



# The Problems Today



Photo Source: Thinkstock and Wikimedia Commons

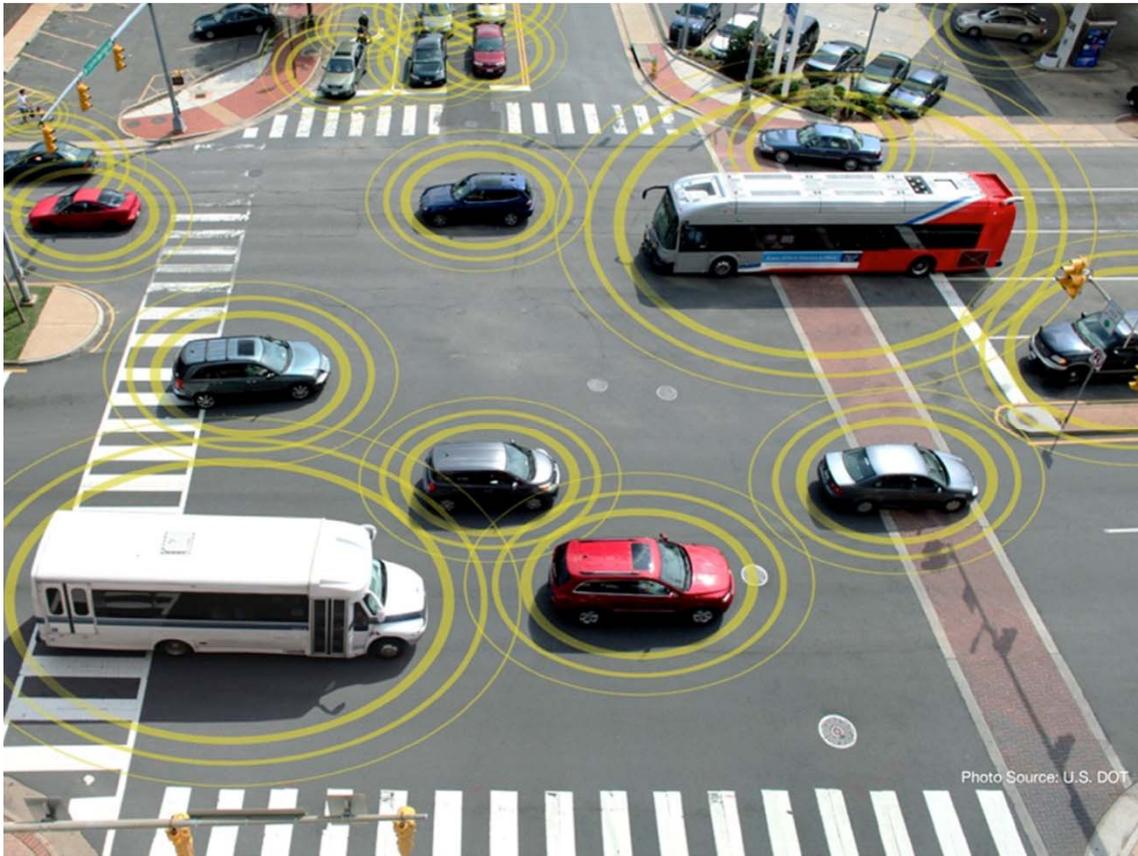
## Connected vehicles can help.

They use wireless communication between vehicles and infrastructure to help prevent crashes, make travel easier, and curb pollution.



Photo Source: Thinkstock

All vehicles, regardless of type, will communicate with each other using a wireless technology called Dedicated Short-Range Communications (DSRC).



Connected vehicles have the potential to address up to 81% of unimpaired crash scenarios.



Connected vehicles will provide drivers with warnings to help them avoid crashes.



