

The Limits of Compartmentalization Protection

School Buses: Regulations and Best Practices Tuesday, April 29, 2014 - 10:45AM -12:15PM

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Compartmentalization - 1977

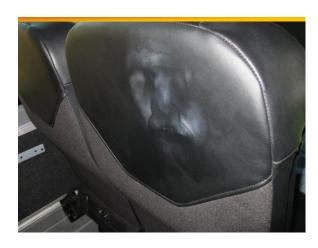
Passive protection for **UNBELTED** passengers



Compartmentalization Forward and in-position







Ohio School Bus Rollover



Compartmentalization is **NOT** enough

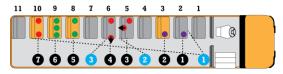
- Designed for low-energy, frontal crashes
- Kids must be in the "compartment"
- Kids must be properly seated, forward facing



Bus Crash Demonstrat	tion August 8, 2013
I STOP >	100 guests 1998 Type C school bus 25 mph frontal crash Objectives: Belted and unbelted Out of position Replace misinformation with facts
	CAPE



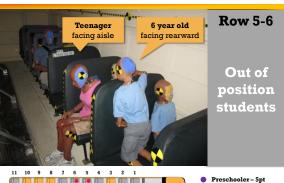
Bus Crash Demonstration | Type C Bus



7 On-Board Digital Imagers, 3 On-Board Real Time Video Camera's, 6 Outside Cameras

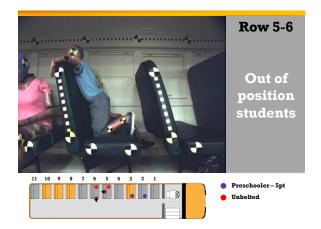
- Preschooler 5pt
- High Speed Camera
- Factory Seat

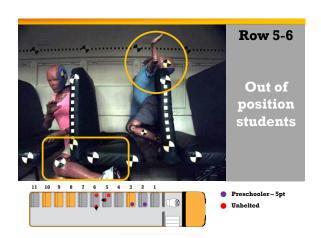
- Lap-Shoulder Belt
- Real Time Camera
- SafeGuard Seat

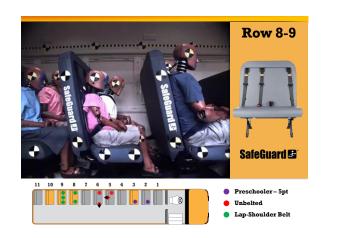


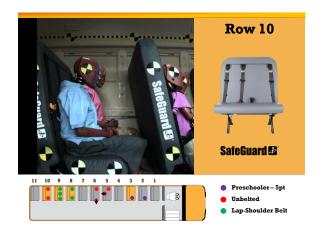


Preschooler – 5pt Unbelted



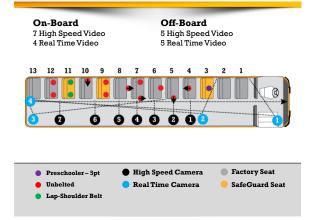


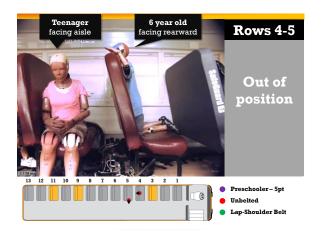


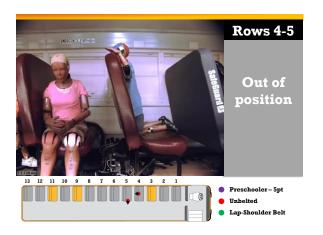


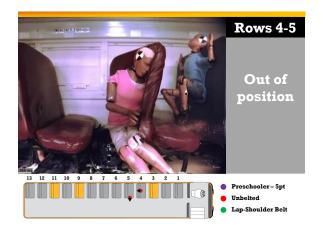




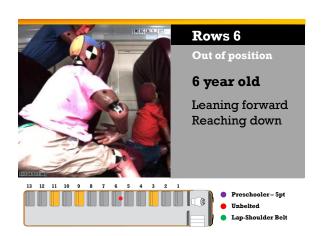


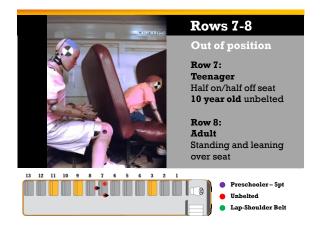


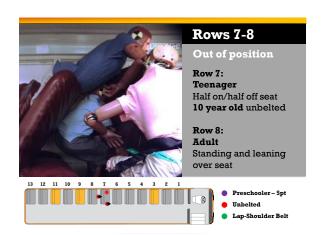


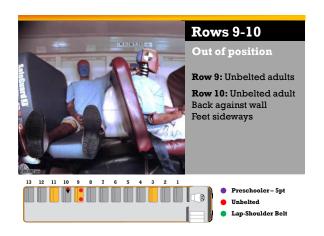


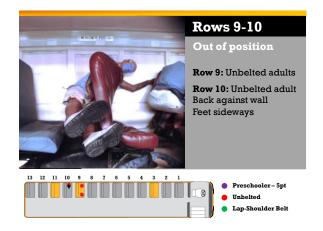


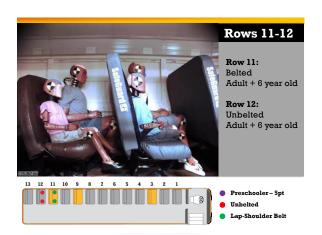


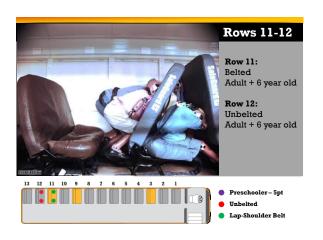












Wha	at have	we le	earned	?



Compartmentalization is incomplete

Injury protection is limited by

LIFESAVERS 2014 SafeGuard



Misinformation	THE FACTS	
Compartmentalization is enough	Compartmentalization is NOT enough	
Seat belts reduce capacity	Seat belts DO NOT reduce capacity	
Seat belts will be used as weapons	Seat belts are NOT used as weapons	
Seat belts are too expensive	Purchase depends on PRIORITIES	
NHTSA hasn't approved seat belts	NHTSA set standard for belts on buses	
Seat belts slow evacuation	Seat belts AID evacuation	
Students won't wear them	Students will wear them WITH STRONG USAGE POLICY	
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Which protection would YOU choose?

Tì	The Limits of Compartmentalization	
	More info	
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	You Tube	
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