OPTION GREEN 2021

Disparate Environmental Impacts: CausesandSolutions to Environmental Injustice





Governor Murphy Signs Historic Environmental Justice Legislation

99/18/2020

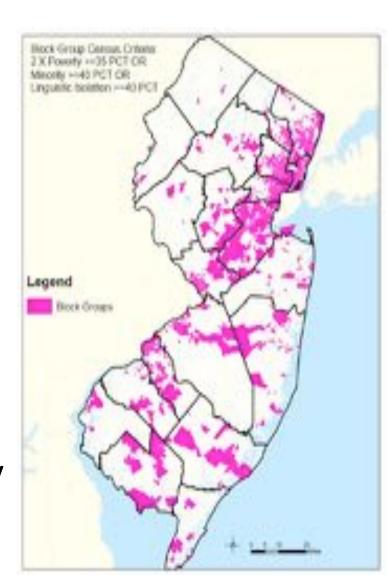
Nation's Strongest Measure to Protect Overburdened Communities from Pollutants

Fulfilling a commitment to enact sweeping protections for environmental justice communities, Governor Phil Murphy today, alongside U.S. Senator Cory Booker, Mayor Ras Baraka, Senator Troy Singleton, Assemblyman John McKeon, and environmental advocates, signed legislation (\$232); which requires the New Jersey Department of Environmental Protection to evaluate the environmental and public health impacts of certain facilities on overburdened communities when reviewing certain permit applications. New Jersey is the first state in the nation to require mandatory permit denials if an environmental justice analysis determines a new facility will have a disproportionately negative impact on overburdened communities.

The bill defines an overburdened community as any community where 35 percent of the households qualify as low-income according to the U.S. Census, 40 percent of households are minority, or 40 percent of households have limited English proficiency. There are approximately \$10 municipalities with populations totaling approximately 4,489,000 that have overburdened communities within their municipalities.

Defining "Overburdened Community"

- Low-Income: At least 35% of households qualify as lowincome households; or
- Minority: at least 40% of the residents identify as minority or as members of a state recognized tribal community; or
- Limited English proficiency: at least 40% of the households have limited English proficiency



Environmental and Public Health Stressors

Environmental stressors to include, but not be limited to:

Concentrated areas of air pollution;

Mobile sources of air pollution;

Contaminated sites;

Transfer stations or other solid waste facilities;

Recycling facilities;

Scrap yards

Point-sources of water pollution including, but not limited to, water pollution from facilities or combined sewer overflows

- Public health stressors are "conditions that may cause potential public health impacts in the overburdened community
- Public health impacts include, but are not limited to:
 - Asthma
 - Cancer
 - Elevated blood lead levels
 - Cardiovascular disease
 - Developmental problems







Market Economics

Economic reasons:

- A. Market forces in site selection
- B. Market-driven changes after siting

Political Power/Laws

- A. Lack of Political Power is the problem
- B. Environmental Law is the problem

Sociohistorical

No victims and no perpetrators-> can be both

Historical events with long-term impacts

Land Use

- 1. Restrictive social covenants
- 2. Exclusionary zoning
- 3. Expulsive zoning

Neighborhood restrictive covenants

Greenlake neighborhood:

"No person or persons of Asiatic, African, or Negro blood, lineage or extraction shall be permitted to occupy a portion of said property or any building thereon except a domestic servant or servants who may actually and in good faith be employed by white occupants of such premises"

Laurelhurst neighborhood:

"No person other than one of the White Race shall ever be permitted to occupy any portion of any lot in said plot or any building at any time thereon, except a domestic servant actually employed by a white occupant of such building"

Broadmoor neighborhood:

"No part of said property hereby conveyed shall ever be used or occupied by any Hebrew or by any person of the Ethiopian, Malay, or Asiatic race ... excepting only employees in domestic service..."

Queen Ann neighborhood

"No person or persons of Asiatic, African or Negro blood, lineage, or extraction shall be permitted to occupy a portion of said property"

