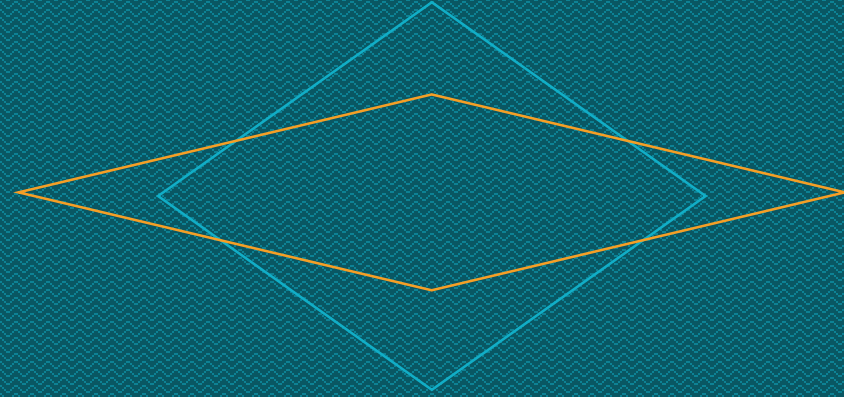


# RENSSELAER

Health Issue	Score	Rank
Lyme Disease	3.25	1
Kidney Disease	2.90	2
Childhood Lead Poisoning	2.81	3
Mental Health	2.80	4
Newborn Drug	2.75	5
Sexually Transmitted Disease	2.65	6
Suicide	2.50	7
Asthma	2.47	8
Assault	2.40	9
Obesity	2.27	10
COPD/CLRD	2.10	11
Alcohol Use	1.90	12
Falls	1.80	13
Diabetes	1.73	14
Congestive Heart Failure	1.70	15
Maternal and Infant	1.67	16
Coronary Heart Disease	1.60	17
Smoking	1.60	18
Stroke	1.30	19
Unintended Pregnancy	1.18	20
Breast Cancer	1.11	21
Drug Use	1.00	22
Colorectal Cancer	0.88	23
HIV/AIDS	0.60	24
Prenatal Care	0.50	25
Well Child Visits	0.33	26
Food	0.00	27
Housing	-0.33	28
Immunization	-0.33	28
Breastfeeding	-1.00	30



# Public Health Issue Prioritization

## Methodology Review

# Purpose

## Public Health Issue Ranking

- › Quantitative ranking strategy to compare Public Health Issues within the county

## Prioritization Process

- › Ranked Public Health Issues guide selection of 2019-2024 Prevention Agenda priorities.

# Prioritization Process



## DATA COLLECTION

- NYSDOH Prevention Agenda Dashboard
- Common Grounds Data Portal
- VS Annual Reports
- 2016 CHNA



## DATA ASSESSMENT

- Identification of appropriate indicators for PH Issues
- Creation of Public Health Issue ranking methodology



## DATA ANALYSIS

Summary calculations result in Public Health Issue ranking scores



## RANKING PRESENTATION

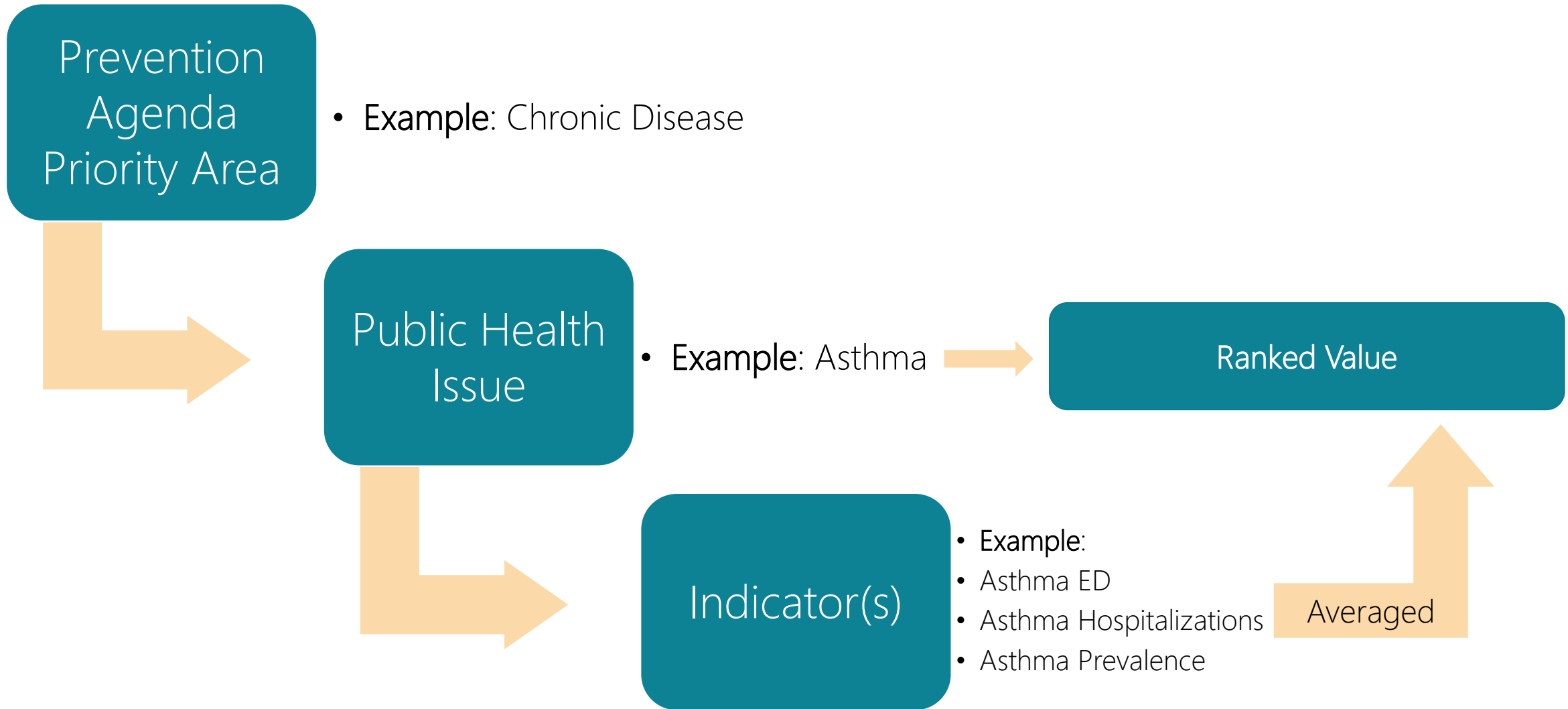
Ranked Public Health Issues are presented to stakeholders with pertinent data



