

Industry Partner Update

Tuesday, September 24, 2013, 1:00 p.m.

David Zuby

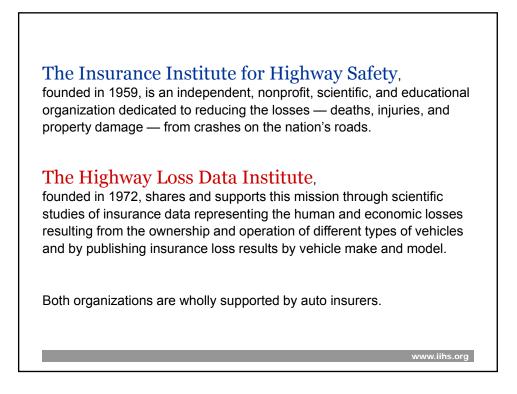
Chief Research Officer, Senior Vice President, Vehicle Research Insurance Institute for Highway Safety Arlington, Va.

David Zuby is chief research officer for the Insurance Institute for Highway Safety. Working out of the Vehicle Research Center, he oversees and coordinates research by the VRC, the institute's research department in Arlington, Va., and the Highway Loss Data Institute.

David is the author of numerous research papers published by the IIHS on topics such as the biomechanics of injury, pedestrian protection, crashworthiness, and crash investigation.

Prior to joining the IIHS as a research engineer in 1993, David worked on research projects for the National Highway Traffic Safety Administration at the Transportation Research Center in Ohio. He holds a bachelor's degree from Northwestern University.

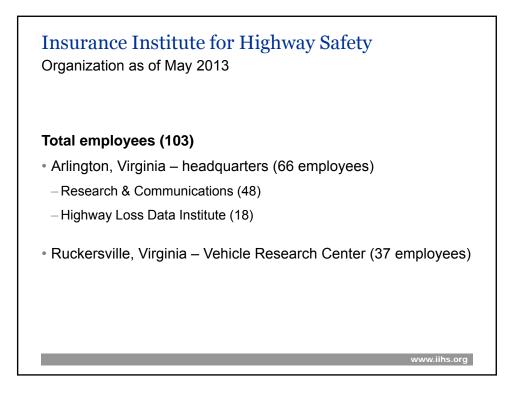






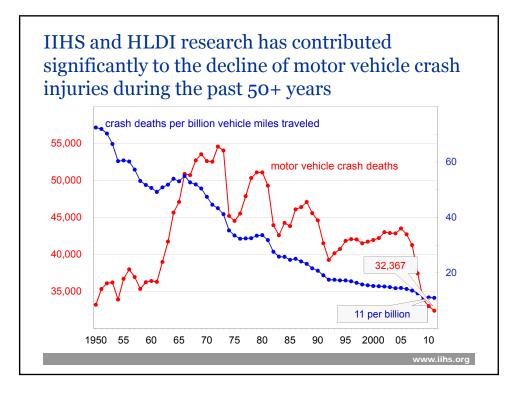
ACE Private Risk Services	 Fireman's Fund Insurance Company 	North Carolina Farm Bureau Mutual Insurance Comp
 Affirmative Insurance 	 First Acceptance Corporation 	 Northern Neck Insurance Company
 Agency Insurance Company of Maryland 	 Florida Farm Bureau Insurance Companies 	 Old American County Mutual Fire Insurance
Alfa Alliance Insurance Corporation	 Frankenmuth Insurance 	Oregon Mutual Insurance
Alfa Insurance	 Gainsco Insurance 	Pekin Insurance
Allstate Insurance Group	GEICO Group	 PEMCO Insurance
American Family Mutual Insurance	 Georgia Farm Bureau Mutual Insurance Company 	 Plymouth Rock Assurance
American National Property and Casualty Company	 GMAC Personal Lines Insurance 	Progressive Corporation
Ameriprise Auto & Home	 Grange Insurance 	 The Responsive Auto Insurance Company
Amica Mutual Insurance Company	 Hallmark Insurance Company 	 Rockingham Group
ARI Insurance Companies	 Hanover Insurance Group 	Safe Auto
Auto Club Enterprises	The Hartford	 Safeco Insurance
Auto Club Group	 Haulers Insurance Company Inc. 	 Samsung Fire & Marine Insurance Company
Bankers Insurance Group	 Homeowners of America Insurance Company 	SECURA Insurance
Bituminous Insurance Companies	 Horace Mann Insurance Companies 	 Sentry Insurance
California Casualty Group	ICW Group	Shelter Insurance
California State Auto Group	 Imperial Fire & Casualty Insurance Company 	 Sompo Japan Insurance Company of America
Capital Insurance Group	 Infinity Property & Casualty 	 South Carolina Farm Bureau Mutual Insurance Com
Chubb & Son	 Kemper Preferred 	 Southern Farm Bureau Casualty Insurance Compar
Colorado Farm Bureau Mutual Insurance Company	 Kentucky Farm Bureau Insurance 	 State Auto Insurance Companies
Concord Group Insurance Companies	 Liberty Mutual Insurance Company 	State Farm
Cotton States Insurance	 Louisiana Farm Bureau Mutual Insurance Company 	 Tennessee Farmers Mutual Insurance Company
COUNTRY Financial	 Maryland Automobile Insurance Fund 	 Texas Farm Bureau Insurance Companies
Direct General Corporation	 Mercury Insurance Group 	 Tower Group Companies
Discovery Insurance Company	 MetLife Auto & Home 	 The Travelers Companies
Driver's Insurance Group	 MiddleOak 	 United Educators
Erie Insurance Group	 Mississippi Farm Bureau Casualty Insurance Company 	+ USAA
Esurance	 MMG Insurance 	 Viceroy Insurance Company
Farm Bureau Financial Services	 Mutual of Enumclaw Insurance Company 	 Virginia Farm Bureau Mutual Insurance
 Farm Bureau Insurance of Michigan 	Nationwide	 West Bend Mutual Insurance Company
 Farm Bureau Mutual Insurance Company of Idaho 	 New Jersey Manufacturers Insurance Company 	Young America Insurance Company
 Farmers Insurance Group of Companies 	 NLC Insurance Companies Inc. 	Zurich North America
F	N. 41 M. 1. 11	

