

Root Cause Analysis Toolkit

Equity, Prevention, and Systems Thinking

December 2022

Health equity is achieved when every person has the opportunity to "attain their full health potential" and no one is "disadvantaged from achieving this potential because of social position or other socially determined circumstances." –CDC 2022



This toolkit is designed to support TDH's mission "To protect, promote and improve the health and prosperity of people in Tennessee". We acknowledge that systemic and historic inequities contribute to the current state of many health issues facing our communities today. These exercises intentionally center equity as a lens for systems change in order to improve health for all Tennesseans.



What is a Root Cause?

• A root cause is the core issue– the highest-level cause that sets in motion the entire cause-and-effect reaction that ultimately leads to the problem(s).

 When addressing health, root causes are often indirect and systemic in nature. Ex.) Education, policy, employment opportunities, etc.



What is a Root Cause Analysis Exercise?

• An activity designed to help your team identify goals, opportunities, and health concerns facing the community.

 In addition to addressing public health issues from a "treatment" perspective, RCA is meant to help us think of ways to **prevent** illness and disease before it occurs.

"An apple a day keeps the doctor away."



The Purpose of the Exercise

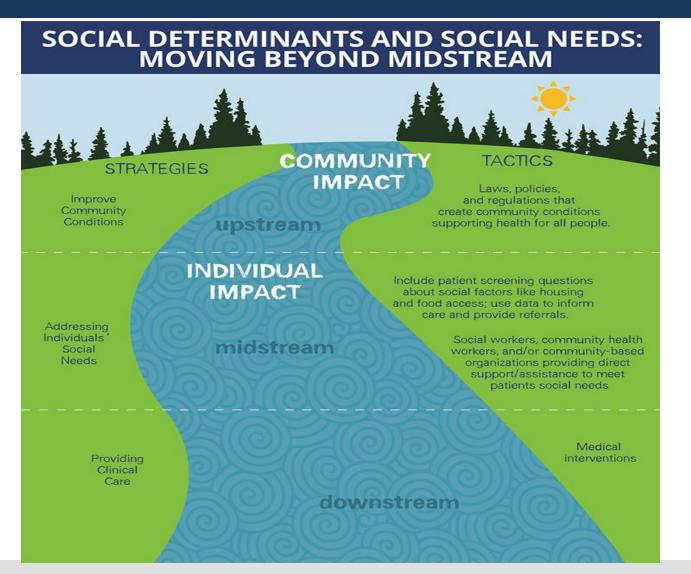
 The purpose of this exercise is to engage upstream and systems thinking to address health outcomes in our communities.

 This activity is designed to provide guidance for teams and to support **existing** workflows/projects.

"An ounce of prevention is worth a pound of cure."

