

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

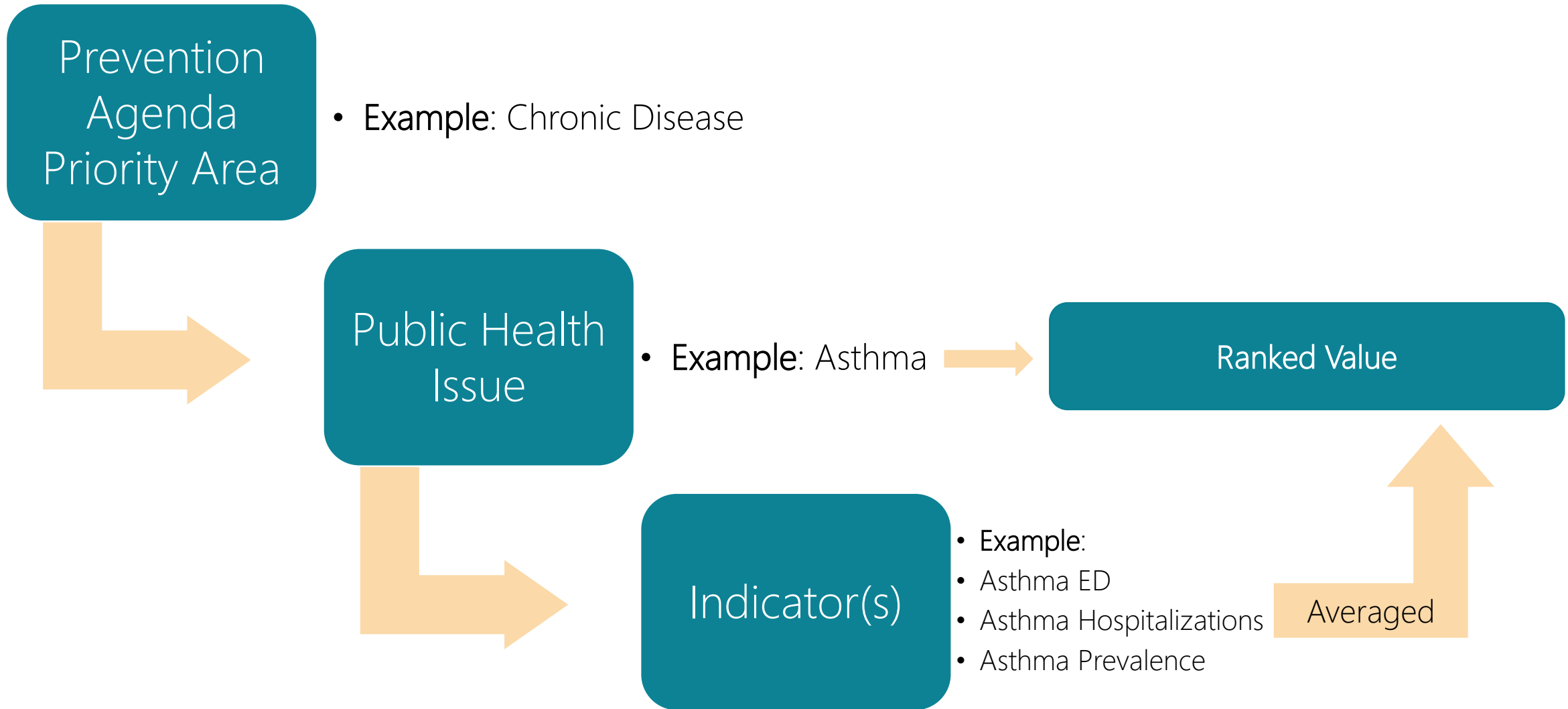
Ranked Public Health Issues are presented to stakeholders with pertinent data



