



Project n° 218940
ARCHIMEDES
 Achieving Real Change with
 Innovative Transport measures
 Demonstrating Energy Savings



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Achieving Real Change with Innovative Transport Measures Demonstrating
 Energy Savings

Seventh Framework Programme – TREN/FP7TR/218940”ARCHIMEDES”
 Collaborative project

Measure 63, task 7.1 Environmental Zone

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<i>Dissemination Level</i>		
<i>PU</i>	<i>Public</i>	X
<i>PP</i>	<i>Restricted to other programme participants (including the Commission Services)</i>	
<i>RE</i>	<i>Restricted to a group specified by the consortium (including the Commission Services)</i>	
<i>CO</i>	<i>Confidential, only for members of the consortium (including the Commission Services)</i>	



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1. Description of the measure

Although the movement of heavy goods vehicles and busses is essential to the daily life of city centres, they contribute largely to the environmental impacts of transport, especially in terms of emission of Particulate Matter. This demonstration project implements an environmental zone with specific restrictions on most heavy goods vehicles and busses.

2. Description of the Task

Aalborg has implemented an environmental zone bounded by the ring road around the centre of Aalborg and north of the centre by the fjord. It is planned that only heavy goods vehicles and busses (>3.5 tonnes) that comply with the following standards will be allowed to drive in the zone.

3. T 63.1 Environmental Zone in Aalborg

3.1 Description of the work done

December 2006 the Danish Parliament adopted the law concerning low emission zones (LEZ) in Denmark.

Five municipalities have been given the possibility of establishing a LEZ. These five are: Copenhagen, Frederiksberg, Århus, Odense and Aalborg. Copenhagen and Frederiksberg implemented the Environmental Zone in September 2008

Aalborg was the second city to establish the Environmental Zone by February 2009. Århus and Odense are in the planning phase.

The conditions within the Environmental Zone are exactly the same in all environmental zones in Denmark. Issues concerning geography and transit roads are individual.

As part of the ARCHIMEDES project the first thing to do was an information meeting the 16th of September 2008 with freight operators.



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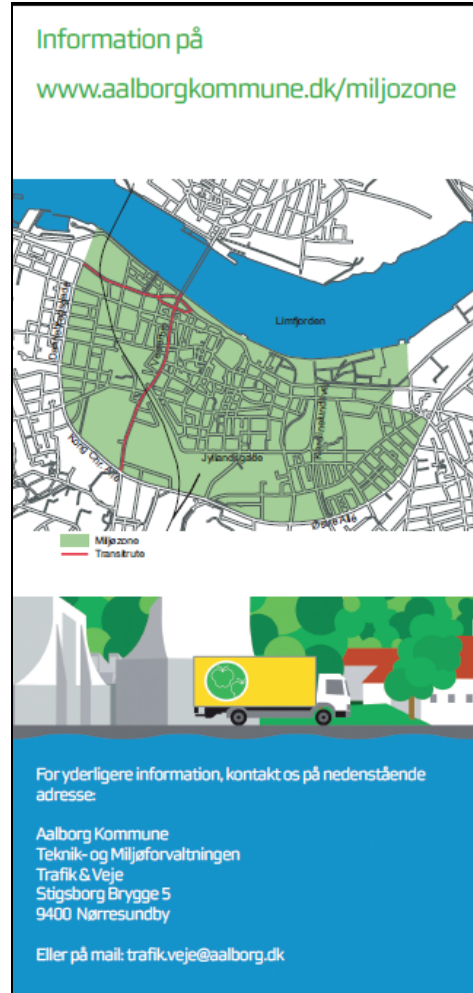


One week before and one week after the inauguration posters were displayed at approximately 40 outdoor commercial screens in the city. The poster can be seen below.

At the inauguration of the environmental zone, **an event** was held on Monday the 2nd of February 2009 at 8 am. The event took place at one of the main entrances to environmental zone. The Alderman for the Technical and Environmental Department revealed **the first environmental zone sign** and in the following hours drivers in the environmental zone were handed out breakfast rolls by employees at the municipality as part of the event. Also **information leaflets** were handed out to interested people and drivers.



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Front and back of the leaflet handed out as part of the event and to interested people.

Below poster used for outdoor commercials in the city with the text: Remember the Environmental Zone.

Husk miljøzone

Pr. 1. februar 2009 indfører Aalborg Kommune miljøzone i midtbyen.
Tjek www.aalborgkommune.dk/miljozone for mere information.