Photo Source: iStock

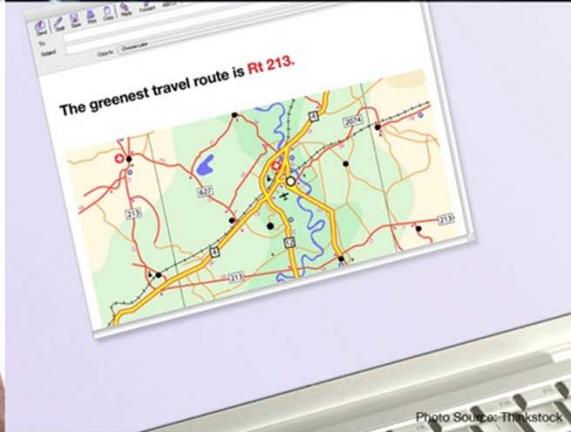


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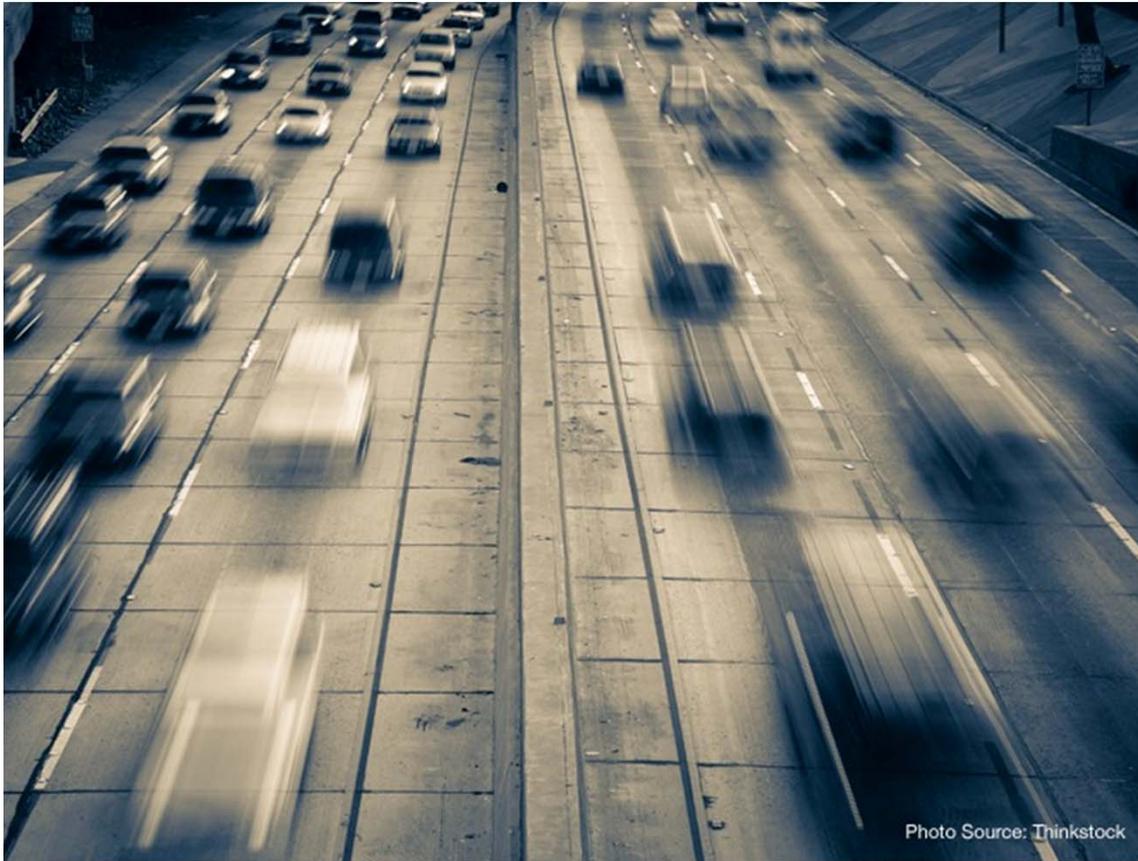
Trucks, transit, and emergency vehicles are connected vehicles too.



Connected vehicles will collect anonymous data that can be used to create new applications not in existence today.



Imagine if the cars in front of you could send you information about dangerous road conditions ahead, such as icy roads, fog, heavy rain, and snow.