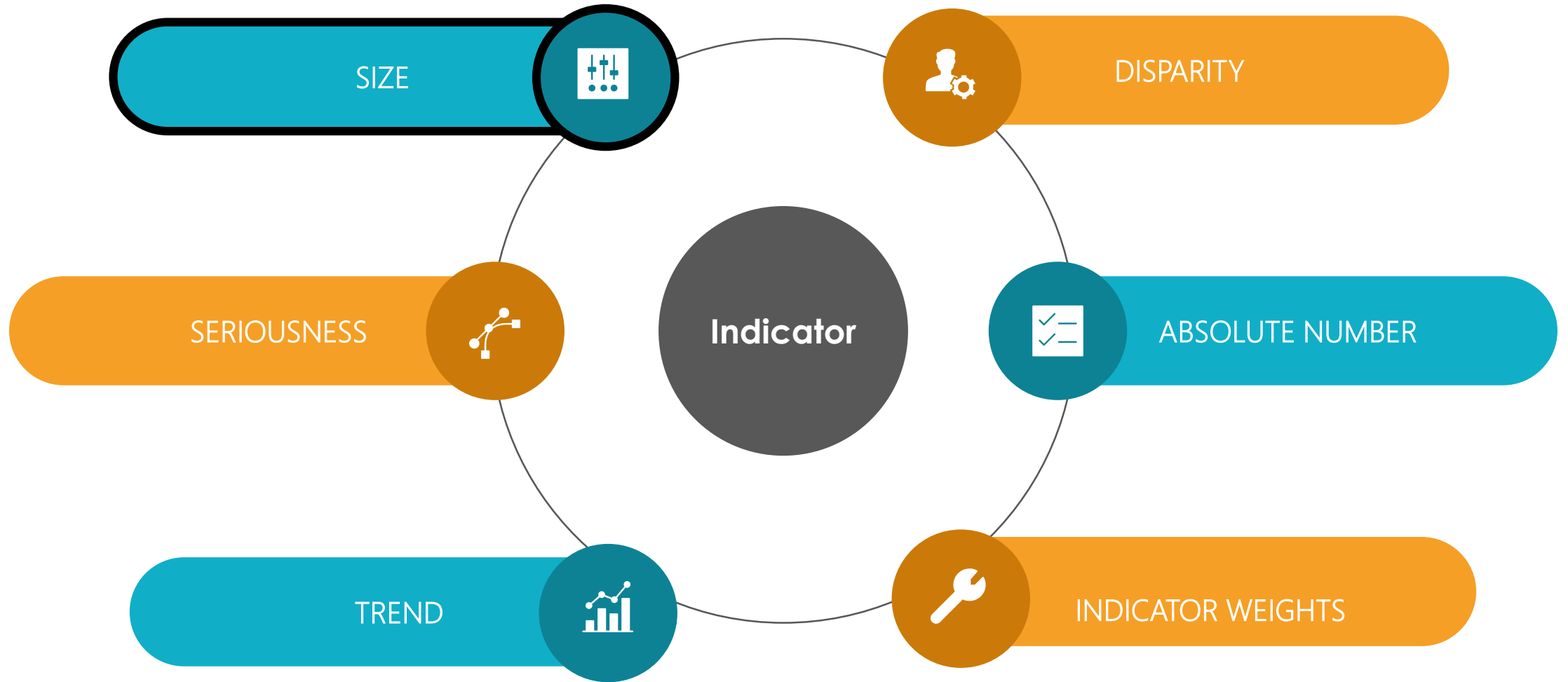
PRIORITY SELECTION

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

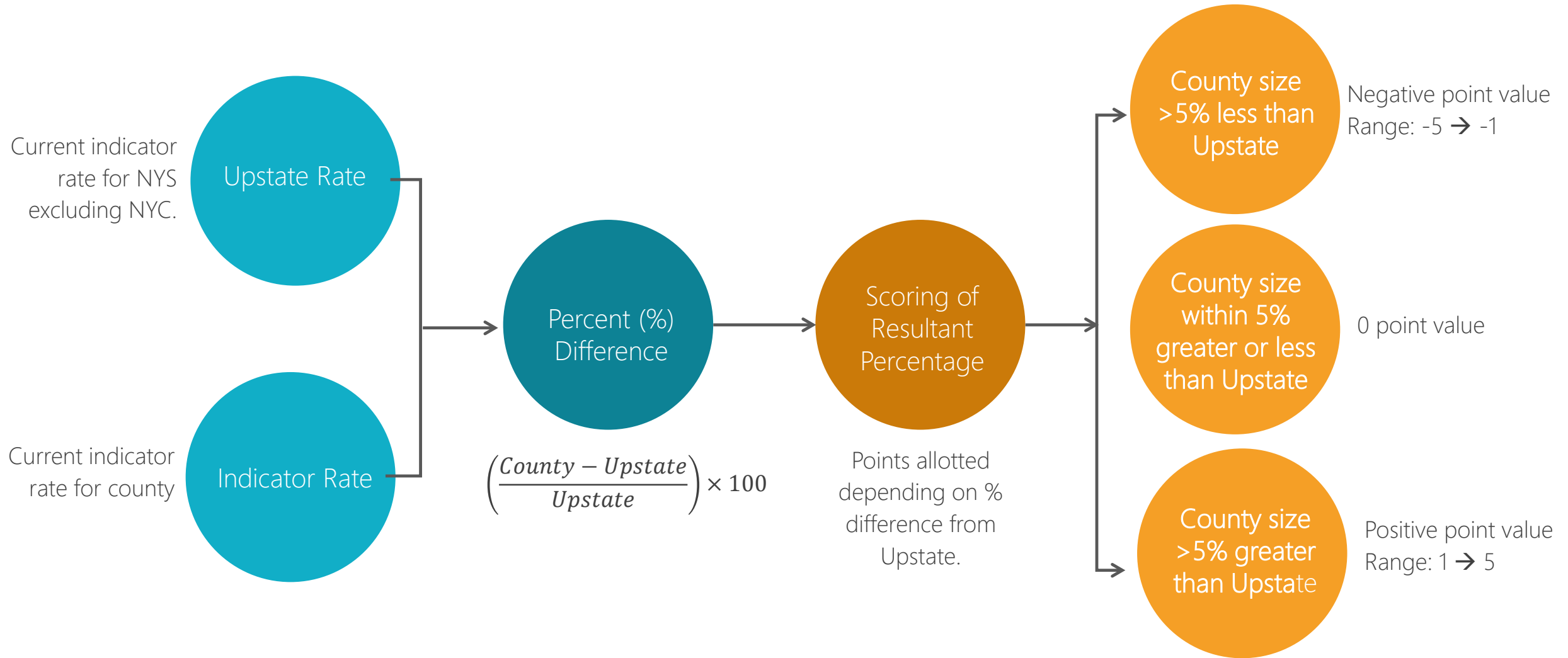
Layers of Data



Ranking Categories



Variable: Size(of rate)



