

Improving the Safety and Productivity of Truck-Trailer Combinations by means of Roll Coupling

Presentation to Task Force on Vehicle Weights and Dimensions Policy November 2010

## **Presentation Objectives**

Relate safety concerns associated with nonroll coupled configurations

>Update the committee on project progress

Wolf Trailer "The Safer-Trailer Company"





Safety Concerns: Ontario (MTO) Study									
Rates of Collisions									
	Class	Collisions/MVKT	One Collision per:						
	2 axle semi	0.45	2,200,000 km						
	3 axle semi	0.60	1,700,000 km						
	4 axle semi	0.66	1,500,000 km						
	5+ axle semi	1.03	1,000,000 km						
	A-train	1.33	750,000 km						
	B-train	0.36	2,800,000 km						
	<u>Total</u>	<u>0.51</u>	<u>2,000,000 km</u>						
		Wolf Trailer "	'The Safer-Trailer Company"						









Tandem Tridem Roll-Con No 0.725 47,100	Pony Pupled Yes 0.524	Tanden Quadaxi Roll-Co No	n Truck e Wagon oupled Yes	Tri-driv QuadaxI Roll-Co No	e Truck e Wagon oupled Yes	A-T (8 A Roll-Co No	rain xle) oupled Yes
0.725 47,100	Yes 0.524	No 0.834	Yes	No	Yes	No	Yes
0.725 47,100	0.524	0.834					Yes
47,100		0.004	0.539	0.94	0.526	0.666	0.451
	50,100	60,100	60,100	63,500	63,500	53,500	62,500









## Product development: rollover evaluations









## R&D Program: pony trailer field trials