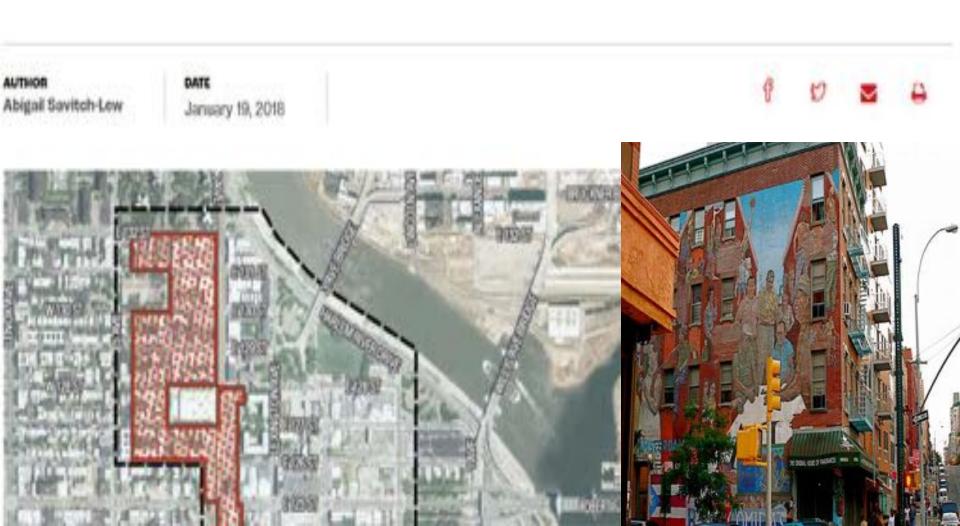
Ballard/Sunset Hills neighborhood

"No part of said property hereby conveyed shall ever be used or occupied by any Hebrew or by any person of the Ethiopian, Malay or any Asiatic Race."

See: complete database of 414 racial restrictive covenants



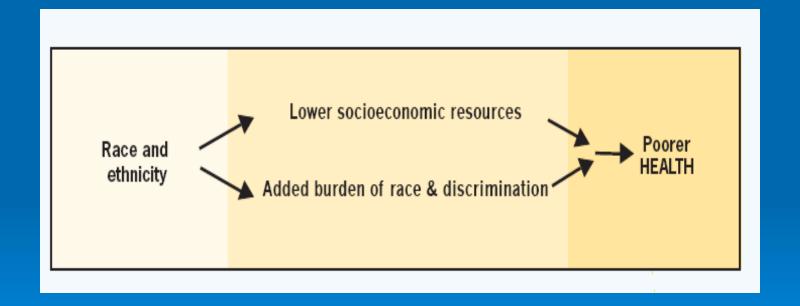
Read Legal Aid's Lawsuit To Stop East Harlem Rezoning



Environmental Racism

Two types of racism:

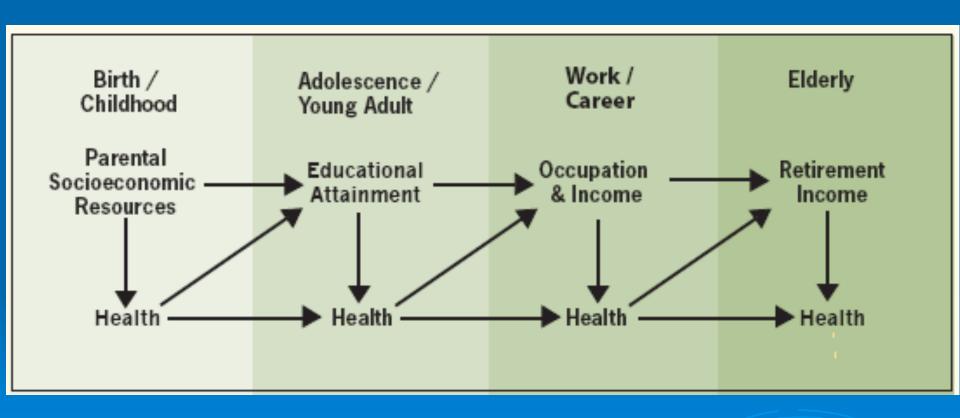
- 1. Intentional /Overt
- 2. Structural/Institutional