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

Variable: Size(of rate)

| | | | | | | | | | | | | |
|------------------------------|---------|-------------|------------|------------|----------|----------|----------|----------|------------|------------|-------------|---------|
| % Higher than Upstate | ↓ 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% + |
| "Points" | -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

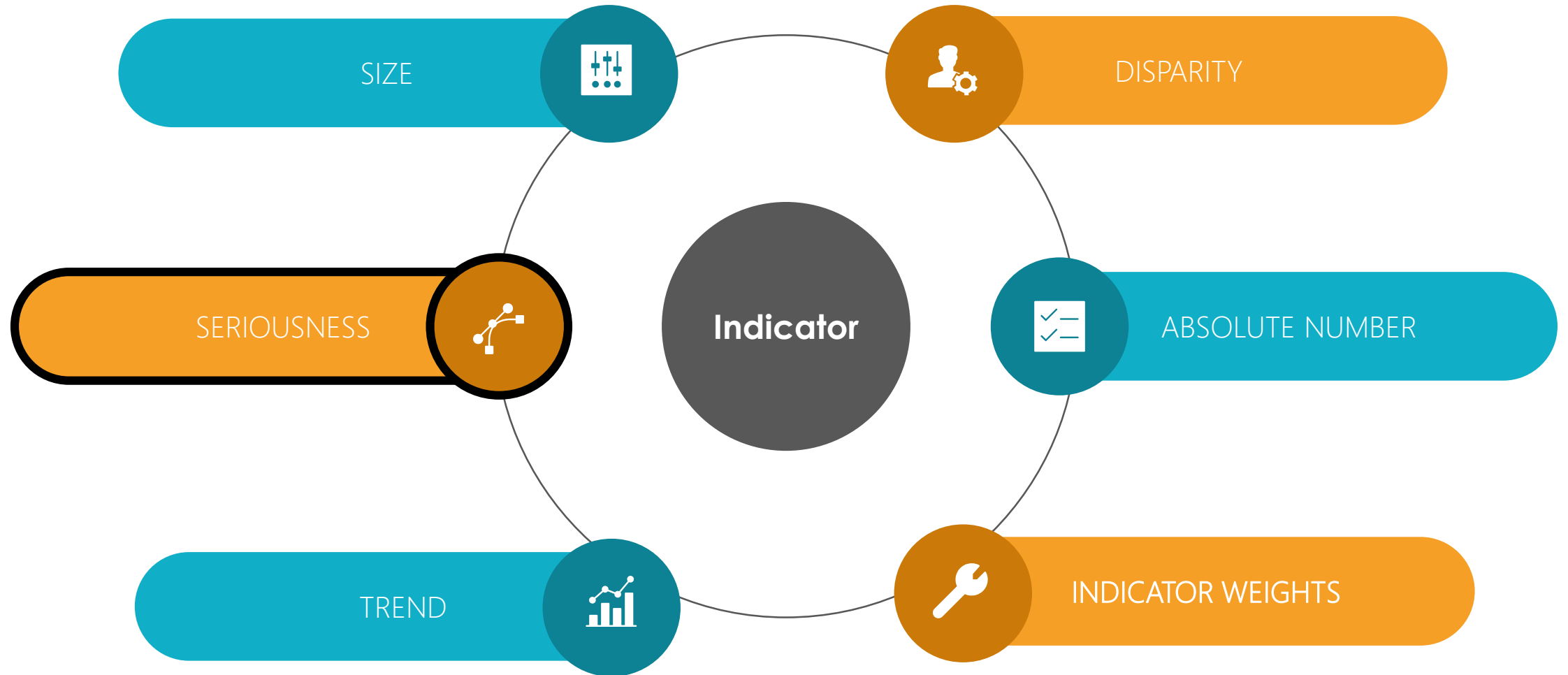
Calculation

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

Points

