

# 1 Problem

<b>What</b>	Problem(s)	911 calls unanswered, software glitch
<b>When</b>	Date	April 9, 2014
	Different, unusual, unique	More use of automated, Internet-powered infrastructure
<b>Where</b>	Facility, site	81 911 call dispatch centers
	Unit, area, equipment	Automated call routing systems
	Task being performed	Answering 911 calls

<b>Impact to the Goals</b>	
<b>Safety</b>	Potential for injuries and deaths
<b>Environmental</b>	N/A
<b>Customer Service</b>	>6000 911 calls unanswered
<b>Regulatory</b>	N/A
<b>Production/ Schedule</b>	>6000 911 calls unanswered
<b>Property/ Equipment</b>	Potential for preventable property damage
<b>Labor/ Time</b>	Investigation and corrective actions required

"On April 9 and 10, 2014, thousands of people had to call 911. But instead of reaching help at the end of the line, they got silence... The source of this multistate 911 outage? Not a natural disaster. Not a power failure. It was a software glitch. A software glitch that put the lives and safety of 11 million Americans at risk. "

-statement by Commission Jessica Rosenworcel

# 911 CALLS UNANSWERED

Cause Map

## Software Error Causes 911 Outage

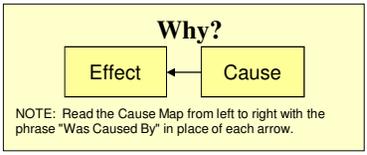
On April 9, 2014, more than 6,000 calls to 911 went unanswered. The problem was spread across seven states and went on for six hours. The Federal Communications Commission investigated this 911 outage and has put a study detailing what went wrong on that day in April. The short answer is that a software error led to the unanswered calls, but there is nearly always more to the story than a single "root cause".

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

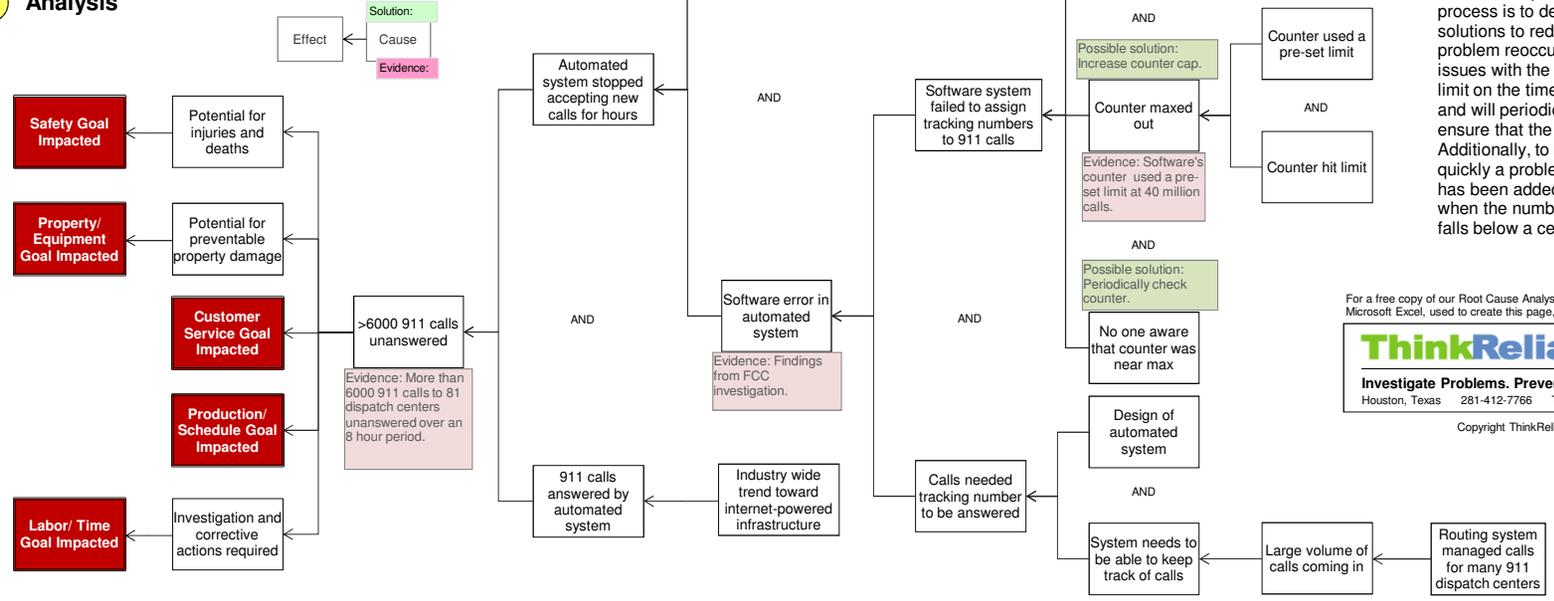
### CAUSE MAPPING

Problem Solving • Incident Investigation • Root Cause Analysis

<b>Step 1</b>	<b>Problem</b>	What's the Problem?
<b>Step 2</b>	<b>Analysis</b>	Why did it happen?
<b>Step 3</b>	<b>Solutions</b>	What will be done?



# 2 Analysis



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

## ThinkReliability

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