

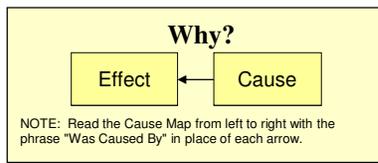
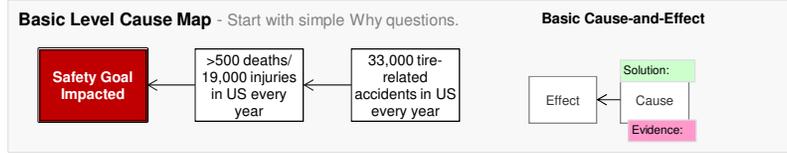
# 1 Problem

<b>What</b>	Problem(s)	Tire failures, risk of tire-related accidents
<b>When</b>	Date	Special investigation report adopted 10/27/15
	Time	N/A
	Different, unusual, unique	Tire registration, recall ineffective
<b>Where</b>	Facility, site	US
	Unit, area, equipment	Passenger vehicle tires
	Task being performed	Registration, recall, upkeep

<b>Impact to the Goals</b>		
<b>Safety</b>	>500 deaths/ 19,000 injuries in US every year	
<b>Environmental</b>	?	
<b>Customer Service</b>	Inadequate understanding of tire safety	
<b>Regulatory</b>	Lack of tire registration	
<b>Production/ Schedule</b>	Low recall completion rate	
<b>Property/ Equipment</b>	Tires improperly maintained	
<b>Labor/ Time</b>	?	

Frequency ~33,000 tire-related crashes per year

# 2 Analysis



# 3 Solutions

No.	Action Item	Cause	Owner(s) (Names)
1	Develop better guidance for consumers related to tire aging & service life	Inadequate understanding of tire aging/ service life	NTSB, NHTSA, automotive & tire industry, safety groups
2	Develop tire-aging test, best practices	Poor tire maintenance/ aged tires	
3	Promote technology to reduce tire-related crashes	Tire-related accidents	
4	Include complete identification number on inboard and outboard sidewalls	Difficult to find tire identification number	NHTSA, tire manufacturers
5	Allow recall search by identification number as well as brand and modal	Confusing recall website	Tire manufacturers (Congress if necessary)
6	Improve recall process	Low recall completion rate	NHTSA with Congress/ tire industry
7	Update registration requirements/ standards	Lack of tire registration	

**NTSB Safety Alert for Drivers**

- Register new tires with the manufacturer
- Check your tire pressure at least once a month
- Inflate your tires to the pressures indicated in your vehicle owner's manual (not on the tire sidewall)
- When checking tire pressure, look for signs of damage
- Keep your spare tire properly inflated and check it monthly for problems
- Rotate, balance and align your tires in accordance with your vehicle owner's manual
- If you hear an unusual sound coming from a tire, slow down and have your tires checked immediately

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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# INEFFECTIVE TIRE RECALLS IMPACT PASSENGER VEHICLE SAFETY Cause Map

## Most drivers have a problem with at least one tire

Four vehicle accidents due to tire tread separation between February and May of 2014 took 12 lives and injured 42 more. Later that year the National Transportation Safety Board (NTSB) hosted a Passenger Vehicle Tire Safety Symposium to address areas of concern regarding passenger vehicle safety due to tire issues. A special investigation report, which was adopted October 27, 2015, provides a summary of the issues and industry-wide recommendations to improve passenger vehicle safety.

"Today's recommendations, if acted upon, hold the promise of saving some of the more than 500 lives lost to tire-related crashes every year. Better tire registration processes, more accessible tire-recall information, and ultimately better recall completion rates will be crucial to reducing tire-related crashes and deaths."  
- Christopher A. Hart, NTSB Chairman