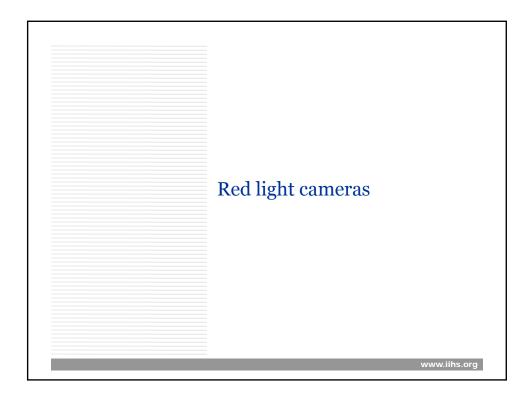
- Zurich North America
- Farmers Insurance Group of Companies
 Farmers Mutual Hail Insurance Company of Iowa
 Farmers Mutual of Nebraska Nodak Mutual Insurance Company
 Norfolk & Dedham Group



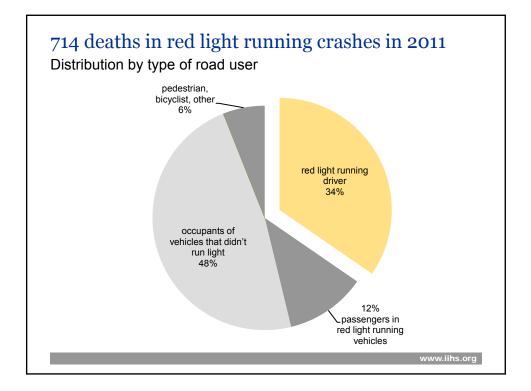
2013 IIHS In millions	and HLDI bud	get	
	IIHS	\$17.3	
	HLDI	\$ 3.4	
	total	\$20.7	
			www.iihs.org

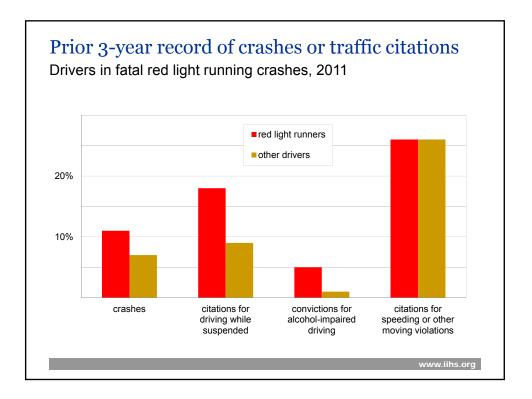
Haddon Recognizir	matrix ng opportunities to	o make a diffe	erence	
		crash phase		
changes in	before	during	after	losses
people	 licensing (GDL, elderly) impaired driving laws camera enforcement 	 restraints (use) helmets speed cameras 	∘alcohol	∘injuries ∘deaths ∘economic
vehicles	*driver assistance *daytime running lights *electronic control	 restraints (effect) vehicle structure Bumpers 	 crash notification fuel systems 	∘damage ∘repairability
environment	 intersection design trouble-spot treatment rumble strips 	 roundabouts breakaway poles crash cushions 	∘emergency medicine	economic ∙fuel economy
	1			www.iihs.org