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

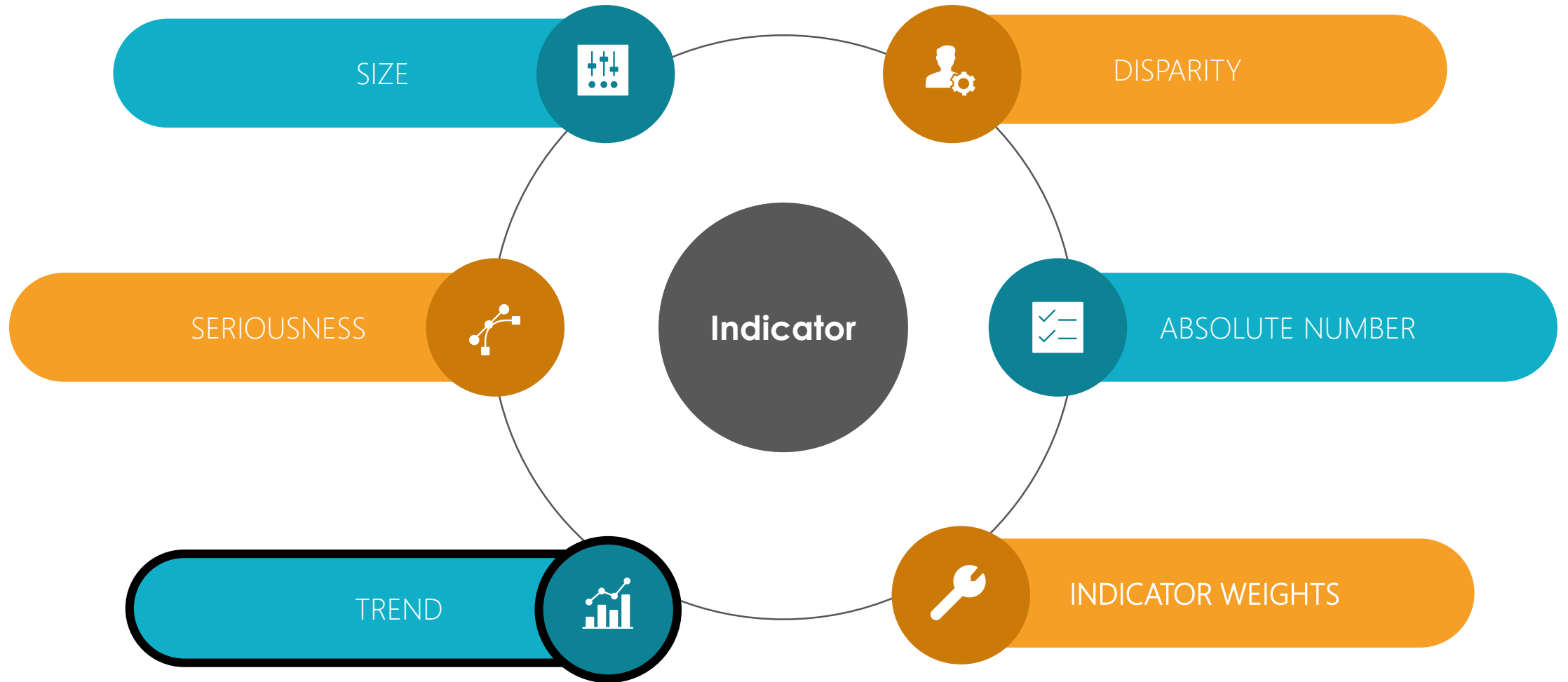
Ranking Categories



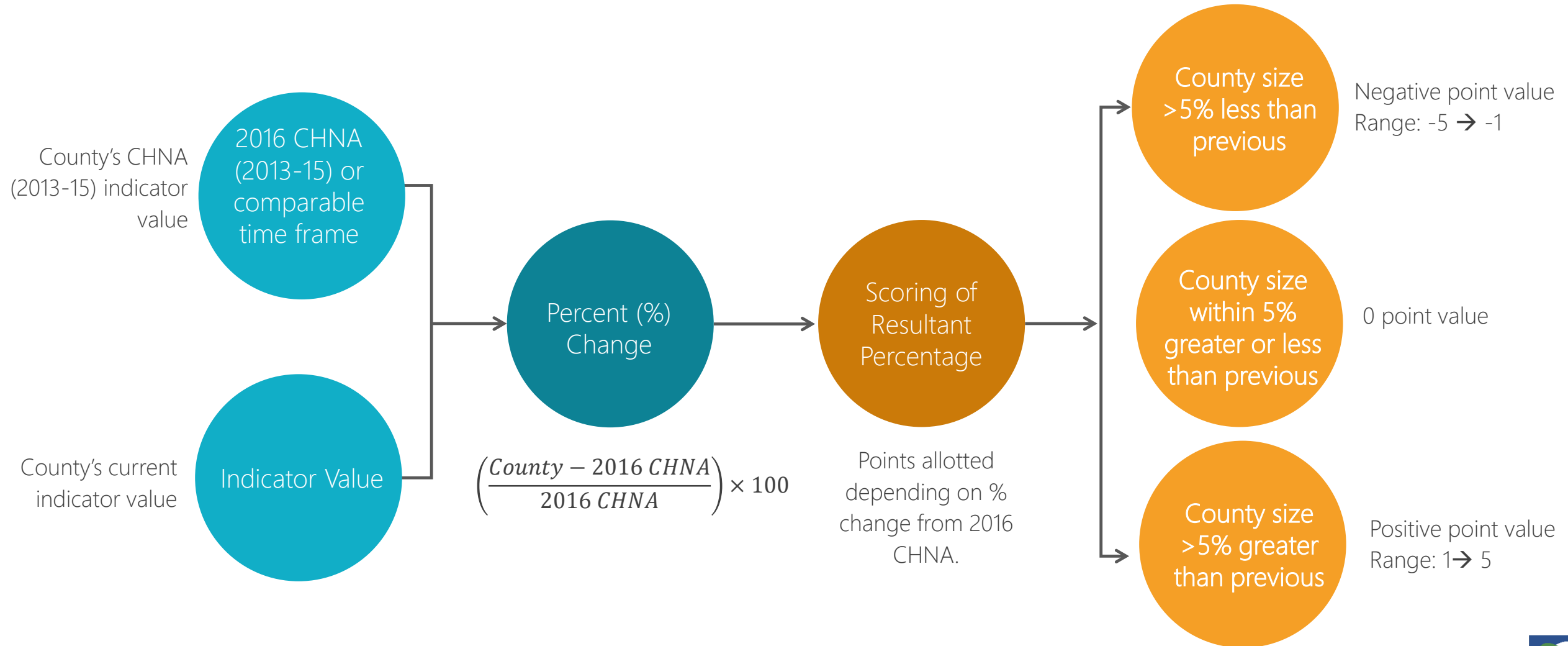
Variable: Seriousness

| 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

| | | | | | | | | | | | | |
|-----------------|---------|-----------------|----------------|----------------|--------------|--------------|--------------|--------------|----------------|----------------|-----------------|---------|
| % Change | ↓ 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% + |
| “Points” | -5 | -4 | -3 | -2 | -1 | 0 | 0 | 1 | 2 | 3 | 4 | 5 |

