

# Alcolocks - a life saving technology

Tom Bjerver  
managing director, MHF



# Drink driving

Drink driving in the EU:

- 1-2% of drivers with an illegal BAC
- Up to 10,000 road deaths annually (25%)
- Alcohol related crashes are the leading cause of death in the age group 16-24
- Killer Nr.1 in France



# Targets for traffic safety

- **Globally:** UN "Decade of action for road safety 2011-2020". Goal: Reduce road deaths by 50% and save 5 million lives
- **EU:** Target to reduce road deaths by 50% 2011-2020
- **Sweden:** Vision Zero milestone – 220 road deaths by 2020



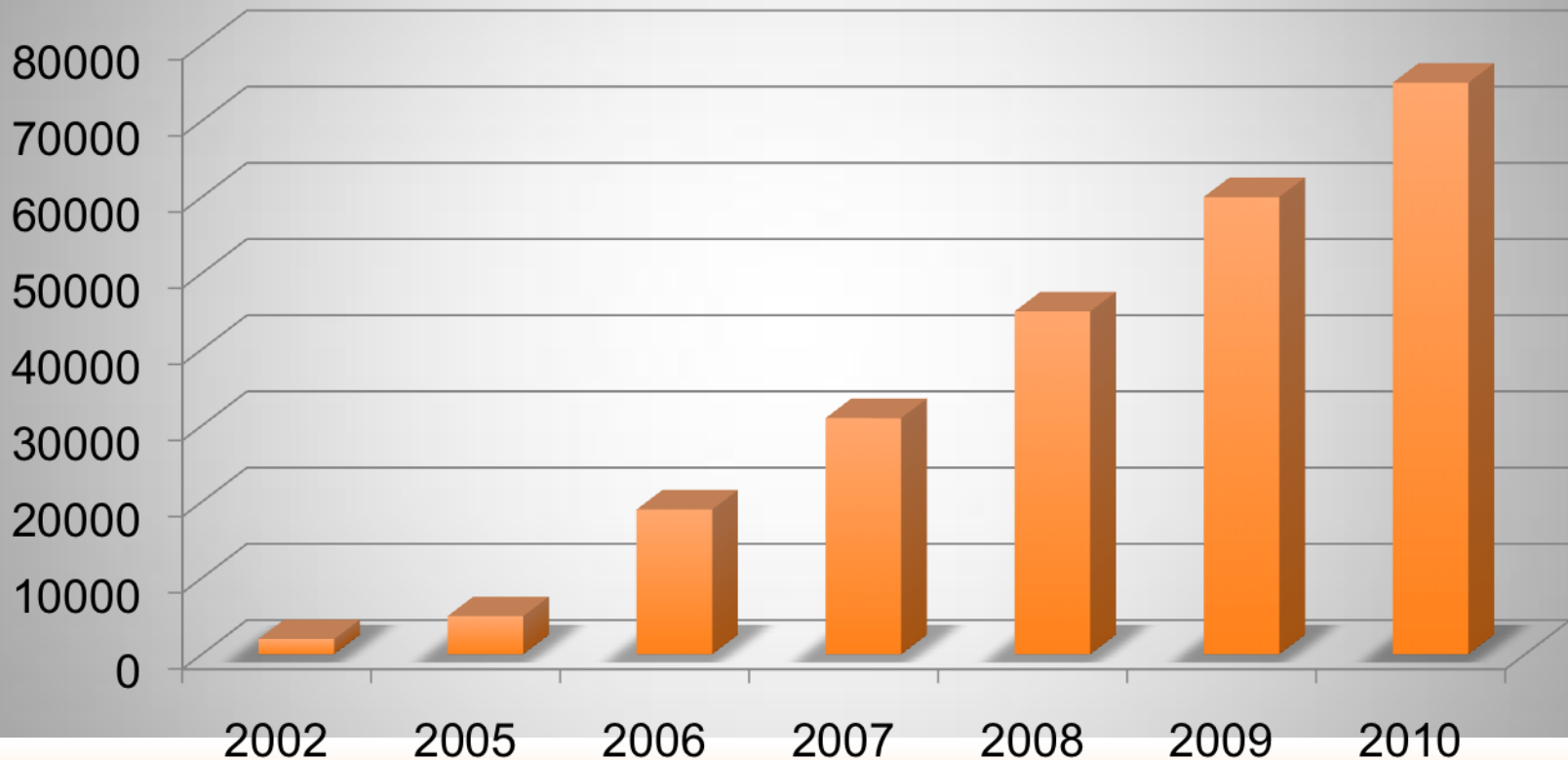
# Conditions for the targets

- Alcolocks must be implemented on a wide scale in new cars.
- Alcolocks must be non-disturbing for the sober driver.