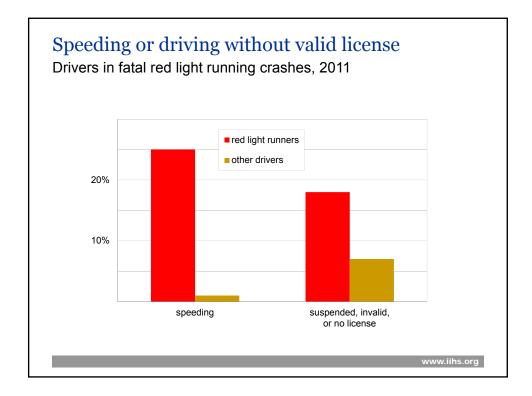


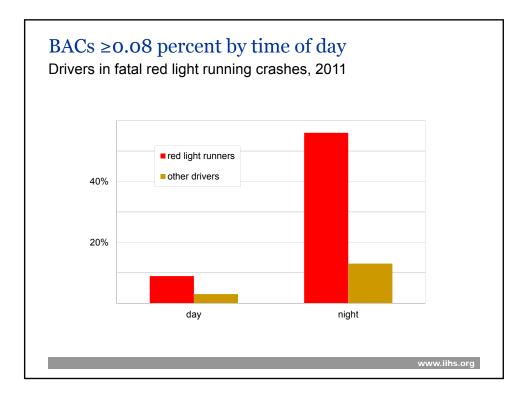


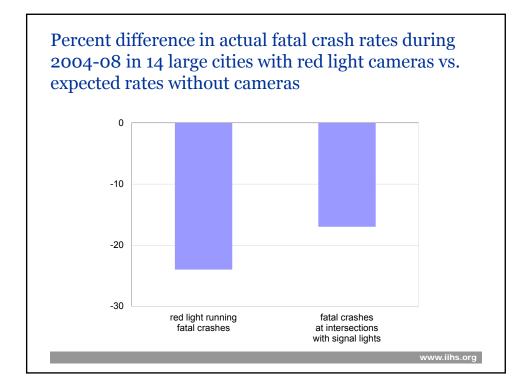
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Wheeling police defend red -light cameras	photo enforcement is fraud ting red light cameras at por
red-light cameras Rea	ing van red light cameras not a ative agenda
Red Light Camera Blues? T	nining n App for That
	photo enforcement is fraud ting red light cameras at por ing pan red light cameras not a whining of the proved whining over red light cameras decide on red light cameras tssue series in comeras red light cameras tssue series in comeras red light camera questions
1. 10 It's Official Dod	Light Compros Dan't War
Aventura cites safety in der camera program	renung ⁴⁴ S ¹¹¹ Camera program

