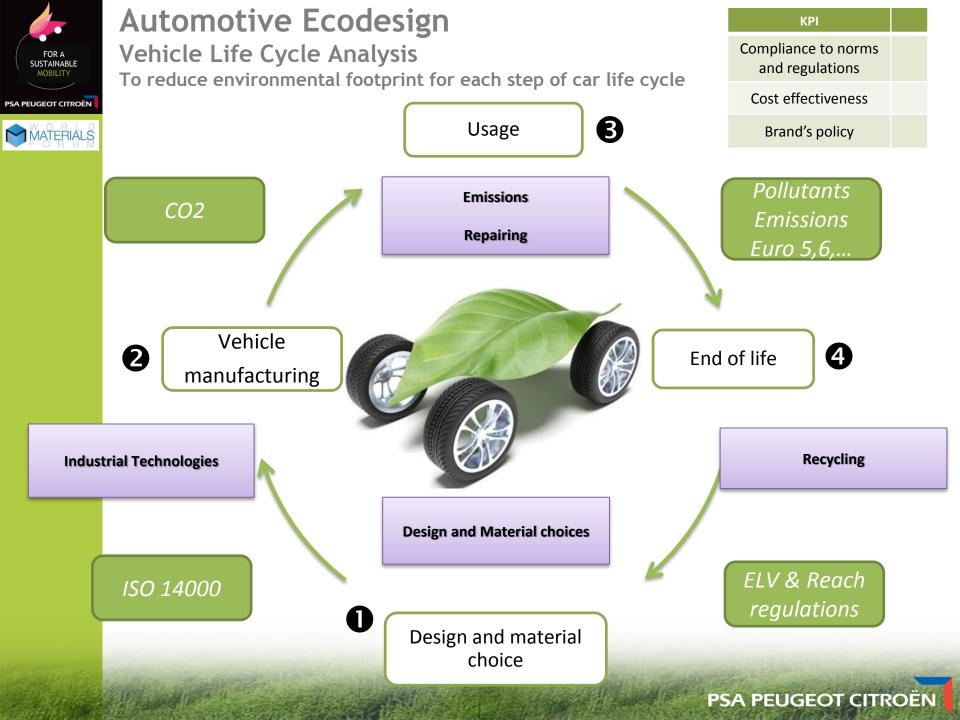
EcoDesignin automotive industry

World Material Forum Nancy, 2015 june 23th

Gilles Le Borgne EVP Research & Dévelopment PSA Peugeot Citroën

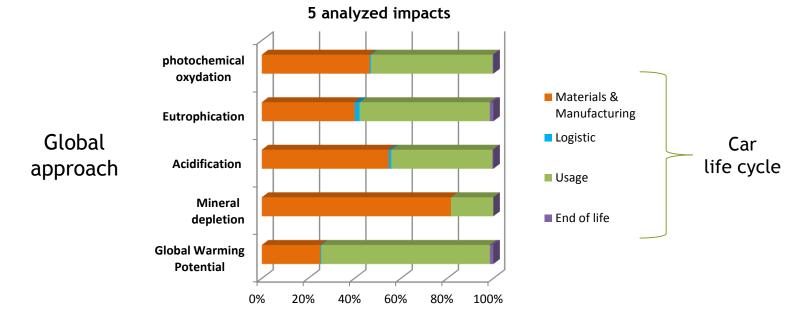


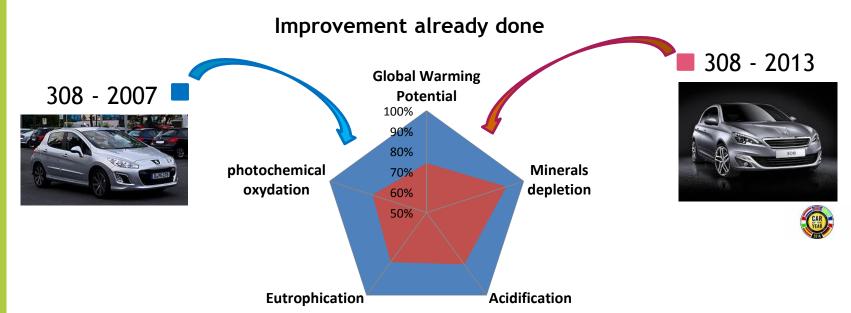






Automotive Ecodesign - Vehicle Life Cycle Analysis





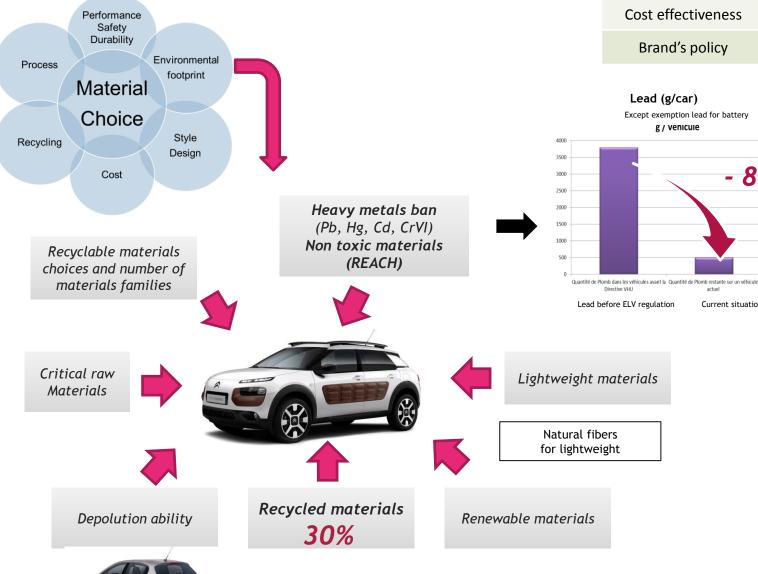


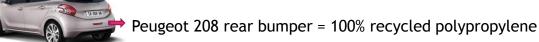


Design and material choice



Current situation







2. Manufacturing

Compliance to norms and regulations

Cost effectiveness

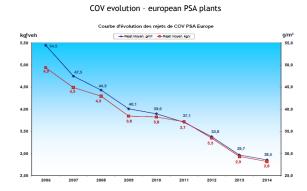
Brand's policy

Industrial Technologies (2014 to 2018)



VOC reduction Target av.<2,5kg/car Best plant = 1,2 kg/car

- Energy efficiency Target < 2 MWh/car</p>
- Reduce water consumption 3,6 to 3,3 m3/car
- Recycling material scraps
 Loops with material suppliers
