

# MARK 14 TORPEDOES

Cause Map

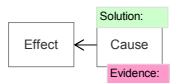
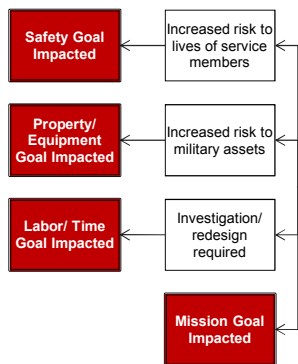
## 1 Problem

<b>What</b>	Problem(s)	Mark 14 torpedoes didn't function as designed
<b>When</b>	Date	1941 through 1943
	Different, unusual, unique	New design of torpedo
<b>Where</b>	Facility, site	US Navy ships
	Unit, area, equipment	Mark 14 torpedoes
	Task being performed	Hitting enemy ships

### Impact to the Goals

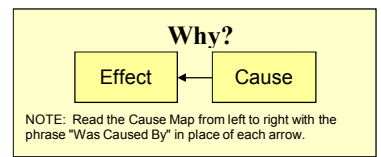
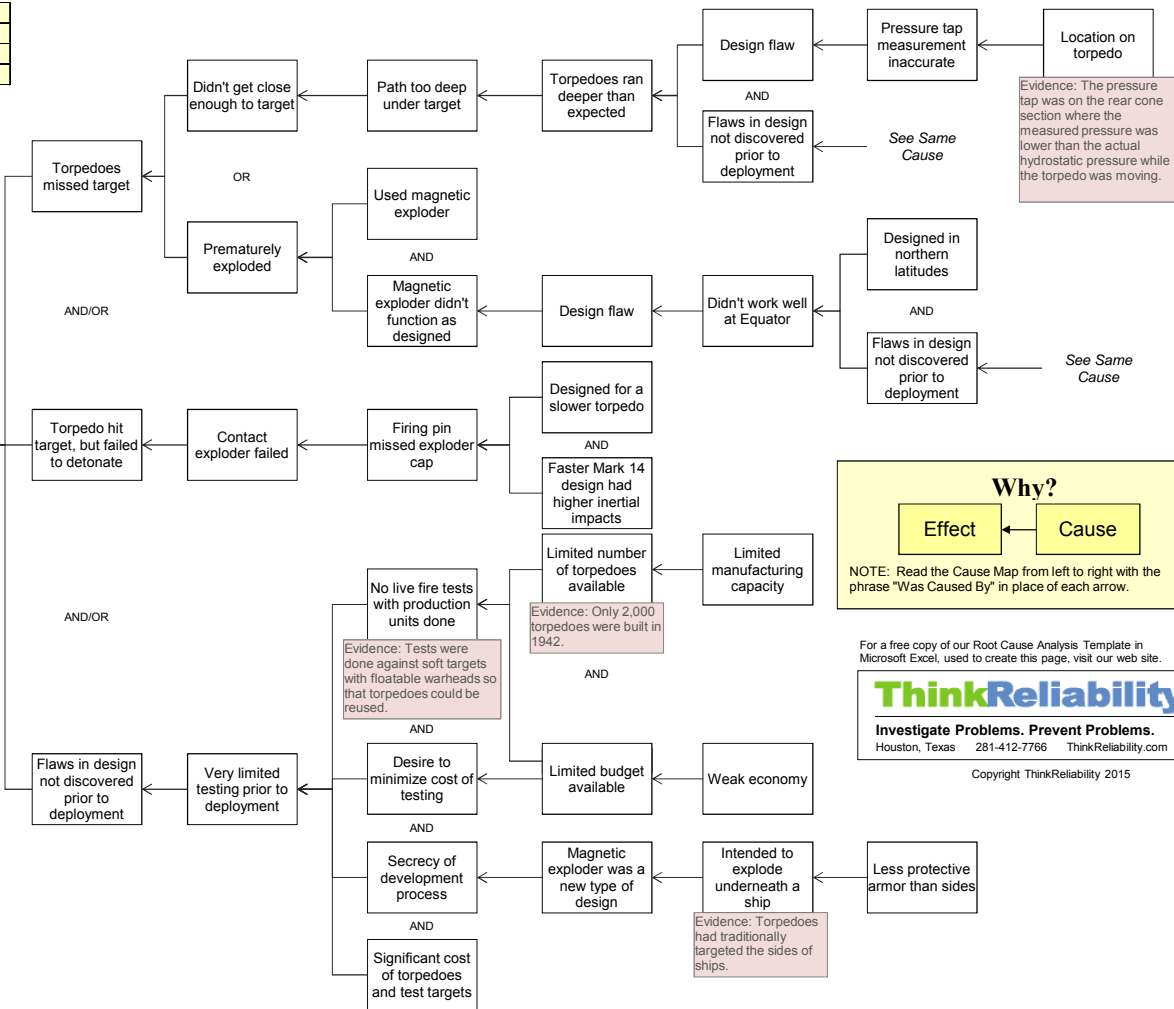
<b>Safety</b>	Increased risk to lives of service members
<b>Mission</b>	Torpedoes failed to function as designed
<b>Property/ Equipment</b>	Increased risk to military assets
<b>Labor/ Time</b>	Investigation/redesign required

## 2 Analysis



**Lack of Testing Leads to Multiple Issues**

The Mark 14 torpedo design included brand new, carefully guarded technology and was developed during a time of economic austerity following the Great Depression. The desire to minimize costs and to protect the new exploder design led to such a limited test program that not a single live-fire test with a production model was done prior to deploying the Mark 14.



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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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

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