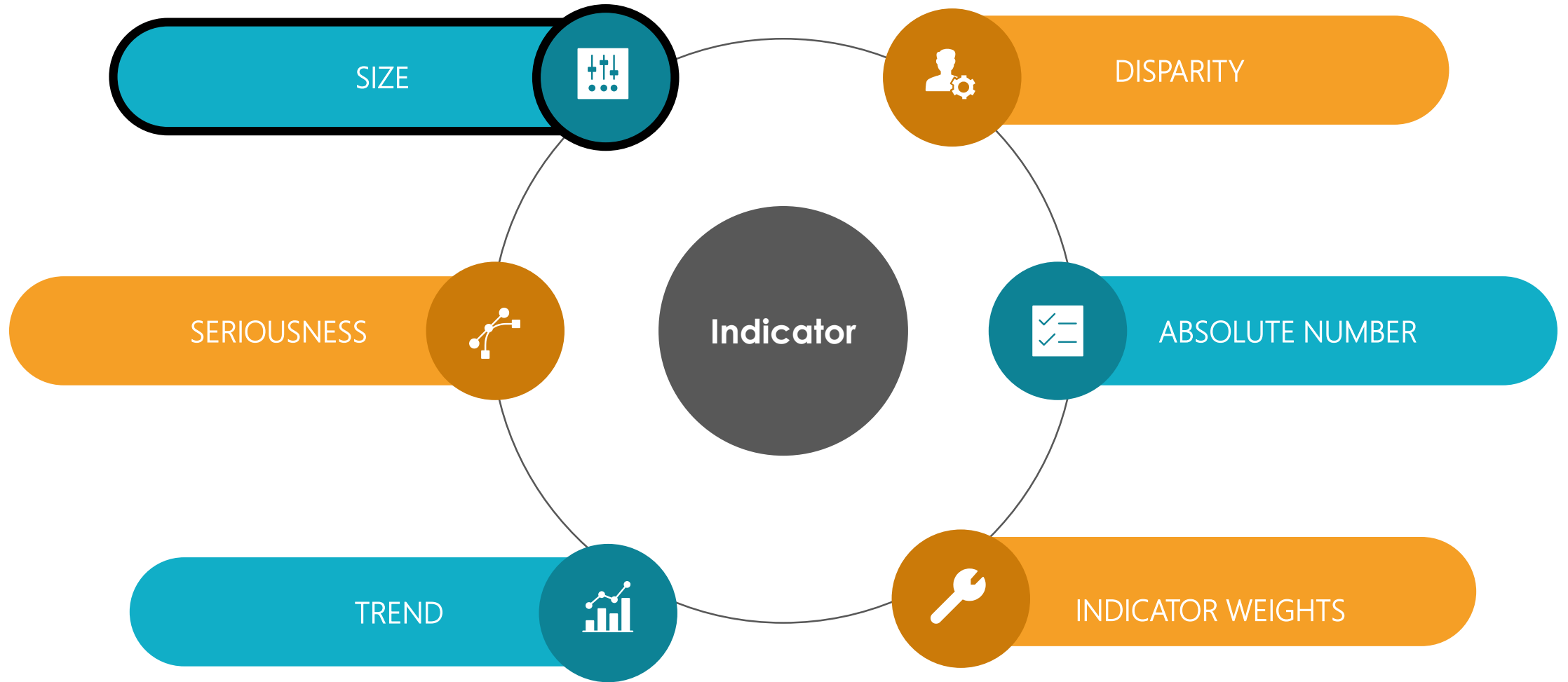
## PRIORITY SELECTION

Stakeholders assess data, supply local antidotes, and vote on priority areas for their county