Number of loan applications by race and ethnicity and percent denied 2015-2016

County	White	White denied	Black	Black denied	Hispanic apps	Hisp	Asian apps	Asian denied
Atlantic	1966	10.4	76	15.8	155	17.4	167	11.4
Bergen	10,044	8.6	465	15.7	1,580	11.8	3,785	10.6
Burlington:	5,124	7.1	391	141	232	14.2	655	8.7
Camden	4,055	6.1	330	19.7	325	16.3	525	10.9
Cape May	1,153	75	2	50.0	24	20.8	14	28.6
Cumberland	1420	11.0	34	23.5	83	16.9	10	0.0
Essex:	5,335	72	922	22.0	866	13.5	1,340	9.1
Gloucester	3,160	6.1	130	23.1	103	13.6	145	9.7
Hudson	4,646	9.0	307	18.2	969	16.1	2,865	11.0
Hunterdon.	2,555	8.2	35	8.6	115	13.0	189	6.9
Mercer	3,149	7.2	230	21.3	374	13.1	1,530	11.3
Middlesex	5,289	8.5	493	183	1,088	14.4	6,170	10.4
Monmouth	11,131	8.3	225	26.2	517	10.8	896	10.2
Morris	8,443	7.1	161	15.5	620	11.3	1,522	9.6
Ocean	9,436	8.1	120	21.7	343	14.3	148	10.8
Passaic	3,559	9.2	126	15.9	764	14.1	490	13.5
Salem	406	6.4	12	33.3	16	18.8	5	60.0
Somerset	4,346	7.8	296	12.2	463	12.7	2,508	8.0



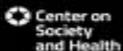
SO WHY DO WE NEED TO FIND LONG-TERM SOLUTIONS?

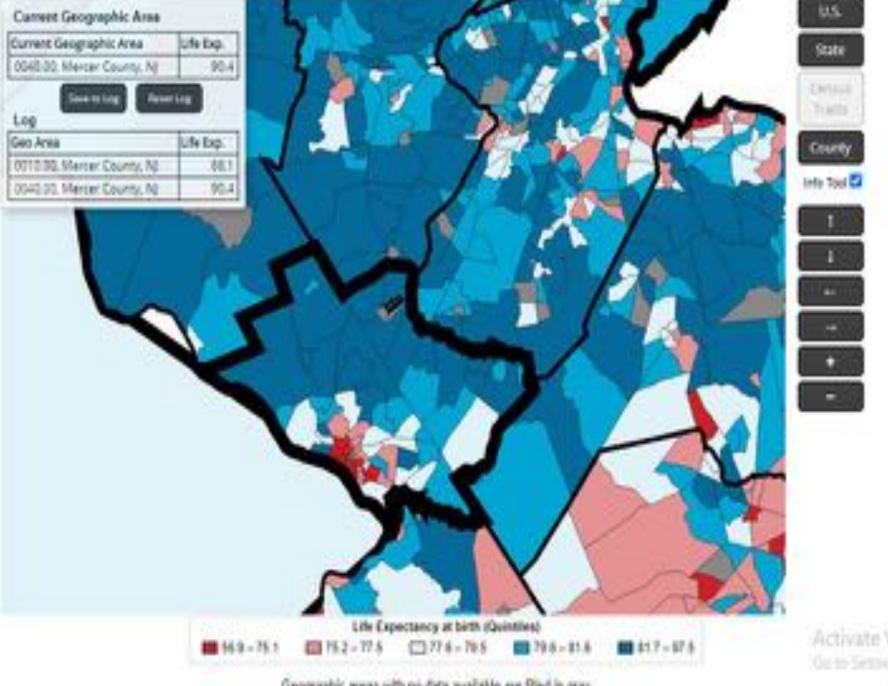
Neighborhood Feature	Hazard	Health Effect
Biological /Chemical environment Air Water Soil	 Air & water pollution Noise Waste Lead paint Other environmental hazards 	 Respiratory diseases Hearing loss Sleep deprivation Developmental delays Impaired cognition
Built environment Housing Transportation Commercial establishments Billboards Parks Libraries	 Housing-related environmental toxins Allergens Inadequate access to healthy food Increased exposure to fast food, alcohol and tobacco products Exposure to tobacco smoke Lack of recreation 	 Asthma Obesity Alcohol and tobacco addiction (leading to liver, lung and cardiovascular disease) Hypertension (due to obesity and lack of exercise) Compromised immune system
Social environment Levels of neighborhood stress and support Enforcement of common rules for public behavior Behavioral norms	 Violence Crime Social isolation Low levels of interpersonal trust Public disorder 	 Anxiety Fear Hyper-vigilance Depression Stress related behavior (over-eating, smoking, addiction)

Short Distances to Large Gaps in Health



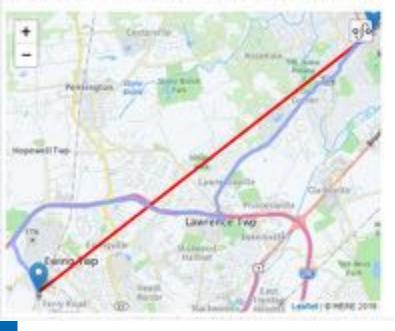






Geographic areas with no data available are filled in gray

Activate Window Oc to Settings to active Straight line distance: 10.24 miles , 16.49 kilometers (km) , 54091 feet , 16487 meters Driving distance: 13.40 miles , 21,56 kilometers (km) , 70728 feet , 21558 reeters



