



Asfaltni sloj s niskim otporom kotrljanja povoljan za okoliš

Climate-friendly asphalt layer with low rolling resistance

Anders Hundahl CEO, Danish Asphalt Pavement Industry







Population 3.9 mio.

Size 57.000 km²

Density 68 km²

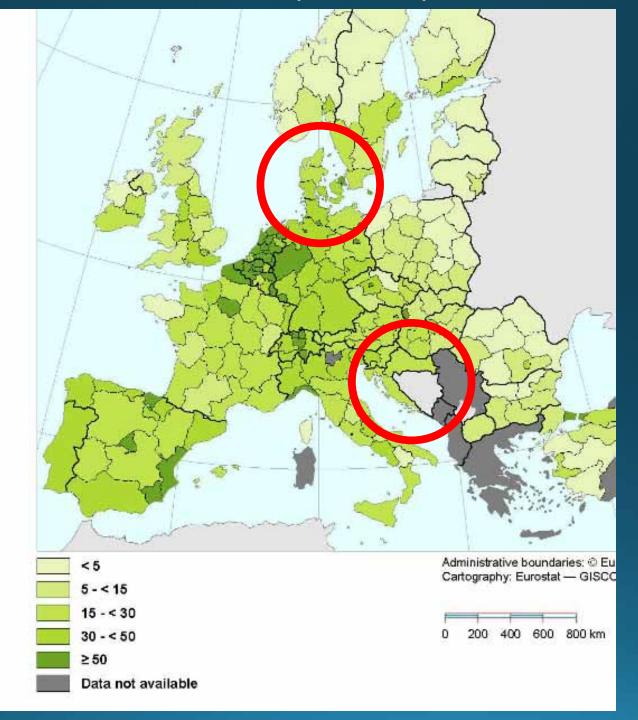


Population 5.9 mio.

Size 43.000 km²

Density 138 km²

Prwruzd ghqvw





Climate friendly asphalt layer with low rolling resistance is a Danish invention based on public private partnership State (University + Road Directory):
Research, development and decision to use

Climate friendly asphalt layer with low rolling resistance

Customer:

Demand:

- Long term, stable

Companies:
Develop and offer
to the marked



The wearing course is produced with polymer-modified bitumen, of high-quality type 40/100-75, and a high binder content. This ensures good flexibility and contributes to expected higher durability than traditional SMA wearing courses

The surface of the o/8 mm is semiopen graded, with sufficient texture depth to ensure good friction. The special composition results in a pavement with low rolling resistance and noise reducing properties. It is expected that improved properties are maintained throughout the lifespan of the pavement