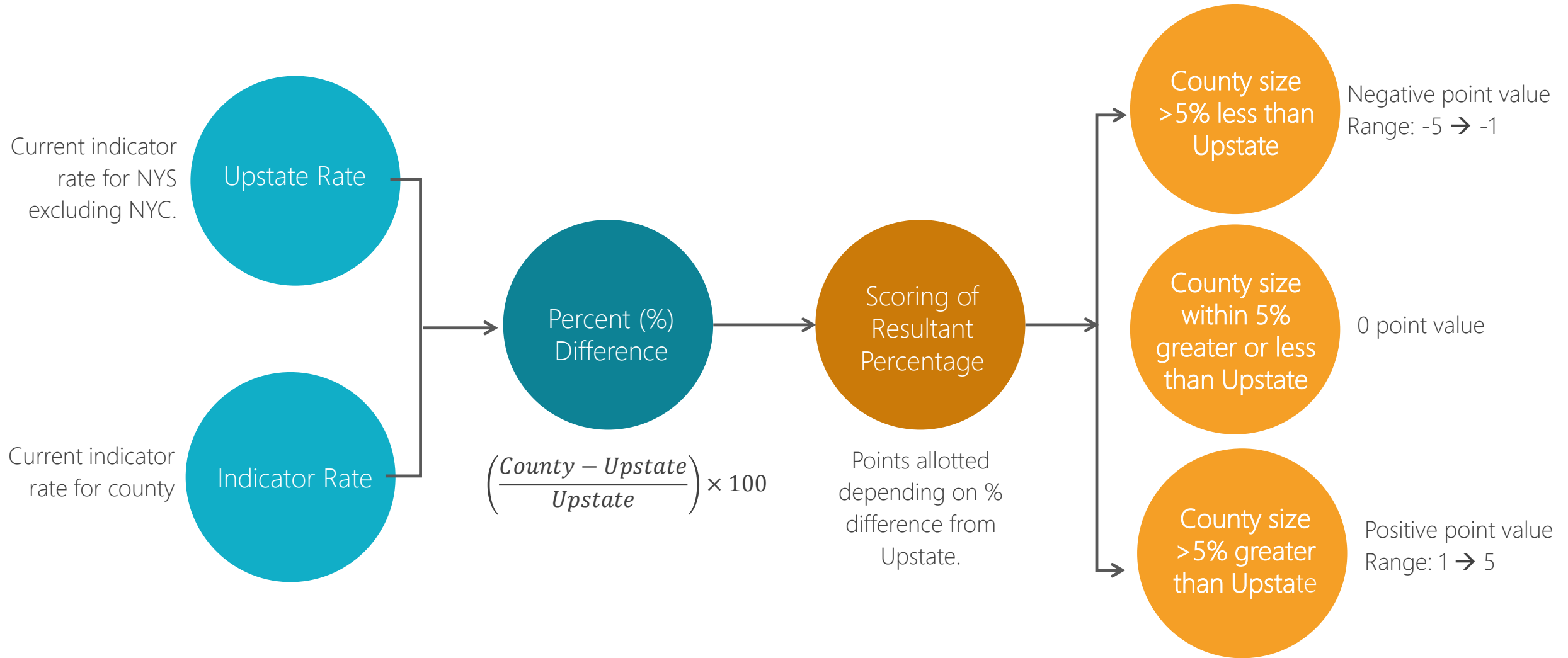
# Layers of Data



# Ranking Categories



# Variable: Size(of rate)



**+1 point if county is worst 5 of all NYS counties for indicator**

# Variable: Size(of rate)

<b>% Higher than Upstate</b>	↓ 50% +	↓ 25-49.9 %	↓ 15-24.9%	↓ 10-14.9%	↓ 5-9.9%	↓ 0-4.9%	↑ 0-4.9%	↑ 5-9.9%	↑ 10-14.9%	↑ 15-24.9%	↑ 25-49.9 %	↑ 50% +
