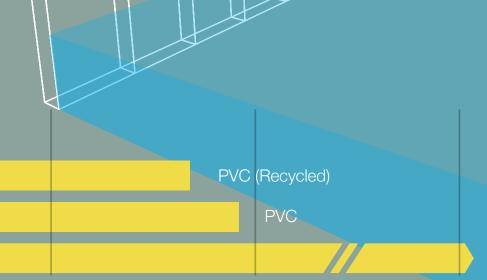
# ENVIRONMENTAL IMPACT OF SELECTED MATERIALS

How to make a difference as a civil / hydraulic engineering project manager or consultant

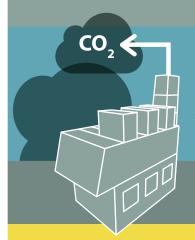
Timber (Azobé)



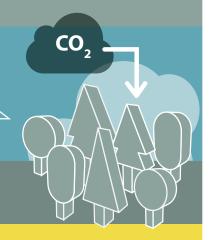
€5.-

Material FCI per m<sup>2</sup> of pile planking / sheet piling (FY, 2016)

€2,50



# HERE'S MY FACTORY



€25,

#### **STEEL & PLASTIC**



#### Climate

Production generates CO<sub>2</sub> emissions



#### **Raw Materials**

Depletion of scarce resources

#### **CERTIFIED TIMBER**



#### Climate

Production absorbs CO.



#### **Raw Materials**

Use of renewable resources

# per m² of pile planking / sheet piling

PVC

**RECYCLE** 

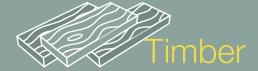
### **FOOD FOR THOUGHT**



As a waste product, timber is Incinerating wood for power to burning fossil fuels.

## **MATERIALS STUDIED**

Okan



Red

Angelim

Three types of tropical hardwood waling: 150 × 100)



**PVC** 

VIRGIN

Cold-rolled PW3030 cross-section



GW 460/5.5 Omega plastic

# **ENVIRONMENTAL IMPACTS ASSESSED**



Toxicity brackish water,



Ozone Layer



Eutrophication



Acidification



Climate (CO<sub>2</sub>)



Resource Depletion

#### Sources:

study comparing timber, steel and plastic. Both studies used the SBK's Bepalingsmethode Milieuprestatie Gebouwen en GWW-werken ('Environmental Performance Determination Methods for Buildings and Civil / Hydraulic Engineering Works')