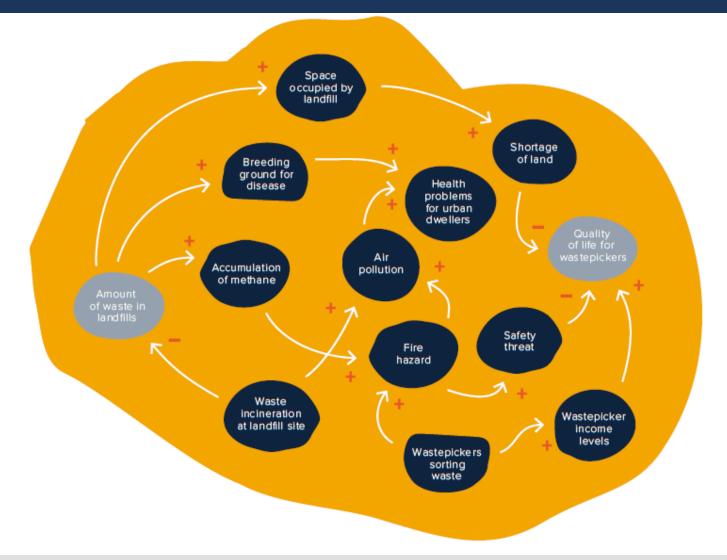


Upstream Thinking





Systems Thinking



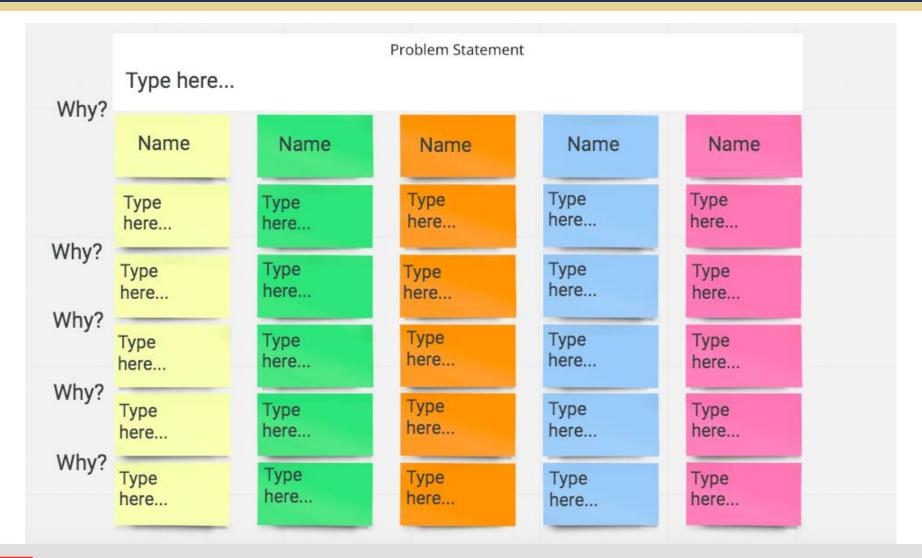


The Root Cause Analysis Process

- 1. The 5 Why's Exercise
 - Identify contributing factors and root causes of a health outcome in the community.
- 2. Fishbone Diagram
 - Understand systems that contribute to a health outcome, identify key partners, and operationalize goals.
- 3. Action Steps
 - A roadmap to move forward.

