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FOCUS AREAS CURRENT RESEARCH LAR & ANALYSIS PUBLICATIONS INTERNATIONAL CONSULTING



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News

Publications



② 2018-08-17 | Press release

European study shows diesel car emission levels

An IVL-led study has compiled emissions data from over 700,000 vehicles in Spain, Sweden, Switzerland and the UK. The results show that NOx emissions from diesel vehicles haven't significantly changed

IVL video





Study basics

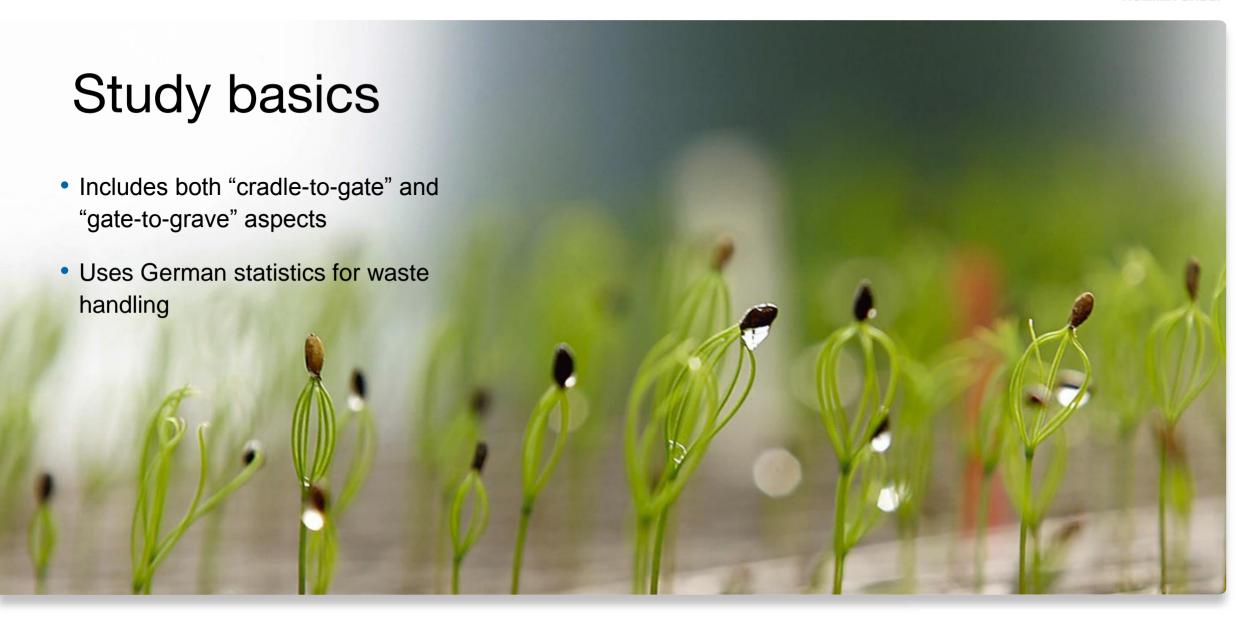
- Scientifically compare the climate impact of different packaging materials
- All aspects translated into a CO₂e index
- Packaging of the same goods doing the same "job"
- Uses available European data for plastic, glass and metal production

















Packaging basics:

Soft plastic bag for 500g pasta

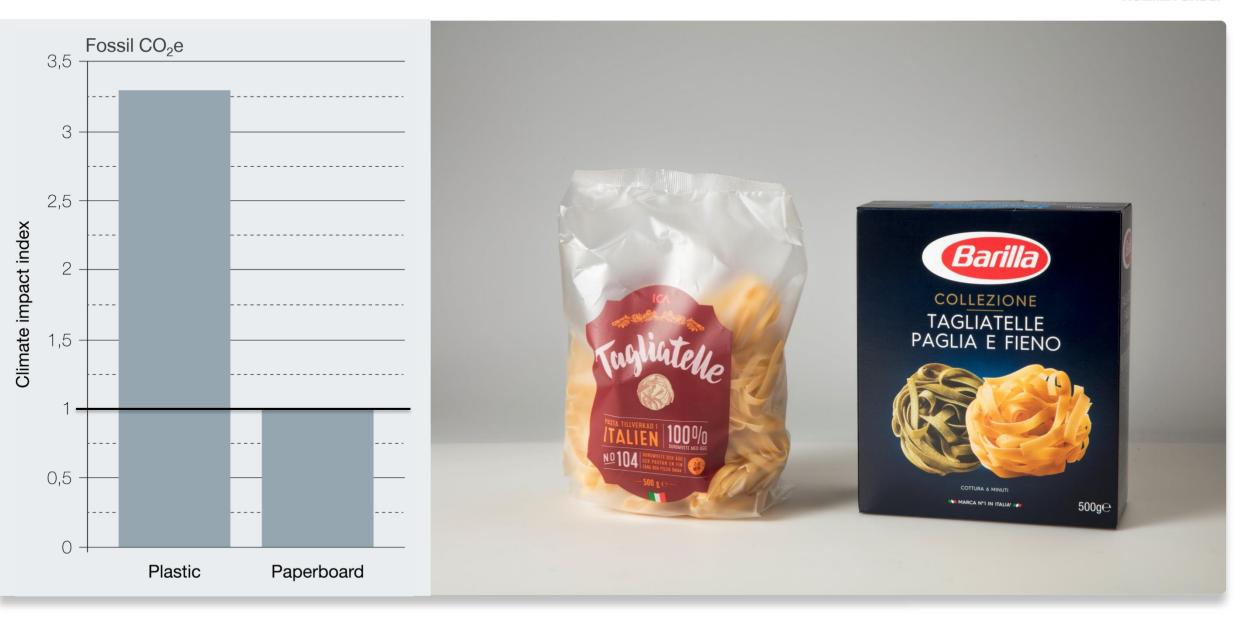
Packaging weight – 9g

Paperboard box for 500g pasta

Packaging weight – 58g









Packaging analysis:

Plastic bag	Fossil CO ₂ e/bag	
Total climate impact	27g	
Cradle-to-gate	21g	
Gate-to-grave	5g	

Paperboard box	Fossil CO ₂ e/box	
Total climate impact	8g	
Cradle-to-gate	22g	
Gate-to-grave	-13g	





Packaging basics:

Plastic blister pack with paperboard backing

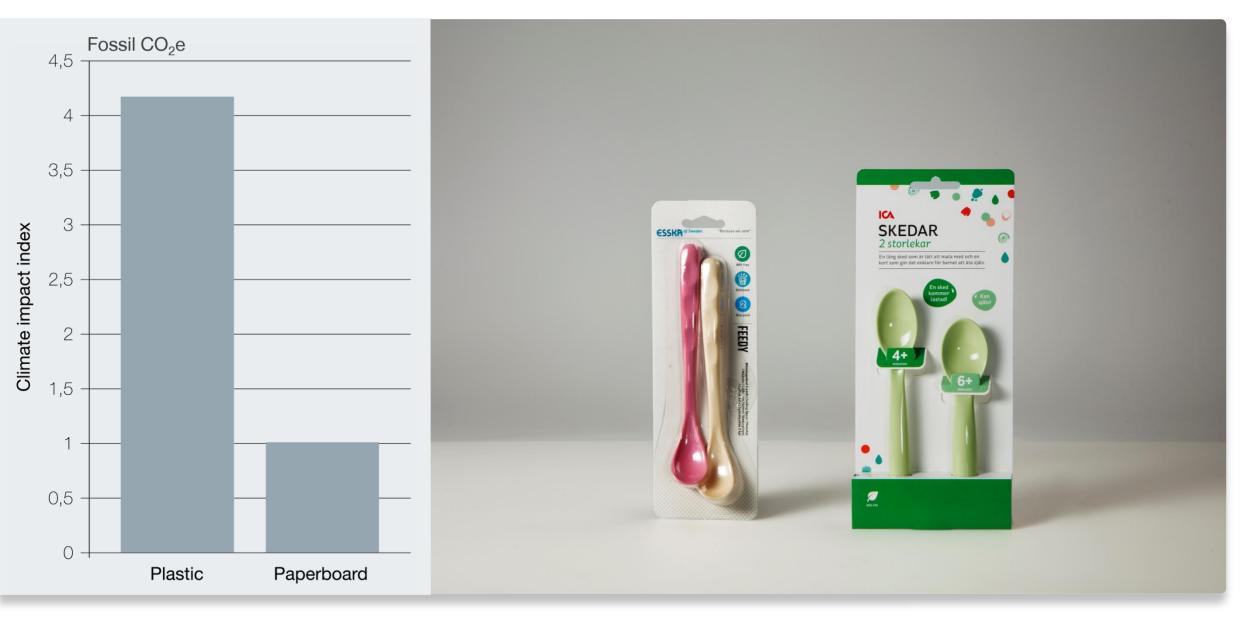
Packaging weight – 14g

Double folded open paperboard packaging

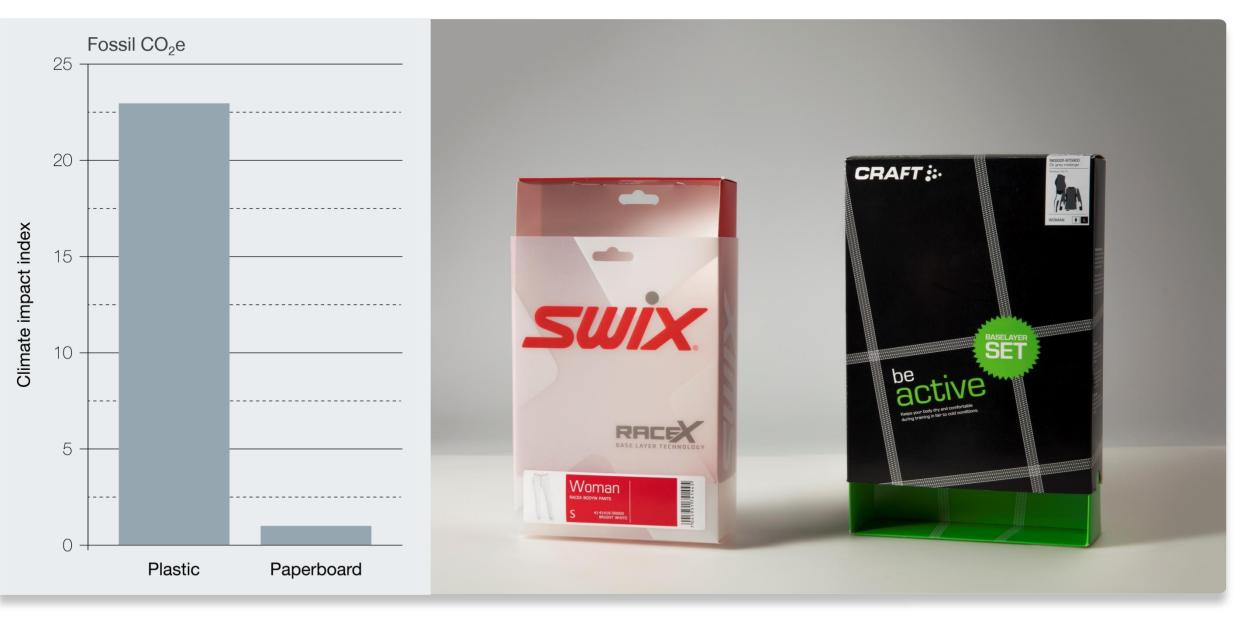
Packaging weight – 19g

















Packaging basics:

Hard plastic blister pack

Packaging weight – 28g

Paperboard box with hanger

Packaging weight – 18g

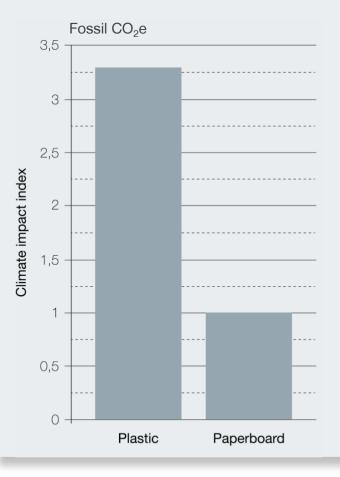








Plastic dieting result:







Plastic dieting result:

Switch from plastic to paperboard =

-70% of the fossil CO₂ emissions

Effect of going the other way:

Switch from paperboard to plastic =

+238% of fossil CO₂ emissions





Plastic dieting result:

Switch from plastic to paperboard =

-99% of the fossil CO₂ emissions

Effect of going the other way:

Switch from paperboard to plastic =

+8300% of fossil CO₂ emissions





Comparing CO₂ savings from switch:

From Range Rover Sport 3.0 to Hyundai i10 1.0 =

-51% of the fossil CO₂ emissions

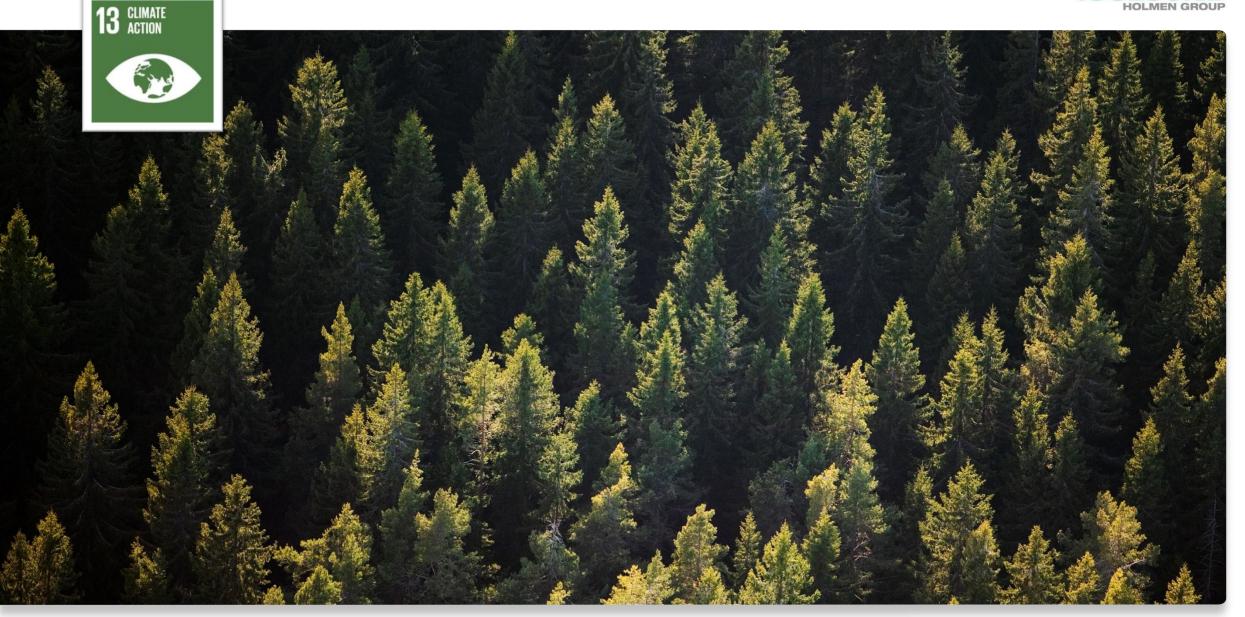
Effect of going the other way:

From Hyundai i10 1.0 to Range Rover Sport 3.0 =

+102% of fossil CO₂ emissions



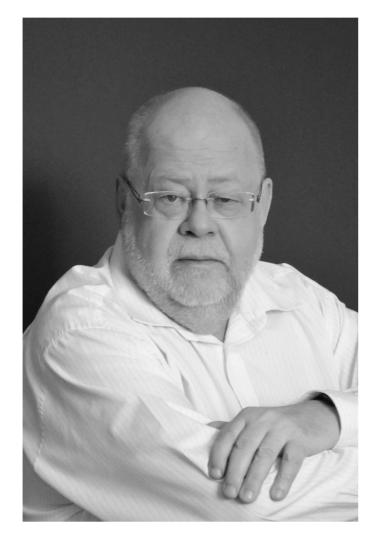












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