Country		years	Date of Information
		89.40	
Singapo	ore	86.19	
182	Ethlopla		67.90
183	Madagascar		67.86
187	Burundi		67.07
	Singapo 182	Singapore 182 Ethiopia 183 Madagascar 187 Burundi	Monaco 89.40 Singapore 86.19 182 Ethiopia 183 Madagascar 187 Burundi

VULNERABILITY

Definition: the potential for loss or other adverse impacts; or the capacity to suffer harm

Vulnerability: The conditions determined by physical, social, economic, and environmental factors or processes which increase the susceptibility of an individual, a community, assets or systems to the impacts of hazards (UNISDR).



Mount Vesuvius and Pompeii

Types:

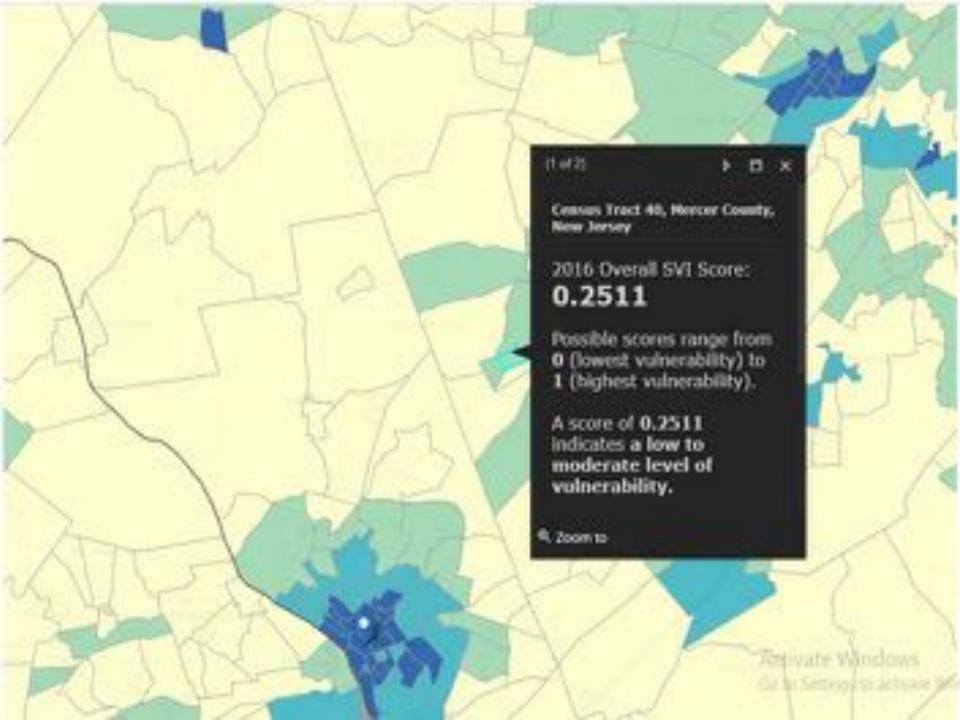
- 1. Individual
- 2. Social
- 3. Environmental



2005 Hurricane Katrina







SO WHAT CAN WE DO?

EDUCATION AND AWARENESS

Databases

- https://www.naphsis.org/usaleep
- https://www.cityhealthdashboard.com
- https://www.usa.gov/statistics
- https://www.data.gov/
- https://www.nlm.nih.gov/enviro/index.html
- http://geodata.grid.unep.ch/
- https://wonder.cdc.gov/
- https://wonder.cdc.gov/WelcomeT.html
- https://ephtracking.cdc.gov/DataExplorer/#/
- https://www.healthsystemtracker.org/dashboard/
- https://www.countyhealthrankings.org/
- https://www.google.com/publicdata/directory
- https://www.epa.gov/environmental-topics/location-specific-environmental-information
- https://www.cdc.gov/publichealthgateway/cha/data.html
- https://www.cdc.gov/nceh/tracking/topics/EnvironmentalJustice.htm

