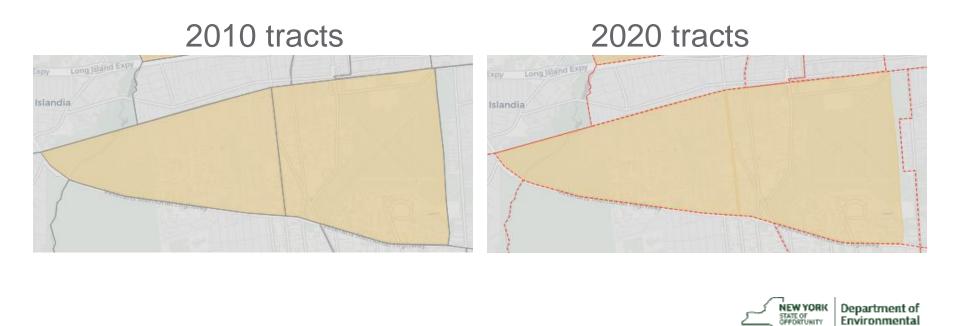




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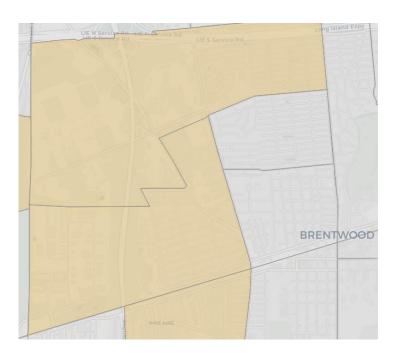
Conservation

## **Combined Tracts (Few Cases)**

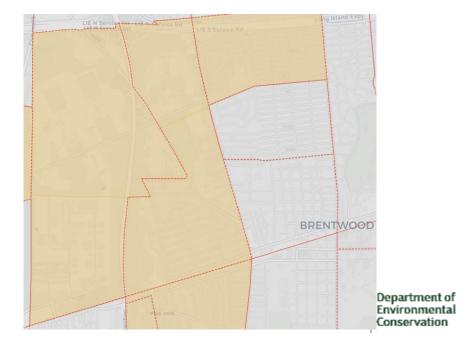


# Other Shapes (Exceptions)

2010 tracts



### 2020 tracts



# New baseline for comparison of DACs

# Most tracts and their DAC designations stay the same.

For tracts that changed, we translated the DAC designations onto the new 2020 tracts by using an average weighted on the area of overlap with the 2010 tracts.

New tracts (lots of cases)



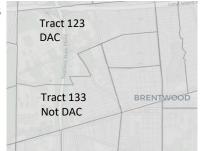


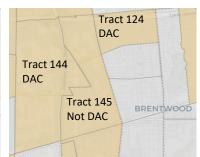
Combined tracts (few cases)





Exceptions





## **Data Updates – Census Tract Transition**

There were 1,736 designated DAC tracts using the old tract shapes.

On the new tract shapes, the same areas equate to 1,908 tracts.

	2010 Census Boundaries	2020 Census Boundaries	% increase
Total tracts	4,918	5,411	10%
Total DACs	1,736	1,908	10%
Percent of DACs	35%	35%	-



# Updating the data to 2020 tracts



### Most indicators have refreshed data

We refreshed almost all the data from various sources that are already using 2020 tracts

But we're waiting on refreshed data for 6 indicators, and using placeholders for now



### **Use of Draft Data**

- 6 DOH indicators are using draft DOH data
  - We expect 5 to be updated this month (asthma, heart attacks, COPD, premature deaths, and diabetes)
  - 1 is still TBD (low birthweight)

Until we get the updated data, we're using a crosswalk, using the old data but overlayed onto 2020 tracts



# **Using Cross-walked Data**

- Benzene air concentration we obtained refreshed data, but it was still on the 2010 tracts
- Projected days above 90F we are continuing to use the same data, but transferred onto 2020 tracts
- DOH placeholder data



# **Other Changes**

- We are now using the DOE LEAD tool for AMI data instead of HUD. The underlying data from both sources comes from census data
- Landfills, as discussed, using a shapefile instead of point data



# Potential Indicators to Add

Diabetes, airport proximity, pesticide use



### Potential indicators for CJWG review

- 1. Diabetes
- 2. Noise pollution / proximity to airports
- 3. Pesticide use



## **Update on Diabetes Data**

- Data on diabetes now available
- Diabetes is correlated with
  - asthma
  - low birthweight
  - % black population
  - premature deaths
  - 80% AMI
  - single-parent households