Trend: Example

Asthma ED Rate

Values

- 2016 CHNA: 32
- County: 47.3

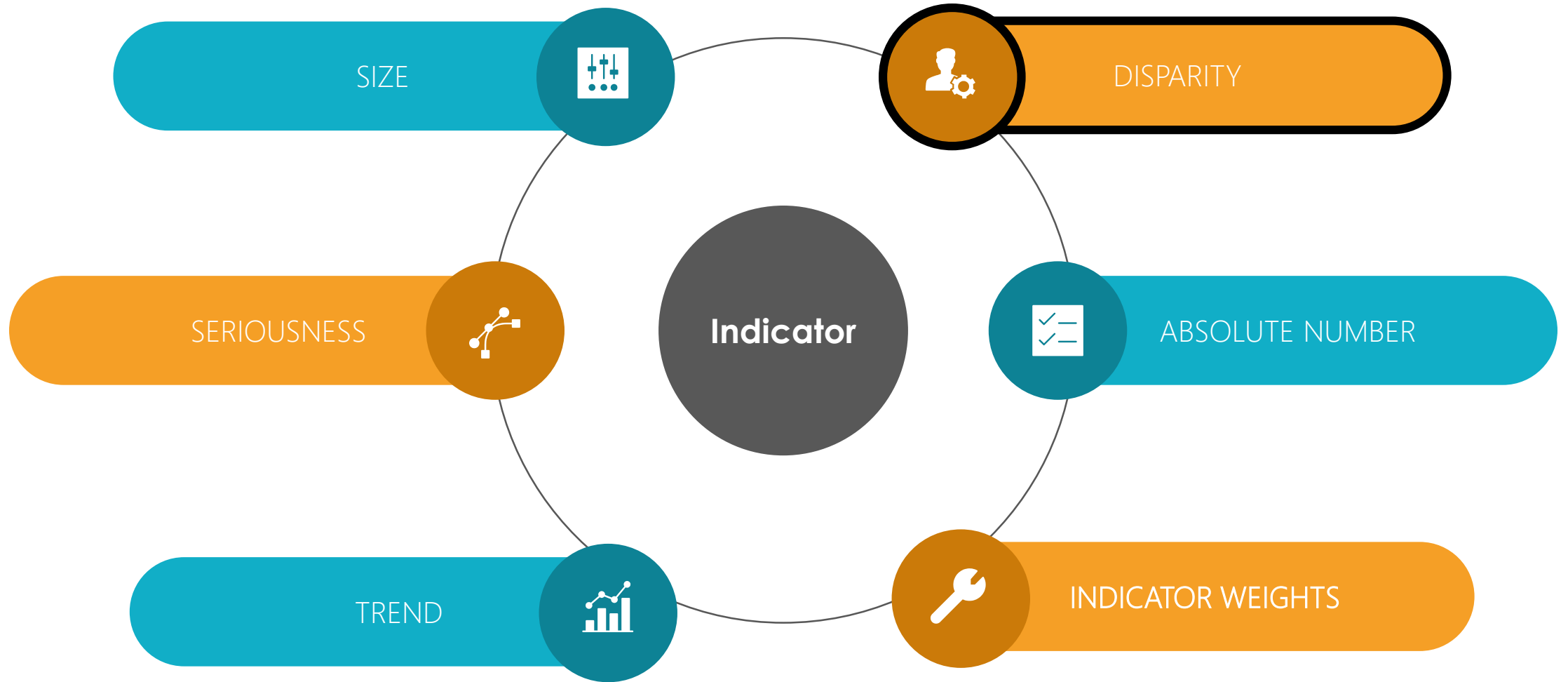
Calculation

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

Points

