



Special GRRF brainstorming session 9 December 2008 Agenda item 4(a)

Advanced Emergency Braking System /

Lane Departure Warning System

OICA POSITION



Summary

Data: EU, F, J

Scope and justifications for a future UNECE regulation

Requirements for AEBS

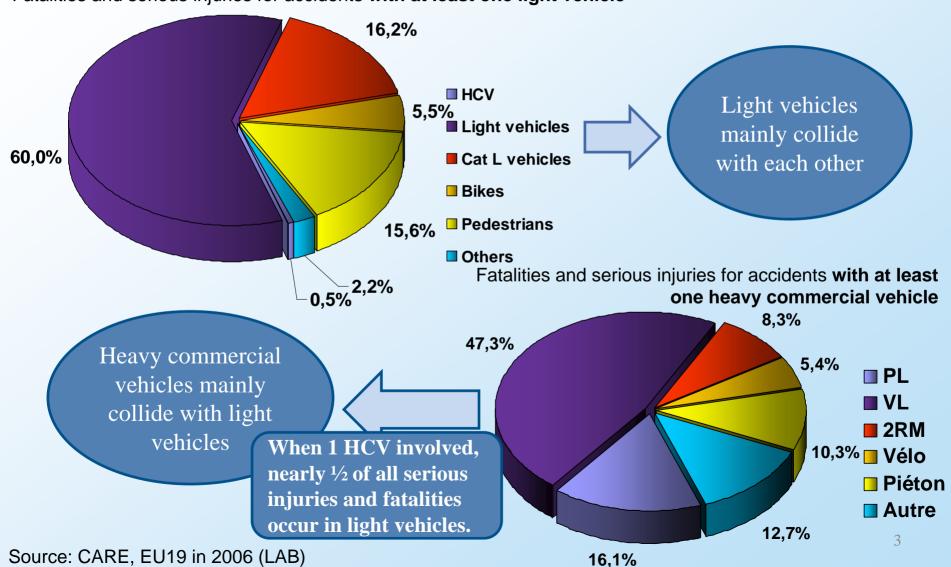
Requirements for LDWS

Organization of the work



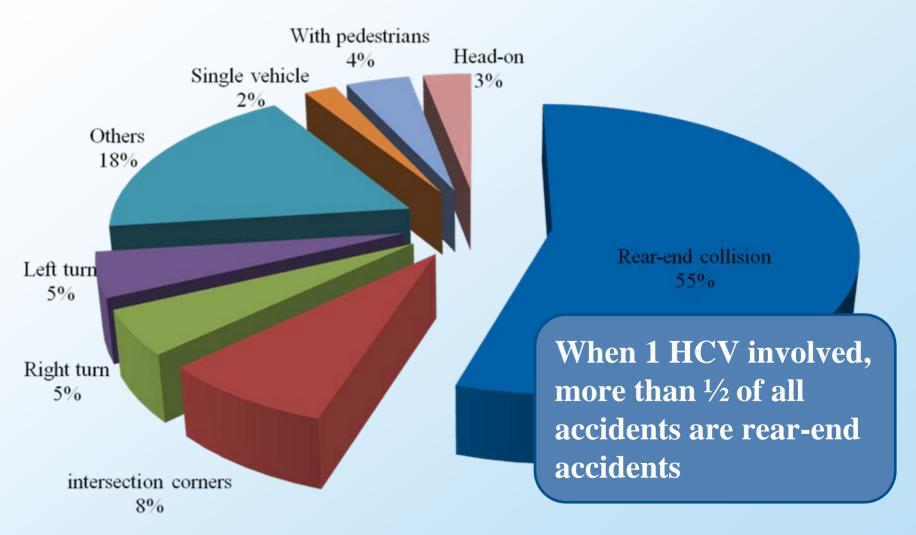
Fatalities and Serious Injuries by Vehicle Category (EU19)

Fatalities and serious injuries for accidents with at least one light vehicle





Accidents Caused by Large Trucks by Accident Type (Japan)

