

For Our Environment

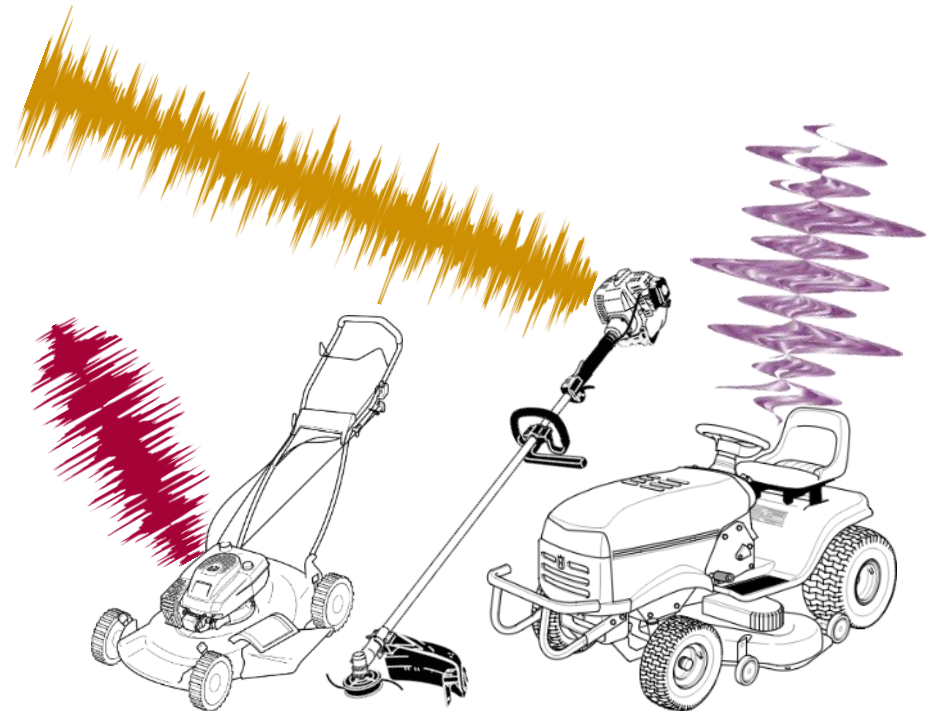
Buy Quiet 2016 – Declarations and Labels

European Product Noise Labels & “The Blue Angel”