<b>"Points"</b>	-5	-4	-3	-2	-1	0	0	1	2	3	4	5



# Size: Example

## Lyme Disease Case Rate

### Values

- Upstate: 58.7
- County: 753.6

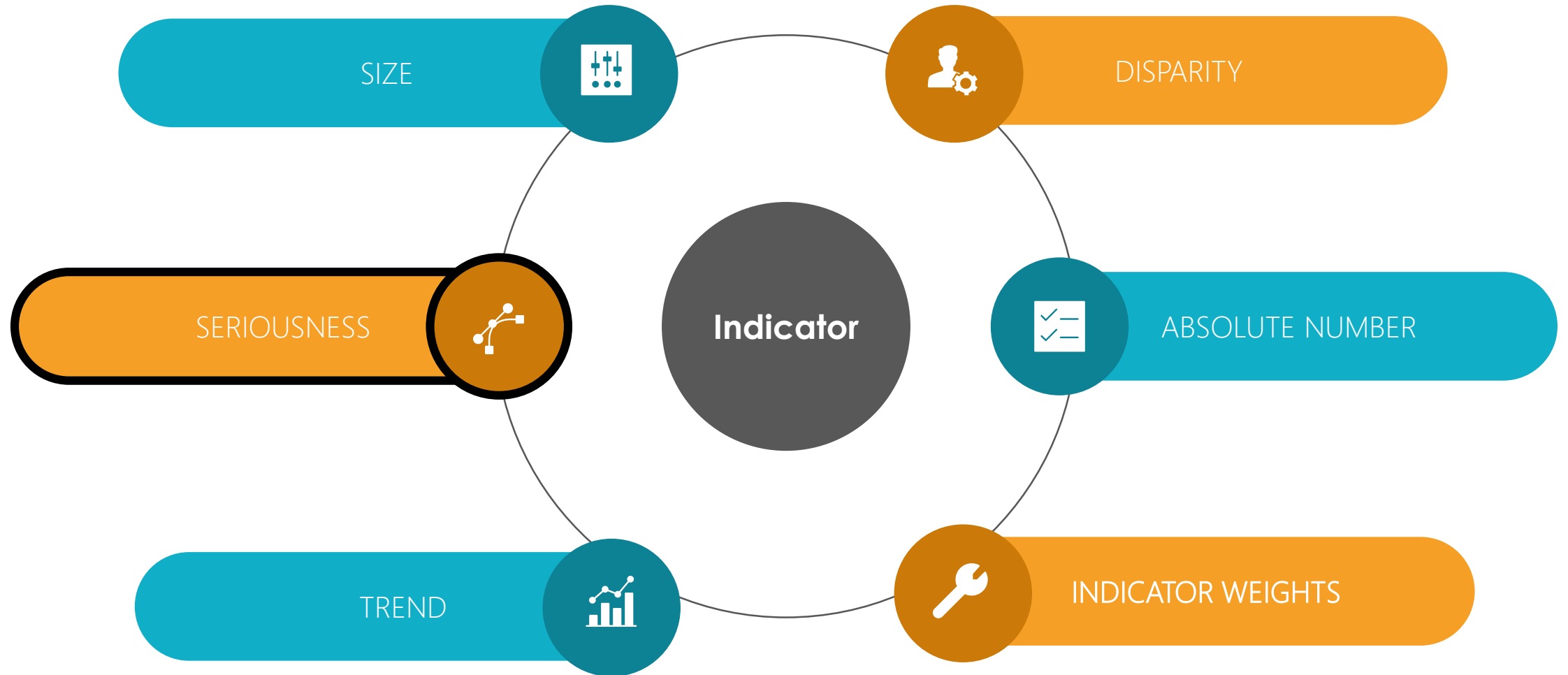
### Calculation

$$\bullet \left( \frac{753.6 - 58.7}{58.7} \right) * 100 = 1184\%$$

### Points

- 1184% greater than Upstate
- Points: 5
- Worst 5 of NYS counties-yes: +1
- TOTAL: 6 points

