



Rijkswaterstaat
*Ministry of Infrastructure and the
Environment*

AEBS systems on Trucks

Road Safety for user and roadworker

Jan van Hattem, RWS- WVL



Road operator roles

Different roles:

- As employer responsible for safety of our own personnel
- Responsible for safety of contracted personnel
- Road operator: safety of road user



Starting point: Road worker safety



A4 dicht door botsing tussen auto en pijlwagen

Belgische automobilist is deze avond op de A4 op een pijlwagen gebotst ter hoogte van Schipluiden. De rijbaan richting Rotterdam is geheel afgesloten.

by Gossen 07-07-16, 20:07 Laatste update: 20:27





Video 1: AEBS and Road works

- From interviews (30) and Questionnaire we learned that the majority of truck drivers expect that their AEBS system can recognise Road works
- Tests showed differently



Results AEBS recognition of Road works 2017

- Road works are not recognised at 40 meters
- How about the recognition of vehicles other than the sedan personal car?





Video 2: AEBS and truck combinations, new TMA





Results



Large variation in recognition

79% to 21%

Average: 48%

Test Target: 81%



Rijkswaterstaat, Vehicle systems and Road worker safety



Road works: improvement

- Previous model was not recognised, new model with bigger flat plate is better recognised.





Request to the meeting

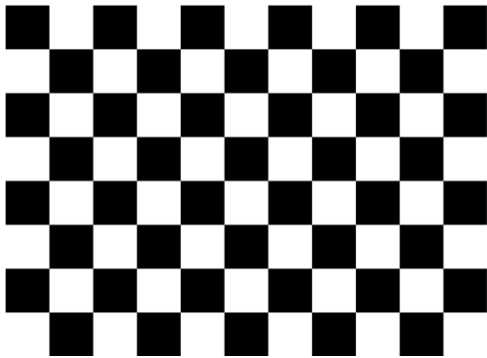
- Develop tests that incorporate all real road situations
- Go on with improving the systems
- Help Road Authorities to make their systems better recognisable for Trucks and cars.
- Improve the recognition of barriers by the systems

- If we work together to help automated systems to recognise special cases the road will be a safer place.



Suggestion

- Ad checker board diagram, radar reflector and lidar reflector or prism to road works and barriers.





Thank you for your attention

Ir. J. van Hattem mba
Rijkswaterstaat, WVL, Safety department,
+31 (0)6 4673 2271

Jan.van.hattem@rws.nl

Lange Kleiweg 34, 2288 GK Rijswijk.
Postbus 2232 | 3500 GE Utrecht