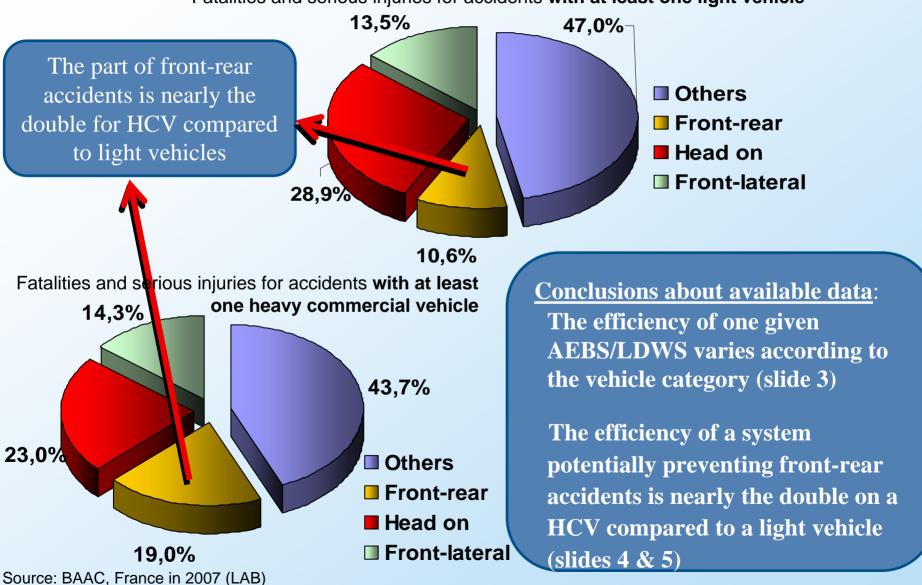


Source: Macro Accident Data Japan 2005



Fatalities and Serious Injuries by Accident Type (France)

Fatalities and serious injuries for accidents with at least one light vehicle





Current Situation for Advanced Vehicle Systems

Warning Systems

Advanced Vehicle Warning
Systems already exist on a
few vehicles



No safety need for rulemaking when voluntarily fitted

Active (intervening) Systems

Advanced Vehicle Active
Systems already exist on a
few vehicles (acting on
braking or steering)



Safety is ensured by CEL Annex of UNECE R13/13H and R79

With regard to existing regulations, additional rulemaking has the only purpose to align the provisions if the systems are fitted or required.



Installation of AEBS/LDWS

EU is the first region to require installation of AEBS and LDWS on some categories

Scope proposed by EC:

"Vehicles in Categories M2, M3, N2 and N3 shall be equipped with an AEBS/LDWS which shall meet the requirements of this Regulation."

Timeframe proposed by EC:

29 October 2013 for New Types

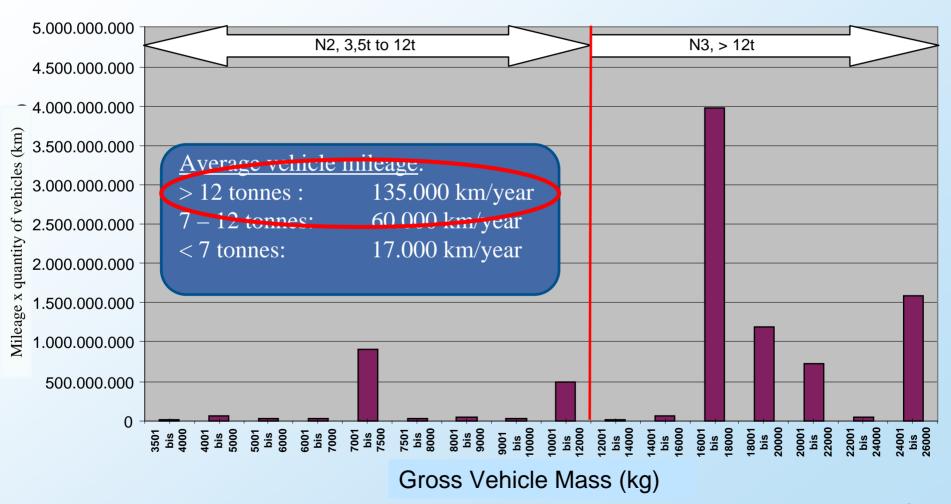
29 October 2015 for New Registrations





In order not to waste time and resources, future UNECE Regulations on AEBS and LDWS should be "if fitted" requirements based on the scope proposed by OICA and the timeframe for mandatory installation proposed by EC.

Mileage data helps defining the relevant scope



Source: VDA 2007



Implementation of new UNECE Regulation

The systems are the most efficient on the following categories:

M3 Class II and III, > 12 t 4 x 2 and 6 x 2

(exception for M3G)

and

N3 > 16 t 4 x 2 and 6 x 2 (exception for N3G) Should the installation be unavoidable, OICA

recommends to limit the scope to these categories

A reasonable limitation of the scope is also necessary to respect the EU time frame



Requirements for AEBS

Some systems already available

Currently no specific regulation

No need to regulate categories where system is not required

Avoid unnecessary packaging

Keep legal flexibility for non EU CPs

for non EU CPs

Aim: oidance

AEBS to be introduced into a new UNECE regulation



This regulation to be separated from LDWS

Aim: Collision mitigation/reduction

Provisions should

be technology neutral

be performance based aim moving/ stopping targets only include test procedure covering rear-end collisions



Requirements for LDWS

Some systems already available

Currently no specific regulation

No need to regulate categories where system is not required

UNECE R79 covers active systems

Keep legal flexibility for non EU CPs

CPs and

LDWS to be introduced into a new UNECE regulation



This regulation to be separated from AEBS





Aim: warning only

Provisions should

be technology neutral

be performance based Be based on ISO17361 technical provisions

Avoid direct references to ISO standards



Organization of work

EU dates

- October 2013 for New Types
- October 2015 for New Registration

Time frame

• Time frame for development of the new regulation should be compatible with the introduction dates

Content

• Content of the regulation should be compatible with the introduction dates

Optimization of the resources

• One informal working group is sufficient