(Ignition Interlock Device = **IDD**)

IDD placed at a bus depot

Some Borås Lokaltrafik numbers

- Turnover 145 million SEK
- Personnel ≈230 (Bus drivers ≈190)
- Buses ≈60

Why an IDD?

- To prevent as far as possible any driver driving a bus while affected by alcohol.
- To discover at an early stage if any person is at risk of becoming an alcoholic
- Requirement included in the contract with our client – Västtrafik AB
- Requirement from our owner - Borås Stad

Objections to a vehicle-mounted IDD

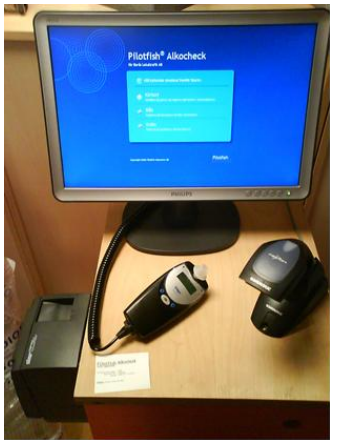
- Drivers unwilling to perform test in front of passengers
- Technical problems may cause unmotivated suspicion
- There are already many technical devices installed on buses which all have to work together

Pilot project proposed in 2007

- An IDD placed at the bus depot
- A general solution which can be used throughout the transport sector
- Applies to all drivers
- ID required
- Logging of results
- Verification and monitoring by MHF (The Abstaining Motorists' Association)

Trial carried out 2009-2010

- Limited to one of two places
- Identification by driving licence
- Breath alcohol tested using a Dräger Interlock XT
- Receipt issued for breath test



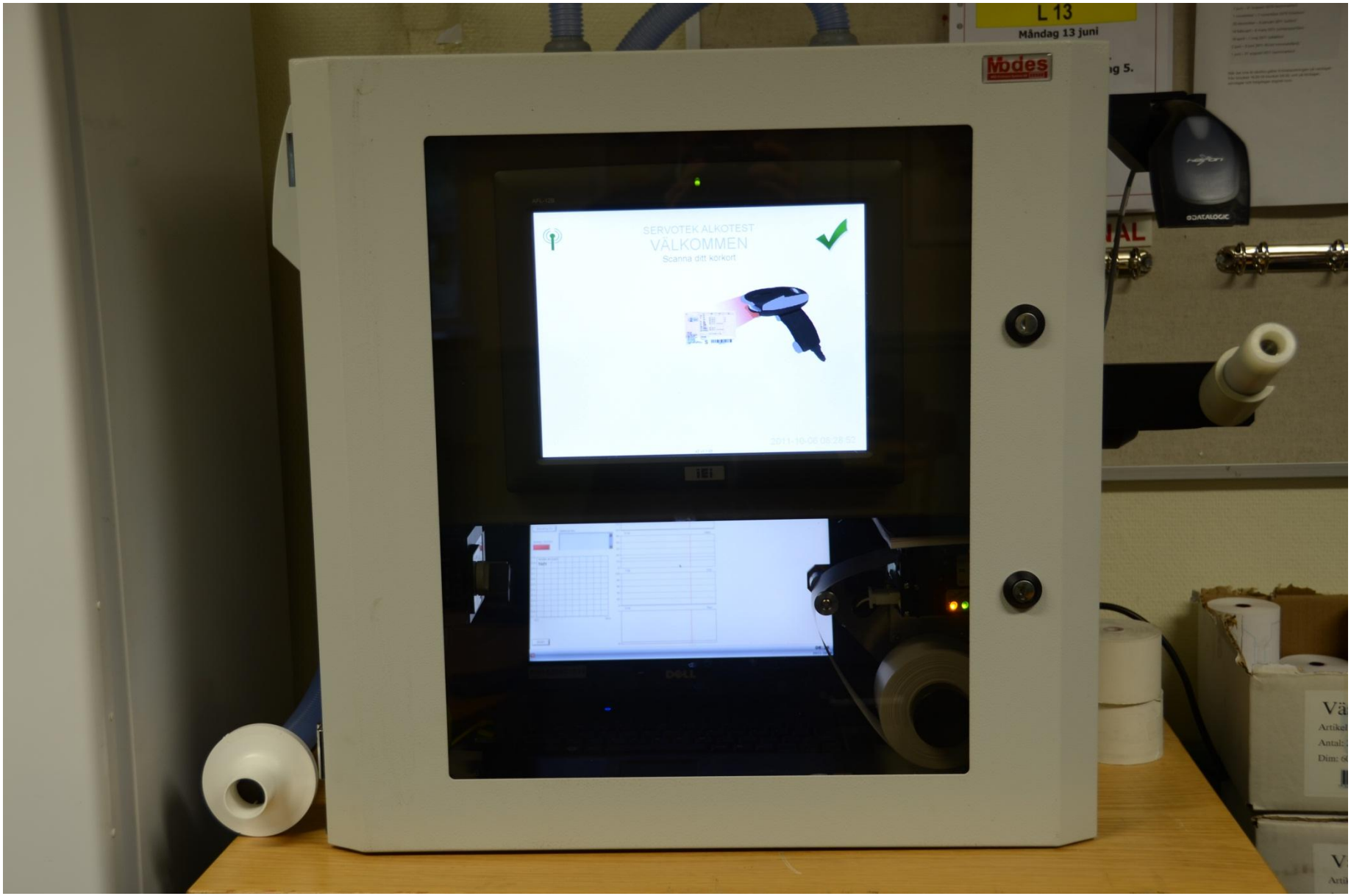
- Positive results sent by SMS to staff management
- Program developed by Pilotfish AB
- Project costs for program, hardware, spare parts and operational supplies ≈ 150 000 SEK

What was learned

- The method works.
- Cost efficient: A small PC, GSM-modem, barcode scanner, receipt printer and IDD cost c. 20 000 SEK. Software costs are not included.
- However: The IDD uses a fuel cell sensor which cannot manage too many consecutive tests.
- Frequent calibration needed – probably at least once a month.
- Improved, more reliable technology is required.

The next step and new experiences

- We contacted Sven Gunnar Olsson at Servotek.
- He presented an IDD which uses IR technology with the following features:
- Quick
- Non-touch
- Everybody can blow for long enough
- Positive results documented and the documentation saved
- Introduced in April 2011 in one place and after June 2011 in two places
- Every driver tested before they begin their shift.



DEPOT-BASED IDD CABINET



OPENING SCREEN



Stockholm


SERVOTEK ALKOTEST
Borås Lokaltrafik
ID: 00649
Datum: 2011-10-06
Tid: 08:32:46
Uppmätt konc: 0,00mg/l
Resultat: Godkänt!
Åtgärd: Ha en bra dag!

RECEIPT

A comparison

Bus-mounted IDD

- – Test in front of passengers
- – Higher operating costs
- + Each driver tested several times a day when buses change drivers

Depot-based IDD

- + Reliable operation
- + Quick
- + Non-touch (no mouthpiece)
- + Message sent if someone tests positive
- – Breath test only at start of work shift

Costs

Bus-mounted IDD

- We have estimated the cost for 60 buses.
- Costs include new IDDs, installation, service, calibration, log analysis and operating supplies:
  270 000 SEK/year

Servotek depot-based IDD

- Rent for 2 IDD cabinets:
  120 000 SEK/year

Thank you!