### **Updated Health Factor**

Asthma rate COPD rate

Households with disabilities

Premature death rate

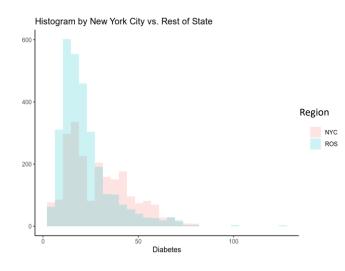
Heart attack rate

Population without health insurance

Population over age 65

Low birthweight rate

Diabetes rate



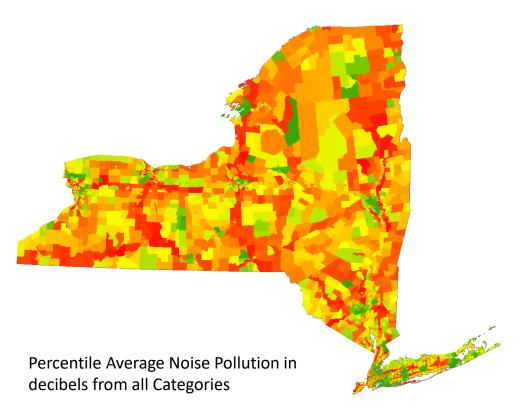


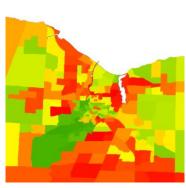
### **Noise Pollution**

- Indicator originally considered by CJWG, not pursued due to lack of data
- NYC EJ Report recommends including noise pollution
- Data now exists via USDOT
- Data is modeled based on decibel modeling on a 30m grid
- Data is broken out by category: Aviation, Rail, Road
- Data has been spatially joined to 2020 Census Map

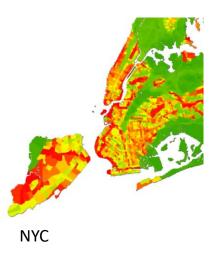


### **Noise Pollution**





Rochester



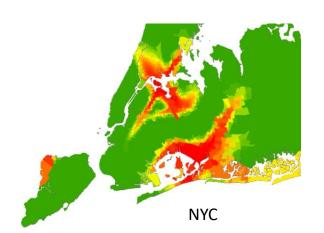


# **Proximity to Airports**

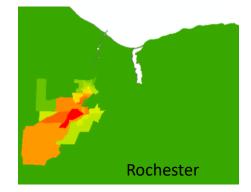
The NYC EJ Report recommended including proximity to airports as an indicator.

If we use the noise pollution data ONLY for aircraft we get an accurate

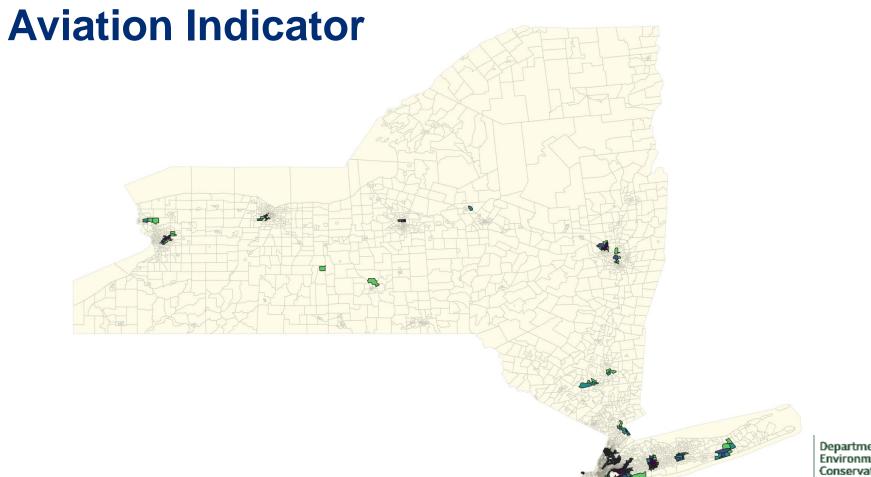
indicator for proximity to airports.











