

Alcolocks

- a life saving technology

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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



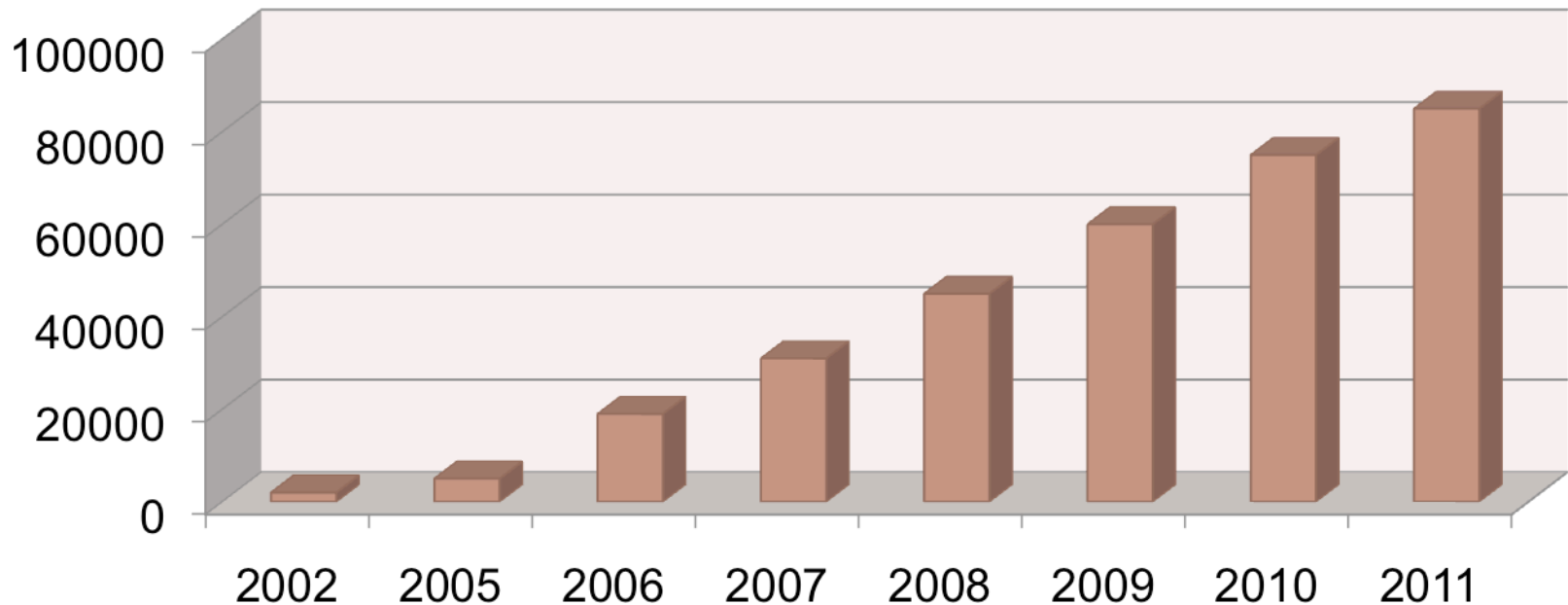
Conditions for the targets

- 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

Europe

- CENELEC EN50436-1 (2005)* Instruments for drink-driving-offender programs
- CENELEC EN50436-2 (2007)* Instruments having a mouthpiece and measuring breath alcohol for general preventive use 2

USA

- NHTSA Docket No. 91-07 Model Specifications for Breath Alcohol Ignition (1992)* Interlock Devices (BAIIDs) CURRENTLY UNDER REVISION

Australia

- AS 3547 (1997) Breath alcohol testing devices for personal use

Alberta

- 355A02-01 (1992) Qualification test specification for Breath Alcohol Ignition Interlock Devices (BAIID) for use in the Province of Alberta

Canada

- CSTT-HVC-TR-114 Technical Standard for Vehicular Breath Alcohol (2011) Interlock Devices in Canada
Final draft to be delivered in 2011



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.



MHF Test Lab

- MHF Test Lab offers the following tests for alcohol measuring systems:
 - Development tests
 - Prototype tests
 - Tests in line with international standards for alcolocks
 - Commissioned consumer tests



MHF Test Lab

MHF Test Lab is accredited by SWEDAC for the following areas:

1. Alcolocks used in drink-driving-offender programs
 2. Alcolocks used for quality assurance of transports
 3. Alcohol meters used professionally, for example by the police.
1. Measuring ethanol
 2. *Coming soon: Mixing of calibrating fluids*



Consumer information

- MHF assess alcolocks and publish consumer information on our website www.mhf.se



Alcolock technique

An alcolock takes up to five different samples

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



Service network

- Equipment and qualified staff is needed when alcolocks are calibrated.
- If the equipment fails to operate properly, alcolocks can measure inaccurate.



Alcolocks

Basic demands on an alcolock:

- Correct alcohol measuring
- Manipulation technique ensuring human breath
- Not affected by electromagnetics



Alcolocks in the future

Future technology

- Non-dispersive Infra-Red technology – breath sample
- Near-infrared (NIR) absorption spectroscopy to measure alcohol in skin tissue



More info from USA: www.dadss.org

The Automotive Coalition for Traffic Safety (ACTS) and the National Highway Traffic Safety Administration (NHTSA) have entered into a cooperative research agreement to explore the feasibility, the potential benefits of, and the public policy challenges associated with a more widespread use of in-vehicle technology to prevent alcohol-impaired driving.

Alcolocks in the future

- Together with other vehicle technology



Unions standpoints

- Alcohol testing should be decided in local agreement.
- The unions in Sweden prefer alcolocks over other testing in the workplace.
- Alcolocks based on fuel cells should be used and instruments calibrated regularly.
- To justify use: installation in all company vehicles, not only a few (including the managements company cars)
- Alcolocks must be part of the internal environmental process and integrated in the alcohol & drug policy



Use in commercial transports

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



New ways of use

- Big work machines



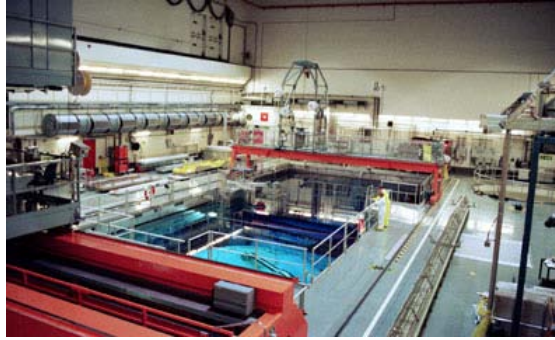
New ways of use

- Trains, ships, trams...



New ways of use

- Nuclear power plants



New ways of use

- Alcolock barriers in ports and on camping sites



Alcogates

- Speedgates with alcotest
 - For passage at airports, nuclear plants etc



INTERNATIONAL ROAD SAFETY
 **Test Lab**
EVALUATION • DEVELOPMENT • TEST



Conclusion

- UN "Decade of action for road safety 2011-2020".
- Goal: Reduce road deaths by 50% and save 5 million lives

Condition for reaching the target:

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



Contact

- Latest news on alcolocks: www.mhf.se

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