

1 Problem

What	Problem(s)	Antibiotic-resistant infections
When	Date	Ongoing (report released September 16, 2013)
	Different, unusual, unique	Use of antibiotics single most important factor
Where	Geographic location	United States (problem worldwide)
	Task being performed	Bacteria, fungus growing resistant to drugs used for treatment

Impact to the Goals

Public Safety	Over 2 million people sickened each year*	Annualized Cost	Up to \$55 B
	Over 23,000 people killed each year*		
Employee Safety	Resistant strains on hands of providers		
Environmental	Spread of resistant strains of bacteria/ fungus		
Patient Services	Excess direct healthcare costs		up to \$20 B
Schedule/ Operations	Loss of productivity		up to \$35 B

Frequency: *Conservative assumptions, per CDC

ANTIBIOTIC RESISTANCE

Cause Map

Increase in resistant bacteria and fungus threatens public health

According to the CDC's recent report, "The use of antibiotics is the single most important factor leading to antibiotic resistance around the world."

"Antimicrobial resistance is one of our most serious health threats."

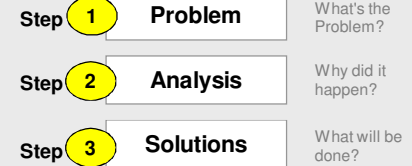
- Dr. Tom Frieden, MD, MPH,

Director, U.S. Centers for Disease Control and Prevention

Cause Mapping is a Root Cause Analysis method that captures basic cause-and-effect relationships supported with evidence.

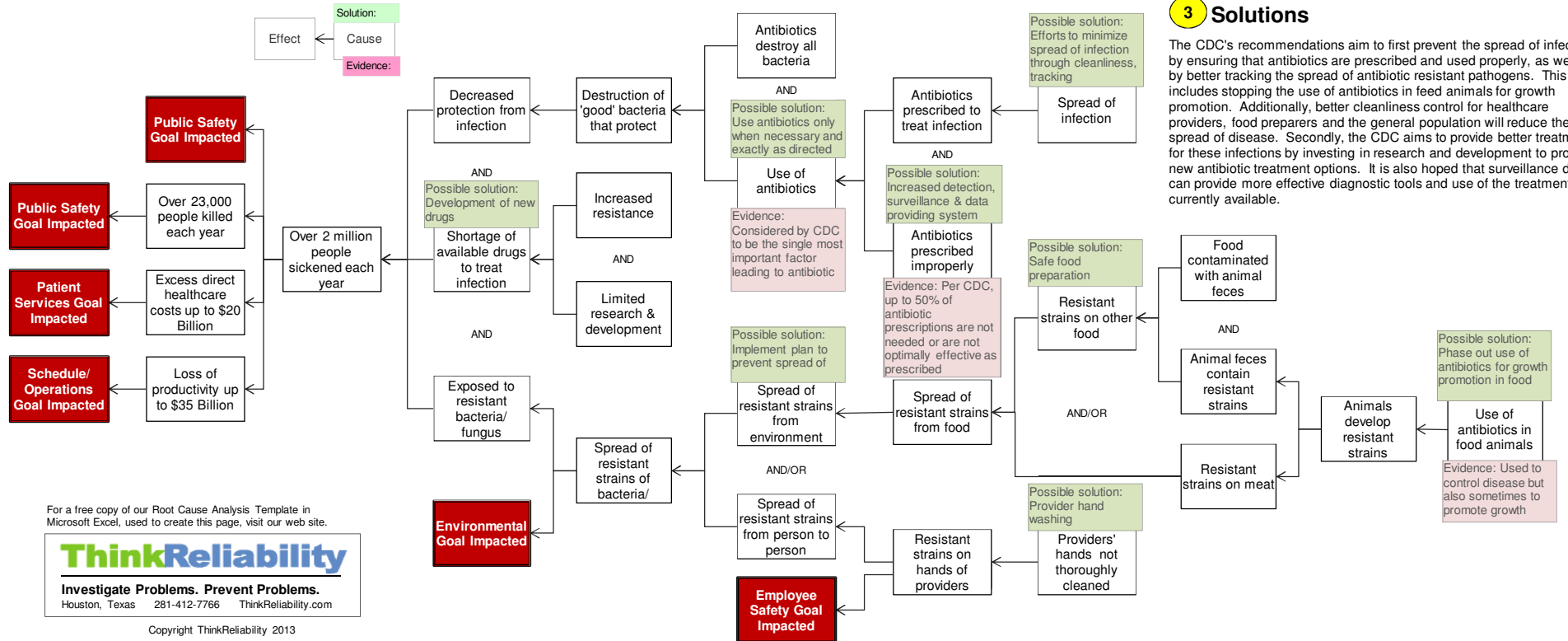
CAUSE MAPPING

Problem Solving • Incident Investigation • Root Cause Analysis



2 Analysis

More Detailed Cause Map - Add detail as information becomes available.



3 Solutions

The CDC's recommendations aim to first prevent the spread of infection by ensuring that antibiotics are prescribed and used properly, as well as by better tracking the spread of antibiotic resistant pathogens. This includes stopping the use of antibiotics in feed animals for growth promotion. Additionally, better cleanliness control for healthcare providers, food preparers and the general population will reduce the spread of disease. Secondly, the CDC aims to provide better treatment for these infections by investing in research and development to provide new antibiotic treatment options. It is also hoped that surveillance data can provide more effective diagnostic tools and use of the treatments currently available.

For a free copy of our Root Cause Analysis Template in Microsoft Excel, used to create this page, visit our web site.

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