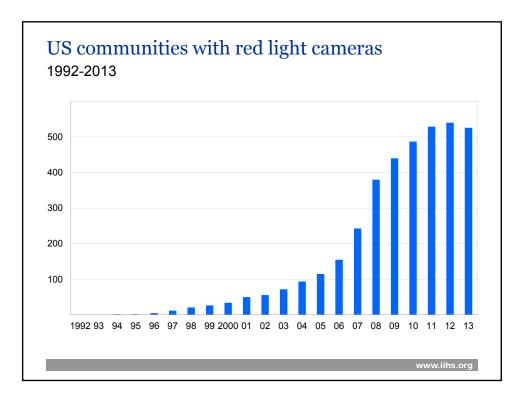


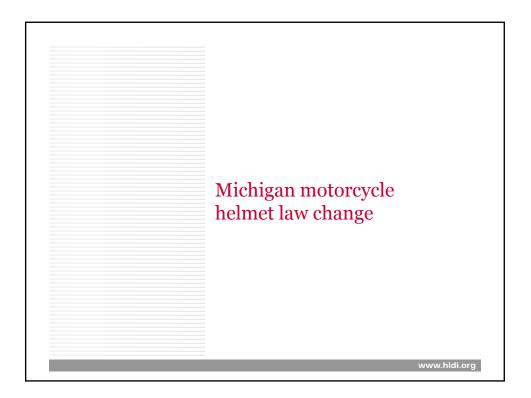


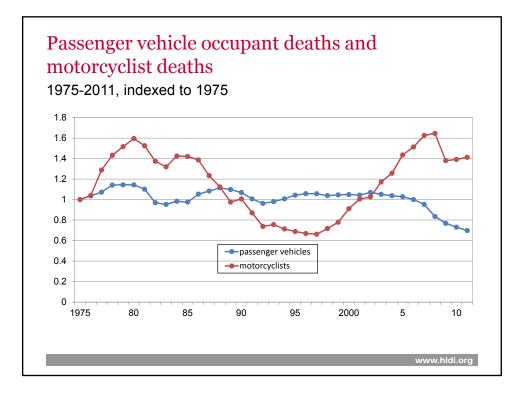




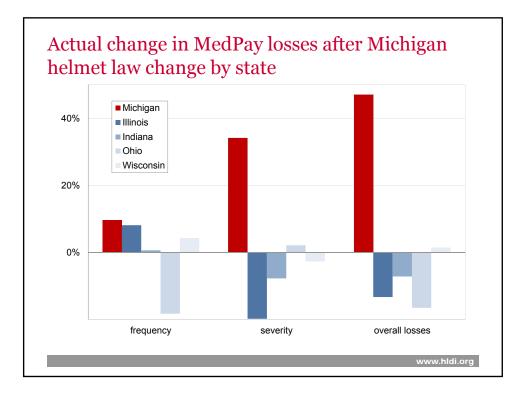


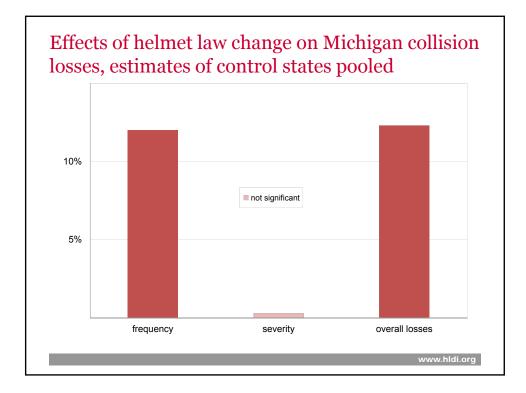


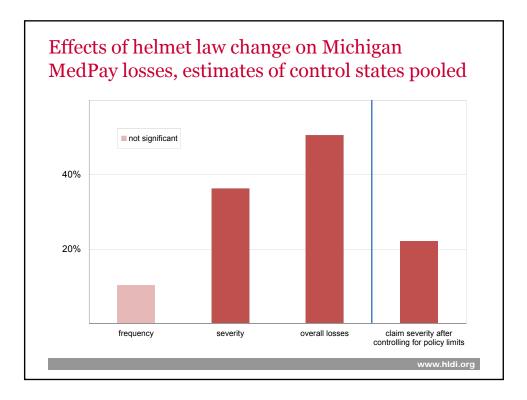


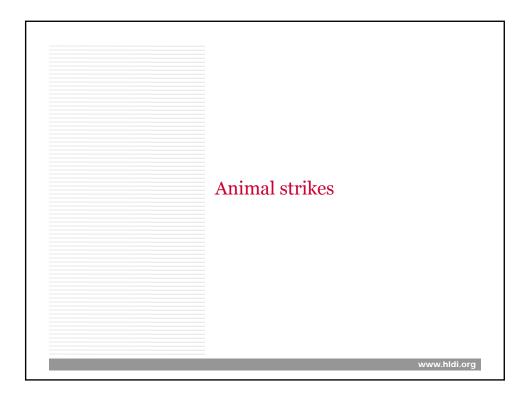


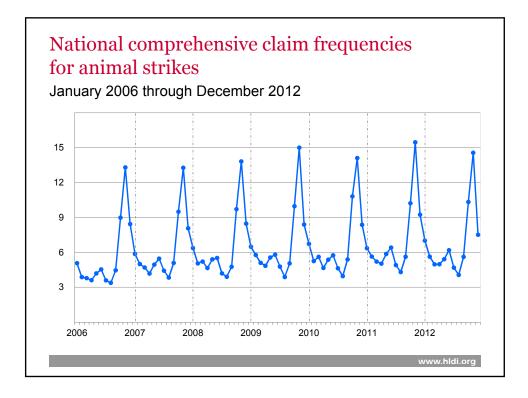


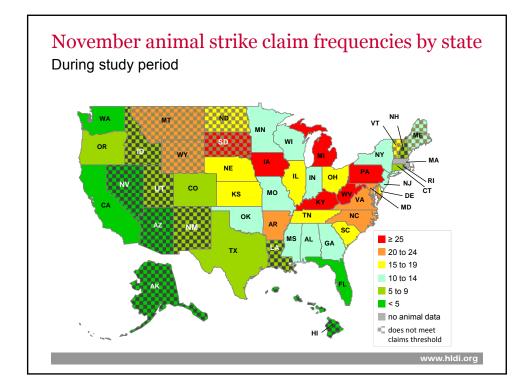




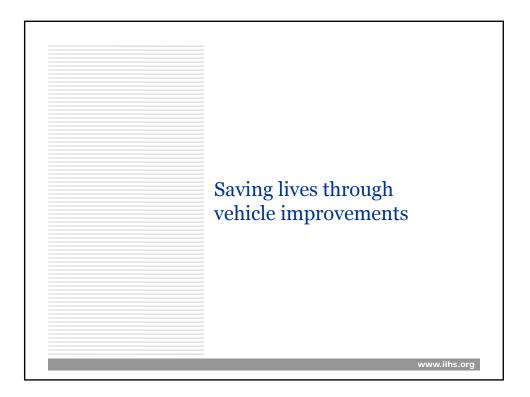


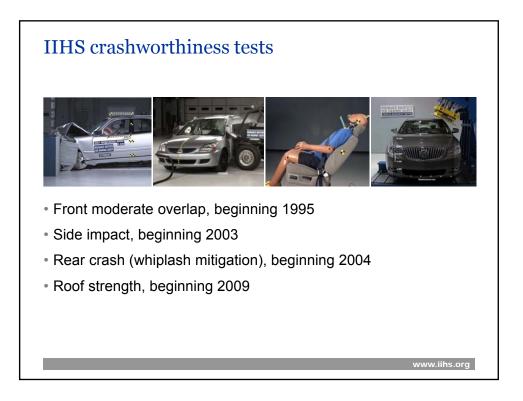


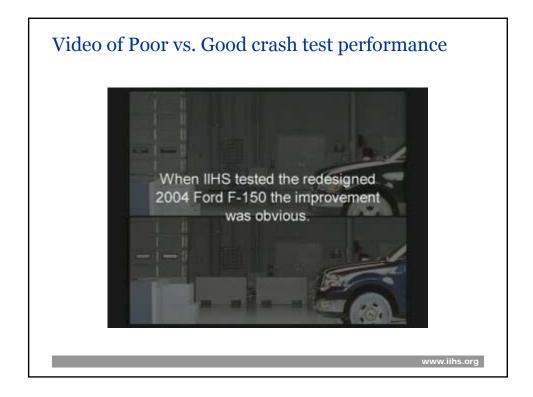


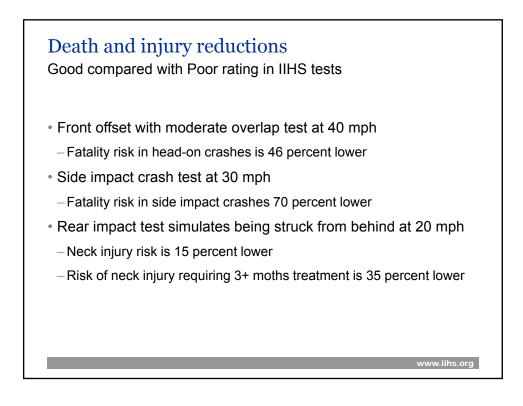