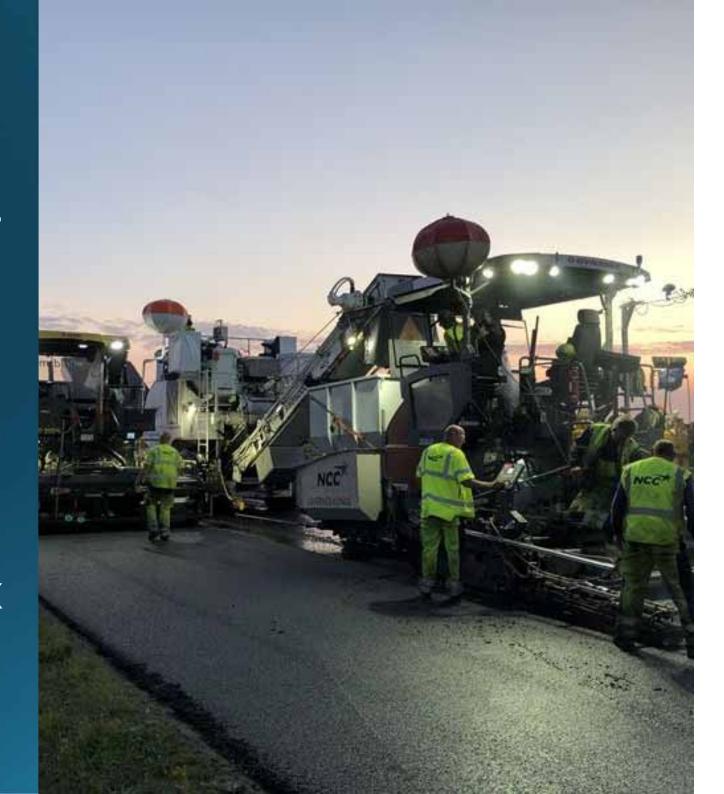


Save 200.000 ton CO₂/year - in Denmark alone when fully laid out



Not patendet – can be used freely

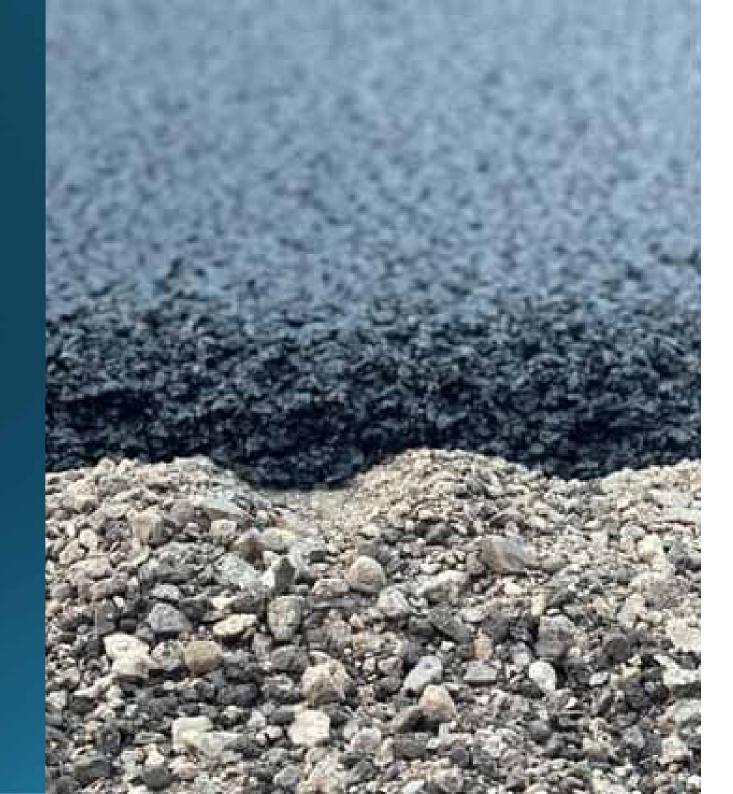
Expected CO₂ reductions, averaged over a pavement life span of 17 years, are 1 % compared to standard SMA 8/11 (mix of the two)





Expected durability of the climate friendly asphalt layer pavement is comparable to or better than standard SMA 11

Expected lifetime is 17 years



Noise reduction (up to 2 dB) of the climate friendly asphalt is similar to standard

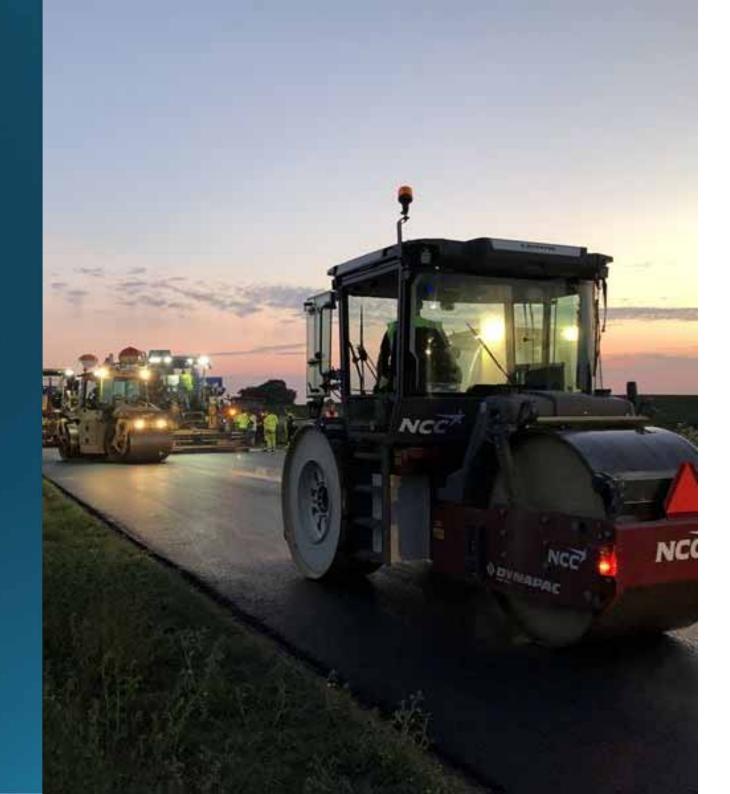
SMA 11 but it is expected to last longer due to the long-lasting properties