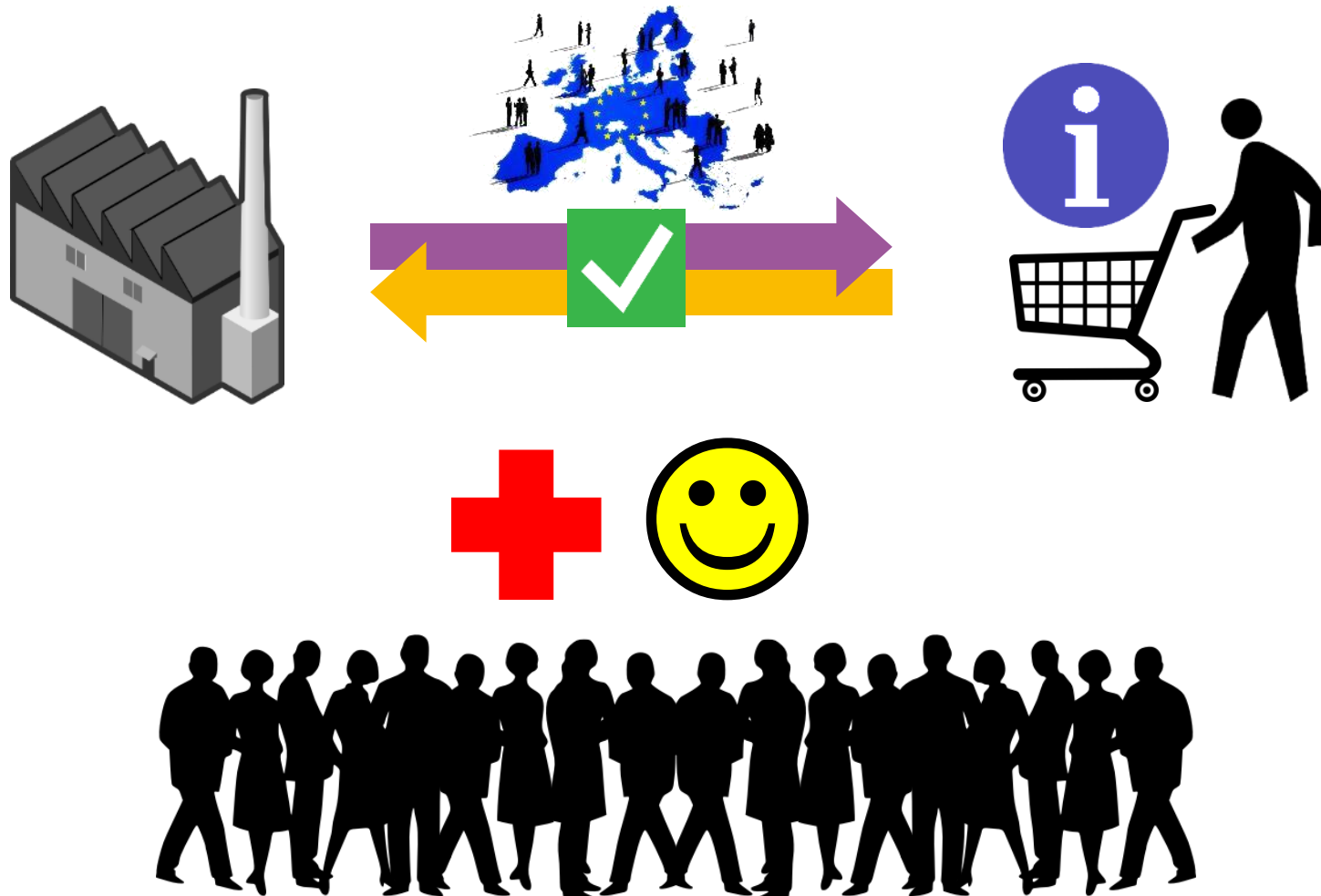
Christian Fabris

Section I 3.4 Noise Abatement of Industrial Plants and Products,
Noise Impact

Noise of Products



Incentives for Stakeholders



Technical Requirements



$$L_p \text{ vs. } L_W$$
$$\bar{L} \text{ vs. } \bar{L} + K$$



Forces for the Use



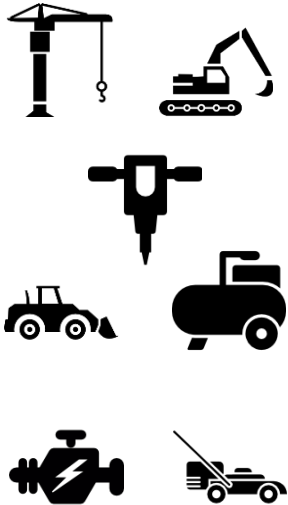


The European Outdoor Noise Directive

80's 2000

 11 product types

 57 product types



$$L_{WA}$$
$$\bar{L}(+K)$$

$$L_{WA,max}$$

(22 prod. types)



Lower machinery noise
European role model for noise labelling



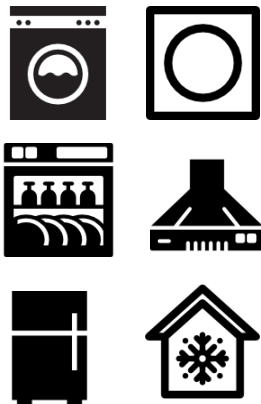
The European Energy Label Directive

90's

2010's

 9 product types

 10 product types



$$L_{WA}$$

$$\bar{L}(+K)$$

$$L_{WA,max}$$

(3 prod. types)



Consumers knowingly buy quiet!

Take Advantage of Existing Resources



$$L_{WA} \\ \bar{L} + K$$

$$L_{WA,max} - x \text{ dB}$$

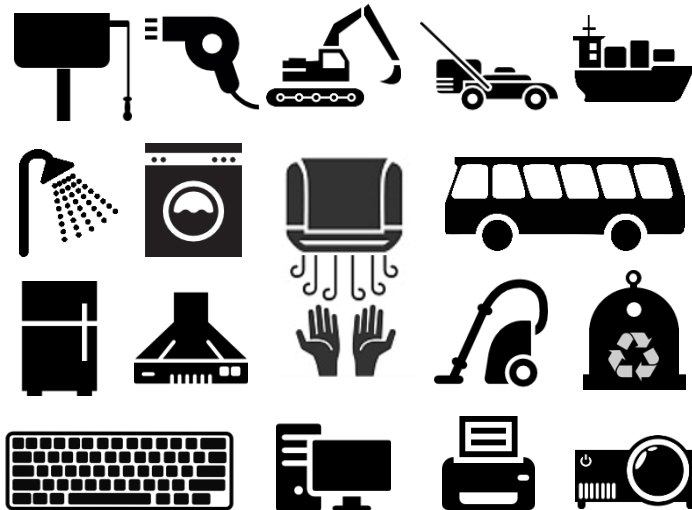




“The Blue Angel” for Low-Noise Products

70's

 76 product types



Blue Angel Products preferred in public tendering procedures!

Conclusions

1. Implementation of Noise Labels

Find incentives, requirements and forces

2. Use of Existing Requirements

Outdoor Noise Label

Energy Label

→ **The Blue Angel**

Thank you! Questions?

Christian Fabris

I 3.4 Noise Abatement of
Industrial Plants and
Products, Noise Impact

christian.fabris@uba.de