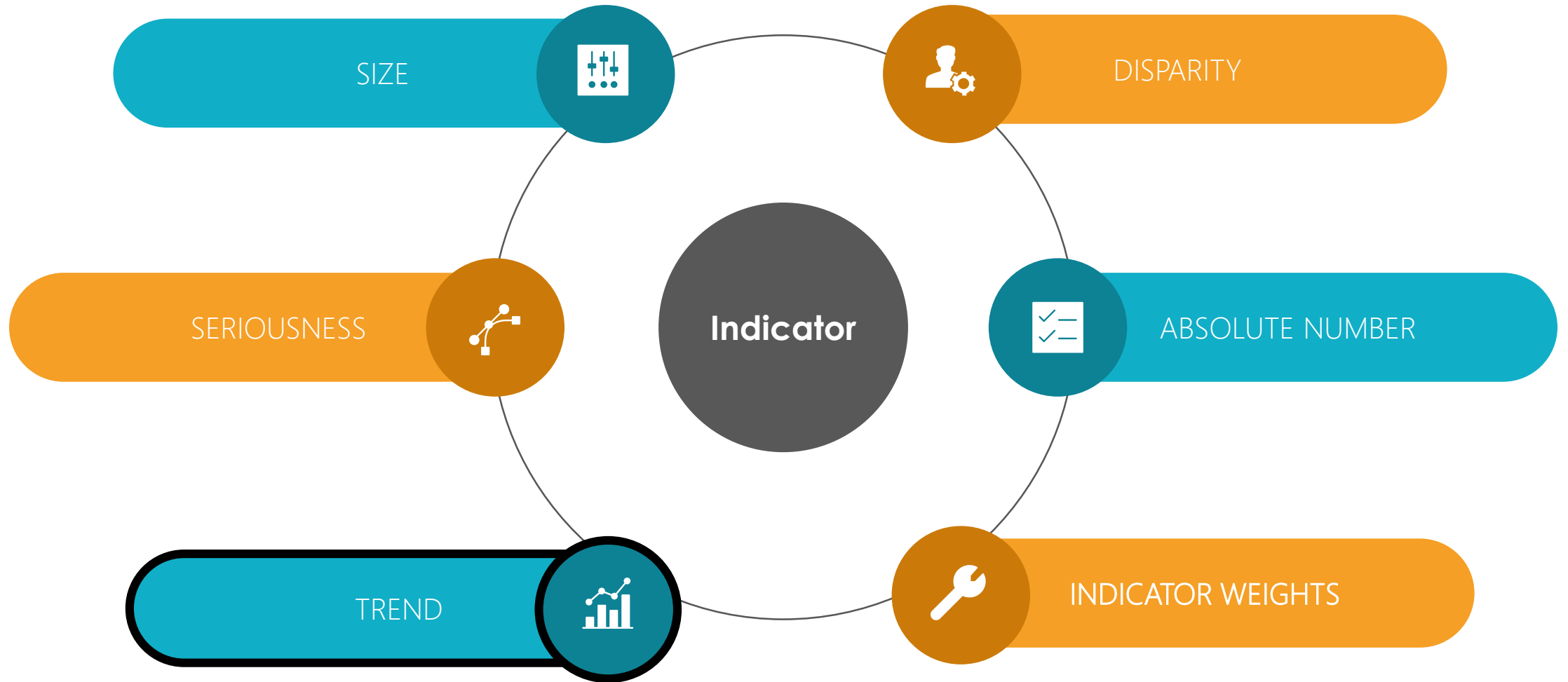
# Ranking Categories



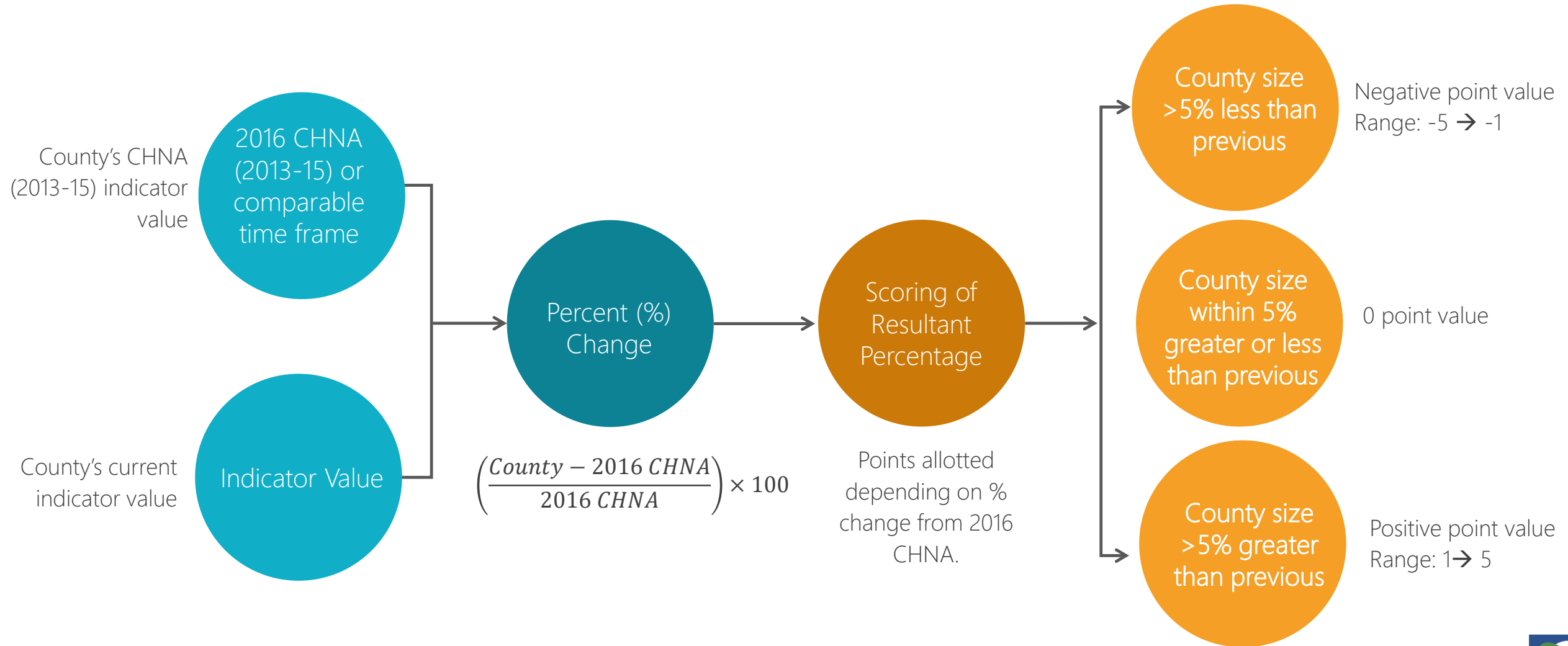
## Variable: Seriousness

Category	Point Value
Mortality	5
Major Hospitalization	4
Minor Hospitalization	3
Major ED Visit	3
Minor ED Visit	2
Health Condition (e.g. asthma, diabetes)	2
Health Behavior (e.g. smoking, drinking); screening/preventive care-related	1

# Ranking Categories



# Variable: Trend



# Variable: Trend

<b>% Change</b>	↓ 50% +	↓ 25- 49.9 %	↓ 15- 24.9%	↓ 10- 14.9%	↓ 5- 9.9%	↓ 0- 4.9%	↑ 0- 4.9%	↑ 5- 9.9%	↑ 10- 14.9%	↑ 15- 24.9%	↑ 25- 49.9 %	↑ 50% +
<b>“Points”</b>	-5	-4	-3	-2	-1	0	0	1	2	3	4	5