# Intelligent Network Flow Optimization (INFLO)



Photo Source: Thinkstock

## Dynamic Speed Harmonization



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## Queue Warning

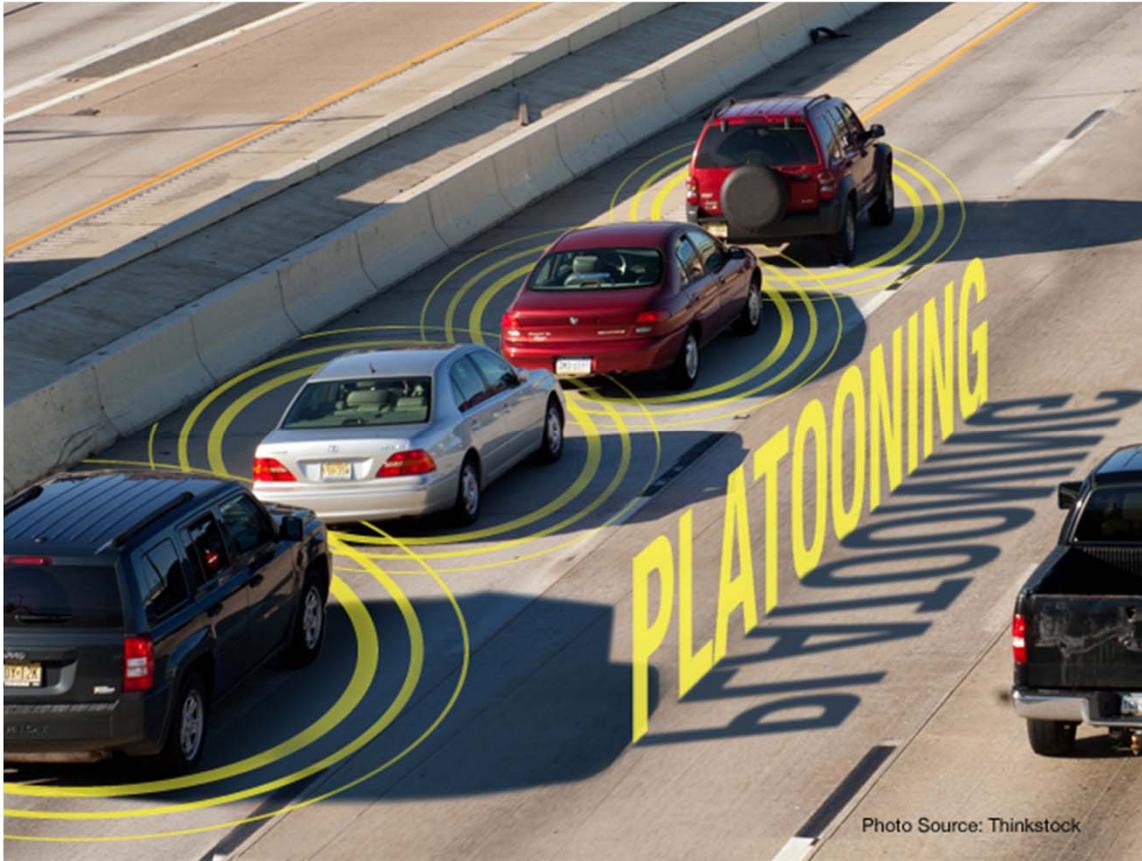


Photo Source: Thinkstock

## Cooperative Adaptive Cruise Control



Response, Emergency  
Staging and  
Communications,  
Uniform  
Management, and  
Evacuation  
(R.E.S.C.U.M.E.)