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### **Correlations**

### *Noise from all transportation modes*

Indicator	Correlation
Traffic (number of vehicles)	0.71
Benzene	0.70
% Land developed	0.68
PM 2.5	0.64
Agricultural land use	-0.60
Driving time to healthcare facilities	-0.57

### Airport noise only

Indicator	Correlation
Benzene	0.29
Latino population	0.27
Agricultural land use	-0.21
Housing vacancy rates	-0.19



### Pesticide use

### Steps taken

- Contacted NYS Department of Agriculture and Markets Division of Land and Water Resources + Pesticide Reporting & Certification Section of DEC
- Led to a data warehouse at the Cornell Cooperative Extension for the Pesticide Sales and Use Reporting Program
- Reviewed data best granularity currently available is at the zip code level, but there's a possibility to aggregate to census tracts

### Next steps

- Think through implications of selfreport
- Weigh whether CJWG should add it, given all other indicators
- Would need to determine which chemical products to include

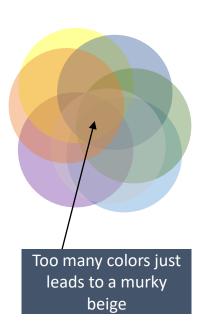


### Quick aside about number of indicators

We all want to create the best and most accurate criteria to identify disadvantaged communities...

But adding more indicators may not always be the answer.

Every time we add an indicator, it dilutes the influence of all the other indicators.





# Let's review the factors with

- Diabetes
- Proximity to airports



# 1

### **Indicators: Framework**

The Geographic DAC scoring approach uses data from national and state sources to create 47 indicators in the following categories. For each indicator the percentile-rank of each census tract is used in scoring.

#### **Environmental Burdens and Climate Change Risks**

Potential Pollution Exposures Land use assoc. with historical discrimination or disinvestment

Potential Climate Change Risks

### Population Characteristics and Health Vulnerabilities

Income, Education, Employment Race, Ethnicity, Language Health Impacts & Burdens Housing, Energy, Communications

20 Indicators in this component + Noise pollution = 21

Now at 47 indicators 25 Indicators in this component + Diabetes = 26





# **Environmental Burdens and Climate Change Risks: Indicators (21 total indicators)**

#### Potential Pollution Exposures

- Vehicle traffic density
- · Diesel truck and bus traffic
- Particulate Matter (PM2.5)
- Benzene concentration
- Wastewater discharge
- + Airport noise pollution

### Land use and facilities associated with historical discrimination or disinvestment

- Remediation Sites (e.g., NPL Superfund or State Superfund/Class II sites)
- Regulated Management Plan (chemical) sites
- Major oil storage facilities (incl. airports)
- Power generation facilities
- Active landfills
- Municipal waste combustors
- Scrap metal processors
- Industrial/manufacturing/mining land use (zoning)
- Housing vacancy rate

#### Potential Climate Change Risks

- Extreme heat projections (>90° days in 2050)
- Flooding in coastal and tidally influenced areas (projected)
- Flooding in inland areas (projected)
- Low vegetative cover
- · Agricultural land
- Driving time to hospitals or urgent/critical care

This factor has 2x weight





# Population Characteristics and Health Vulnerabilities: Indicators (26 total indicators)

### Income, Education & Employment

- Pct <80% Area Median Income
- Pct <100% of Federal Poverty Line
- Pct without Bachelor's Degree
- Unemployment rate
- Pct Single-parent households

### Race, Ethnicity & Language

- Pct Latino/a or Hispanic
- Pct Black or African American
- Pct Asian
- Pct Native American or Indigenous
- Limited English Proficiency
- · Historical redlining score

### Health Impacts & Sensitivities

- · Asthma ED visits
- COPD ED visits
- Heart attack (MI) hospitalization
- · Premature Deaths
- · Low Birthweight
- · + Diabetes
- · Pct without Health Insurance
- Pct with Disabilities
- Pct Adults age 65+

### Housing, Energy, Communications

- Pct Renter-Occupied Homes
- Housing cost burden (rental costs)
- Energy Poverty / Cost Burden
- Manufactured homes
- Homes built before 1960
- Pct without Internet (home or cellular)

Within this factor, both income metrics have 2x weight

Within this factor, Pct Latino/a and Pct Black have 2x weight



# 3 Scenarios and Results



# Old vs. New data (as of September 2024)

- Version 1: Original DAC indicators with old data on 2020 census tracts
- Version 2: Original indicators with refreshed data