NJ Databases

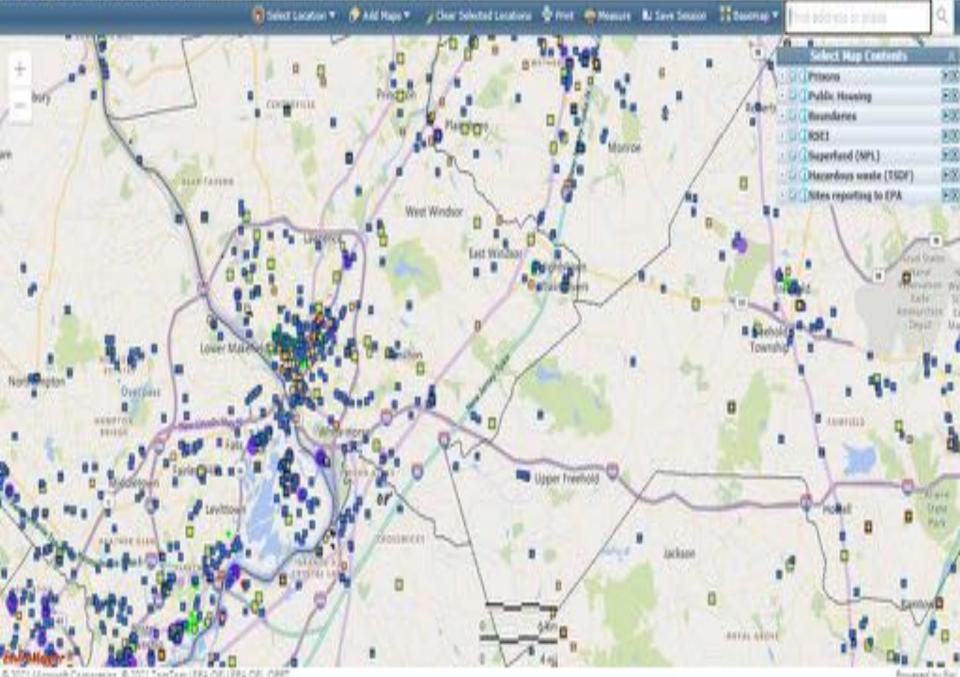
- https://www.countyhealthrankings.org/explore-healthrankings/use-data/go-beyond-the-snapshot/find-moredata/new-jersey-state-resources
- https://www.rwjf.org/en/library/collections/better-data-forbetter-health.html
- <u>DataMiner Enforcement Blotter</u> (<u>DEP Compliance and Enforcement</u>)
- DataMiner Community Right to Know Reports
- https://www.nj.gov/health/ceohs/public-health-tracking/
- https://www-doh.state.nj.us/dohshad/community/snapshot/Builder.html

Short Distances to Large Gaps in Health





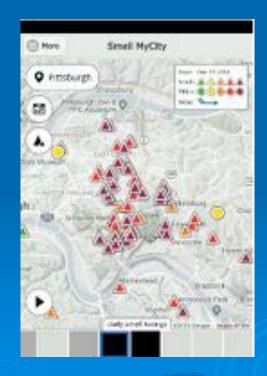




HELP TO GATHER NE INFORMATION

Crowdsourced Data

https://smellmycity.org/



Citizen Science in the Ironbound



Residents of Newark's tronbound community received an EPA Community Action for Resewed Environment (CARE) grant in 2009 to address concerns about air quality. Local sources of air pollution include: NI's targest incinerator and 34 other waste related facilities, the Ports of Newark and Elizabeth (responsible for approximately 7,000 truck trips daily), and the heavily trafficked highways and rat lines that surround the community. As a result of these and other sources, 25 percent of Newark children suffer from asthma, three times the state average, and asthma is the loading cause of absenteers for Newark's school age children. The community identified actions to target its poor air quality, which included increasing air monitoring capabilities, educating the community about air quality issues, all-vocating for the authors are to author them.

Video:

https://www.youtube.com/watch?v=Uevr3vjWDt8&feature=emb_logo

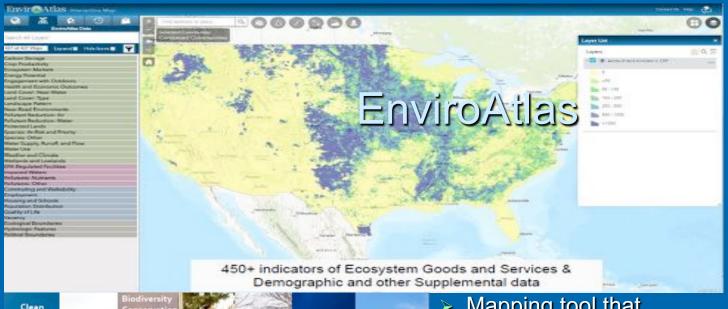
Citizen Science toolbox: https://www.epa.gov/air-sensor-toolbox