Photo Source: Thinkstock

# Incident Scene Pre-Arrival Staging Guidance for Emergency Responders (RESP-STG)



Photo Source: Thinkstock

## Mayday Relay



Photo Source: US DOT

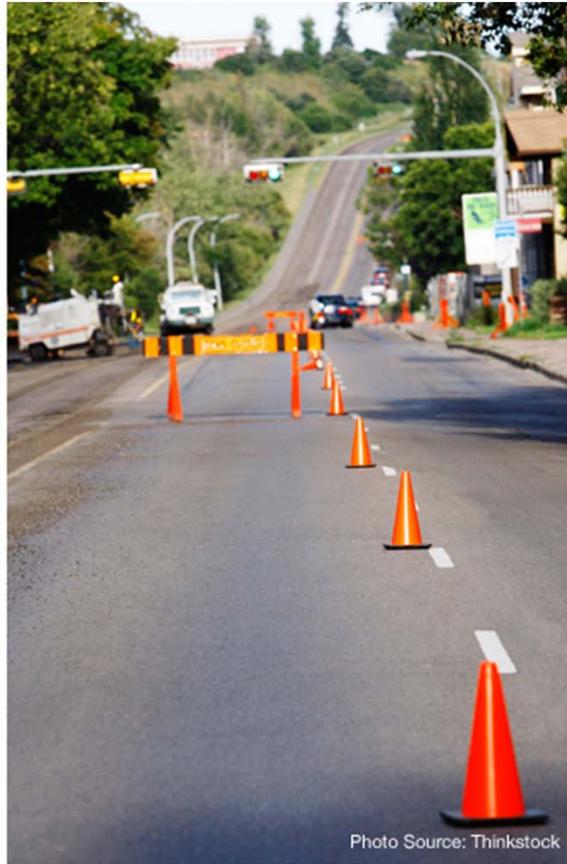
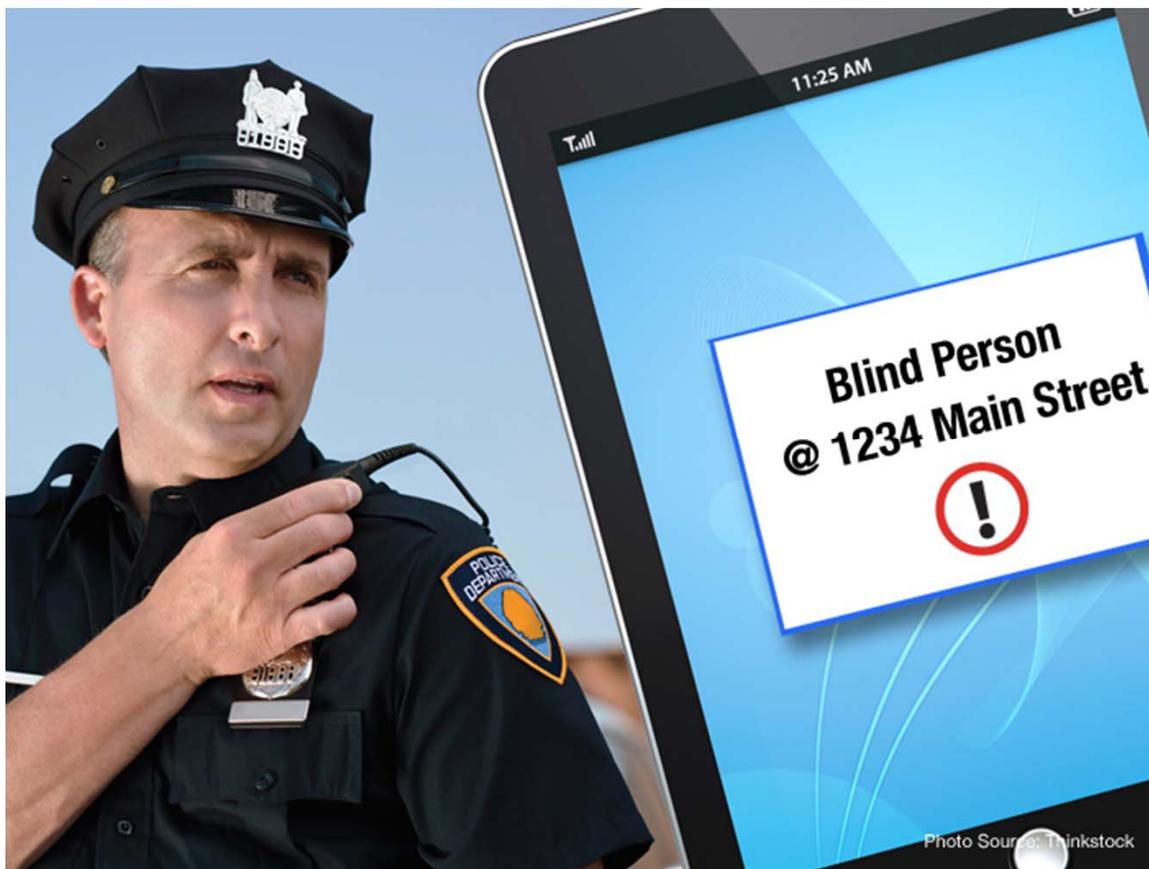


Photo Source: Thinkstock

## Incident Scene Work Zone Alerts for Drivers and Workers



## Emergency Communications and Evacuation

Photo Source: Thinkstock

 U.S. Department of Transportation



**SAFETYPILOT**  
CONNECTED VEHICLE TECHNOLOGY

★★★★★  
**NHTSA**  
[www.nhtsa.gov](http://www.nhtsa.gov)

**2013 | 2014**

What happens next?