- Target « no hidden waste » in european plants to 2020





MATERIALS

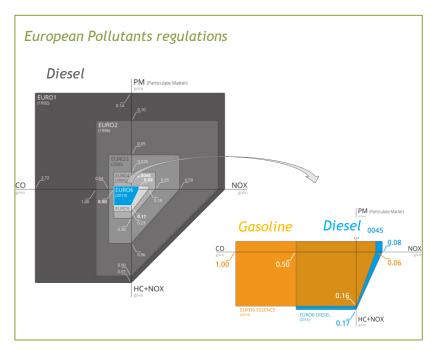
3. Usage (most important impact)

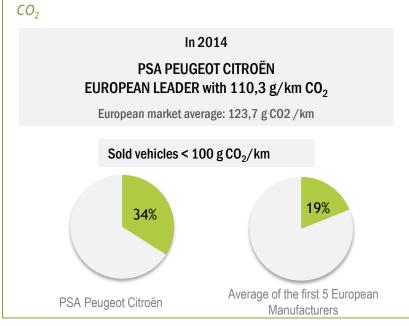
Powertrains: CO2 / €5, €6

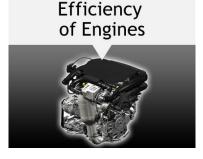
Compliance to norms and regulations

Cost effectiveness

Brand's policy









Depollution



Electrification

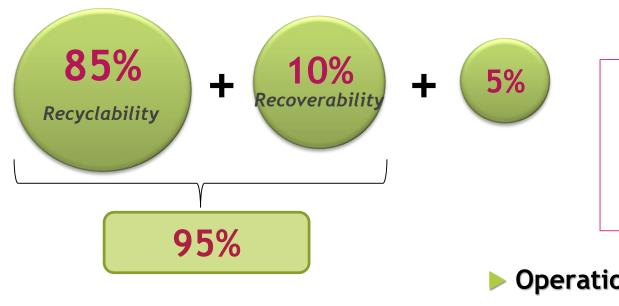




4. End of life (Directive 2000/53)

Compliance to norms and regulations Cost effectiveness Brand's policy

Since 2008 for New Type vehicles (mass):



« Car is the most recyclable manufactured complex product in the world »

Operational Treatment

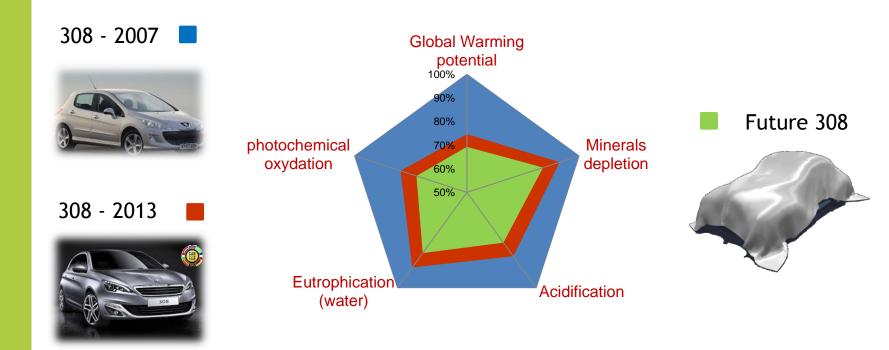


In 2015 for operators in EC



CONCLUSION: 2020 target

estimation: future 308 €7 vs 308 €6/308 €4



« There is no business to be done on a dead planet » (David Brower)







Questions?