Saves money to other forms for noise reduction

Quality of the paving operations have a strong influence on the quality of the finished layer





Traning and education important

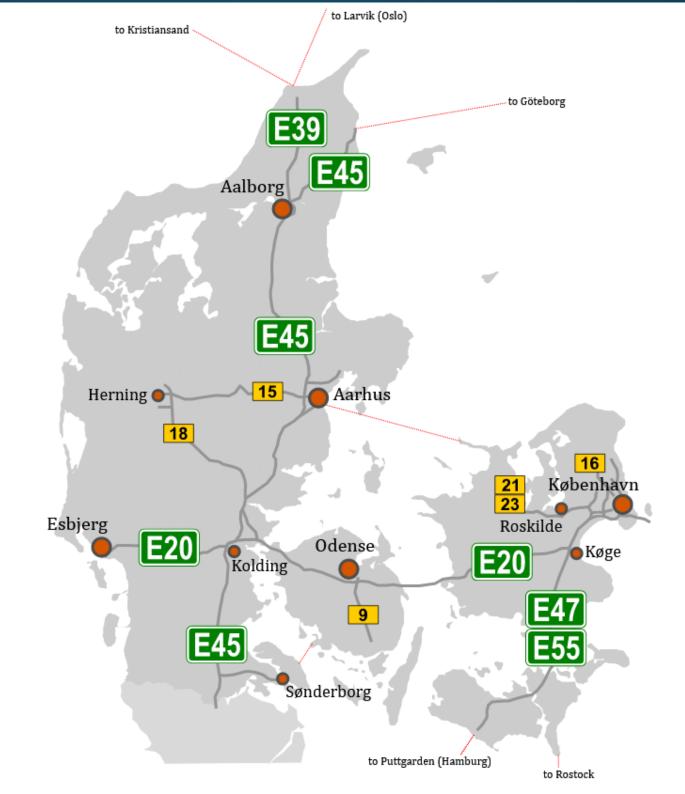
Four different test sections were paved in 2018

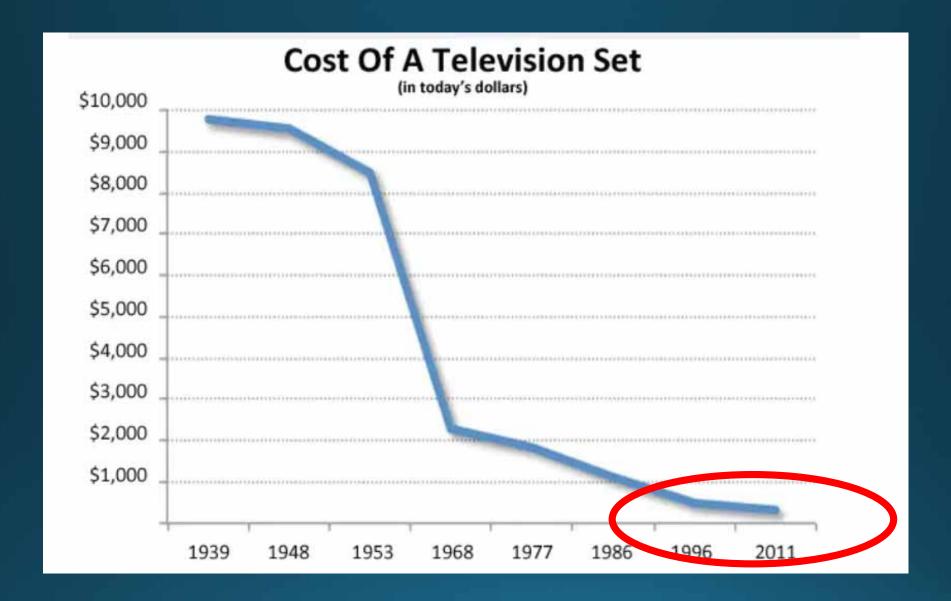


Political decision to use climate friendly asphalt with low rolling resistance on all state roads from 2020