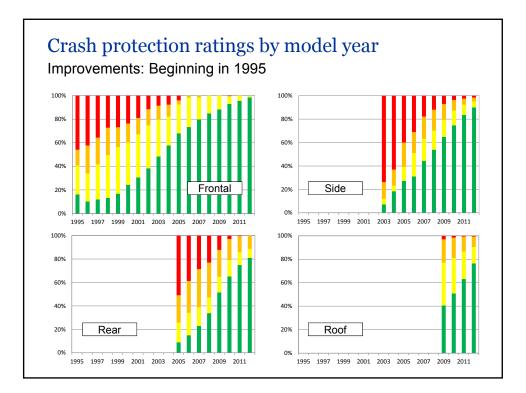


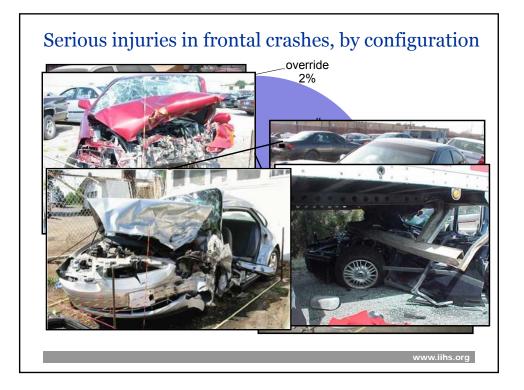


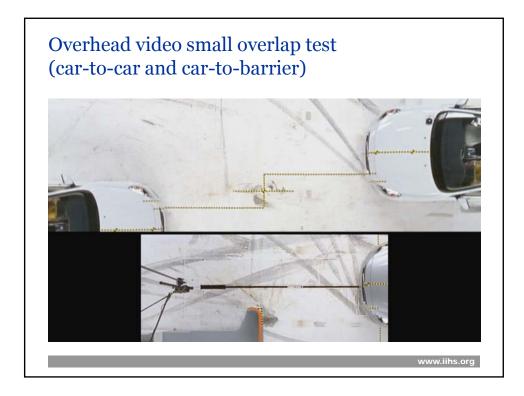


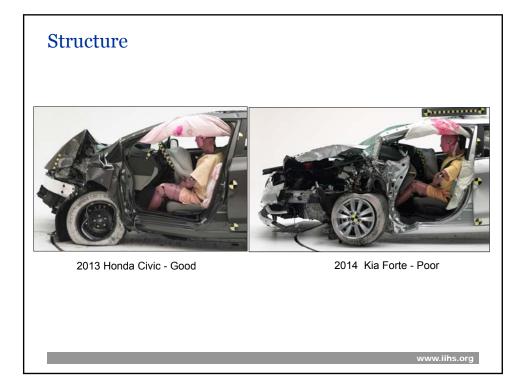




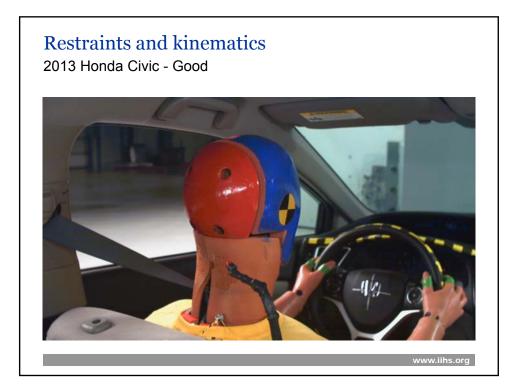


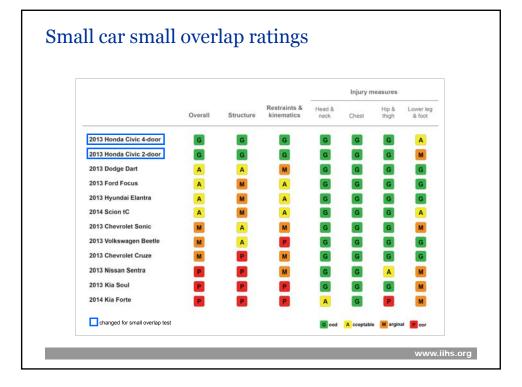




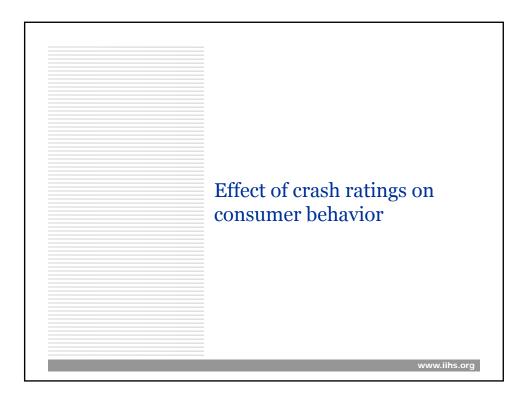




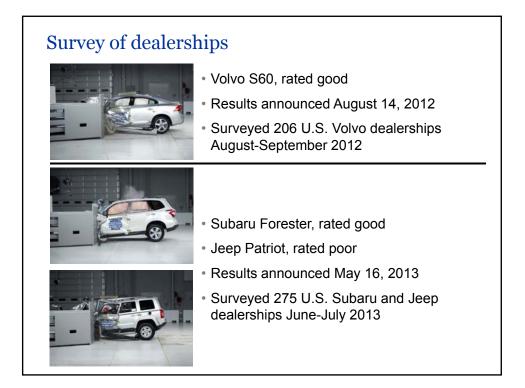




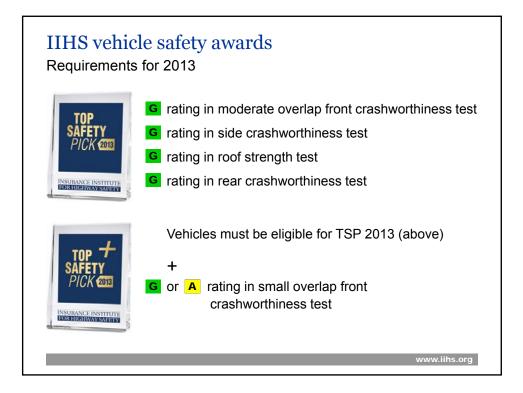




	date	viewers	broadcasts
Side impact crash tests – midsize cars	April 18, 2004	239 million	2,412
First side impact crash tests – small SUVs	June 17, 2003	234 million	2,316