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

Ranking Categories



Variable: Disparity

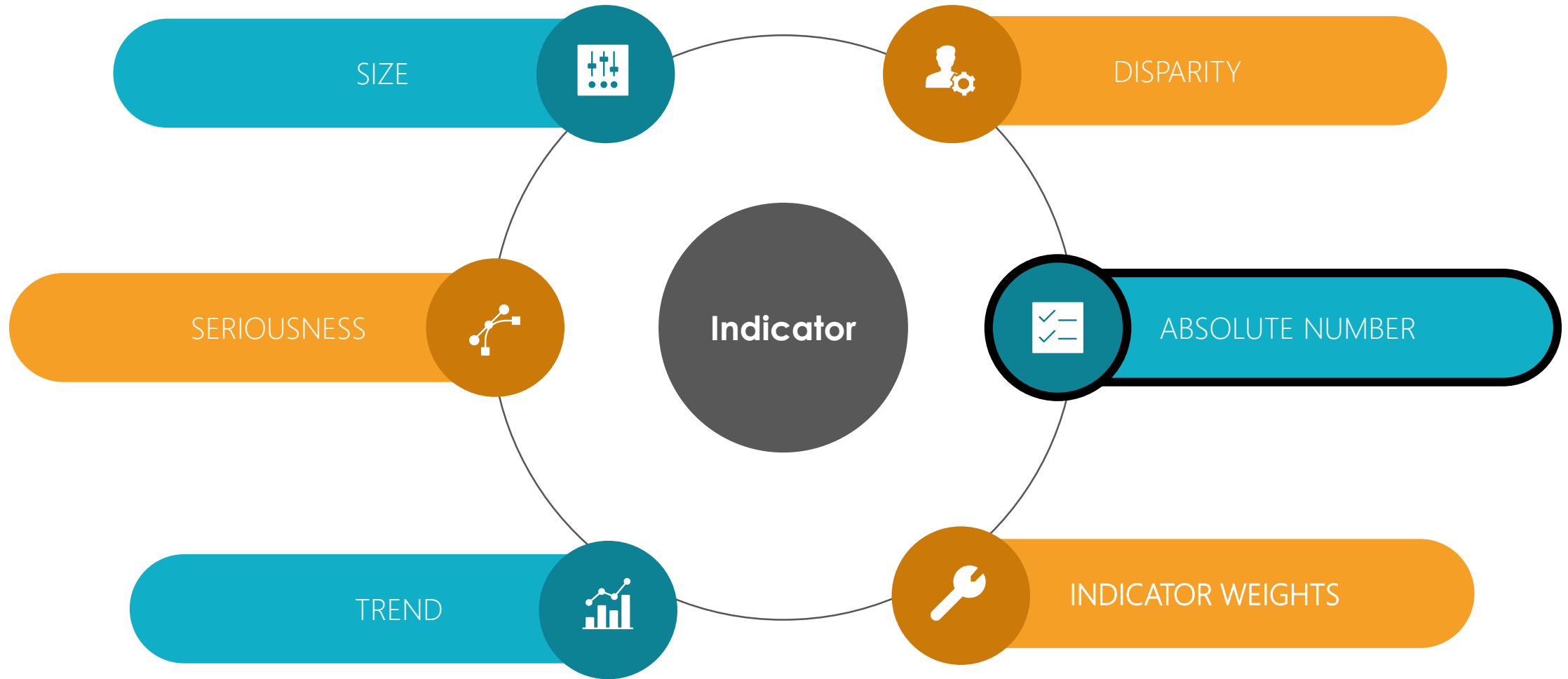
Summarizes disparities across groups within a population.