3.912 km stateway (1.400 km motorway) + many big municipal roads





News - Commodity



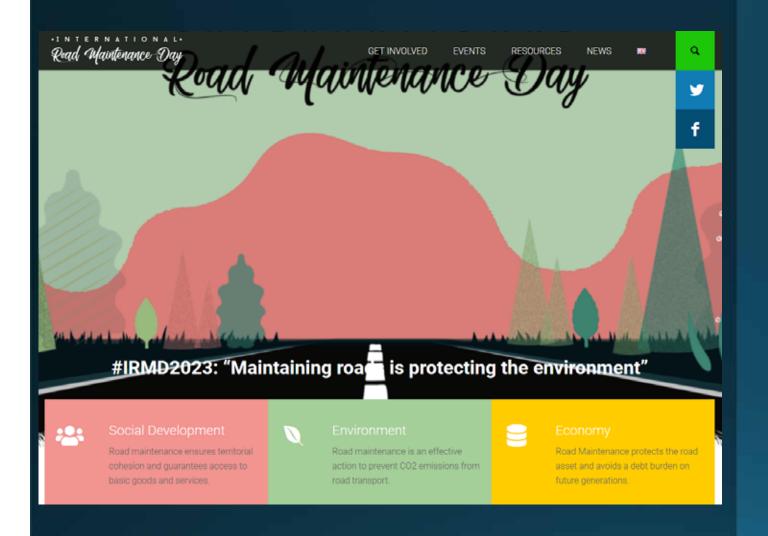












"Roads are a function of cars; when they become green, so do the roads" Juan José Potti

Green:

Electric car

Dark blue:

Train

Bright blue:

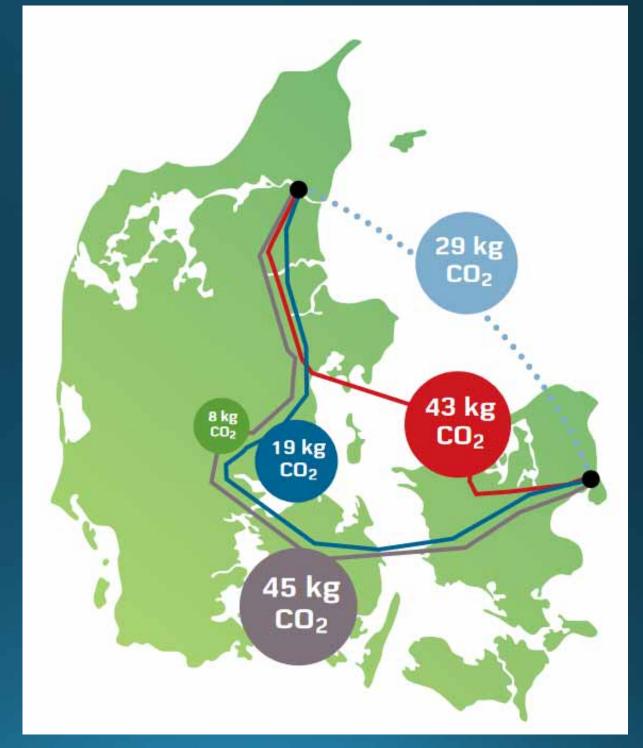
Plane and el. taxi to and from airport

Red:

Electric car and ferry

Brown:

Gasolin car



Source: Niras



We in the asphalt pavement industry can make a difference!
Let's get on with it!





THANK YOU

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For short presentation in English:

https://www.asfaltindustrien.dk/Politikere/Klima/

Asphalt pictures kindly made avalible by NCC and Pankas and The Danish Road Directory