Frontal crash tests – large pickups	June 4, 2001	213 million	1,855
First small overlap crash tests – midsize luxury cars	August 14, 2012	204 million	2,550
Children's booster seat ratings	December 22, 2009	183 million	3,669

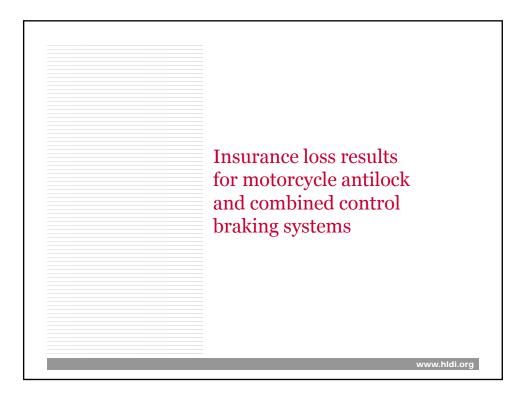


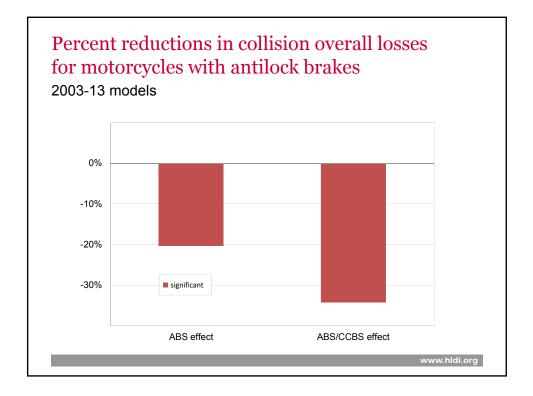
	week before announcement	week after announcement	percent change
S60	267	376	41
all Volvo models	809	956	18
Forester	1,243	1,422	14
all Subaru models	3,970	4,397	11
Patriot	426	419	-2
all Jeep models	2,314	2,325	<1