		V1					V1	V2	
Region	#Tracts	DACs	V2 DACs	Added	Dropped	# Diff	%DAC	%DAC	% Diff
Capital Region	326	66	66	7	7	0	20%	20%	0.00
Central NY	244	80	72	8	16	-8	33%	30%	-0.03
Finger Lakes	358	117	98	6	25	-19	33%	27%	-0.05
Long Island	671	104	95	19	28	-9	16%	14%	-0.01
Mid-Hudson	600	259	267	40	32	8	43%	45%	0.01
Mohawk Valley	158	38	29	0	9	-9	24%	18%	-0.05
New York City	2,327	1,051	1,084	173	140	33	45%	47%	0.01
North Country	134	16	16	4	4	0	12%	12%	0.00
Southern Tier	189	40	32	4	12	-8	21%	17%	-0.04
Western NY	404	137	142	18	13	5	34%	35%	0.01
<b>Grand Total</b>	5,411	1,908	1,901	279	286	-7	35%	35%	-0.00

These do NOT include diabetes or proximity to airports

# Draft results as of September 2024

- Scenario 1: Original indicators with refreshed data
- Scenario 2: Scenario 1 + diabetes
- Scenario 3: Scenario 2 + diabetes + airport proximity

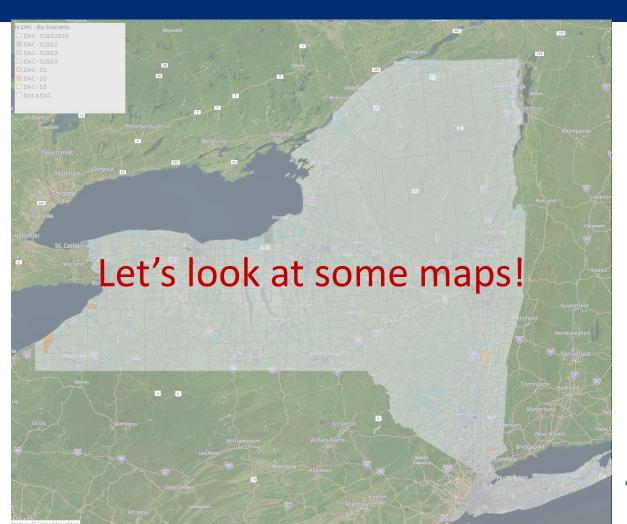
Region	<b>Total Tracts</b>	S1 DACs	S2 DACs	S3 DACs
Capital Region	326	66	67	68
Central NY	244	72	71	73
Finger Lakes	358	98	98	97
Long Island	671	95	99	108
Mid-Hudson	600	267	265	257
Mohawk Valley	158	29	29	29
New York City	2,327	1,084	1,085	1,067
North Country	134	16	16	16
Southern Tier	189	32	34	34
Western NY	404	142	139	135
<b>Grand Total</b>	5,411	1,901	1,903	1,884

# Results show small changes

 There are small differences between the scenarios – with shifting of a minority of census tracts

 Any one indicator (current or new) will have small potential to move the needle on DAC designations







# Understanding differences in DACs that are rural vs urban



### Describe a DAC in...

**Rural areas** 

**Urban areas** 



### **Urban and rural tracts**

- Some indicators have higher scores in urban census tracts while others have higher scores in rural tracts
- 32 indicators have higher scores in urban tracts
- 15 indicators have higher scores in rural tracts
- Go to excel...