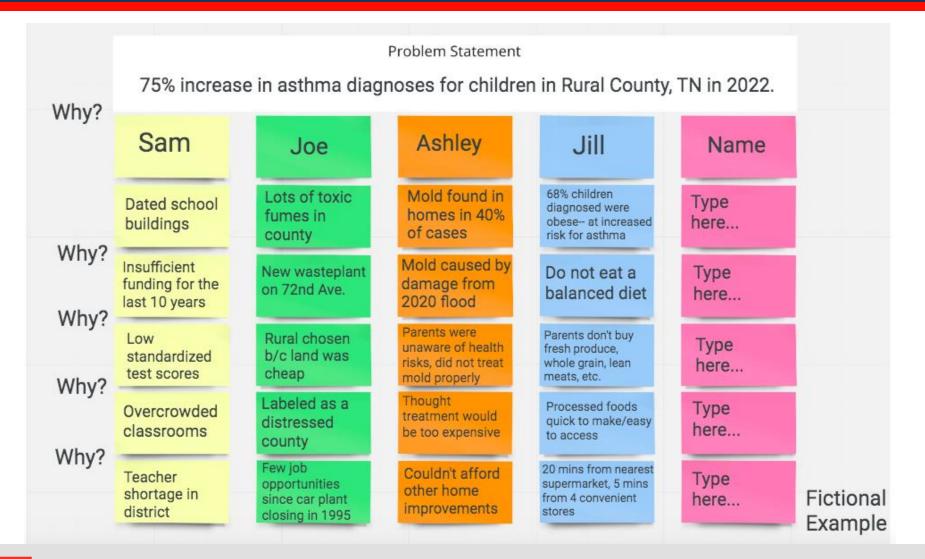


The 5 Why's





The 5 Why's



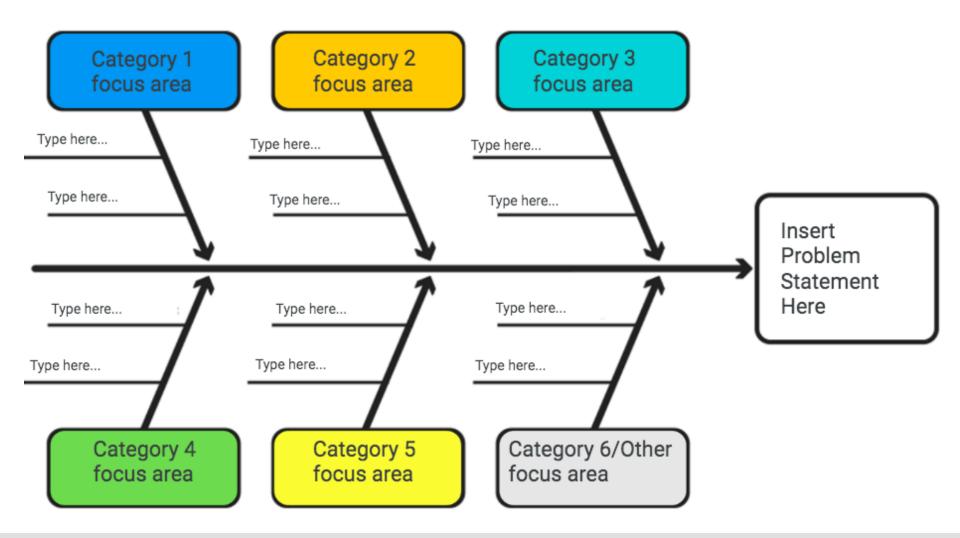
TN Department of

Category 1	Category 2	Category 3	Category 4	Category 5

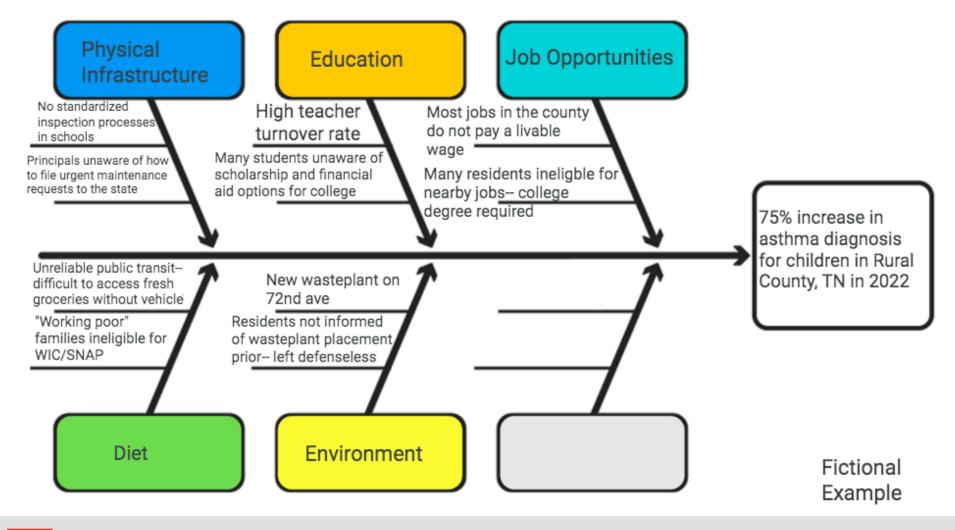


Category 1	Category 2	Category 3	Category 4	Category 5
Physical infrastructure	Education	Job Opportunities	Diet	Environment
Mold in homes- moisture retention around improperly sealed windows and doors Something in old school buildings causing flareups. What could this be?	Schools underfunded Overcrowded classrooms Teacher shortage less personal instruction School funding based on performance, not offered resources to increase performance Many parents are new homeowners unaware of how to identify maintence concerns	County heavily impoverished since Toyota factory shut down many jobs lost 43% of available full- time jobs in the county don't provide a livable wage 66% of parents work more than one job to make ends meet Many better paying jobs in the nearby Forrest county require a college degree only 18% of adults in the county have a degree beyond high school	Families in the east end of town live near dollar stores/convenience markets Frozen meals and pre- packaged snacks make up most of the diets on Logan County's east side Only 2 supermarkets in the county, both in the south (middle class) end of the county Many children only receive whole meals at school. Food available at home is mostly snack/junk food.	Wasteplant on 72nd Ave. Increased rates of sulfur dioxide and nitrogen oxides in the air (pollution) Especially visibile and smelly to residents in east Logan county highest number of asthma cases here Fictional Example



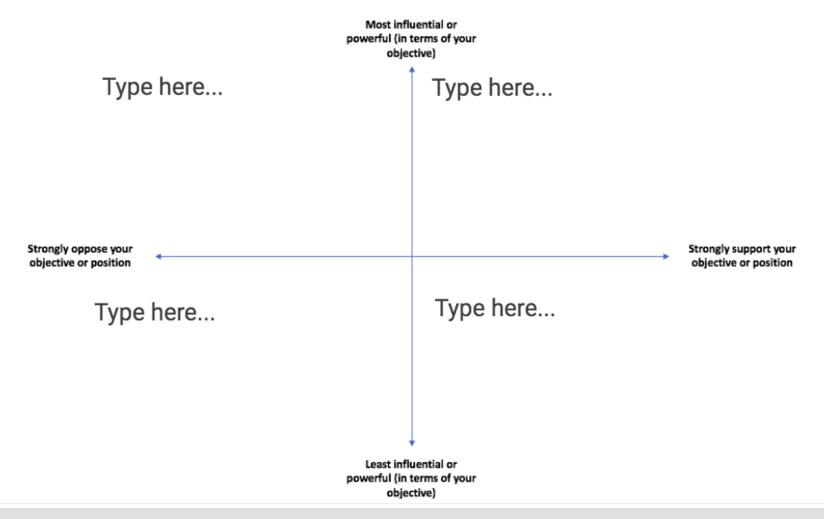








Optional Power Analysis





Optional Power Analysis

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Department of **Health**

Most influential or powerful (in terms of your objective)						
Mayor Johnson (not interested in improving public transit)	 Superintendent Greene (grant writing support, teacher retention plan, inspection standardization) 	TN ministries (free grocery distribution to families in need)				
	Principal Smith (maintenance request trainings, financing college education)					
Strongly oppose your objective or position		Strongly support your objective or position				
Ms. Howard- Manager at Eastside Dollar General Store (Not interested in grocery stores opening on the east end b/c it would reduce sales and	Environment N					
her scheduled hours)	(air quality cor	,				
	ast influential or ful (in terms of your objective)	Fictional Example				





Link to Google Jamboard

Action Steps

- Guiding Questions
 - 1. How did this exercise provide a new perspective to the work you are already doing?
 - 2. How will you incorporate it?
 - 3. What remaining questions does your team have after completing this exercise?
 - 4. What are 1-3 action items your team can take following this exercise? What is the timeline?
 - 5. How will you ensure that your team centers equity as you move throughout this process?





Contact Info

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