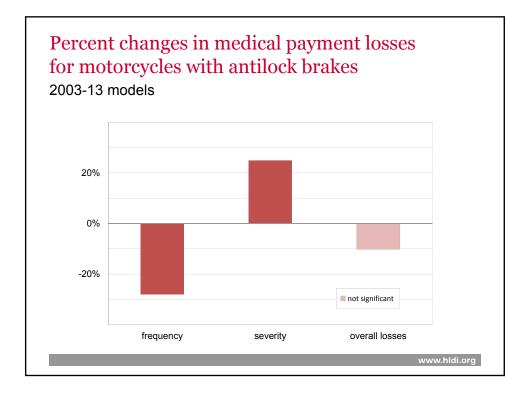


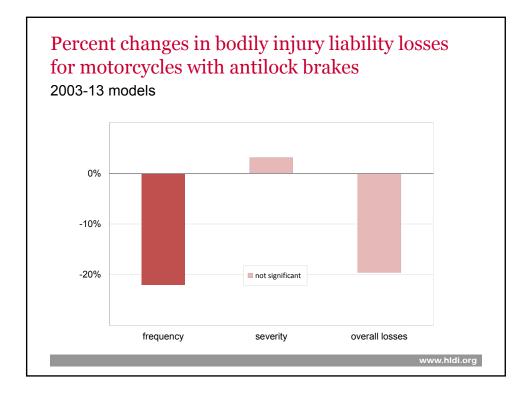


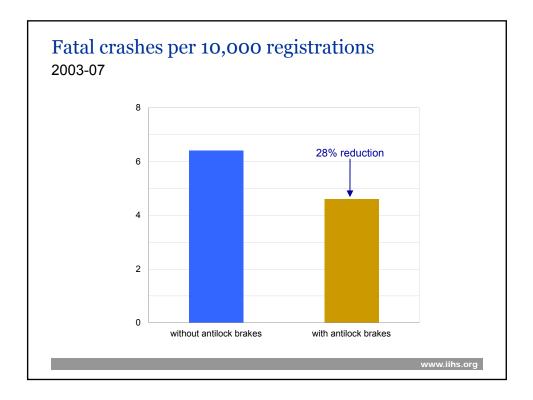


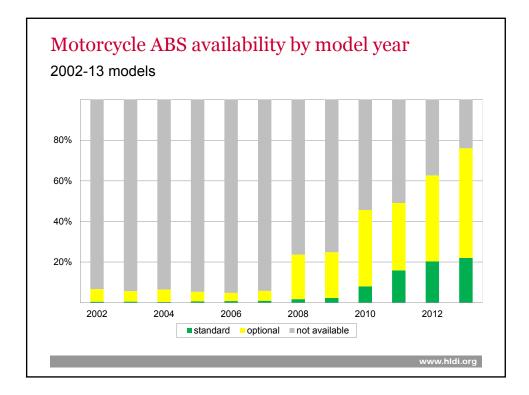


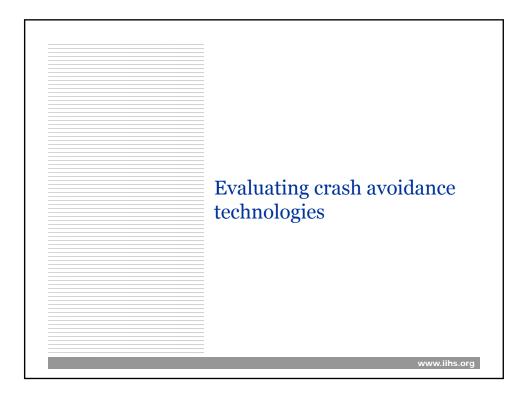


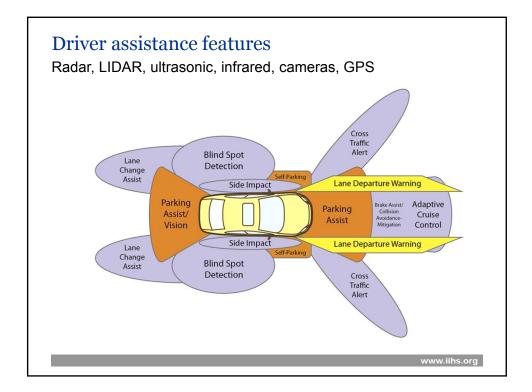






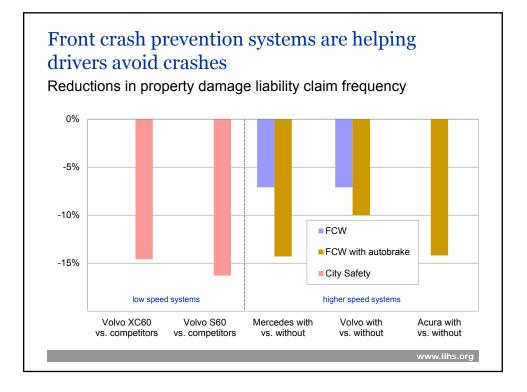


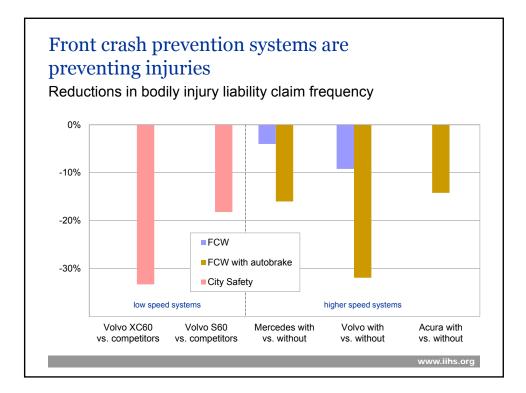


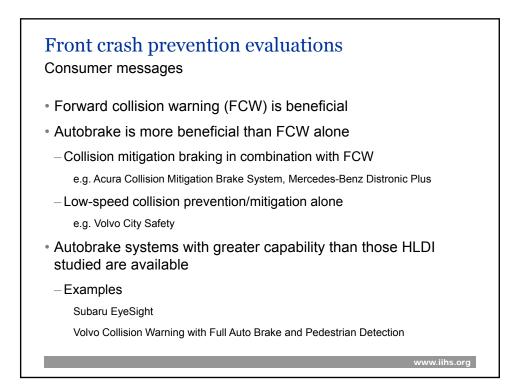


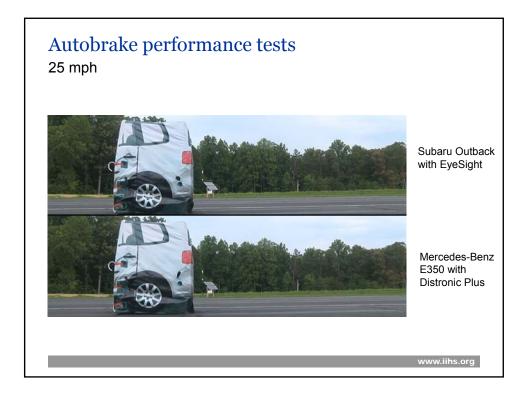


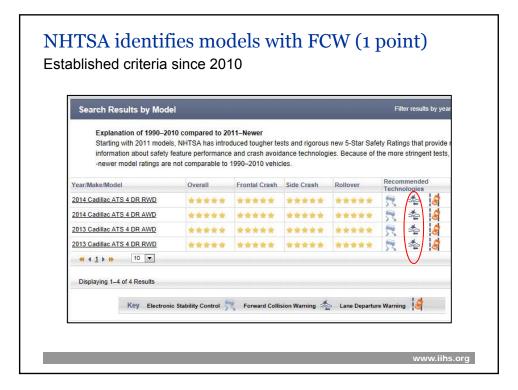






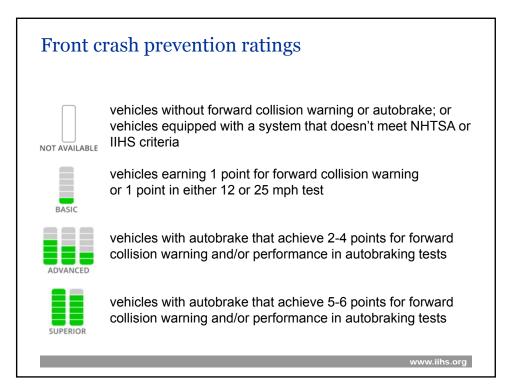






Autobrake points awarded		ests reduction targets	
12 mp	oh test	25 mp	oh test
speed reduction (mph)	points	speed reduction (km/h)	points
less than 5	0	less than 5	0
5 to 9	1	5 to 9	1
10 or more	2	10 to 21	2
		22 or more	3
			www.iihs.org





Autobrake performance Models in HLDI effectiveness		Advanced r	ating
	test points		
	12 mph	25 mph	total points
Acura MDX with Collision Mitigation Brake System	1	1	2
Mercedes-Benz E350 with Distronic Plus	0	2	2
Volvo S60 with City Safety	2	0	2
Volvo XC60 with City Safety and Collision Warning with Auto Brake	2	1	3
			www.iihs.org