Overall DAC Score         67.9         90.1         22.2           Benzene         27.3         71.8         44.5           Developed land         27.3         71.5         44.2           Traffic (all vehicles)         27.7         71.4         43.7           Landfills         50.1         91.8         41.7           Rentership         31.3         68.2         36.9           Limited English         21.5         58.2         36.7           Wastewater         29.1         63.2         34.1           PMZ.5         32.7         66.7         34           Asthma         33.9         66         32.1           Low income - 80% AMI         34.3         56.4         31.1           Days >90F         40.4         68.2         27.8           Latino pop.         36.3         62         25.7           Old/Lead homes         37.4         62.3         24.9           Black pop.         35.8         60.6         24.8           Asian pop.         33.8         58.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.7         21.7 </th <th>Indicator</th> <th>Rural</th> <th>Urban</th> <th>Difference</th> <th></th>	Indicator	Rural	Urban	Difference	
Benzene   27.3   71.8   44.5					
Developed land					
Traffic (alt vehicles) 27.7 71.4 43.7 Landfills 50.1 91.8 41.7 Rentership 31.3 68.2 36.9 Limited English 21.5 58.2 36.7 Wastewater 29.1 63.2 34.1 PMZ.5 32.7 66.7 34 Asthma 33.9 66 32.1 Low income - 80% AMI 34.3 65.4 31.1 Days - 90F 40.4 68.2 27.8 Latino pop. 36.3 62 25.7 Old/Lead homes 37.4 62.3 24.9 Black pop. 35.8 60.6 24.8 Asian pop. 35.8 60.6 24.8 Asian pop. 33.8 58.5 24.7 Redlining 34.8 59 24.2 Low birthweight 39 60.9 21.9 Truck traffic 39 60.7 21.7 Low income - 100% FPL 39 60.6 21.2 Low income - 100% FPL 39 60.6 21.2 Diabetes 39.4 60.6 21.2 Premature deaths 39.4 60.6 21.2 Diabetes 39.4 60.6 21.2 Low income - 100% FPL 39 60.7 21.7 Low income - 100% FPL 30 60.6 21.2 Low income - 100% FPL 30 60.6 20.7 Low income - 100% FPL 30 60.6 20.7 Lo					
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Wastewater         29.1         63.2         34.1           PMZ.5         32.7         66.7         34           Asthma         33.9         66.7         34           Low income - 80% AMI         34.3         65.4         31.1           Days > 90F         40.4         68.2         27.8           Latino pop.         36.3         62         25.7           Old/Lead homes         37.4         62.3         24.9           Black pop.         35.8         60.6         24.8           Asian pop.         33.8         56.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Premature deaths         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
PM2.5         32.7         66.7         34           Asthma         33.9         66         32.1           Low income - 80% AMI         34.3         65.4         31.1           Days > 90F         40.4         68.2         27.8           Latino pop.         36.3         62         25.7           Old/Lead homes         37.4         62.3         24.9           Black pop.         35.8         60.6         24.8           Asian pop.         33.8         58.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9 <td></td> <td></td> <td></td> <td></td> <td></td>					
Asthma					
Low income - 80% AMI         34.3         65.4         31.1           Days - 90F         40.4         68.2         27.8           Latino pop.         36.3         62         25.7           Old/Lead homes         37.4         62.3         24.9           Black pop.         35.8         60.6         24.8           Asian pop.         33.8         58.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.2           Premature deaths         39.4         60.6         21.2           Premature deaths         39.4         60.6         21.2           Inabetes         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Days >90F         40.4         68.2         27.8           Latino pop.         36.3         62         25.7           Old/Lead homes         37.4         62.3         24.9           Black pop.         35.8         60.6         24.8           Asian pop.         33.8         58.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.7         21.7           Low birthweight         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Premature deaths         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
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Old/Lead homes         37.4         62.3         24.9           Black pop.         35.8         60.6         24.8           Asian pop.         33.8         58.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.2           Premature deaths         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. w/o college ed.         48.5 <td></td> <td></td> <td></td> <td></td> <td></td>					
Black pop.         35.8         60.6         24.8           Asian pop.         33.8         58.5         24.7           Redlining         34.8         59         24.2           Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Premature deaths         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. W/o college ed.         48.5         51.6         3.1           Housing vacancies <t< td=""><td>- ' '</td><td></td><td></td><td></td><td></td></t<>	- ' '				
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Redlining         34.8         59         24.2           Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. W/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities					
Low birthweight         39         60.9         21.9           Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Heatth insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. w/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste f					
Truck traffic         39         60.7         21.7           Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. w/o cotlege ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy b					
Low income - 100% FPL         39         60.6         21.6           Premature deaths         39.4         60.6         21.2           Diabetes         39.4         60.6         21.2           Ibabetes         39.4         60.6         21.2           Heatht insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. Wo college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy burde					