# Trend: Example

## Asthma ED Rate

### Values

- 2016 CHNA: 32
- County: 47.3

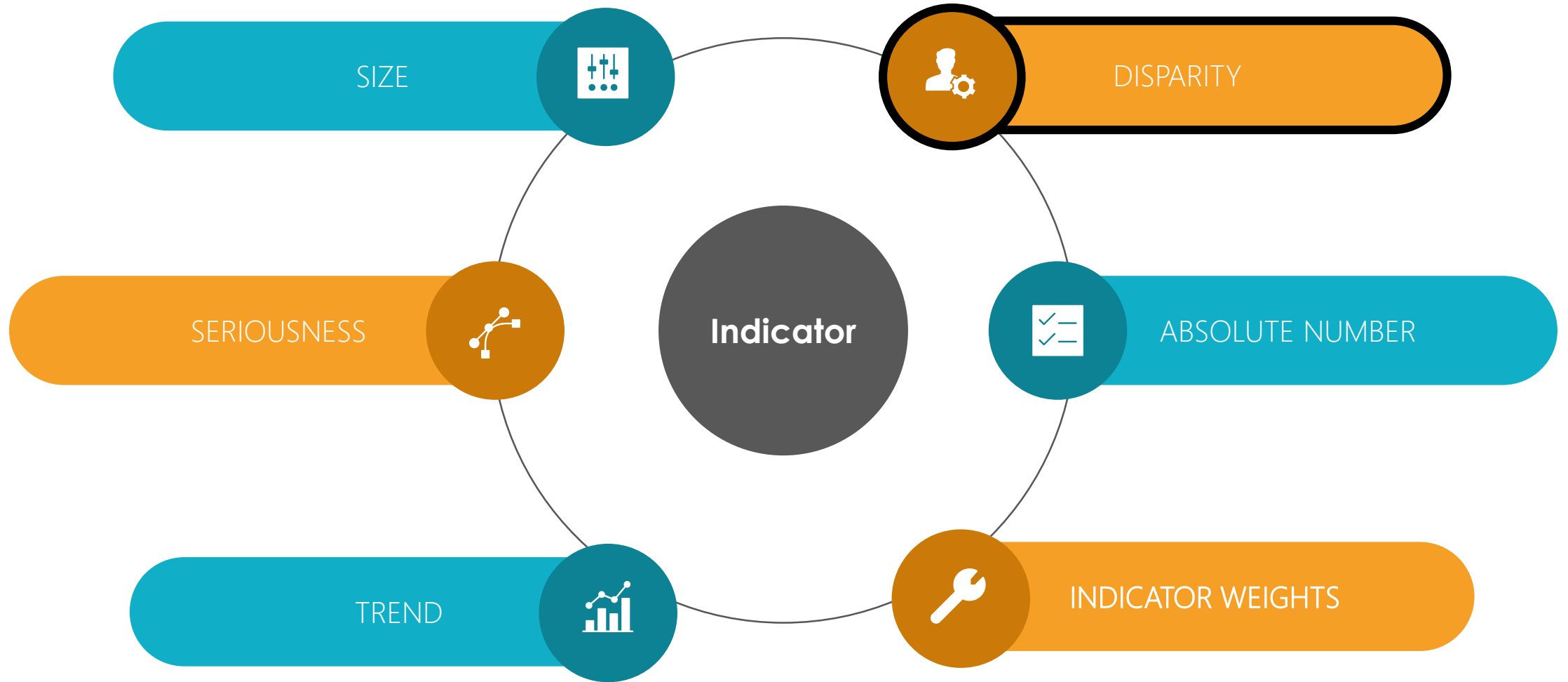
### Calculation

- $\left(\frac{47.3-32}{32}\right)*100=48\%$

### Points

- 48% increase in rate since 2016 CHNA
- POINTS: 2

# Ranking Categories





# Variable: Disparity

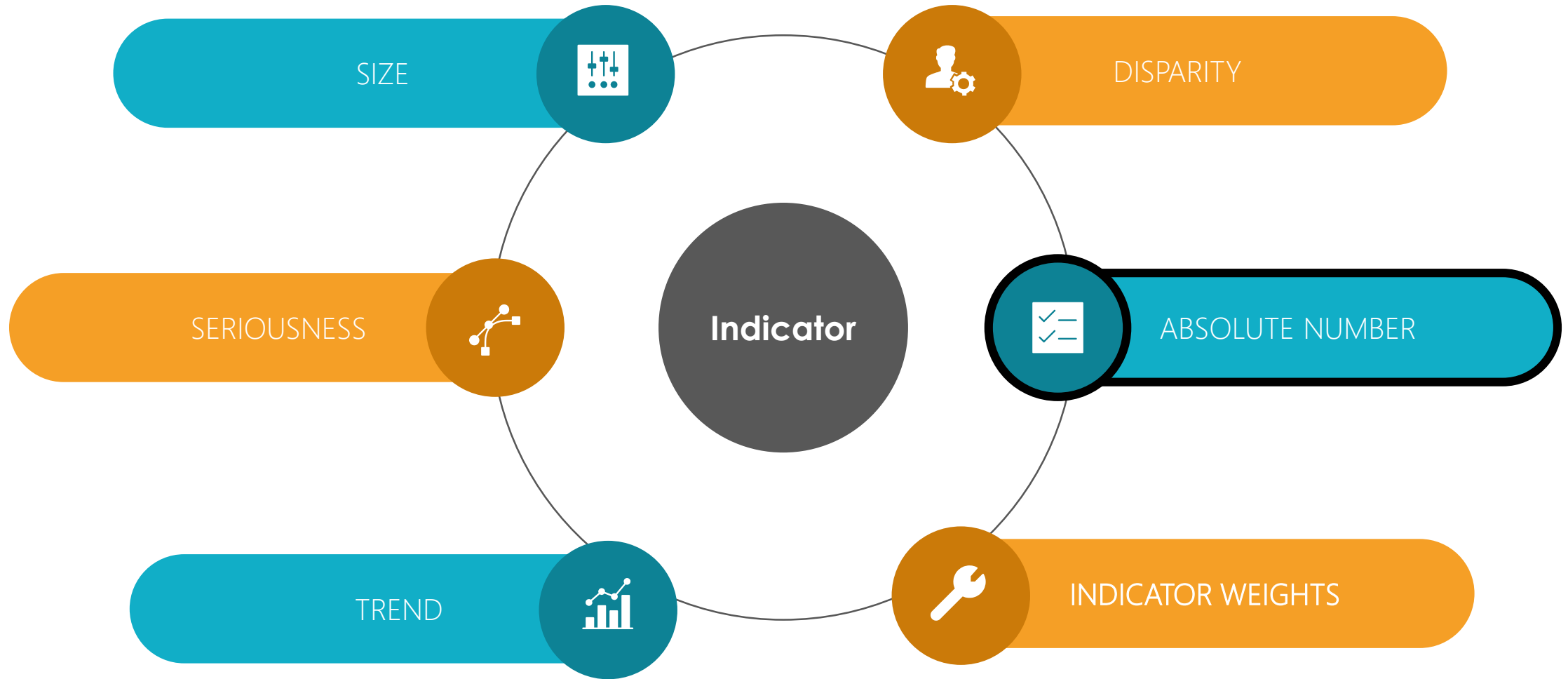
Summarizes disparities across groups within a population.

Index of Disparity	Point Value
25 – 49.9	2
50 – 74.5	3
75+	4

Index of Disparity--Average of the absolute difference between rates for specific groups within a population and the overall population rate, divided by the rate for the overall population

$$\frac{\text{average of difference of subgroup rates and total population rate}}{\text{total population rate}}$$