| 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

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

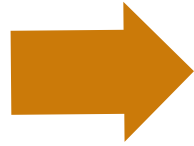
Ranking Categories



• Variable: Absolute Number •

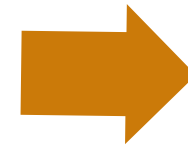
2016 Indicator Variable

- Absolute Number



Ranked for each individual county

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

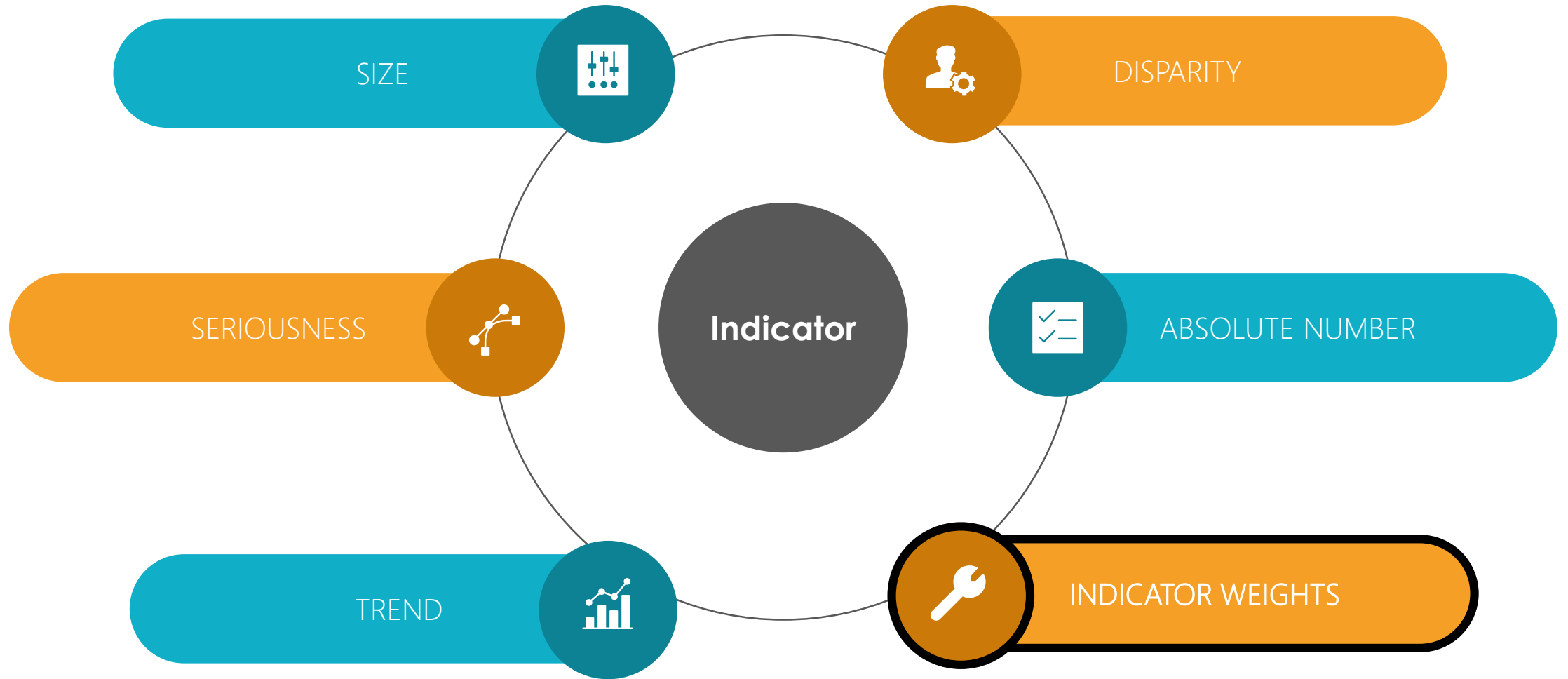


Quintiles: Scores

| Quintile | Score |
|----------|-------|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |

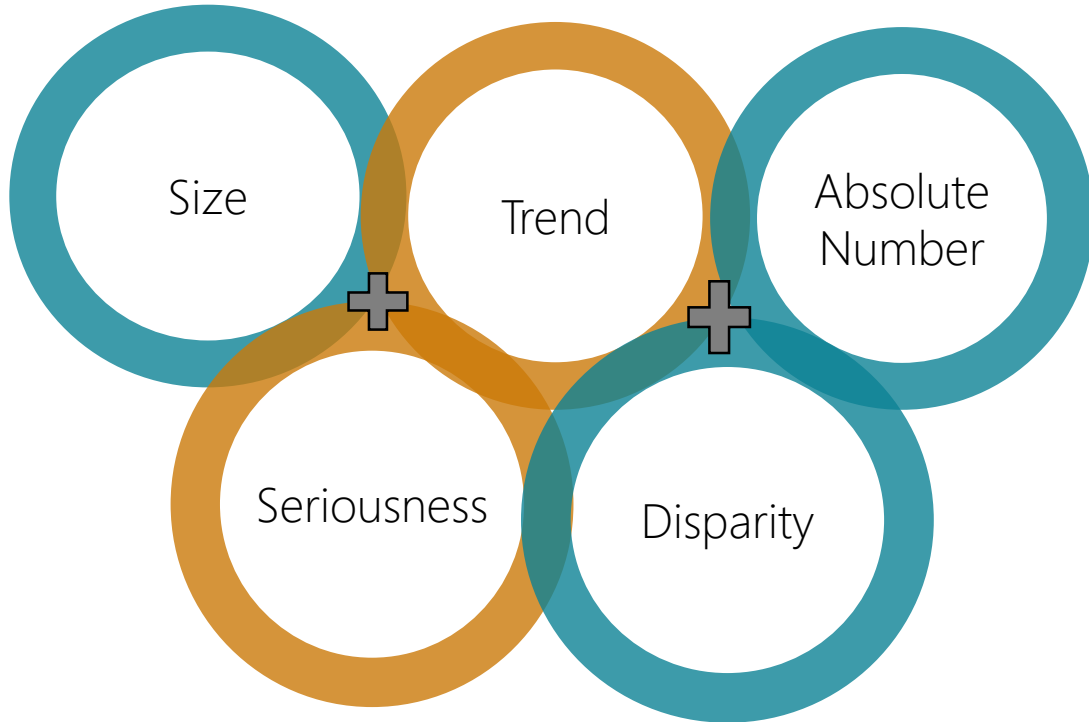
* **Except for:** % low income population with food access, % housing units with severe problems, mammography screening, colorectal cancer screening, 2 year old immunization rate, PHV immunization rate, Flu vaccination in 65+ years old, % early care, % later or no care, % unintended pregnancy of live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

