

Conference on Improving Road Safety in the BSEC Region

ROAD USER BEHAVIOUR 19 November 2010

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This is the IRU



Evolution of IRU Membership





IRU Priority Issues

Sustainable Development

- Innovation
- Incentives
- Infrastructure
- Facilitation
 - Trade
 - Tourism
 - Road Transport

IRU's 3 "i"s for Sustainable Development



- Innovation develop ever more effective "at-source" technical measures & operating practices to improve road safety.
- Incentives encourage faster introduction by transport operators of best available technologies and practices.

 Infrastructure – ensure safe infrastructure through adequate investment in new infrastructure and remove bottlenecks and missing links and make full use of existing infrastructure.

ITOThe CommitmentRoad Safety – Highest Priority

The IRU supports all measures that improve road safety

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they effectively target the main causes of accidents involving trucks.



ETAC – A Scientific Study Funded by the European Commission and the IRU

- Expert teams investigated on site more than 600 accidents involving trucks over 2 years.
- Investigations were based on a scientific, widely accepted and internationally benchmarked methodology.



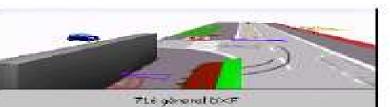
ETAC – First of its kind!

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ETAC Study - Methodology

- Experts cooperate with emergency services.
- Expert teams check selection criteria:
- the accident involves at least one truck (over 3.5t)
- the accident resulted in at lest one injured person
- the vehicles are still in their final accident position
- Investigation and data collection on spot
- Data analysis and data verification



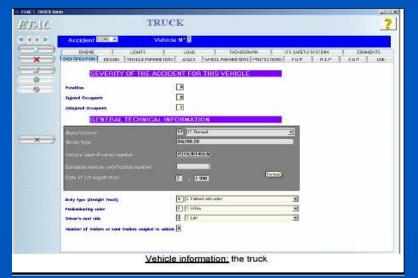




ETAC Study – Data Base

describe the accident causation sequence

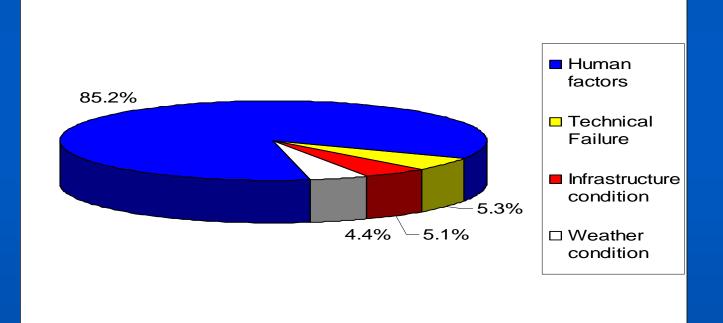
- reconstruct the pre-collision phases
- Identify critical situations
- analyse malfunctions



Identify the main causes of accidents involving trucks

RU Main Cause: The human factor

624 accidents showed the main cause of the accident is human error.



However, from the 85% linked to the human error, 75% were caused by other road users! Source: EU, IRU



Main cause of an accident: Truck / Other road user

The top main causes for accidents between a truck and other road users are:

1- Non-adapted speed
 2- Failure to observe intersection rules,
 3- Improper manœuvre when changing lanes.

Load and fatigue: NOT a main cause

Loss of load, Overload, Unbalance of the load, Insufficient load securing

Increased the severity of accidents

 Despite common belief, fatigue was the main cause in only 6% of the accidents.

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Recommendations

Manufacturers &

Infrastructure providers/developers

Main Human Factors	Manufacturers	Infrastructure providers/developers
1. Non-adapted speed	 Adaptive cruise control speed control systems related to the used infrastructure 	-Effective traffic signing - traffic warning regarding speed limits
2. Failure to observe intersection rules	 -Ultrasonic guard system for collision zones -vehicle to vehicle communication -blind spot mirrors 	-Improve visibility of traffic signs -effective traffic signing
3. Improper manœuvre when changing lanes	 -Lane guard system -turning and lane change assistance -traction and stability control system -active roll stabilisation 	- Special focus on the road surface (road friction)