The data they collected: https://catalog.data.gov/dataset/c itizen-science-in-the-ironbound-community

Community Asset Mapping

- https://www.communityscience.com/knowledge4equity/A ssetMappingToolkit.pdf
- https://www.citylab.com/life/2020/04/neighborhood-mapscoronavirus-lockdown-stay-at-home-art/610018/







- Mapping tool that focuses on ecosystem service benefits
- Includes some demographic indicators
- https://www.epa.gov/en viroatlas/enviroatlasinteractive-map

USE THE LAWS

Legal Options

https://www.epa.gov/sites/production/files/2015-04/documents/citizen-guide-ej.pdf

HELP TO CREATE NEW LAWS OR CHANGE OLD ONES

Legislative Process and Your Contacts to Congress

Legislation is Introduced

Ask your member of Congress to introduce a bill

Ask your member of Congress to cosponsor a bill

All bills are then referred to Committee

Ask your member of Congress to offer amendments to a bill

Committee votes on bills

Ask your member of Congress to vote a certain way on a bill in Committee

Bills that were approved by Committee are debated on the chamber floor

Ask your member of Congress to make a public statement about a bill in a speech

Ask your member to offer amendments to a bill Chamber votes on bills

Ask your member of Congress to vote a certain way on a bill in the chamber vote

Policy Change

- Strategy 1: Bans
- Strategy 2: Environmental Justice Policies and Programs
- Strategy 3: Require Review Processes
- Strategy 4: Proactive Planning
- Strategy 5: Targeting Existing Land Uses
- Strategy 6: Public Health Codes

Optional: For links to the policies see here: https://www.nrdc.org/sites/default/files/local-policies- environmental-justice-national-scan-tishman-201902.pdf

JOIN A GROUP

Joining Boards!

Boards

- You can serve on local-level boards or commissions that make decisions on area issues
 - Boards at the local-level need citizen involvement to work effectively
- Find out what is available
 - Visit your local government website, which lists all boards and commissions and their existing vacancies
 - Attend a meeting of the board you are interested in joining
- Apply
 - Citizen Leadership Form from local government website
- Tips to make it onto the board
 - Reach out to people currently on the board
 - Regularly attend meetings
 - Introduce yourself to the official in charge of appointing board members

What it means to be a group member

Groups

- Attend town halls or other events with elected officials
- Visit elected officials' offices
- Organize events
- Letter writing campaigns to elected officials
- Publicize group's position
- Attend other groups' events, build a coalition of support
- Research policy developments related to the group's goal
- Share information about your issue
- Stay informed about the group's plans
- Join coordinated activities that the group is planning





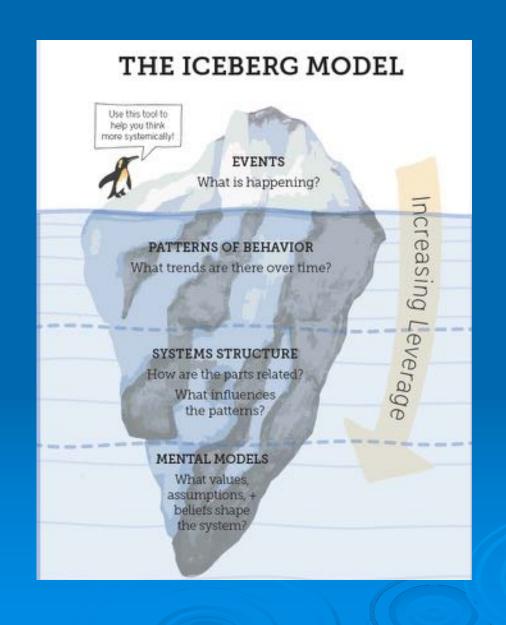


CHANGE THE WAY YOU THINK

Multi-solving and Systems Thinking

Learn to think about relationships

What is Multi-solving video: https://www.climateinteractive.org/videos/multisolving-videos/



ENCOURAGE SUSTAINABILITY

COMMUNITY SUSTAINABILITY

Community sustainability

- A. Community Capacity
- **B.** Community Cohesion
- c. Community Resilience

Links

- Proven strategies;
 - https://www.countyhealthrankings.org/take-action-to-improve-health/what-works-for-health/strategies?f%5B0%5D=health-factor%3AAir%20and%20Water%20Quality