Ranking Categories



Averaging Variables

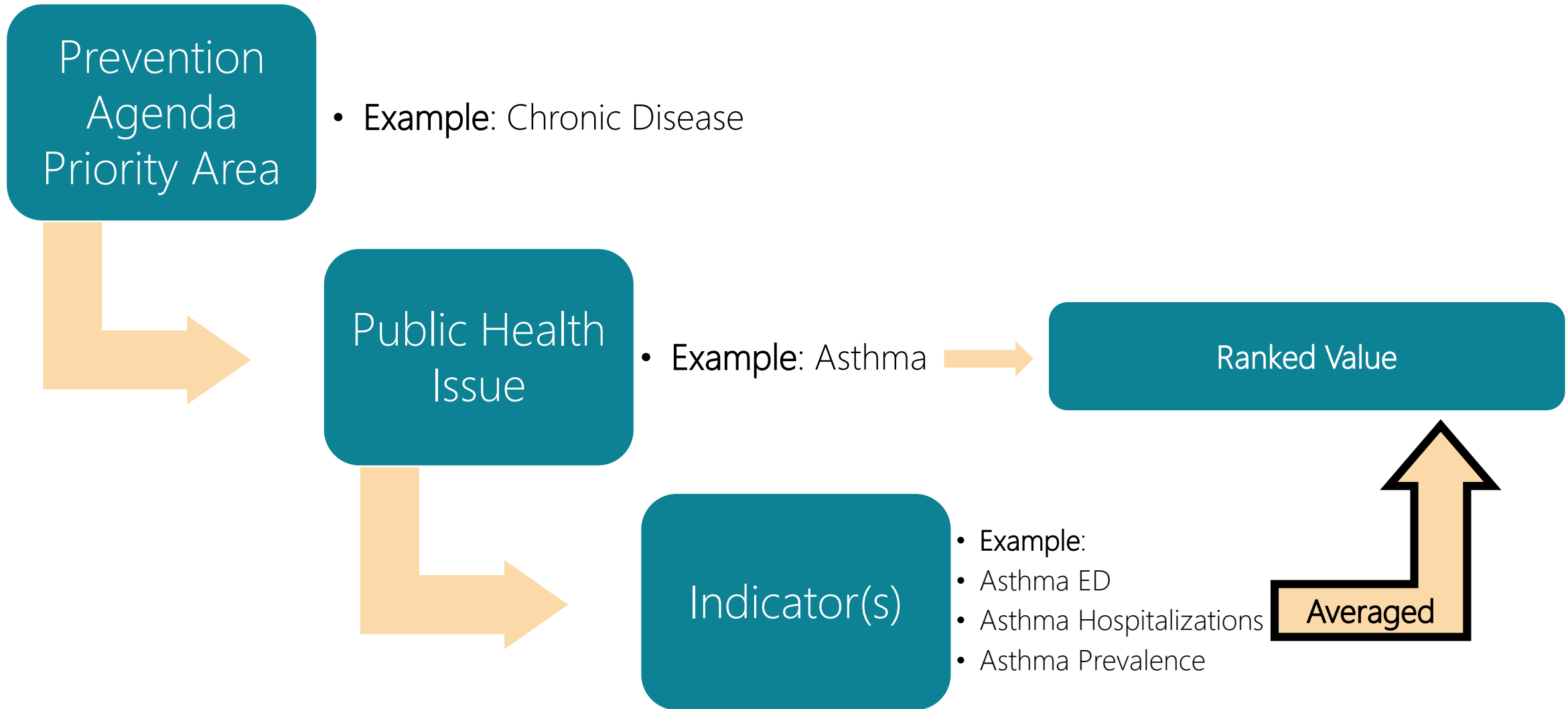
Indicator Variable
Point Values



$$\div 5 =$$

Indicator Score

Layers of Data

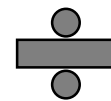


Averaging Indicators

Averaged Indicator Scores

Example:

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



Number of Indicators



Public Health Issue Value

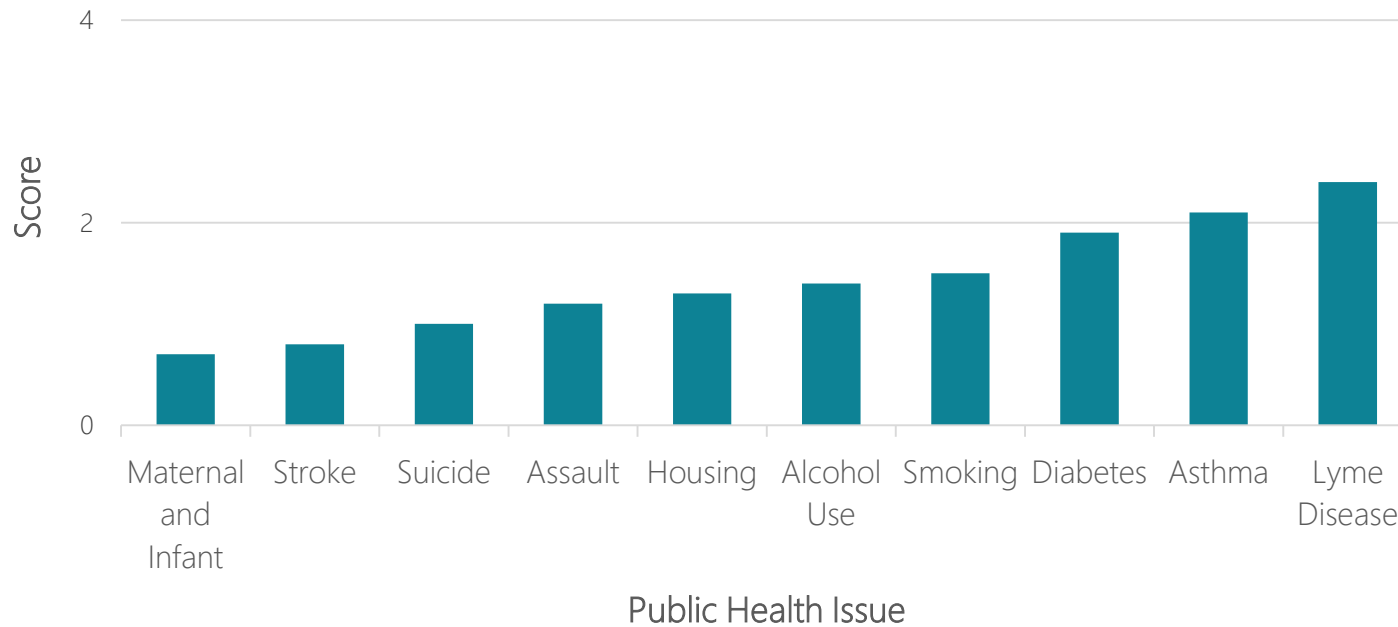
Example:

| 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