The Alderman for the Technical and Environmental department reveals the first sign at one of the entrances the 2nd of February 2009. The Alderman is surrounded by representatives from the police, the local trade association and freight federations.

Information Meeting with freight operators 16th of September 2008 regarding the environmental zone.

Information banner, below, at the municipality website about the environmental zone was active from the 2nd of February 2009 to the 16th of February 2009. The banner lead to the information pages of the Environmental Zone on the municipality website.

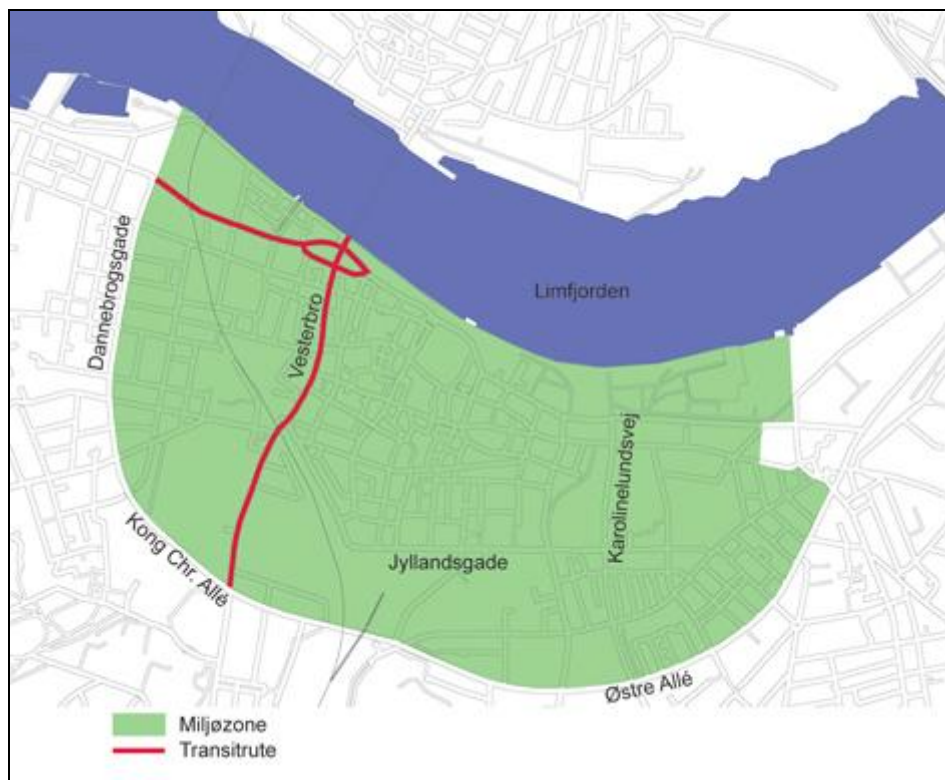


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3.2 Description of the Environmental Zone

The geography and transit roads in Aalborg can be seen on the map below.



Marked with green is the low emission zone and the red line is a transit route without any restrictions in order to ensure all vehicles the possibility to cross the Limfjord.

Included vehicles are busses and lorries; 3,5 tonnes or larger.

The demands are

- **February 2009:** the engine is EURO 3 or newer or has a particulate filter
- **July 2010:** the engine is EURO 4 or newer or has a particulate filter

Danish vehicles need a special environmental zone mark in the front window. International vehicles need documentation in the vehicle due to the demands.



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3.3 Enforcement

Violation of regulations in the environmental zone is breach of Danish law. So the authority to enforce these regulations rests with the police.

The Police conduct special raids in the zone focused on Heavy Goods Vehicles and busses and observance of compliance with the rules is part of their control of vehicles driving or parking in the centre of Aalborg on their regular patrols.

When the Aalborg Municipality Environmental Department is on their regular environmental controls in companies situated in the environmental zone, they control vehicles and rapport violations to the police.

The police have reported 14 violations from 2nd of February 2009 to 15th of June.

The environmental department has reported 0 violations from 2nd of February 2009 to 15th of June.

3.4 Problems identified

No problems have been detected for the environmental zone.

3.5 Future plans

In July 2010, the new requirements will be effective, and engines have to fulfill the EURO 4 norms or have a particular filter.

Evaluation on the measure, e.g. on emission and air quality will be carried out.