# Use in commercial transports

## Alcolocks in Sweden – installed units



An estimation based on decided demands in public procurement of transport vehicles (MHF and SRA)

Swedish Abstaining Motorists' Association



# European standard

**EN50436-1**

**Offenders  
program**

**EN50436-2**

**General  
preventive  
use**

**EN50436-3  
(draft)**

**Guidelines**

**EN50436-4  
(draft)**

**Vehicle  
interface**

**EN50436-5  
(draft)**

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**ALKOLOCKS**  
*Saves lives*



# Accredited by SWEDAC

## CENELEC EN50436-2



INTERNATIONAL ROAD SAFETY



EVALUATION • DEVELOPMENT • TEST

# MHF Test Lab

- MHF have set up our own professional test laboratory where each function is scrupulously tested.
- Performs testing according to the CENELEC standards in EU.





# Consumer information

- MHF assess alcolocks and publish consumer information on our website [www.mhf.se](http://www.mhf.se)



# Alcolock measures up to 5 samples !

- Pressure
- Airflow
- Temperature
- Humidity / Vibrato / etc.
- Alcohol



Depending on technical solutions prestanda and quality varies among products

# **Service network is very important**

Equipment and qualified staff is needed when alcolocks is calibrated.  
Not updated equipment is a problem some times.

If equipment fails to operate properly, alcolocks can measure inaccurate



# 3 basic qualities for an alcolock!

- ① Central unit must have CE-mark or E-mark.
- ② Alcohol over the legal limit must not pass.
- ③ Alcolock must recognise that's a human being is breathing

**ALCOLOCKS**

*Saves lifes*



# Future depends on technical development



# Together with other technical systems!

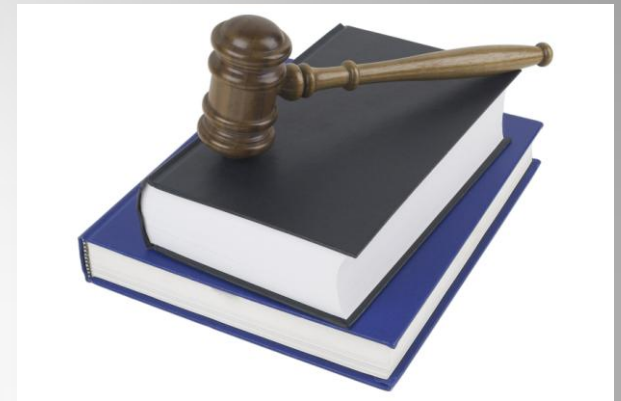


# Drivers unions standpoints

- Alcohol tests decided in local agreement
- Prefer alcolocks before other testing in workplace
- Alcolocks based on fuel cells should be used and instruments calibrated
- To justify use: installation in all company vehicles not only a few
- Alcolock has to be a part of the internal environmental process and integrated in alcohol & drugpolicies

# Jurisdiction

- 2011 – New law, convicted drunk drivers must have alcolock
- 2011 – Mandatory use in some transports will be suggested
- 2011 – benefit tax on alcolocks in company cars will be removed.





# Use in commercial transports

- Every fourth new truck delivered by Volvo Trucks is equipped with alcolock



# New ways of use

- Big work machines



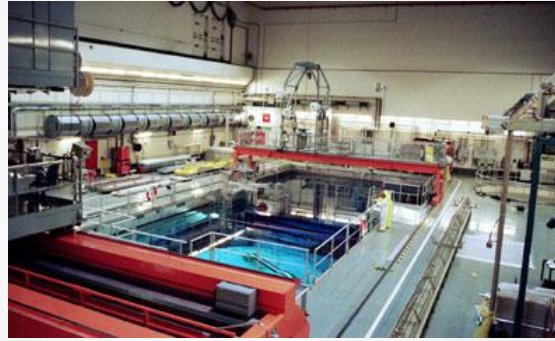
# New ways of use

- Trains, ships, trams...



# New ways of use

- Nuclear power plants



# New ways of use

- Alcolock barriers in ports and on camping sites



# New: -Speedgates with alcotest

For passage at airports, nuclear plants etc



INTERNATIONAL ROAD SAFETY



**Test Lab**

EVALUATION • DEVELOPMENT • TEST

# Conclusion

Vision Zero milestone – 220 road deaths by 2020

Target for impaired driving: 99,9% sober traffic

Condition for reaching the target:

***Alcolocks in all new cars  
as soon as possible***



# Latest news on alcolocks at [www.mhf.se](http://www.mhf.se) or contact us:

**Tomas Jonsson**

Project manager alcolock

[Tomas.jonsson@mhf.se](mailto:Tomas.jonsson@mhf.se)

+46 70 564 37 36

**Tom Bjerver**

CEO at MHF

[Tom.bjerver@mhf.se](mailto:Tom.bjerver@mhf.se)

+46 702 31 10 58



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