Premature deaths 39.4 60.6 21.2 Diabetes 39.4 60.6 21.2 Health insurance 40 58.4 18.4 Unemployment 40.2 58.3 18.1 Single parents 40.9 52.8 11.9 Airport noise 4.2 15.5 11.3 Rent burden 43.4 54.6 11.2 Home internet 44.2 53.3 9.1 Native/Indigenous pop. 35.4 42.6 7.2 Power generation facilities 2.1 7.1 5 Pop. w/o college ed. 48.5 51.6 3.1 Housing vacancies 47.2 48.7 1.5 Coastal flooding 10.3 11.4 1.1 Oil storage facilities 0.5 0 -0.5 Energy burden 63.9 62.4 -1.5 RMP sites 25.5 22.3 -3.2 Heart attacks 52.5 47.8 -4.7 Disabled pop. 52.4 47.6 -4.8 COPD 53.2 47.2 -6 Scrap metal facilities 8.7 1.7 -7 Remediation sites 124 1.9 -9.1 Industrial land use 32 22.2 -9.8 Inland flooding 23 6.8 16.2 Age 65+ 59.1 40.9 18.2 Mobile homes 27.3 3.6 -23.7 Driving time to healthcare					
Diabetes         39.4         60.6         21.2           Health insurance         40         58.4         18.4           Unemployment         40.2         58.3         18.1           Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Popo. w/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         -3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.					_
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Single parents         40.9         52.8         11.9           Airport noise         4.2         15.5         11.3           Rent burden         43.4         54.6         11.2           Home internet         44.2         53.3         9.1           Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. w/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         -3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.         52.4         47.6         -4.8           COPD         53.2         47.2         -6           Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1           Industrial land use					
Airport noise     4.2     15.5     11.3       Rent burden     43.4     54.6     11.2       Home internet     44.2     53.3     9.1       Native/indigenous pop.     35.4     42.6     7.2       Power generation facilities     2.1     7.1     5       Pop. w/o cotlege ed.     48.5     51.6     3.1       Housing vacancies     47.2     48.7     1.5       Coastal flooding     10.3     11.4     1.1       Oil storage facilities     2.8     2.4     -0.4       Municipal waste facilities     0.5     0     -0.5       Energy burden     63.9     62.4     -1.5       RMP sites     25.5     22.3     -3.2       Heart attacks     52.5     47.8     -4.7       Disabled pop.     52.4     47.6     -4.8       COPD     53.2     47.2     -6       Scrap metal facilities     8.7     1.7     -7       Remediation sites     24     14.9     -9.1       Industrial land use     32     22.2     -9.8       Inland flooding     23     6.8     -16.2       Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7 <td></td> <td></td> <td></td> <td></td> <td>_</td>					_
Rent burden 43.4 54.6 11.2 Home internet 44.2 53.3 9.1 Native/Indigenous pop. 35.4 42.6 7.2 Power generation facilities 2.1 7.1 5 Pop. w/o college ed. 48.5 51.6 3.1 Housing vacancies 47.2 48.7 1.5 Coastal flooding 10.3 11.4 11.1 Oil storage facilities 2.8 2.4 -0.4 Municipal waste facilities 0.5 0 -0.5 Energy burden 63.9 62.4 -1.5 RMP sites 25.5 22.3 -3.2 Heart attacks 52.5 47.8 -4.7 Disabled pop. 52.4 47.6 -4.8 COPD 53.2 47.2 -6 Scrap metal facilities 8.7 1.7 -7 Remediation sites 24 14.9 -9.1 Industrial land use 32 22.2 -9.8 Inland flooding 23 6.8 -16.2 Age 65+ 59.1 40.9 -18.2 Mobile homes 27.3 3.6 -23.7 Driving time to healthcare					
Home internet					
Native/Indigenous pop.         35.4         42.6         7.2           Power generation facilities         2.1         7.1         5           Pop. w/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.         52.4         47.6         -4.8           COPD         53.2         47.2         -6           Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1           Industrial land use         32         22.2         -9.8           Inland flooding         23         6.8         -16.2           Age 65+         59.1         40.9         -18.2           Mobile homes	Rent burden			11.2	
Power generation facilities         2.1         7.1         5           Pop. w/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         -3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.         52.4         47.6         -4.8           COPD         53.2         47.2         -6           Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1           Industrial land use         32         22.2         -9.8           Inland flooding         23         6.8         -16.2           Age 65+         59.1         40.9         -18.2           Mobile homes         27.3         3.6         -23.7           Driving time to healthcar	Home internet				
Pop. w/o college ed.         48.5         51.6         3.1           Housing vacancies         47.2         48.7         1.5           Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         -3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.         52.4         47.6         -4.8           COPD         53.2         47.2         -6           Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1           Industrial land use         32         22.2         -9.8           Inland flooding         23         6.8         -16.2           Age 65+         59.1         40.9         -18.2           Mobile homes         27.3         3.6         -23.7           Driving time to healthcare         62.6         38         -24.6	Native/Indigenous pop.	35.4	42.6	7.2	
Housing vacancies 47.2 48.7 1.5  Coastal flooding 10.3 11.4 1.1  Oil storage facilities 2.8 2.4 -0.4  Municipal waste facilities 0.5 0 -0.5  Energy burden 63.9 62.4 -1.5  RMP sites 25.5 22.3 -3.2  Heart attacks 52.5 47.8 -4.7  Disabled pop. 52.4 47.6 -4.8  COPD 53.2 47.2 -6  Scrap metal facilities 8.7 1.7 -7  Remediation sites 24 14.9 -9.1  Industrial land use 32 22.2 -9.8  Inland flooding 23 6.8 -16.2  Age 65+ 59.1 40.9 -18.2  Mobile homes 27.3 3.6 -23.7  Driving time to healthcare 62.6 38 -24.6	Power generation facilities	2.1	7.1	5	