Recommendations Governments & Media

Main Human Factors	Governments	Media
1. Non-adapted speed	- Increase enforcement regarding non-adapted speed	 Awareness campaigns on speeding and safety distance Objective and fact-based report on accidents' causes
2. Failure to observe intersection rules	 Revising driving school programmes to help understand truck manoeuvres Awareness campaigns regarding intersection rules Increase enforcement 	- Awareness campaigns to explain truck manoeuvres
3. Improper manœuvre when changing lanes	- Plan and maintain safe road infrastructure appropriate to current and foreseeable traffic demand	Awareness campaigns on: - speeding - safety distance - driving manoeuvres of truck



Recommendations

Truck Drivers & Other road users

Main Human Factors	Truck Drivers	Other Road Users
1. Non-adapted speed	- Adapt your speed to traffic and weather conditions	- Adapt your speed according to traffic and weather conditions

A LASTAC Study is now in the pipeline!

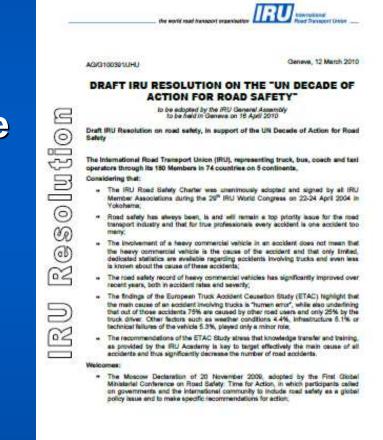
	visibility - anticipate problems - respect traffic regulations at all time	- respect traffic regulations at all time
3. Improper manœuvre when changing lanes	- Increase driving experience by refresher training	- Increase driving experience by refresher training



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IRU's Support to UN Decade of Action for Road Safety –

The IRU has committed **\$2** million to implement projects to effectively improve commercial road transport safety provided that this important commitment by the profession is matched by credible partners or by the international donor community



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UN Decade of Action for Road Safety – IRU's calls on Governments

- Identify the main cause of accidents involving trucks by applying the ETAC methodology;
 Promote effective, harmonised and internationally recognised standards for vocational training
- of road transport professionals as provided by by the IRU Academy;
- Work together with the business community to achieve national accident reduction targets

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	AG/G100301UHU	Geneve, 12 March 2010
	DRAFT IRU RESOLUTION	
R	to be adopted by the IRU General Assembly to be held in Geneve on 18 April 2010	
100 h	Draft (RU Resolution on road safety, in supp Safety	oort of the UN Decade of Action for Road
]&[The International Road Transport Union (IRU operators through its 180 Members in 74 cou Considering that:	
0]C	. The IRU Road Safety Charter was un	animously adopted and signed by all IRU IU World Congress on 22-24 April 2004 in
0		ell remain a top priority issue for the mod assignate every accident is one accident too
6	the heavy commercial vehicle is the c	I vehicle in an accident does not mean that ause of the accident and that only limited, ing accidents involving trucks and even less ints;
٥Z	 The road safety record of heavy comme recent years, both in accident rates and s 	rolet vahicles has significantly improved over severity;
Ð	the main cause of an accident involving t that out of those accidents 75% are caused	Stert Counston Study (ETAC) highlight that rucks is "human error", while also underfining sed by other road users and only 25% by the ther conditions 4.4%, infrastructure 5.1% or yead only a mitter role.
Ľ۵]		y stress that knowledge transfer and training, y to target effectively the main cause of all the number of road accidents.
16 - A	Welcomes:	
	Ministerial Conference on Road Safety	mber 2009, adopted by the First Global Time for Action, in which participants called community to include road safety as a global mendations for action;
	Manufactured Principles (Manufacture) A sum of Second of SER 11 + CH 1177	

Road Freight Transport: Interconnecting every business and every transport mode between Europe and Asia – Focus on the Caucasus





6th Euro-Asian Road Freight Transport Conference & Ministerial Meeting

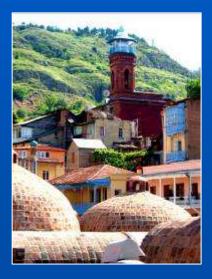


Tbilisi, 16-17 June 2011











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