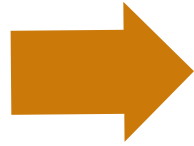
# Ranking Categories



# • Variable: Absolute Number •

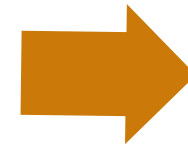
2016 Indicator Variable

- Absolute Number



Ranked for each individual county

- **All** indicator\* absolute numbers ranked, smallest - largest

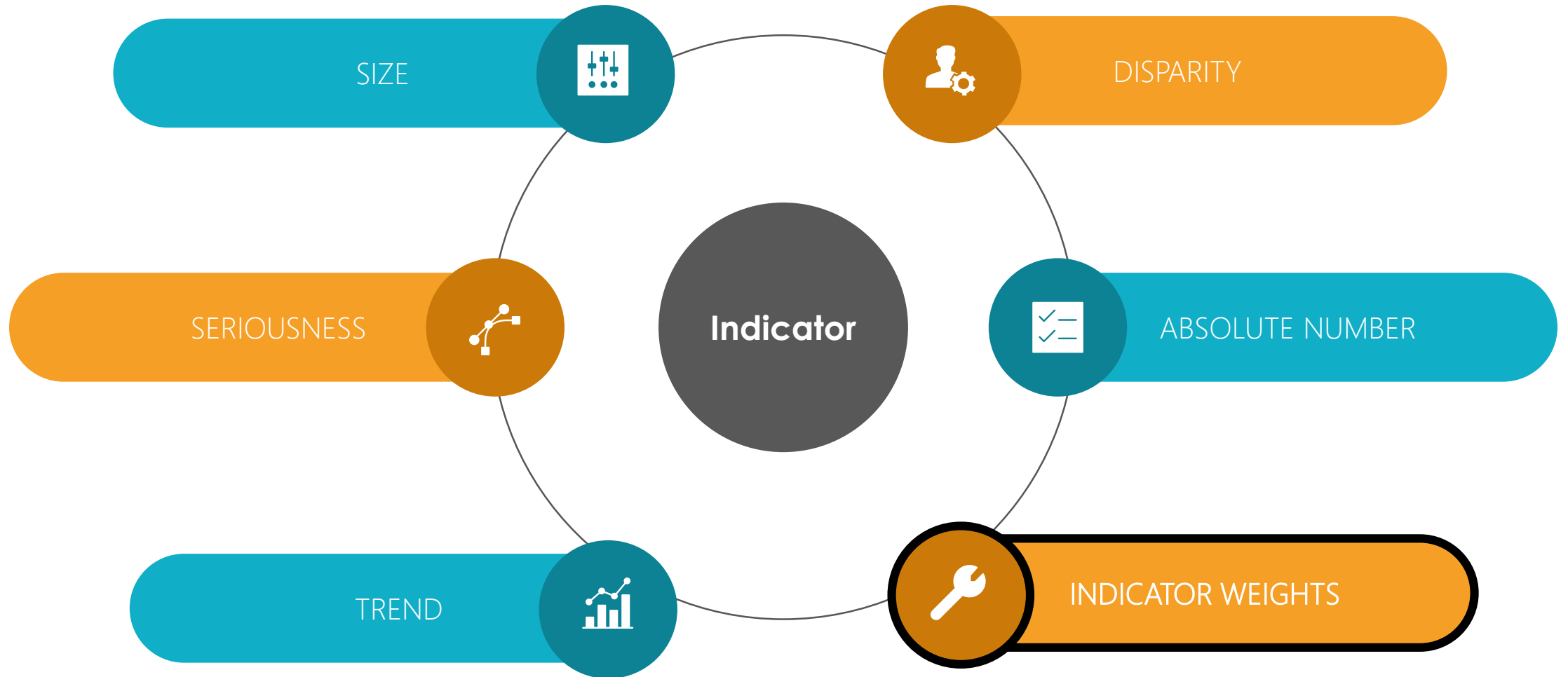


Quintiles: Scores

Quintile	Score
1	1
2	2
3	3
4	4
5	5

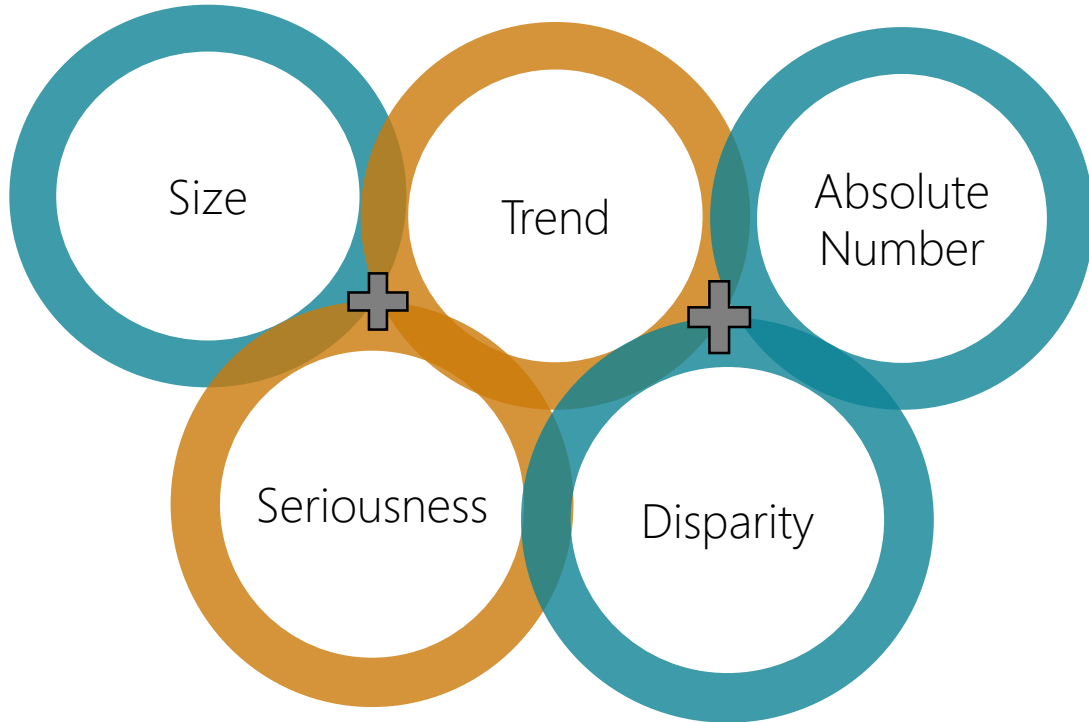
\* **Except for:** % low income population with food access, % housing units with severe problems, mammography screening, colorectal cancer screening, 2 year old immunization rate, PHV immunization rate, Flu vaccination in 65+ years old, % early care, % later or no care, % unintended pregnancy of live births, % children in government sponsored programs with well child visits, % exclusive breastfeeding in hospital