Coastal flooding         10.3         11.4         1.1           Oil storage facilities         2.8         2.4         -0.4           Municipal waste facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         -3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.         52.4         47.6         -4.8           COPD         53.2         47.2         -6           Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1           Industrial land use         32         22.2         -9.8           Inland flooding         23         6.8         -16.2           Age 65+         59.1         40.9         -18.2           Mobile homes         27.3         3.6         -23.7           Driving time to healthcare         62.6         38         -24.6	Pop. w/o college ed.	48.5	51.6	3.1	
Oil storage facilities     2.8     2.4     -0.4       Municipal waste facilities     0.5     0     -0.5       Energy burden     63.9     62.4     -1.5       RMP sites     25.5     22.3     -3.2       Heart attacks     52.5     47.8     -4.7       Disabled pop.     52.4     47.6     -4.8       COPD     53.2     47.2     -6       Scrap metal facilities     8.7     1.7     -7       Remediation sites     24     14.9     -9.1       Industrial land use     32     22.2     -9.8       Inland flooding     23     6.8     -16.2       Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7       Driving time to healthcare     62.6     38     -24.6	Housing vacancies	47.2	48.7	1.5	
Municipal waste facilities         0.5         0         -0.5           Energy burden         63.9         62.4         -1.5           RMP sites         25.5         22.3         -3.2           Heart attacks         52.5         47.8         -4.7           Disabled pop.         52.4         47.6         -4.8           COPD         53.2         47.2         -6           Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1         Industrial land use         32         22.2         -9.8         Inland flooding         23         6.8         -16.2         Age 65+         59.1         40.9         -18.2         Mobile homes         27.3         3.6         -23.7         Driving time to healthcare         62.6         38         -24.6	Coastal flooding	10.3	11.4	1.1	
Energy burden 63.9 62.4 -1.5  RMP sites 25.5 22.3 -3.2  Heart attacks 52.5 47.8 -4.7  Disabled pop. 52.4 47.6 -4.8  COPD 53.2 47.2 -6  Scrap metal facilities 8.7 1.7 -7  Remediation sites 24 14.9 -9.1  Industrial land use 32 22.2 -9.8  Inland flooding 23 6.8 -16.2  Age 65+ 59.1 40.9 -18.2  Mobile homes 27.3 3.6 -23.7  Driving time to healthcare 62.6 38 -24.6	Oil storage facilities	2.8	2.4	-0.4	
RMP sites     25.5     22.3     -3.2       Heart attacks     52.5     47.8     -4.7       Disabled pop.     52.4     47.6     -4.8       COPD     53.2     47.2     -6       Scrap metal facilities     8.7     1.7     -7       Remediation sites     24     14.9     -9.1       Industrial land use     32     22.2     -9.8       Inland flooding     23     6.8     -16.2       Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7       Driving time to healthcare     62.6     38     -24.6	Municipal waste facilities	0.5	0	-0.5	
Heart attacks 52.5 47.8 -4.7  Disabled pop. 52.4 47.6 -4.8  COPD 53.2 47.2 -6  Scrap metal facilities 8.7 1.7 -7  Remediation sites 24 14.9 -9.1  Industrial land use 32 22.2 -9.8  Inland flooding 23 6.8 -16.2  Age 65+ 59.1 40.9 -18.2  Mobile homes 27.3 3.6 -23.7  Driving time to healthcare 62.6 38 -24.6	Energy burden	63.9	62.4	-1.5	
Disabled pop. 52.4 47.6 -4.8 COPD 53.2 47.2 -6 Scrap metal facilities 8.7 1.7 -7 Remediation sites 24 14.9 -9.1 Industrial land use 32 22.2 -9.8 Inland flooding 23 6.8 -16.2 Age 65+ 59.1 40.9 -18.2 Mobile homes 27.3 3.6 -23.7 Driving time to healthcare 62.6 38 -24.6	RMP sites	25.5	22.3	-3.2	
COPD     53.2     47.2     -6       Scrap metal facilities     8.7     1.7     -7       Remediation sites     24     14.9     -9.1       Industrial land use     32     22.2     -9.8       Inland flooding     23     6.8     -16.2       Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7       Driving time to healthcare     62.6     38     -24.6	Heart attacks	52.5	47.8	-4.7	
Scrap metal facilities         8.7         1.7         -7           Remediation sites         24         14.9         -9.1           Industrial land use         32         22.2         -9.8           Inland flooding         23         6.8         -16.2           Age 65+         59.1         40.9         -18.2           Mobile homes         27.3         3.6         -23.7           Driving time to healthcare         62.6         38         -24.6	Disabled pop.	52.4	47.6	-4.8	
Remediation sites     24     14.9     -9.1       Industrial land use     32     22.2     -9.8       Inland flooding     23     6.8     -16.2       Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7       Driving time to healthcare     62.6     38     -24.6	COPD	53.2	47.2	-6	
Industrial land use         32         22.2         -9.8           Inland flooding         23         6.8         -16.2           Age 65+         59.1         40.9         -18.2           Mobile homes         27.3         3.6         -23.7           Driving time to healthcare         62.6         38         -24.6	Scrap metal facilities	8.7	1.7	-7	
Inland flooding     23     6.8     -16.2       Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7       Driving time to healthcare     62.6     38     -24.6	Remediation sites	24	14.9	-9.1	
Age 65+ 59.1 40.9 -18.2 Mobile homes 27.3 3.6 -23.7 Driving time to healthcare 62.6 38 -24.6	Industrial land use	32	22.2	-9.8	
Age 65+     59.1     40.9     -18.2       Mobile homes     27.3     3.6     -23.7       Driving time to healthcare     62.6     38     -24.6	Inland flooding	23	6.8	-16.2	
Mobile homes         27.3         3.6         -23.7           Driving time to healthcare         62.6         38         -24.6		59.1	40.9	-18.2	
Driving time to healthcare 62.6 38 -24.6	0	27.3	3.6	-23.7	
<u> </u>					
riginoutturut da Z =3/	Agricultural land	39	2	-37	

# Indicators that score higher – rural vs urban

#### Rural areas

Agricultural land

Driving time to healthcare

Mobile homes

Age 65+

Inland flooding

Industrial land use

Remediation sites

Scrap metal facilities

COPD

Disabled pop.

Heart attacks

RMP sites

Energy burden

Municipal waste facilities

### **Urban** areas

Benzene

Developed land

Traffic (all vehicles)

Landfills

Rentership

Limited English

Wastewater

PM2.5

Asthma

Low income - 80% AMI

Days >90F

Latino pop.

Old/Lead homes

Black pop.

Asian pop.

Redlining

Low birthweight

Truck traffic

Low income - 100% FPL

Premature deaths

Diabetes

Health insurance

Unemployment

Single parents

Airport noise

Rent burden

Home internet

Native/Indigenous pop.

Power generation facilities

Pop. w/o college ed.

Housing vacancies

Coastal flooding

### How we have balanced this...

 Regional scoring – we use relative ranking statewide and regionally)

Indicator	Rural	Urban	Difference
<b>Overall DAC Score</b>	67.9	90.1	22.2

• Individual criteria – We use the individual criteria (for clean energy and energy efficiency investment purposes only) to try and cover more rural households.



# Thoughts about this analysis



# Deliberation: Is there anything you want to discuss?



# **CJWG Suggestions**



# **Next steps**

- Update scenarios with data we are waiting on
- Compile all data into a complete report
- Bring CJWG back to deliberate on report