# Ranking Categories



# Averaging Variables

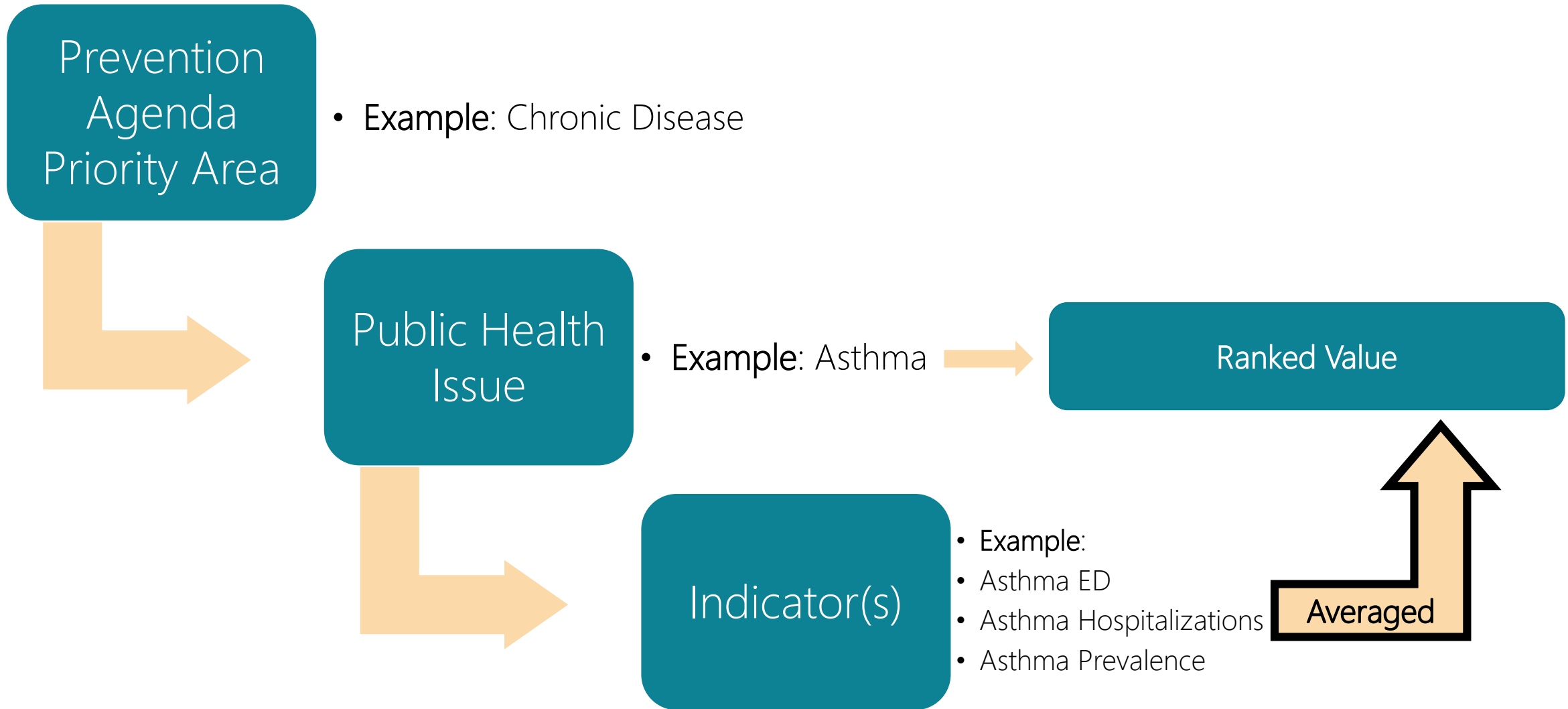
Indicator Variable  
Point Values



$$\div 5 =$$

Indicator Score

# Layers of Data

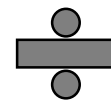


# Averaging Indicators

## Averaged Indicator Scores

Example:

Public Health Issue	Asthma	Assault
<ul style="list-style-type: none"> <li>Addition of all averaged Indicator Scores</li> </ul>	<ul style="list-style-type: none"> <li>Asthma ED Visits (2.7) +</li> <li>Asthma Hosp.(2.6) +</li> <li>Asthma Prevalence (2.5)</li> </ul>	<ul style="list-style-type: none"> <li>Assault Hosp. (3.0) +</li> <li>Assault ED Visits (2.8)</li> </ul>



Number of Indicators



Public Health Issue Value

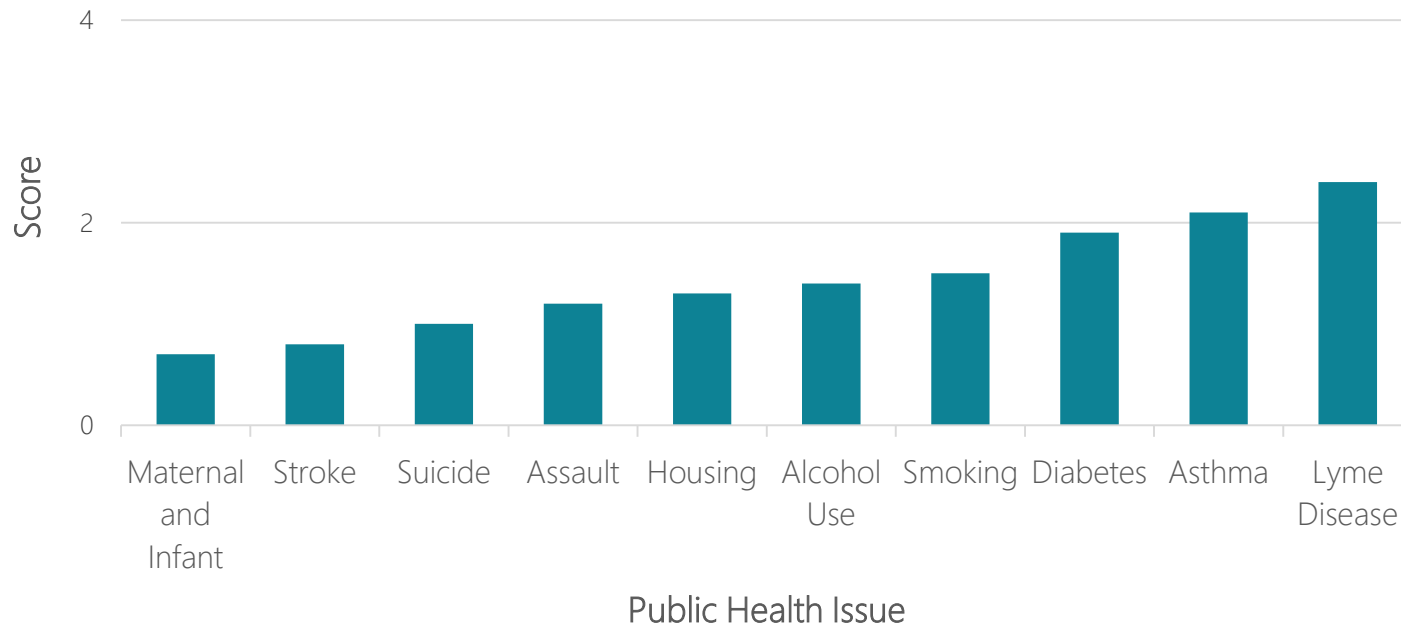
Example:

Public Health Issue	Value
Asthma	2.6
Assault	2.9

# Public Health Issues

## Example:

Ranked Public Health Issues



Categories of Size, Seriousness, Trend, Disparity and Absolute Number are scored per each indicator and averaged together for indicator score.



Indicator scores per Public Health Issue are averaged or weighted, where appropriate, to calculate Public Health Issue score.



Public Health Issue scores are compared to create overall ranking in order to inform selection of priorities per county.





**Thank You**